# 機械設備器具安全標準(民國 111 年 5 月 11 日修正)

# Safety Standard of Machinery, Equipment and Tools (2022.5.11 Modified)

| 第一章總則                                      | of Machinery, Equipment and Tools (2022.5.11 Modified)                                 |
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| Chapter I General Provisions               |  |
| 第 1 條                                      | 本標準依職業安全衛生法(以下簡稱本法)第六條第三項、第七條第二項及第八條   |
|  | 第五項規定訂定之。  |
| Article 1                                  | In accordance with the Occupational Safety and Health Act (hereinafter referred to as  |
|  | the Act) Article 6 Paragraph 3, Article 7 Paragraph 2 and Article 8 Paragraph 5, the   |
|  | standard is enacted.   |
| 第 2 條                                      | 本標準適用之機械、設備、器具如下:  |
|  | 一、本法施行細則第十二條規定者。   |
|  | 二、中央主管機關依本法第八條第一項規定公告者。  |
|  | 前項機械、器具之構造、性能及安全防護,不得低於本標準之規定。   |
| Article 2                                  | This standard is applicable to machinery, equipment or tools stated below:             |
|  | 1. Those specified in Article 12 of the Enforcement Rules of the Act.                  |
|  | 2. Those announced by the central competent authority in according with Paragraph 1,   |
|  | Article 8 of the Act.  |
|  | The structures, performances and safe guards of the abovementioned machinery,          |
|  | equipment or tools shall not below the requirements of this standard.                  |
| 第 3 條                                      | 本標準用詞,定義如下:  |
|  | 一、快速停止機構:指衝剪機械檢出危險或異常時,能自動停止滑塊、刀具或撞  |
|  | 錘 (以下簡稱滑塊等)動作之機構。  |
|  | 二、緊急停止裝置:指衝剪機械發生危險或異常時,以人為操作而使滑塊等動作  |
|  | 緊急停止之裝置。   |
|  | 可動式接觸預防裝置: 指手推刨床之覆蓋可隨加工材之進給而自動開閉之刃部接   |
|  | 觸預防裝置。   |
| Article 3                                  | Terms of the standard are defined as follows:  |
|  | 1. A protective stop mechanism: referred to automatically stop a slider, a cutter or a |
|  | ram (hereinafter referred to as the slider) when a press machine or a shear machine    |
|  | detecting dangerous or abnormal condition.   |
|  | 2. An emergency stop device: referred to stop the slider moving by manual operation    |
|  | when the press or the shear machine detecting dangerous or abnormal condition.         |
|  | 3. A self-adjusting contact-preventive device: referred to the safeguard of a hand-fed |
|  | planer that can automatically open or close with the feeding of processing material    |
|  | to prevent a blade from touching.  |
| 第二章動力種                                     |  |
| Chapter II Power presses or shear machines |  |
| 第一節安全護                                     |  |

| Section I Safetyguards |   |  |
|------------------------|---|--|
| 第 4 條                  | 以動力驅動之衝壓機械及剪斷機械(以下簡稱衝剪機械),應具有安全護圍、安   |  |
|                        | 全模、特定用途之專用衝剪機械或自動衝剪機械(以下簡稱安全護圍等)。但具   |  |
|                        | 有防止滑塊等引起危害之機構者,不在此限。  |  |
|                        | 因作業性質致設置前項安全護圍等有困難者,應至少設有第六條所定安全裝置一   |  |
|                        | 種以上。  |  |
|                        | 第一項衝剪機械之原動機、齒輪、轉軸、傳動輪、傳動帶及其他構件,有引起危   |  |
|                        | 害之虞者,應設置護罩、護圍、套胴、圍柵、護網、遮板或其他防止接觸危險點   |  |
|                        | 之適當防護物。   |  |
| Article 4              | Except that has mechanism to prevent hazard from the slider, a power press machine        |  |
|                        | or a power shear machine (hereinafter referred to as the press or shear machine) shall    |  |
|                        | have a safeguard, a safety die, be a particular-purpose press or shear machine, be an     |  |
|                        | automatic press or shear machine (hereinafter referred to as the safeguard).              |  |
|                        | Because the nature of jobs to lead difficulties for making the safeguard, it should be at |  |
|                        | least provided with one or more safety devices set by Article 6.                          |  |
|                        | Motors, gears, rotating-shafts, driving- wheels, driving-belts and other components of    |  |
|                        | the press or shear machine referred to the first paragraph and those having a risk of     |  |
|                        | causing hazards, shall have guard-shields, guard-fences, guard-grilles or other           |  |
|                        | appropriate means to prevent a body part touching danger points.                          |  |
| 第 5 條                  | 前條安全護圍等,應具有防止身體之一部介入滑塊等動作範圍之危險界限之性  |  |
|                        | 能,並符合下列規定:  |  |
|                        | 一、安全護圍:具有使手指不致通過該護圍或自外側觸及危險界限之構造。   |  |
|                        | 二、安全模:下列各構件間之間隙應在八毫米以下:   |  |
|                        | (一)上死點之上模與下模之間。   |  |
|                        | (二)使用脫料板者,上死點之上模與下模脫料板之間。   |  |
|                        | (三)導柱與軸襯之間。   |  |
|                        | 三、特定用途之專用衝剪機械:具有不致使身體介人危險界限之構造。   |  |
|                        | 四、自動衝剪機械:具有可自動輸送材料、加工及排出成品之構造。  |  |
| Article 5              | The safeguard referred to the preceding Article, shall be capable of preventing a body    |  |
|                        | part intervening the hazard zone of the slider moving and meet the following              |  |
|                        | provisions:   |  |
|                        | 1. Safeguard: being capable of preventing fingers touching through it or from outside.    |  |
|                        | 2. Safety die: a gap between as following two members being less than 8 millimeters.      |  |
|                        | (1) the upper-half die and the lower-half die when the slider at the top dead center.     |  |
|                        | (2) for having a stripper, this referred to that between the upper- half die and the      |  |
|                        | stripper, and that between the stripper and the lower-half die when the slider at the     |  |
|                        | top dead center.  |  |
|                        | (3) the guide post and bushing.   |  |

- 3. A particular-purpose press or shear machine : having a construction to prevent a body part intervening a hazard zone.
- 4. An automatic press or shear machine: having a construction automatically to feed material, process and discharge finished workpiece.

### 第二節 安全裝置

#### Section II Safety devices

#### 第 6 條

衝剪機械之安全裝置,應具有下列機能之一:

- 一、連鎖防護式安全裝置:滑塊等在閉合動作中,能使身體之一部無介入危險界限之虞。
- 二、雙手操作式安全裝置:
  - (一)安全一行程式安全裝置:在手指按下起動按鈕、操作控制桿或操作其他 控制裝置(以下簡稱操作部),脫手後至該手達到危險界限前,能使滑塊等 停止動作。
  - (二)雙手起動式安全裝置:以雙手作動操作部,於滑塊等閉合動作中,手離 開操作部時使手無法達到危險界限。
- 四、拉開式或掃除式安全裝置:滑塊等在閉合動作中,遇身體之一部介入危險界 限時,能隨滑塊等之動作使其脫離危險界限。

前項各款之安全裝置,應具有安全機能不易減損及變更之構造。

# Article 6

The safety device of the press or shear machine shall have one of the following functions:

- 1. Interlocked guard safety device: it can prevent a body part intervening to the hazard zone while the slider in closingaction.
- 2. Two-hand control safety device:
- (1) Safe-single-stroke safety device: It can make the slider stopped before two hands releasing from start buttons, control levers or other control devices (hereinafter referred to as the operating portion) reach the hazard zone.
- (2) Two-hand start safety device: It can prevent two hands releasing from the operating portion to reach the hazard zone while the slider in closing- action.
- 3. Sensing safety device: it can make the slider stopped if a body part is closing to the hazard zone while the slider in closing- action.
- 4. Pull-back or push-out safety device: it can follow the slider moving to withdraw or push a body part out from the hazard zone.

The safety devices referred in the preceding subparagraphs shall be not easy impairment or alteration.

# 第 7 條

衝剪機械之安全裝置,應符合下列規定:

一、具有適應各該衝剪機械之種類、衝剪能力、每分鐘行程數、行程長度及作業

|           | 方法之性能。                                       |   |
|-----------|--|---|
|           | 二、雙手操作式安全裝置及感應式安全裝                           | 裝置,具有適應各該衝剪機械之停止性能。                         |
| Article 7 | The safety device of the press or shear mac  | chine shall meet the following provisions:  |
|           | 1. Adapting to the type of the press or shea | ar machine, the capacity, the numbers of    |
|           | stroke per minute, stroke and operating v    | ways.                                       |
|           | 2. Adapting to the stop performance of each  | ch type of the press or shear machine for a |
|           | two-hand control safety device or a sens     | sing safety device respectively.            |
| 第 8 條     | 前條第二款所定雙手操作式安全裝置或                            | 感應式安全裝置之停止性能,其作動滑塊                          |
|           | 等之操作部至危險界限間,或其感應域                            | 至危險界限間之距離,應分別超過下列計                          |
|           | 算之值:   |   |
|           | 一、安全一行程雙手操作式安全裝置:                            |   |
|           | D=1.6 (Tl+Ts)                                |   |
|           | 式中   |   |
|           | D :安全距離,以毫米表示。                               |   |
|           | TI:手指離開安全一行程雙手操作                             | 式安全裝置之操作部至快速停止機構開                           |
|           | 始動作之時間,以毫秒表示。                                |   |
|           | Ts:快速停止機構開始動作至滑塊                             | 2等停止之時間,以毫秒表示。                              |
|           | 二、雙手起動式安全裝置:                                 |   |
|           | D=1.6Tm                                      |   |
|           | 式中   |   |
|           | D :安全距離,以毫米表示。                               |   |
|           | Tm:手指離開操作部至滑塊等抵対                             | 達下死點之最大時間,以毫秒表示,並以                          |
|           | 下列公式計算:                                      |   |
|           |  | 處之數目)×曲柄軸旋轉一周所需時間)                          |
|           | 三、光電式安全裝置:                                   |   |
|           | D=1.6 (Tl+Ts) +C                             |   |
|           | D:安全距離,以毫米表示。                                |   |
|           |  | 應域至快速停止機構開始動作之時間,                           |
|           | 以毫秒表示。                                       |   |
|           | Ts:快速停止機構開始動作至滑塊                             |   |
|           | C: 追加距離,以毫米表示,並採                             |   |
|           | <u> </u>                                     | 追加距離 C:毫米                                   |
|           | 2.1  | 0   |
|           |  | 200   |
|           |  | 300   |
|           | 超過 45,50 以下                                  | 400   |

Article 8

The distance between the operating portion of the slider and the hazard zone, or the distance between the sensing zone and the hazard zone, that related to the stop performance of the twohand control safety device or the sensing safety device set in the preceding Article subparagraph 2, shall be over the value calculated by the following equations separately:

1. Two-hand control safety device for safe- single -stroke:

$$D = 1.6 (Tl + Ts)$$

Where,

D: the safety distance, in millimeters.

Tl: the time that hands releasing from the operating portion of that device to the starting action of the protective stop mechanism, in millimeters.

Ts: the time that the protective stop mechanism starting action to the slider stopping, in milliseconds.

2. Two-hand start safety device:

D = 1.6Tm

Where,

D: the safety distance, in millimeters.

Tm: the maximum time that hands releasing from the operating portion to the slider reaching the lower dead center, in millimeters and calculated by the following formula,

 $Tm = (1/2 + 1 / numbers of clutch engagement) \times the time required for one revolution of the crankshaft)$ 

3. Photoelectric safety device: D=1.6~(Tl+Ts~)~+C~D: the safety distance, in millimeters.

Tl: the time that fingers intervening the sensing zone of that device to the starting of the protective stop mechanism, in millimeters.

Ts: the time that the protective stop mechanism starting action to the slider stopping, in milliseconds.

C: an additional distance, in millimeters, and the adopted value as shown in the following table:

| continuous shading width: | additional distance C: |
|---------------------------|------------------------|
| mm                        | mm                     |
| below 30                  | 0                      |
| over 30 , below 35        | 200                    |
| over 35 , below 45        | 300                    |
| over 45 , below50         | 400                    |

| 第9條          | 連鎖防護式安全裝置應符合下列規定:  |
|--------------|--|
| <b>分</b>   保 | 一、除寸動時外,具有防護裝置未閉合前,滑塊等無法閉合動作之構造及於滑塊  |
|              |  |
|              | 等閉合動作中,防護裝置無法開啟之構造。  |
|              | 二、滑塊等之動作用極限開關,具有防止身體、材料及其他防護裝置以外物件接  |
|              | 觸之措置。  |
| Article 9    | The interlocked guard safety device shall meet the following provisions:                 |
|              | 1. Except in an inching state, it has a construction that the slider cannot be closed    |
|              | until the guard device is closed and it cannot be opened while the slider in closing-    |
|              | action.  |
|              | 2. Limit switches that enact the slider can prevent a body part, materials or others not |
|              | belong to the protective device contacting.  |
| 第 10 條       | 雙手操作式安全裝置應符合下列規定:  |
|              | 一、具有安全一行程式安全裝置。但具有一行程一停止機構之衝剪機械,使用雙  |
|              | 手起動式安全裝置者,不在此限。  |
|              | 二、安全一行程式安全裝置在滑塊等閉合動作中,當手離開操作部,有達到危險  |
|              | 界限之虞時,具有使滑塊等停止動作之構造。   |
|              | 三、雙手起動式安全裝置在手指自離開該安全裝置之操作部時至該手抵達危險界  |
|              | 限前,具有該滑塊等可達下死點之構造。   |
|              | 四、以雙手操控作動滑塊等之操作部,具有其左右手之動作時間差非在零點五秒  |
|              | 以內,滑塊等無法動作之構造。   |
|              | 五、具有雙手未離開一行程操作部時,備有無法再起動操作之構造。   |
|              | 六、其一按鈕之外側與其他按鈕之外側,至少距離三百毫米以上。但按鈕設有護  |
|              | 蓋、擋板或障礙物等,具有防止以單手及人體其他部位操作之同等安全性能  |
|              | 者,其距離得酌減之。   |
|              | 七、按鈕採用按鈕盒安裝者,該按鈕不得凸出按鈕盒表面。   |
|              | 八、按鈕內建於衝剪機械本體者,該按鈕不得凸出衝剪機械表面。  |
| Article 10   | The two-hand control safety device shall meet the following provisions:                  |
|              | 1. It has a safe- single- stroke safety device, except the press or shear machine with   |
|              | single- stroke- single- stop mechanism and a two-hand start safety device.               |
|              | 2. It has a safe- single-stroke safety device to make the slider stopped when released   |
|              | hands having a risk to reach the hazard zone.  |
|              | 3. It has a two-hand start safety device to make the slider to reach the lower dead      |
|              | center before released hands intervening to the hazard zone.                             |
|              | 4. It has a construction that the operating portion for activating the slider cannot be  |
|              | activated except the different of operating time between two hands is less than 0.5      |
|              | second.  |
|              | 5. It has a construction that the press or shear machine cannot be restarted if two      |
|              | hands do not release from the single stroke operating portion.                           |
|              | 2  |

|              | 6. The distance between one button outside and the other button outside is at least 300   |
|--------------|---|
|              | millimeters. It can be reduced for the buttons with covers, baffles, barriers or others   |
|              | having the same safety function to prevent them being operated by a hand or other         |
|              | part of the body.   |
|              | 7. If the buttons are set in boxes, they cannot protrude the button-box surface.          |
|              | 8. If the buttons are built into the body of the press or shear machine, they cannot      |
|              | protrude the surface of the machine.  |
| 第 11 條       | 感應式安全裝置,應為光電式安全裝置、具起動控制功能之光電式安全裝置、雷   |
|              | 射感應式安全裝置或其他具有同等感應性能以上之安全裝置。   |
| Article 11   | The sensing safety device shall be a photoelectric safety device, a photoelectric safety  |
|              | device with start control function, a laser-sensing safety device or others with equal or |
|              | over performance.   |
| 第 11-1 條     | 光電式安全裝置之構造及性能,應符合國際標準 IEC 61496 系列或與其同等之  |
|              | 標準相關規定。   |
| Article 11-1 | The constructure and performances of the photoelectric safety device shall comply         |
|              | with the international standard IEC 61496 series or other equivalents.                    |
| 第 12 條       | 光電式安全裝置應符合下列規定:   |
|              | 一、衝剪機械之光電式安全裝置,應具有身體之一部將光線遮斷時能檢出,並使   |
|              | 滑塊等停止動作之構造。   |
|              | 二、衝壓機械之光電式安全裝置,其投光器及受光器須有在滑塊等動作中防止危   |
|              | 險之必要長度範圍有效作動,且須能跨越在滑塊等調節量及行程長度之合計   |
|              | 長度(以下簡稱防護高度)。   |
|              | 三、投光器及受光器之光軸數須具二個以上,且將遮光棒放在前款之防護高度範   |
|              | 圍內之任意位置時,檢出機構能感應遮光棒之最小直徑(以下簡稱連續遮光   |
|              | 幅)在五十毫米以下。但具啟動控制功能之光電式安全裝置,其連續遮光幅   |
|              | 為三十毫米以下。  |
|              | <br>  四、剪斷機械之光電式安全裝置,其投光器及受光器之光軸,從剪斷機械之桌面   |
|              | <br>  起算之高度,應為該光軸所含鉛直面和危險界限之水平距離之零點六七倍以   |
|              | <br>  下。但其值超過一百八十毫米時,視為一百八十毫米。  |
|              | <br>  五、前款之投光器及受光器,其光軸所含鉛直面與危險界限之水平距離超過二百   |
|              | 七十毫米時,該光軸及刀具間須設有一個以上之光軸。  |
|              |   |
|              | 之受光器或反射器,且受光器不受其對應之投光器或反射器以外之其他光線   |
|              | 感應。但具有感應其他光線時亦不影響滑塊等之停止動作之構造者,不在此   |
|              | 限。  |
| Article 12   | The photoelectric safety device shall comply with the following provisions:               |
|              | The photoelectric safety device for the press or shear machine can make the slider        |
|              | stopped when detecting the light cut off by a body part.                                  |
|              | stopped when detecting the right out on by a body part.                                   |

2. The photoelectric safety device for the press machine can effectively act to prevent hazard from the slider in required distance including adjustment length and stroke(hereinafter referred to as the protective height). 3. The optical-axis of the emitter and receiver shall be over two and can detect the minimum diameter of a shading rod (hereinafter referred to as the continuous shading width) being below 50 millimeters when it is placed anywhere in the protective height referred in the preceding subparagraph. The continuous shading width shall be less than 30 millimeters for that has a function of start control. 4. The optical-axis height from the desktop of the shear machine shall be less than 0.67 times of the horizontal distance between the vertical plane including the optical- axis and the hazard zone. The height could be concerned as 180 millimeters when over 180 millimeters. 5. The emitter and receiver referred in the preceding subparagraph shall have at least one another optical-axis between the former optical-axis and the cutter when the horizontal distance from the vertical plane including the former optical-axis to the hazard zone is over 270 millimeters. 6. The photoelectric safety device for the press or shear machine has a construction that the light from the emitter can only reach its corresponding receiver or reflector, and cannot be sensed by other sensors. It is unrestricted for that not affecting the slider motion even being other light sensed. 第 12-1 條 具有光電式安全裝置之衝剪機械,其檢出機構之光軸與台盤前端之距離,有足使 身體之一部侵入之虞者,應設置防止侵入之安全圍柵或中間光軸等設施。 Article 12-1 If the distance between the optical-axis of a detecting mechanism and the front edge of a bolster is enough to be intervened by a body part, the press or shear machine with a photoelectric safety device shall have a safety fence or a middle optical-axis to prevent intervening. 第 12-2 條 置有材料送給裝置之衝壓機械,安裝之光電式安全裝置,其投光器及受光器符合 下列各款規定者,得具使該送料裝置之檢知機能無效化之構造,不受第十二條第 二款規定之限制: 一、檢知機能無效化之切換,須使用鑰匙或軟體等其他方式,且設定於每一光軸。 二、送料裝置變更時,具有非再操作前款檢知機能無效化之設定,滑塊等無法動 作之構造。 三、使檢知機能無效化之送料裝置拆除時,具有立即恢復投光器及受光器在防止 滑塊等作動致生危險所必要長度範圍內有效作動之構造。 Article 12-2 The photoelectric safety device for the press machine with a material feeder can make that feeder detecting invalidated without restricting by Article 12, subparagraph 2 if the emitter and receiver of that safety device complies with the provisions in subparagraph as follows:

- 1. The switching to make that detecting invalidated, shall be used by a key, software or others for each optical-axis.
- 2. When changing a material feeder device, the slider cannot be activated except the detecting invalidated in the preceding subparagraph is reset.
- 3. When the material feeder is taken away, it has a construction immediately to restore the effective action that the emitter and receiver within the required length can prevent the hazard of the slider motion.

## 第 12-3 條

具起動控制功能之光電式安全裝置,應具有身體之一部將光線遮斷時能檢出,並 使滑塊等停止動作之構造。

衝剪機械使用具起動控制功能之光電式安全裝置者,應符合下列規定:

- 一、台盤之水平面須距離地面七百五十毫米以上。但台盤面至投光器及受光器下端間設有安全圍柵者,不在此限。
- 二、台盤深度須在一千毫米以下。
- 三、衝程在六百毫米以下。但衝剪機械已設安全圍柵等,且投光器及受光器之防 護高度在六百毫米下以者,不在此限。
- 四、曲軸衝床之過定點停止監視裝置之停止點設定,須在十五度以內。

具起動控制功能之光電式安全裝置,其投光器及受光器,應具不易拆卸或變更安 裝位置之構造。

使用具起動控制功能之光電式安全裝置,應能防止滑塊等意外動作,且應符合下列規定:

- 一、具起動控制功能之光電式安全裝置之構造,須使用鑰匙選擇其危險防止之機 能。
- 二、使滑塊等作動前,須具起動準備必要操作之構造。
- 三、在三十秒内未完成滑塊等作動者,須具重新執行前款所定起動之準備作業之 構造。

具起動控制功能之光電式安全裝置準用第八條及第十二條之規定。但第八條所定 光電式安全裝置安全距離之追加距離之值,縮減如下表:

| 連續遮光幅:毫米    | 追加距離 C: 毫米 |
|-------------|------------|
| 14 以下       | 0          |
| 超過 14,20 以下 | 80         |
| 超過 20,30 以下 | 130        |

#### Article 12-3

The photoelectric safety device with a start control function shall have a construction to make the slider stopped when it detect a body part cutting the light. The press or shear machine using a photoelectric safety device with start control function, shall meet the following provisions:

1. The distance of the bolster surface from the ground is above 750 millimeters but it

is unrestricted for having a safety fence between the bolster surface and the lower end of the emitter and receiver.

- 2. The depth of the bolster is less than 1,000 millimeters.
- 3. Stroke is less than 600 millimeters but it is unrestricted for the press or shear machine having a safety fence and the protective height of the emitter and receiver being less than 600 millimeters.
- 4. The stop- point-setting of the over- fix-point monitor for a crankshaft press machine is within 15 degrees.

The emitter and receiver of the photoelectric safety device with a start control function shall have the construction not easily to be disassembled or to be changed its mounting place. When using the photoelectric safety device with the start control function, it shall be able to prevent the slider moving unexpectedly and meet the following provisions:

- 1. The photoelectric safety device with the start control function shall use a key to select the hazard-preventive function.
- 2. It shall have the construction to finish the necessary start preparing operation before making the slider moved.
- 3. It shall have the construction to finish the necessary start preparing operation related in the preceding subparagraph if the slider do not move within 30 seconds. The photoelectric safety device with the start control function corresponds with the application of Article 8 and Article 12 provisions. However, the additional safety distance for that device set in Article 8 is reduced as following table:

| Continuous shading width:  | Additional distance C: |
|----------------------------|------------------------|
| millimeters                | millimeters            |
| less than 14               | 0                      |
| more than 14 and less than | 80                     |
| 20                         |                        |
| more than 20 and less than | 130                    |
| 30                         |                        |

#### 第 12-4 條

摺床用雷射 咸應式安全裝置,應具有下列性能:

- 一、具有檢出機構,且於身體有被夾之虞者,遇身體之一部將光線遮斷時能檢出, 並使滑塊等停止作動之構造。
- 二、滑塊等在閉合動作中,檢知身體之一部或加工物遮斷光線,或滑塊等到達設 定位置仍須使滑塊等繼續動作者,具有能將滑塊等之移動速度降為每秒十毫 米以下(以下簡稱低閉合速度)之構造。

雷射感應式安全裝置,適用於符合下列規定之摺床:

|              | 一、滑塊等在閉合動作時,具有可將滑塊等之速度調至低閉合速度之構造。  |
|--------------|--|
|              | 二、使滑塊等在低閉合速度動作時,具有非在操作部操控,無法作動滑塊等之構  |
|              | 一·区内观寻在区内口还反到下时,具有不在抹下即未注,無么下到内观寻之情<br>造。  |
|              | 摺床用雷射感應式安全裝置之檢出機構,應具有下列性能:   |
|              | 一、投光器及受光器須設置在能檢知身體之一部可能受滑塊等夾壓之位置;摺床  |
|              | 採滑塊等下降動作者,其檢出機構具有與滑塊等動作連動之構造。  |
|              | 二、滑塊等在閉合動作中,且在低閉合速度時,具有得使檢知機能無效化之構造。   |
| Article 12-4 | A laser-sensitive safety device for a press brake shall have the following                   |
|              | performances:  |
|              | 1. A construction can make the slider stopped when it detects a body part shading the        |
|              | light and the slider has a risk to catch the body.   |
|              | 2. A construction can make the slider speed reduced to be less than 10 millimeters           |
|              | (hereinafter referred to as the low closing speed) when it detects a body part or a          |
|              | workpiece shading the light or the slider is asked to keep moving in closing action          |
|              | even the slider having reached a set position.   |
|              | A laser-sensing safety device can be applied to a press brake complying with the             |
|              | following provisions:  |
|              | 1. A construction can adjust the slider to the low closing speed when it is in closing       |
|              | move.  |
|              | 2. A construction can make the slider not activated in the low closing speed except it       |
|              | is operated at the operating portion.  |
|              | The detecting construction of the laser-sensitive safety device for a press brake shall      |
|              | have the following performances:   |
|              | 1. The emitter and receiver is provided at the location where a body part may be             |
|              | caught by the slider. If the slider of the press brake is a dropping type, the               |
|              | construction of the detector has the motion in conjunction with the slider motion.           |
|              | 2. A construction can make detecting function invalidated while the slider is in             |
|              | closing motion and the low closing speed.  |
| 第 13 條       | 拉開式安全裝置應符合下列規定:  |
|              | 一、設有牽引帶者,其牽引量須能調節,且牽引量為盤床深度二分之一以上。   |
|              | 二、牽引帶之材料為合成纖維;其直徑為四毫米以上;已安裝調節配件者,其切  |
|              | 斷荷重為一百五十公斤以上。  |
|              | 三、肘節傳送帶之材料為皮革或其他同等材質之材料;且其牽引帶之連接部能耐  |
|              | 五十公斤以上之靜荷重。  |
| Article 13   | The pull-back safety device shall meet the following provisions:                             |
|              | 1. If it is set by traction cables, the cables are able to adjust the amount of traction and |
|              | that is more than a half of the bolster depth.   |
|              | 2. The cable material is a synthetic fiber with the diameter more than 4 millimeters. In     |

|              | adjustable metal parts fitted state, the breaking load of it is over 150 kgf (1.5 kN). |
|--------------|--|
|              | 3. The toggle- transfer belt is made of leather or other equivalent material and the   |
|              | cable connection portion can withstand more than 50kgf (0.49kN) static load.           |
| 第 14 條       | 掃除式安全裝置應符合下列規定:  |
| 33 11 101    | 一、具有掃臂長度及振幅能調節之構造。   |
|              | 二、掃臂設置當滑塊等動作中能確保手部安全之防護板。  |
|              |  |
|              | 三、前款防護板之尺寸如下:  |
|              | (一)寬度:在金屬模寬度二分之一以上。但金屬模寬度在二百毫米以下者,其  |
|              | 防護板寬度為一百毫米。  |
|              | (二)高度:在行程長度以上。但行程長度超過三百毫米者,其防護板高度為三  |
|              | 百毫米。   |
|              | (三)掃臂振幅:在金屬模寬度以上。  |
|              | 四、掃臂及防護板具有與手部或人體其他部位接觸時能緩和衝擊之性能。   |
| Article 14   | The push-out safety device shall meet the following provisions:                        |
|              | 1. It has a construction that the length and the amplitude of a push-out arm are       |
|              | adjustable.  |
|              | 2. The push-out arm sets a hand- guard plate to ensure the hand safety when the slider |
|              | moving.  |
|              | 3. Sizes of the hand- guard plate in the preceding subparagraph are as follows:        |
|              | (1) the width: more than one half width of a die but it being concerned as 100         |
|              | millimeters for that less than 200 millimeters.  |
|              | (2) the height: more than the stroke but it being concerned as 300 millimeters for the |
|              | stroke more than 300 millimeters.  |
|              | (3) the amplitude of the push-out arm: more than the die width.                        |
|              | 4. The push-out arm and the hand- guard plate have the performance mitigating the      |
|              | impact when they contact with hands or a body part.                                    |
| 第 14-1 條     | 衝壓機械非符合下列所定規格者,不得設置掃除式安全裝置:  |
|              | 一、構造屬使用確動式離合器者,且操作滑塊等起動之操作部,須用雙手為之。  |
|              | 二、行程長度須在四十毫米以上,且在防護板寬度以下。  |
|              | 三、每分鐘行程數須在一百二十以下。  |
|              | 衝壓機械採腳踏式快速停止機構者,不得使用掃除式安全裝置。但併用第六條第  |
|              | 一款至第三款所定安全裝置之一者,不在此限。  |
| Article 14-1 | The press machine cannot provide the push-out safety device except that complies       |
|              | with the following provisions:   |
|              | 1. The construction is a positive clutch type and the operating portion to start the   |
|              | slider shall be controlled by two hands.   |
|              | 2. The stroke must be more than 40 millimeters and less than the protect-plate width.  |
|              | 3. Strokes per minute must be less than 120. The press machine with the protective     |
|              | 1  |

|            | stop mechanism operated by a foot type cannot use a push-out safety device except        |
|------------|--|
|            | it use one of safety devices set in Article 6 subparagraph 1 through 3.                  |
| 第 15 條     | 衝剪機械之安全裝置,其機械零件、電氣零件、鋼索、切換開關及其他零配件,  |
| 71 12 IM   | 應符合下列規定:   |
|            | 一、本體、連接環、構材、控制桿及其他主要機械零件,具有充分之強度。  |
|            | 二、承受作用力之金屬零配件:   |
|            | (一)材料符合國家標準 CNS 3828「機械構造用碳鋼鋼料」規定之 S45C 規格   |
|            | 之鋼材或具有同等以上之機械性能。   |
|            | (二)金屬零配件承受作用力之部分,其表面實施淬火或回火,且其硬度值為   |
|            | 洛氏 C 硬度值四十五以上五十以下。   |
|            | 三、鋼索:  |
|            | (一)符合國家標準 CNS 10000「機械控制用鋼纜」規定之規格或具有同等以  |
|            | 上之機械性能。  |
|            | (二)滑塊、控制桿及其他類似機件使用之鋼索,須以線夾、夾鉗等緊結具確   |
|            | 實安裝。   |
|            | 四、安全裝置使用之螺栓、螺帽等,有因鬆弛致該安全裝置發生誤動作或零配件  |
|            | 脫落之虞者,具有防止鬆脫之性能;對絞鏈部所用之銷等,具有防止脫落之  |
|            | 性能。  |
|            | 五、繼電器、極限開關及其他主要電氣零件,具有充分之強度及耐久性,以確保  |
|            | 安全裝置之機能。   |
|            | 六、具有電氣回路者,設置能顯示該安全裝置之動作、繼電器開閉不良及其他電  |
|            | 氣回路故障之指示燈。   |
|            | 七、繼電器、電晶體、電容器、電阻等電氣零件安裝部分,具有防振性能。  |
|            | 八、電氣回路於該安全裝置之繼電器、極限開關等電氣零件故障,或停電時,具  |
|            | 有使滑塊等不致發生意外動作之性能。  |
|            | 九、操作用電氣回路之電壓,在一百六十伏特以下。  |
|            | 十、外部電線符合國家標準 CNS 6556「600V 聚氯乙烯絕緣及被覆輕便電纜」規   |
|            | 格或具有同等以上之絕緣效力、耐油性、強度及耐久性。  |
|            | 十一、切換開關:   |
|            | (一)以按鍵切換者,具有使該按鍵分別選取切換位置之裝置。   |
|            | (二) 具有確實保持各自切換位置之裝置。   |
|            | (三)於各自切換位置,具有安全裝置狀態之明顯標示。  |
| Article 15 | Mechanical parts, electrical parts, wires, switches or other parts for the safety device |
|            | of the press or shear machine shall meet the following provisions:                       |
|            | 1. The body, the linkage material, the lever and other major mechanical parts have       |
|            | sufficient strength.   |
|            | 2. Linking parts:  |
|            | (1) Their materials comply with the national standard CNS 3828                           |

- "mechanical-structure-usage carbon-steel material" S45C or others having equivalent or more mechanical properties.
- (2) The surface of linking parts is treated by quenching and tempering, and their hardness must be above 45 to 50 in Rockwell C scale.
- 3. Wire cables:
- (1) They comply with the national standard CNS 10000 "machinery-control-usage cable" or others having equivalent or more mechanical properties.
- (2) They are tightly fixed on the slider, levers and others with clips, clamps and so forth.
- 4. Preventing loosing shall be applied to bolts, nuts and others on the safety device that may lead the device being malfunction or fitting parts falling off. Preventing falling off shall be applied to pins on the hinge portion too.
- Relays, limit switches or other major electrical parts shall have sufficient strength and durability to ensure safety device performances.
- The safety device with electrical circuits shall have indicators to display its actuated states, relay malfunction or failure of other circuits.
- 7. Mounting portions for relays, transistors, capacitors, resistors or other electrical parts have vibration-proof performance.
- 8. Circuits in safety device have the performance to prevent the slider accidental action when relays, limit switches or others are failure or power-failure.
- 9. Operating voltage for the electrical circuit shall be less than 160 volts.
- 10. External wires shall meet the national standard CNS 6556 "600V PVC insulated and coated light weight cables" or have equivalent or more insulation, oil-resistance, strength and durability.
- 11. Switches:
- (1) For a button-switching type of the safety device, it shall have a construction to let buttons selecting switching positions respectively.
- (2) It can exactly keep holding at each switching position.
- (3) It is clearly to mark the state of the safety device related to each switch position.

# 第 三 節 機構及裝置

#### Section III Mechanisms and Devices

| 第 16 條 | 衝剪機械具有下列切換開關之一者,在任何切換狀態,均應有符合第四條所定之  |
|--------|--------------------------------------|
|        | 安全機能:                                |
|        | 一、具有連續行程、一行程、安全一行程或寸動行程等之行程切換開關。     |
|        | 二、雙手操作更換為單手操作,或將雙手操作更換為腳踏式操作之操作切換開關。 |
|        | 三、將複數操作台更換為單數操作台之操作台數切換開關。           |
|        | 四、安全裝置之動作置於「開」、「關」用之安全裝置切換開關。        |

Article 16

The press or shear machine having one of the following switches shall have the safety

|              | function to comply with that in Antiple 4 in any switching state                       |
|--------------|--|
|              | function to comply with that in Article 4 in any switching state.                      |
|              | 1. The switch for the switching of a continuous- stroke, a single- stroke, a safe-     |
|              | single- stroke , an inching-stroke and so forth.                                       |
|              | 2. The switch for one- hand control instead of two-hand control, or pedal control in   |
|              | stead of two-hand control.   |
|              | 3. The switch for one- console control instead of multi- control consoles.             |
|              | 4. The switch of the safety device for setting the operation of that switching in "On" |
|              | or "Off" .   |
| 第 17 條       | 衝壓機械之行程切換開關及操作切換開關,應符合下列規定:  |
|              | 一、須以鑰匙進行切換者,鑰匙在任何切換位置均可拔出。但有下列情形之一者,   |
|              | 不在此限:  |
|              | (一)衝壓機械在任何切換狀態,具有第六條第一項第一款至第三款所定安全機  |
|              | 能之一。   |
|              | (二)切換開關之操作,採密碼設定。  |
|              | (三)切換開關具有其他同等安全管制之功能。  |
|              | 二、能確實保持在各自切換位置。  |
|              | 三、明顯標示所有行程種類及操作方法。   |
| Article 17   | The stroke changing switch and operation changing switch for the press machine shall   |
|              | comply with the following provisions:  |
|              | 1. For those being a key-switching type, their keys can be taken away in any           |
|              | switching position. It is without restrict for anyone of following states:             |
|              | (1) The press machine in any switching state has one of safety functions in Article 6  |
|              | subparagraph 1 through 3.  |
|              | (2) Switchings are operated by a password.   |
|              | (3) The switches have other equivalent safety control functions.                       |
|              | 2. Swithes can exactly be held in the respective switching position.                   |
|              | 3. Switchings shall clearly mark all stroke modes and operation means.                 |
| 第 18 條       | 衝壓機械應具有一行程一停止機構。   |
| Article 18   | The press machine shall have an one- stroke- one- stop mechanism.                      |
| 第 18-1 條     | 伺服衝壓機械使用伺服系統為滑塊等之減速或停止者,其伺服系統之機能故障   |
|              | 時,應具有可停止滑塊等作動之制動裝置之構造。   |
|              | 伺服衝壓機械遇前項之制動發生異常時,滑塊等應停止動作,且具有操控再起動  |
|              | 操作亦無法使滑塊等起動之構造。  |
|              | 伺服衝壓機械使用皮帶或鏈條驅動滑塊等作動者,具有可防止皮帶或鏈條破損引  |
|              | 發危險之構造。  |
| Article 18-1 | A servo press machine with a servo system to make the slider reduced or stopped        |
|              | shall have a braking construction to stop the slider when the servo system fails.      |
|              | When the braking in the preceding paragraph occurs abnormal, the slider shall be       |
|              | ı  |

|            | stanged and connect he started even the restarted energial                              |
|------------|---|
|            | stopped and cannot be started even the restarted operated.                              |
|            | The servo press using a belt or a chain to drive the slider shall have the construction |
| ht 10 litr | to prevent hazard from the belt or the chain broken.                                    |
| 第 19 條     | 衝壓機械應具有快速停止機構。但有下列情形之一者,不在此限:   |
|            | 一、使用確動式離合器。   |
|            | 二、具有不致使身體介入危險界限之構造。   |
|            | 三、具有滑塊等在動作中,能使身體之一部不致介入危險界限之虞之構造。   |
|            | 衝壓機械應具有在快速停止機構作動後,未再起動操作時,無法使滑塊等動作之   |
|            | 構造。   |
| Article 19 | The press machine shall have the protective stop mechanism except one of the            |
|            | following states:   |
|            | 1. Using a positive clutch.   |
|            | 2. Having a construction to prevent a body part entering the hazard zone.               |
|            | 3. Having a construction to prevent a body part entering the hazard zone during the     |
|            | slider in moving.   |
|            | The press machine shall have a construction that the slider cannot move without         |
|            | re-start operating after the protective stop mechanism activated.                       |
| 第 20 條     | 具有快速停止機構之衝壓機械,應備有緊急情況發生時,能由人為操作而使滑塊   |
|            | 等立即停止動作之緊急停止裝置。   |
|            | 衝壓機械應具有在緊急停止裝置作動後,未使滑塊等返回最初起動狀態之位置  |
|            | 時,無法使滑塊等動作之構造。  |
| Article 20 | The press machine with the protective stop mechanism shall have a device that the       |
|            | protective stop mechanism can be manually operated to make the slider stopped when      |
|            | an emergency occurs.  |
|            | The press machine shall have a construction that the slider cannot move if it do not    |
|            | return to the original-start position after the emergency stop device activated.        |
| 第 21 條     | 衝壓機械緊急停止裝置之操作部,應符合下列規定:   |
|            | 一、紅色之凸出型按鈕或其他簡易操作、可明顯辨識及迅速有效之人為操作裝置。  |
|            | 二、設置於各操作區。  |
|            | 三、有側壁之直壁式衝壓機械及其他類似機型,其台身兩側之最大距離超過一千   |
|            | 八百毫米者,分別設置於該側壁之正面及背面處。  |
| Article 21 | The operating portion for the emergency stop device of the press machine shall meet     |
|            | the following provisions:   |
|            | 1. They have red- protruding- type buttons or others with significant identification to |
|            | be quickly, efficiently and manually operated.  |
|            | 2. They are provided in each operating zone.  |
|            | 3. For the press machine with straight sides or other similar models, whose maximum     |
|            | distance between both straight sides is over 1800 millimeters, the emergency stop       |

|            | devices shall be set respectively in the front side and the rear side.                     |
|------------|--|
| 第 22 條     | 具有快速停止機構之衝壓機械,應備有寸動機構。   |
|            | 前項寸動機構,應具有下列可限制滑塊動作構造之一:   |
|            | 一、限制滑塊移動速度,在每秒十毫米以下者。  |
|            | 二、限制每段滑塊移動行程,不得超過六毫米,且未離開操作部,無法再起動操  |
|            | <u>作者。</u>   |
|            | 第一項之衝壓機械,具有防止身體介入危險界限之安全裝置者,其寸動機構不受  |
|            | 前項之限制。   |
| Article 22 | The press machine with the protective stop mechanism shall have an inching                 |
|            | mechanism.   |
|            | The above- mentioned inching mechanism shall have at least one of the following            |
|            | devices for controlling the slide movement:  |
|            | 1. slow closing speed (equal or less than 10 mm/s) of the slides;                          |
|            | 2. The slide movement shall not exceed 6 mm per inching step, while the press or           |
|            | shear machine cannot be restarted if the operator has not released their two hands         |
|            | from the operating portion.  |
|            | If the press referred to in the first paragraph is equipped with safety devices to prevent |
|            | a body part entering the hazard zone, their inching mechanism is not restricted by the     |
|            | requirements of the first paragraph in this Article.                                       |
| 第 23 條     | 衝壓機械,應具有防止滑塊等意外下降之安全擋塊或固定滑塊之裝置,且備有在  |
|            | 使用安全擋塊或固定裝置時,滑塊等無法動作之連鎖機構。但下列衝壓機械使用  |
|            | 安全擋塊或固定裝置有因難者,得使用安全插栓、安全鎖或其他具有同等安全功  |
|            | 能之裝置:  |
|            | 一、摺床。  |
|            | 二、摺床以外之機械衝床,其台盤各邊長度未滿一千五百毫米或模高未滿七百毫  |
|            | 米。   |
|            | 前項但書規定之安全插栓及安全鎖,應符合下列規定:   |
|            | 一、安全插栓 <u>:</u> 配置於衝壓機械之每一操作區。   |
|            | 二、安全鎖: 具有能遮斷衝壓機械主電動機電源之性能。   |
|            | 第一項安全擋塊或滑塊固定裝置,應具有支持滑塊及上模重量之強度。  |
| Article 23 | The press machine shall have a safety stopper or a fix- slider device to prevent the       |
|            | slider accidently falling, while featuring an interlocked construction that cannot         |
|            | activate the slider when the stopper or the fix- slider device is used. As the following   |
|            | press machines find it difficult to use that, they can use a safety plug, a safety lock or |
|            | other devices with an equivalent function.   |
|            | 1. A press brake.  |
|            | 2. Except the press brake, the machine press with each bolter-side-length below 1500       |
|            | millimeters or the die-height below 700 millimeters.                                       |

|            | The provide for the sofety plug or the sofety leak in the preceding personal shall        |
|------------|---|
|            | The proviso for the safety plug or the safety lock in the preceding paragraph shall       |
|            | meet the following provisions:  |
|            | 1. The safety plug is provided in each operating zone of the press machine.               |
|            | 2. The safety lock can block the main motor power of the press machine.                   |
|            | The safety stopper or the fix-slider device in the paragraph 1 shall have the strength to |
|            | support the total weight of the slider and the upper half die.                            |
| 第 24 條     | <u>衝剪機械之操作部</u> ,應 <u>具有下列之構造:</u>  |
|            | 一、防止誤觸致滑塊等 <u>非預期起動者。</u>   |
|            | <u>二、未進行操作,無法使滑塊等</u> 動作 <u>者。</u>  |
|            | 前項衝剪機械具模式切換及連續行程者,應具有防止因模式切換操作錯誤致滑塊   |
|            | 等動作之機制或構造。  |
| Article 24 | The operating portion of the press or shear machine shall have one of the following       |
|            | constructions:  |
|            | 1. to prevent the slider unexpectedly starting up due to inadvertent touching.            |
|            | 2. the slider cannot move without re-starting the operation.                              |
|            | The above-mentioned machinery with mode switching and continuous-stroke shall             |
|            | have a mechanism and construction to prevent the movement of the slider in the case       |
|            | of mistaken operation of the mode switching.  |
| 第 25 條     | 衝壓機械之電氣系統,應符合下列規定:  |
|            | 一、設置能顯示運轉狀態之指示燈或其他具有同等指示功能之裝置。  |
|            | 二、繼電器、電晶體、電容器、電阻等電氣零件之安裝部分,或控制盤、操作盤   |
|            | 與衝壓機械本體之安裝部分,具有防振性能。  |
|            | 三、主電動機之驅動用電氣回路,具有停電後恢復供電時,未重新起動操作,主   |
|            | 電動機無法驅動之回路。但具有不致使身體介入危險界限之構造者,不在此   |
|            | 限。  |
|            | 四、控制用電氣回路及操作用電氣回路,具有繼電器、極限開關等電氣零件故障、  |
|            | 電壓下降或停電時,不致發生滑塊等意外動作之性能。但具有不致使身體介   |
|            | 入危險界限之構造者,不在此限。   |
|            | 五、操作用電氣回路之電壓,在一百六十伏特以下。   |
|            | 六、外部電線具有符合國家標準 CNS 6556「600V 聚氯乙烯絕緣及被覆輕便電纜」   |
|            | 規定之規格或具有同等以上之絕緣效力、耐油性、強度及耐久性。   |
|            | 七、控制用電氣回路及操作用電氣回路之繼電器、極限開關及其他主要電氣零  |
|            | 件,具有充分之強度及耐久性。  |
| Article 25 | The electrical systems of the press machine shall meet the following provisions:          |
|            | 1. Indicators or other equivalent functional devices are provided to show operating       |
|            | status.   |
|            | 2. Mounting zones for relays, transistors, capacitors, resistors, other electrical parts, |
|            | control panel, the operation panel or the main body of the press machine have             |
| L          |   |

|                  | vibration prevention capacity.   |
|------------------|--|
|                  | 3. The electrical circuit for the main motor driving has the function that the main      |
|                  | motor cannot be restarted after the end of a power outage unless restart is              |
|                  | activated. The above-mentioned requirements may not apply if the machinery is            |
|                  | constructed to prevent a body part entering a hazard zone.                               |
|                  | 4. The electrical circuit for control or operation has the function to prevent           |
|                  | unexpected action by the slider in the case of failures by relays, limit switches or     |
|                  | other electrical parts, voltage drops or power outage. The above-mentioned               |
|                  | requirements may not apply if the machinery is constructed to prevent a body             |
|                  | part entering a hazard zone.   |
|                  | 5. The operating voltage for the electrical circuit is less than 160 volts.              |
|                  | 6. External wires shall meet the national standard CNS 6556 "600V PVC insulated          |
|                  | and coated light weight cables" or others having equivalent or more insulation,          |
|                  | oil-resistance, strength and durability.   |
|                  | 7. Relays, limit switches or other major electrical parts in electrical circuits for     |
|                  | controlling or operating shall have sufficient strength and durability.                  |
| 第 26 條           | 衝壓機械之機械系統使用之彈簧、螺栓、螺帽、襯套及插銷等,應符合下列規定:   |
|                  | 一、彈簧有因破損、脱落而導致滑塊等意外動作之虞者,採用壓縮型彈簧,並採  |
|                  | 用桿、管等引導之。  |
|                  | 二、螺栓、螺帽、襯套或其他零件有因鬆動而導致滑塊等意外動作或零件脱落之  |
|                  | 虞者,具有防止鬆脫之性能。  |
|                  | 三、插銷有因脫落而導致滑塊等意外動作或零件脱落之虞者,具有防止脫落之性  |
|                  | 能。   |
| Article 26       | Springs, bolts, nuts, bushings, pins or others for the press machine shall meet the      |
|                  | following provisions:  |
|                  | 1. Springs are compression type and guided by rods, pipes or others if the slider have   |
|                  | an accident motion risk because of springs broking or dropping out.                      |
|                  | 2. Preventing loosing shall be applied to bolts, nuts, bushings and others that may lead |
|                  | the slider to unexpectedly move or fitting parts to fall off.                            |
|                  | 3. Preventing loosing shall be applied to pins that may lead the slider to unexpectedly  |
|                  | move or fitting parts to fall off.   |
| 第四節機械系           | ·<br>統   |
| Section IV Mecha | nical systems  |
| 第 27 條           | 機械衝床之離合器,應具有在嚙合狀態而滑塊等停止時,其主電動機無法驅動之  |
|                  | 構造。但機械衝床具有不致使身體介入危險界限之構造者,不在此限。  |
| Article 27       | A clutch of the mechanical press shall have a construction that a main motor cannot      |
|                  | be driven when the clutch is in engagement state and the slider stopped but it is        |
|                  | unrestricted for having a construction to prevent a body part intervening a hazard       |
|                  |  |

|                | zone  |
|----------------|---|
| 第 28 條         | zone.  置有滑動銷或滾動鍵之離合器之機械衝床,其行程數不得超過附表一所定之數   |
| 另 2 <b>8</b> 除 | 直有有助射以限期雄之離日裔之機機関床,共11任数个特趋炮的农一用足之数<br>值。   |
| A4:-1- 20      |   |
| Article 28     | The stroke numbers of a mechanical press with a sliding-pin clutch (hereinafter         |
|                | referred to as the pin clutch mechanical press) or a rolling-key clutch (hereinafter    |
|                | referred to as the key clutch mechanical press) cannot be over that in Attachment table |
| tota an liter  |   |
| 第 29 條         | 置有滑動銷或滾動鍵之離合器之機械衝床,其離合器之材料,應符合附表二所定   |
|                | 國家標準之規格或具有同等以上之機械性質。  |
| Article 29     | Materials used in the clutches related to that mechanical press in preceding Article 28 |
|                | shall have mechanical properties to comply with the national standard in Attachment     |
|                | table 2 or others having equivalent or more.  |
| 第 30 條         | 置有滑動銷或滾動鍵之離合器之機械衝床,其離合器之熱處理方法及表面硬度  |
|                | 值,依機械衝床種類及離合器構成部分,應符合附表三之規定。  |
| Article 30     | The heat treatment and surface hardness of those clutches related in Article 28 shall   |
|                | base on the type of the mechanical press and the construction of those to comply with   |
|                | provisions in Attachment table 3.   |
| 第 31 條         | 機械衝床之離合器藉由氣壓作動者,應具有彈簧脫離式構造或具同等以上安全功   |
|                | 能之構造。   |
| Article 31     | For those clutches in Article 28 which is pneumatic activating, shall have a            |
|                | spring-release construction or others having equivalent or more safety functions.       |
| 第 32 條         | 置有滑動銷之離合器之機械衝床,其離合器應具有在離合器作動用凸輪未超過壓   |
|                | 回離合器滑動銷範圍前,能停止曲軸旋轉之擋塊。  |
|                | 前項離合器使用之托架,應具有固定位置用之定位銷。  |
|                | 離合器之作動用凸輪,應具有不作動即無法壓回之構造。   |
|                | 離合器之作動用凸輪之安裝部,應具有足以承受該凸輪所生衝擊之強度。  |
| Article 32     | The clutch of the pin clutch mechanical press shall have a stopper to stop the          |
|                | crankshaft revolution before a clutch driving cam do not exceed the scope of the        |
|                | clutch slide- pin yet to return back.   |
|                | The clutch bracket used by the clutch in the preceding paragraph shall have a           |
|                | positioning pin to fix its position.  |
|                | The clutch-driving cam shall have a construction that it cannot be pressed back if not  |
|                | being acted.  |
|                | The mounting portion for the clutch-driving cam shall have enough strength to           |
|                | support the impact on the cam.  |
| 第 33 條         | 機械式摺床之離合器,應使用摩擦式離合器。  |
| Article 33     | The clutch of a mechanical press brake shall use a friction-type clutch.                |
| 第 34 條         | 置有曲軸等偏心機構之機械衝床(以下稱曲軸衝床),其制動裝置應具有制動面   |

|            | 不受油脂類侵入之構造。但採濕式制動者,不在此限。  |
|------------|---|
| Article 34 | The brake device of the mechanical press with an eccentric mechanism such as a              |
|            | crankshaft (hereinafter referred to as the crankshaft press) shall have a construction      |
|            | that its braking surface cannot be invaded by fat, oil or others but it is unrestricted for |
|            | the wet-braking type.   |
| 第 35 條     | 曲軸衝床之制動裝置藉由氣壓作動離合器者,應具有彈簧緊固型構造或具有同等   |
|            | 以上之安全功能。  |
|            | 前項衝床以外之曲軸衝床,其制動裝置應為帶式制動以外之型式。但機械式摺床   |
|            | 以外之曲軸衝床且壓力能力在一百噸以下者,不在此限。   |
| Article 35 | The brake device of the crankshaft press that braking is activated with a pneumatic         |
|            | clutch, shall be a spring- fastening type or others having equivalent or more safety        |
|            | function.   |
|            | The brake device of the crankshaft press except the press mentioned in the preceding        |
|            | paragraph, shall be a non- band braking type but it is unrestricted for a crankshaft        |
|            | press with a capacity less than 100 tons and not a mechanical press brake.                  |
| 第 36 條     | 曲軸衝床應於明顯部位,設置能顯示曲軸等旋轉角度之指示計或其他同等指示功   |
|            | 能之裝置。但具有不致使身體介入危險界限之構造者,不在此限。   |
| Article 36 | The crankshaft press shall have indicators or others having equivalent function to          |
|            | show the angle of the crank rotation in obvious position.                                   |
| 第 37 條     | 置有滑動銷或滾動鍵之離合器之機械衝床,曲軸偏心軸之停止角度應在十度以  |
|            | 内。但具有不致使身體介入危險界限之構造者,不在此限。  |
|            | 前項停止角度,指由曲軸偏心軸之設定停止點與實際停止點所形成之曲軸中心角   |
|            | 度。  |
| Article 37 | The stopping angle of the crankshaft for the pin clutch or the key clutch mechanical        |
|            | press shall be within 10 degrees but it is unrestricted for having a construction to        |
|            | prevent a body part intervening a hazard zone.  |
|            | The above mentioned stopping angle refers to the crank center angle formed by the           |
|            | set stop point and the actual stop point.   |
| 第 38 條     | 曲軸等之轉速在每分鐘三百轉以下之曲軸衝床,應具有超限運轉監視裝置。但依   |
|            | 規定無須設置快速停止機構之曲軸衝床及具有不致使身體介入危險界限之構造  |
|            | 者,不在此限。   |
|            | 前項所稱超限運轉監視裝置,指當曲軸偏心軸等無法停止在其設定停止點時,能   |
|            | 發出曲軸等停止轉動之指令,使快速停止機構作動者。  |
|            | 前項設定停止點,從設定停止位置起算,其停止角度,應在二十五度以內。   |
| Article 38 | The crankshaft press with a crankshaft revolution below 300 revolutions per minute          |
|            | shall have a system to monitor excessive speed. But the above-mentioned                     |
|            | requirements may not apply to crankshaft presses which do not need to include the           |
|            | protective stop mechanism according to rules, or which are constructed to prevent a         |

|            | body part entering the hazard zone.   |
|------------|---|
|            | The monitor in the preceding paragraph means that a directive can activate the          |
|            | protective stop mechanism when the crankshaft cannot be stopped at the set-stop         |
|            | point.  |
|            | The above-mentioned set-stop point shall have a stopping angle within 25 degrees        |
|            | from the set-stop position.   |
| 第 39 條     |   |
| 第 39 陈     | 機械衝床以氣壓或液壓控制離合器或制動裝置者,應設置下列電磁閥:   |
|            | 一、複動式電磁閥。但機械衝床具有不致使身體介入危險界限之構造者,不在  |
|            | 此限。   |
|            | 二、常閉型電磁閥。   |
|            | 三、以氣壓控制者,其電磁閥採壓力回復型。  |
|            | 四、以液壓控制者,其電磁閥採彈簧回復型。  |
| Article 39 | The mechanical press that clutch or brake is controlled by pneumatic or hydraulic       |
|            | shall provide the following solenoid valves:  |
|            | 1. Multi-acting solenoid valves except that having a construction to prevent a body     |
|            | part intervening the hazard zone.   |
|            | 2. Normally closed solenoid valve.  |
|            | 3. Being pressure-return type for the solenoid valve controlled by the pneumatic.       |
|            | 4. Being spring-return type for solenoid valve controlled by the hydraulic.             |
| 第 40 條     | 前條機械衝床,應具有防止離合器或制動裝置之氣壓或液壓超壓之安全裝置,並   |
|            | 具有在氣壓或液壓低於設定壓力時,自動停止滑塊等動作之機構。 <u>但超壓時,其</u>   |
|            | <u>伺服系統可防止誤動作者,不在此限。</u>  |
| Article 40 | The mechanical press mentioned in the preceding Article shall have a safety device to   |
|            | prevent excess pressure of the pneumatic or hydraulic pressure of the clutch or brake   |
|            | and to cause the slider to stop automatically when the pressure is below the set value, |
|            | which may not apply if the safety requirement is met by using a servo-system that can   |
|            | prevent inadvertent action when the pneumatic or hydraulic pressure goes beyond the     |
|            | set value.  |
| 第 41 條     | 機械衝床以電動機進行滑塊等調整者,應具有防止滑塊等超出其調整量上限及下   |
|            | 限之裝置。   |
| Article 41 | The mechanical press with a slider adjusting by an electric motor shall have a device   |
|            | to prevent the slider adjusting beyond its upper or lower limits.                       |
| 第 42 條     | 機械衝床滑塊等之平衡器,應符合下列規定:  |
|            | 一、彈簧式平衡器:具有當彈簧等零件發生破損時,防止其零件飛散之構造。  |
|            | 二、氣壓式平衡器:   |
|            | (一)具有當活塞等零件發生破損時,防止其零件飛散之構造。  |
|            | (二)在制動裝置未動作時,滑塊等及其附屬品須維持在行程之任何位置,並具   |
|            | 有在氣壓低於設定壓力時,自動停止滑塊等動作之構造。   |

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| Article 42       | The counter-balancer of the slider for the mechanical press shall meet the following        |
|                  | provisions:   |
|                  | 1. A spring-type counter-balancer: a construction to prevent spring or other parts          |
|                  | scattered when it occurs damage.  |
|                  | 2. A pneumatic-type counter-balancer:   |
|                  | (1) a construction to prevent piston or other parts scattered when it occurs damage.        |
|                  | (2) a construction that the slider and its accessories shall be held at any position in the |
|                  | stroke when the brake device is not operated, and it can automatically stop the             |
|                  | slide acting when the pressure falls below the set.   |
| 第 43 條           | 使用確動式離合器之機械衝床,其每分鐘行程數在一百五十以下,且壓力能力在   |
|                  | 一百五十噸以下,置有操作用腳踏開關或腳踏板者,應具有在滑塊等動作中防止   |
|                  | 身體之一部介入危險界限之構造或具有快速停止機構。  |
| Article 43       | The positive-clutch mechanical press with a foot control switch or a foot pedal,            |
|                  | strokes per minute less than 150, and the capacity below 150 tons, shall have a             |
|                  | construction that can prevent a body part entering the hazard zone or have the              |
|                  | protective stop mechanism.  |
| 第 44 條           | 使用確動式離合器之機械衝床,其每分鐘行程數超過一百五十或壓力能力超過一   |
|                  | 百五十噸者,不得置有快速停止機構。   |
| Article 44       | The positive- clutch mechanical press with strokes per minute over than 150 or the          |
|                  | capacity over 150 tons shall not be provided the protective stop mechanism.                 |
| 第 五 節 液壓系        | ·<br>A統   |
| Section V Hydrau | lic systems   |
| 第 45 條           | 液壓衝床應具有液壓泵起動後,未進行該液壓衝床之起動操作,無法使滑塊等動   |
|                  | 作之構造。   |
| Article 45       | A hydraulic press shall have a construction that the slider cannot be activated without     |
|                  | doing the start operation after a hydraulic pump started.                                   |
| 第 46 條           | 液壓衝床之快速停止機構,當滑塊等以最大速度下降時,使其作動,滑塊等之慣   |
|                  | 性下降值,不得超過附表四所定之值。   |
| Article 46       | An over drop distance (inertial descending value) of the slider shall be less than the      |
|                  | value in Attachment table 4 when the protective stop mechanism in the hydraulic             |
|                  | press acts on the slider being of a maximum dropping speed.                                 |
| 第 47 條           | 液壓衝床應具有足以支撐滑塊等及其上模重量之安全擋塊。  |
| Article 47       | The hydraulic press shall have a safety stopper to support the total weight of the slider   |
|                  | and the upper half die.   |
| 第 48 條           | 液壓衝 <u>剪機械</u> 之電磁閥,應為常閉型,並具有彈簧回復型之構造。  |
| Article 48       | The solenoid valve in the hydraulic press or shear machine shall be a normally closed       |
|                  | type with a spring-return construction.   |
| 第 49 條           | 液壓衝 <u>剪機械,</u> 應具有防止液壓超壓之安全裝置。   |
|                  | <u> </u>  |

| Article 49       | The hydraulic press or shear machine shall have a safety device to prevent that       |
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|                  | hydraulic pressure goes beyond the set value.   |
| 第三章手推            |   |
| Chapter III Hand | l-fed planer  |
| 第 50 條           | 攜帶用以外之手推刨床,應具有符合下列規定之刃部接觸預防裝置。但經檢查機   |
|                  | 構認可具有同等以上性能者,得免適用其之一部或全部:   |
|                  | 一、覆蓋應遮蓋刨削工材以外部分。  |
|                  | 二、具有不致產生撓曲、扭曲等變形之強度。  |
|                  | 三、可動式接觸預防裝置之鉸鏈部分,其螺栓、插銷等,具有防止鬆脫之性能。   |
|                  | 四、除將多數加工材料固定其刨削寬度從事刨削者外,所使用之刃部接觸預防  |
|                  | 裝置,應使用可動式接觸預防裝置。但直角刨削用手推刨床型刀軸之刃部  |
|                  | 接觸預防裝置,不在此限。  |
|                  | 手推刨床之刃部接觸預防裝置,其覆蓋之安裝,應使覆蓋下方與加工材之進給側   |
|                  | 平台面間之間隙在八毫米以下。  |
| Article 50       | A hand-fed planer except a portable shall have a cutter contactpreventive device      |
|                  | complying with the following provisions. It might be exempted from a part or all of   |
|                  | them if it has equivalent or more performance accredited from the inspection agency.  |
|                  | 1. It has a guard to cover the portion except the wood-piece being planned.           |
|                  | 2. It has strength to withstand deflection and distortion.                            |
|                  | 3. It has function to prevent bolts, pins and others of the hinge in a self-adjusting |
|                  | contact-preventive device from loosening or dropping out.                             |
|                  | 4. A self-adjusting contact-preventive device shall be used for those pushing a       |
|                  | wood-piece by hands. If most wood-pieces with a same form, a same planning            |
|                  | width and no risk of hands contacting with the shaper, a fixed cutter                 |
|                  | contact-preventive device can be used too but it is unrestricted for the cutter       |
|                  | contactpreventive device used in a spindle shaper.                                    |
|                  | The cutter contact-preventive device for the hand-fed planer shall make the gap       |
|                  | between the low-edge of a cover and a material-fed table be less than 8 millimeters.  |
| 第 51 條           | 手推刨床應設置遮斷動力時,可使旋轉中刀軸停止之制動裝置。但遮斷動力時,   |
|                  | 可使其於十秒內停止刀軸旋轉者,或使用單相線繞轉子型串激電動機之攜帶用手   |
|                  | 推刨床,不在此限。   |
| Article 51       | The hand-fed planer shall have a device to make a rotating cutter block stopped and   |
|                  | braked when the power shut down. There is unrestricted if it can make cutter block    |
|                  | stopped within 10 seconds as the power shut down or a portable planer using a motor   |
|                  | with a single-phase series wound motor.   |
| 第 52 條           | 手推刨床 <u>,應具有防止更換刨刀時發生危害之構造</u> 。  |
| Article 52       | The hand-fed planer shall have a mechanism that can prevent hazards when changing     |
|                  | the cutter.   |

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| 第 53 條     | 手推刨床應設置不離開作業位置即可操作之動力遮斷裝置。   |
|            | 前項動力遮斷裝置應易於操作,且具有不因意外接觸、振動等,致手推刨床有意  |
|            | 外起動之虞之構造。  |
| Article 53 | The hand-fed planer shall have a power shut off device that can be operated without      |
|            | leaving a job position.  |
|            | The power shut off device related in the preceding paragraph shall be easily operated    |
|            | and has a construction to prevent an accident start from unexpected contacting,          |
|            | vibrating or the like.   |
| 第 54 條     | 攜帶用以外之手推刨床,其加工材進給側平台,應具有可調整與刃部前端之間隙  |
|            | 在三毫米以下之構造。   |
| Article 54 | Except the portable planer, the hand-fed planer shall have a device to adjust the gap    |
|            | between the wood- fed table and the cutter tip being less than 3 millimeters.            |
| 第 55 條     | 手推刨床之刀軸,其帶輪、皮帶及其他旋轉部分,於旋轉中有接觸致生危險之虞  |
|            | 者,應設置覆蓋。但刀軸為刨削所必要之部分者,不在此限。  |
| Article 55 | The cutter block of the hand-fed planer, pulley, belt or other rotating parts shall have |
|            | guards if they may cause a risk because of contacting with a body part. There is         |
|            | unrestricted except the necessary planed zone by the cutter block.                       |
| 第 56 條     | 手推刨床之刃部,其材料應符合下列規定之規格或具有同等以上之機械性質:   |
|            | 一、刀刃:符合國家標準 CNS 2904「高速工具鋼鋼料」規定之SKH2規格之鋼   |
|            | 料。   |
|            | 二、刀身:符合國家標準 CNS 2473「一般結構用軋鋼料」或國家標準CNS 3828  |
|            | 「機械構造用碳鋼鋼料」規定之鋼料。  |
| Article 56 | The material for the cutter of the hand-fed planer shall comply with the following       |
|            | provisions or others having equivalent or more mechanical properties:                    |
|            | 1. cutter: complying with SKH2 set in the national standard CNS 2904 "high speed         |
|            | tool steel material".  |
|            | 2. cutter block: complying with the national standard CNS 2473 "the general-             |
|            | structural-using rolled steel material" or the national standard CNS 3828                |
|            | "mechanical- structure-using carbon steel material".                                     |
| 第 57 條     | 手推刨床之刃部,應依下列方法安裝於刀軸:   |
|            | 一、國家標準 CNS 4813「木工機械用平刨刀」規定之 A 型(厚刀)刃部,並至  |
|            | 少取其安裝孔之一個承窩孔之方法。   |
|            | 二、國家標準 CNS 4813「木工機械用平刨刀」規定之 B 型(薄刀)刃部,其分  |
|            | 軸之安裝隙槽或壓刃板之斷面,使其成為尖劈形或與其類似之方法。   |
| Article 57 | The cutter shall be fitted in the cutter block in accordance with the following way:     |
|            | 1. Based on the national standard CNS 4813 "flat plan cutter for wood machine", at       |
|            | least one of fitted holes shall be a slot hole for the A type cutter (thickness cutter). |
|            | 2. Based on the national standard CNS 4813 "flat plan cutter for wood machine",          |
|            |  |

| fitted clots on a cutton compressing plots for the D type cutton (thin cutton) shall be  |
|--|
| fitted slots or a cutter-compressing plate for the B type cutter (thin cutter) shall be  |
| a wedge-shaped or other similar ways.  |
| 手推刨床之刀軸,應採用圓胴。   |
| Only a cylindrical cutter block can be used on the hand-fed planer.                      |
| ]工用圓盤鋸   |
| working circular saws  |
| 木材加工用圓盤鋸(以下簡稱圓盤鋸)之材料、安裝方法及緣盤,應符合下列規  |
| 定:   |
| 一、材料:依圓鋸片種類及圓鋸片構成部分,符合附表五規定之材料規格或具有  |
| 同等以上之機械性質。   |
| 二、安裝方法:  |
| (一)使用第三款規定之緣盤。但多片圓盤鋸或複式圓盤鋸等圓盤鋸於使用專<br>用裝配具者,不在此限。  |
| (二)固定側 <u>或移動側</u> 緣盤以收縮配合、壓入等方法,或使用銷、螺栓等方式  |
| 固定於圓鋸軸。  |
| (三)圓鋸軸之夾緊螺栓,具有不可任意旋動之性能。   |
| (四)使用於緣盤之固定用螺栓、螺帽等,具有防止鬆脫之性能,以防止制動   |
| 裝置制動時引起鬆脫。   |
| 三、圓盤鋸之緣盤:  |
| (一)使用具有國家標準 CNS 2472 灰口鐵鑄件規定之 FC150 鑄鐵品之抗拉強  |
| 度之材料,且不致變形者。   |
| (二)緣盤直徑在固定側與移動側均應等值。   |
| Materials, installation ways and flanges for woodworking circular saws (hereinafter      |
| referred to as the circular saw) shall meet the following provisions. :                  |
| 1. Materials shall comply with the specifications in attachment table 5 or other         |
| equivalents or more mechanical properties depending on the type of circular saw          |
| blades and their components.   |
| 2. Mounting:   |
| (1) Using the flange set in subparagraph 3, except a gang rip or a multiple sizer that   |
| uses special assembly tools.   |
| (2) fixed- or movable- flange being fixed on a saw shaft in a shrink fit, press or the   |
| like, or with pins, bolts.   |
| (3) The fastening bolts on the shaft of the circular saw shall be of an appropriate      |
| tightness.   |
| (4) Nuts, bolts and others for fastening the flange must be capable of preventing        |
| loosening while the saws are being braked.   |
| 3. Flange:   |
| (1) Uses material that has a tensile strength of FC150 iron castings set in the national |
|  |

| 第 60 條 回整矩應設置下列安全裝置: 一、圖整矩之友接預的接置(以下簡稱反接預的裝置)。但横锯用圖盤鋸或因反接不致引起危害者,不在此限。 二、圖盤銀之友接預的裝置(以下簡稱反接預的裝置)。但横锯用圖盤鋸或因反接不致引起危害者,不在此限。 Article 60  Article 60  The circular saw shall have the following safety devices: 1. An anti-kickback device for the circular saw (hereinafter referred to as the anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  第 61 條 反接預的装置之接維片(以下簡稱接維片)及銀齒接觸預的装置之安装,應符合下列规定: 一、接維片及銀盘接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,使於同一平面上。 二、木材加工用圓盤鋸,使接維片與其面對之圓銀片鍋齒前端之間除在十二毫米以下。  Article 61  Ariving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section planes containing the longitudinal center lines and the longitudinal cross section planes containing the longitudinal center lines and the longitudinal cross section planes containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  國整趣應證置運動動力時可使旋轉中圖解轉停止之制動裝置。但下列圖體處,不在此限: 一、國整趣於運動動放接觸、用於可能放射性存分。 一、實際用圖鑑整理用用來看動機構造,其本體內裝置的影響的可能使用。  2. 裁有自動輸送裝置之圖整理,其本體內裝置的上與機械的可能使用。  3. 裁有自動輸送數量之圖發達,其本體內裝置的上與其他於可能使用。  4. 在提供的表面,與維機及多值製作機能可能使用。  4. 在提供的表面,與維機及多位與性的表面,與維機及多位與性的表面,與維機及多位與性的表面,與維機及多位與性的表面,與維機及多位與性的表面,與維度及多位的表面,與使用。  4. 在提供的工作,以及可能用的可能可能用的可能用的可能用的可能用的可能用的可能用的可能用的可能用的可能  |            |   |
|---|------------|---|
| 第 60 條 國監經應置下列安全裝置:  一、國監絕之反接預防裝置(以下簡稱反接預防裝置)。但模鋸用國盤絕或因反接不致引起危害者,不在此限。  二、國監絕之鋸齒接觸預防裝置(以下簡稱鋸齒接觸預防裝置)。但製材用國盤銀及設有自動輸送裝置者,不在此限。  Article 60 The circular saw shall have the following safety devices:  1. An anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  第 61 條 反撥預防裝置之持縫片(以下簡稱撐纏片)及鄉齒接觸預防裝置之安裝,應符合下列規定:  一、持維片及鋸崗接觸預防裝置經常使包含其釋斷面之緣向中心線而和其側面平行之面,與包含園鋸片綠斷面之緣向中心線而和其側面平行之面,便包含園鋸片綠斷面之緣向中心線而和其側面平行之面,使於同一平面上。  二、木材加工用圖盤鋸,使撐縫片與其面對之圖鋸片鋸齒前端之間除在十二毫米以下。  Article 61 Ariving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條 國路緩緩設置運動動力時,可於十秒內停止圓鋸軸停止之和動裝置。但下列國盤處,不在此限:  一、圓盤鋸使用單相中激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本繼內凝園健居或其他不因接觸致引起危險之度者。  四、製作機及多輪製作機。   |            | standard CNS 2472 "gray iron castings," and not causing deformation.                      |
| 一、国館銀之反撥預防裝置(以下簡稱反撥預防裝置)。但橋銀用国盤錦或因反<br>撥不致引起危害者,不在此限。  二、国盤銀之銅齒接觸預防裝置(以下簡稱銅齒接觸預防裝置)。但製材用国盤<br>銀及設有自動輸送裝置者,不在此限。  Article 60  The circular saw shall have the following safety devices:  1. An anti-kickback device for the circular saw (hereinafter referred to as the anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  第 61 條 反撥預防裝置之撐鏈片(以下簡稱撐鏈片)及鋸崗接觸預防裝置之安裝,應符合下列規定:  一接鏈片及鋸齒接觸預防裝置緩片便包含其線斷面之緩向中心線而和其側面平行之面,位於同一平面上。  二、本材加工用固盤鋸、使撐鏈片與其面對之固鋸片鋸齒前端之間除在十二毫米以下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section plane socntaining their longitudinal center lines and the longitudinal cross section plane containing their longitudinal center lines and the longitudinal cross section plane power by their longitudinal cross section plane ontaining the longitudinal center lines and the longitudinal cross section plane power by their longitudinal cross section plane formed by their longitudinal cross section plane   |            | (2) Flange diameters being equal on the fixed- side and the movable- side.                |
| 接不致引起危害者,不在此限。  一、國盤絕之絕齒接觸預防裝置(以下簡稱絕齒接觸預防裝置)。但製材用圖盤 絕及設有自動輸送裝置者,不在此限。  Article 60  The circular saw shall have the following safety devices:  1. An anti-kickback device for the circular saw (hereinafter referred to as the anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  ② 61 條  ② 反撥預防裝置之撐鏈片(以下簡稱撐鏈片)及鋸齒接觸預防裝置之安裝,應符合下列規定:  一、擇鍵片及鋸齒接觸預防裝置經常使包含其縱斷而之縱向中心綠而和其側面平行之面,與包含圓鋸片縱斷而之縱向中心綠而和其側面平行之面,如於同一平面上。  二、木材加工用圓盤鋸,使撐鏈片與其面對之圓鋸片鋸齒前端之間除在十二毫米以下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  ② 62 條  四盤鋸ж股置運動動力時可使旋轉中圓鋸輔停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於運動動力時,可於十秒內停止圓鋸輔停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於運動動力時,可於十秒內停止圓鋸輔停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於運動力時,可於十秒內停止圓鋸輔停止之制動裝置。但下列圓盤鋸,不在此限:  一、獨帶用圓盤鋸使用單相中激電動機者。  三、沒有自動輸送裝置之同鐵網,其本體內藏圓鋸片或其他不因接觸致引起危險之廣音。  四、製牌機及多軸製件機。   | 第 60 條     | 圓盤鋸應設置下列安全裝置:   |
| 一、 画盤龍之龍齒接觸預防裝置(以下簡稱鏡齒接觸預防裝置)。但製材用圓盤  |            | 一、圓盤鋸之反撥預防裝置(以下簡稱反撥預防裝置)。但橫鋸用圓盤鋸或因反   |
| ### Article 60 The circular saw shall have the following safety devices:  1. An anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  #### A 61     反接預防裝置之擇離片 (以下簡稱擇雞月) 及鄉齒接觸預防裝置之安裝,應符合下列規定:   一、擇雞月及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸月縱斷面之縱向中心線而和其側面平行之面,也於同一平面上。   一、木材加工用圓盤鋸,使擇鑑月與其面對之圓鋸月鋸齒前端之間啄在十二毫米以下。   Article 61   A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:   1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section plane containing their longitudinal center lines and the longitudinal cross section plane containing their longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  ##### A 62    個盤銀應設置運動動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:   一、圓盤銀底設置並斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:   一、圓盤銀底設置如動地時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:   一、圓盤銀底設置如動地時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:   一、圓盤銀底數置如動性表。   三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之廣省。   三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之廣省。   三、沒有自動輸送裝置之圓盤鋸,其本體內裁圓鋸月或其他不因接觸致引起危險之廣省。   三、沒有自動輸送裝置之圓盤鋸,其本體內裁圓鋸月或其他不因接觸致引起危險之廣省。   三、沒有自動輸送裝置之圓盤鋸,其本體內裁圓鋸月或其他不因接觸致引起危險之廣省。   三、沒有自動輸送裝置之圓盤鋸,其本體內裁圓鋸月。以其他不因接觸致引起危險之廣報。   三、沒有自動輸送裝置之圓盤鋸,其本體內或圓盤,其能可以上面。  |            | 撥不致引起危害者,不在此限。  |
| The circular saw shall have the following safety devices:  1. An anti-kickback device for the circular saw (hereinafter referred to as the anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  \$\frac{\text{\$\text{\$gk}}}{\text{ for lumber or with an automatic feeding device.}}\$  \$\text{\$\text{\$\text{\$\text{\$Qk}}}{\$\text{\$\ |            | 二、圓盤鋸之鋸齒接觸預防裝置 (以下簡稱鋸齒接觸預防裝置)。但製材用圓盤  |
| 1. An anti-kickback device for the circular saw (hereinafter referred to as the anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  反檢預防裝置之擇離月(以下簡稱擇離月)及範齒接觸預防裝置之安裝、應符合下列規定:  一、接離月及鏈齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含固鑑月緩斷面之縱向中心線而和其側面平行之面,使包含固鑑月緩斷面之縱向中心線而和其側面平行之面,使不可止。  二、木材加工用圖盤鋸、使接縫月與其面對之圓鋸月鋸齒前端之間除在十二毫米以下。  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contact preventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center lines and the longitudinal cross section plane containing the longitudinal center lines and the longitudinal cross section plane containing the longitudinal center lines and the longitudinal cross section plane containing the longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圖盤郵應設置運動力時,可於十秒內停止回避軸旋轉者。  一、過盤郵應放射方式,其中不足接觸致引起於檢入之限的表質,其中不足接觸致引起於檢入度數可以開始於可以開始的表質。  一、過程可以開始的表質,其中不足接觸的表質,其中不足接觸的可以開始的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述的表質,可以用述  |            | 鋸及設有自動輸送裝置者,不在此限。   |
| anti-kickback device) except the cross cut circular saw or others not causing danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  5. 61 條  5. 62 條  6.   | Article 60 | The circular saw shall have the following safety devices:                                 |
| danger to workers because of wood kickback.  2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  \$\begin{align*} \frac{5}{2} & \text{ fights} & \  |            | 1. An anti-kickback device for the circular saw (hereinafter referred to as the           |
| 2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the teeth contact-preventive device) except that for lumber or with an automatic feeding device.  第 61 條  反撥預防裝置之撑缝片(以下簡稱撑缝片)及銅齒接觸預防裝置之安裝,應符合下列規定:  一、撑缝片及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,如下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section plane containing their longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  園盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸形遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之處者。 四、製榫機及多軸製榫機。   |            | anti-kickback device) except the cross cut circular saw or others not causing             |
| teeth contact-preventive device) except that for lumber or with an automatic feeding device.  第 61 條 反撥預防裝置之撐縫片(以下簡稱撐縫月)及鋸齒接觸預防裝置之安裝,應符合下列規定: 一、撐縫月及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,位於同一平面上。 二、木材加工用圓盤鋸,使撐縫片與其面對之圓鋸片鋸齒前端之間除在十二毫米以下。  Article 61 A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line and the longitudinal cross section plane containing the longitudinal center line and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條 圓盤鋸底設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。 二、攜帶用圓盤鋸使用單相串激電動機者。 三、接有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之廣者。 四、製作機及多輔製件機。   |            | danger to workers because of wood kickback.   |
| feeding device.    Feeding device.   反接預防裝置之撐縫片(以下簡稱撐縫片)及鋸齒接觸預防裝置之安裝,應符合下列規定:   一、撐縫片及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,如於同一平面上。   二、木材加工用圓盤鋸,使撐縫片與其面對之圓鋸片鋸齒前端之間除在十二毫米以下。   Article 61   A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:   The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.   2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.   Gap between the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal center line of the blade are always on the same plan.   Check  |            | 2. A teeth contact-preventive device for the circular saw (hereinafter referred to as the |
| 第 61 條  反撥預防裝置之撐縫片(以下簡稱撐縫片)及鋸齒接觸預防裝置之安裝,應符合下列規定:  一、撐縫片及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,位於同一平面上。  二、木材加工用圓盤鋸,使撐縫片與其面對之圓鋸片鋸齒前端之間除在十二毫米以下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section plane sontaining their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圖盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之虞者。  四、製牌機及多軸製榫機。  |            | teeth contact-preventive device) except that for lumber or with an automatic              |
| 下列規定: 一、撐縫月及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸月縱斷面之縱向中心線而和其側面平行之面,位於同一平面上。 二、木材加工用圓盤鋸,使撐縫月與其面對之圓鋸月鋸齒前端之間除在十二毫米以下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圖盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限: 一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。 二、攜帶用圓盤鋸使用單相串激電動機者。 三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之處者。 四、製榫機及多軸製榫機。  |            | feeding device.   |
| <ul> <li>一、撐縫月及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平行之面,與包含圓鋸月縱斷面之縱向中心線而和其側面平行之面,位於同一平面上。</li> <li>二、木材加工用圓盤鋸,使撐縫月與其面對之圓鋸月鋸齒前端之間隙在十二毫米以下。</li> <li>A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:         <ol> <li>The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.</li> <li>The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.</li> <li>園盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:</li> <li>一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。</li> <li>二、攜帶用圓盤鋸使用單相串激電動機者。</li> <li>三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之廣者。</li> <li>四、製榫機及多軸製榫機。</li> </ol> </li> </ul>   | 第 61 條     | 反撥預防裝置之撐縫片 (以下簡稱撐縫片) 及鋸齒接觸預防裝置之安裝,應符合   |
| 行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,位於同一平面上。  二、木材加工用圓盤鋸,使撐縫片與其面對之圓鋸片鋸齒前端之間除在十二毫米以下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plan containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圖盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圖盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之虞者。  四、製榫機及多軸製榫機。   |            | 下列規定:   |
| 平面上。  一、木材加工用圓盤鋸,使撐縫片與其面對之圓鋸片鋸齒前端之間隙在十二毫米以下。  Article 61  A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plan containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圓盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之虞者。  四、製榫機及多軸製榫機。  |            | 一、撐縫片及鋸齒接觸預防裝置經常使包含其縱斷面之縱向中心線而和其側面平   |
| 一、木材加工用圖盤鋸,使撐縫片與其面對之圓鋸片鋸齒前端之間隙在十二毫米以下。  Article 61 A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plane containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條 圓盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸月或其他不因接觸致引起危險之虞者。 四、製榫機及多軸製榫機。  |            | 行之面,與包含圓鋸片縱斷面之縱向中心線而和其側面平行之面,位於同一   |
| Article 61 A riving knife of the anti-kickback device (hereinafter referred to as the riving knife) or a teeth-contact preventive device shall meet the following provisions:  1. The installation of the riving knife and the teeth contactpreventive device must be in the condition that the longitudinal cross section plane formed by their longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plan containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圖盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、沒有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之虞者。 四、製榫機及多軸製榫機。  |            | 平面上。  |
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| longitudinal cross section planes containing their longitudinal center lines and the longitudinal cross section plan containing the longitudinal center line of the blade are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圓盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之虞者。  四、製榫機及多軸製榫機。  |            | 1. The installation of the riving knife and the teeth contactpreventive device must be    |
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| are always on the same plan.  2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圓盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之虞者。  四、製榫機及多軸製榫機。  |            | longitudinal cross section planes containing their longitudinal center lines and the      |
| 2. The gap between the riving knife and the top of that opposite blade teeth is less than 12 millimeters.  第 62 條  圓盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險之虞者。  四、製榫機及多軸製榫機。  |            | longitudinal cross section plan containing the longitudinal center line of the blade      |
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| 在此限:  一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  二、攜帶用圓盤鋸使用單相串激電動機者。  三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險  之虞者。  四、製榫機及多軸製榫機。  |            | than 12 millimeters.  |
| 一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。<br>二、攜帶用圓盤鋸使用單相串激電動機者。<br>三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險<br>之虞者。<br>四、製榫機及多軸製榫機。  | 第 62 條     | 圓盤鋸應設置遮斷動力時可使旋轉中圓鋸軸停止之制動裝置。但下列圓盤鋸,不   |
| 二、攜帶用圓盤鋸使用單相串激電動機者。<br>三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險<br>之虞者。<br>四、製榫機及多軸製榫機。  |            | 在此限:  |
| 三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險<br>之虞者。<br>四、製榫機及多軸製榫機。   |            | 一、圓盤鋸於遮斷動力時,可於十秒內停止圓鋸軸旋轉者。  |
| 之虞者。<br>四、製榫機及多軸製榫機。  |            | 二、攜帶用圓盤鋸使用單相串激電動機者。   |
| 四、製榫機及多軸製榫機。  |            | 三、設有自動輸送裝置之圓盤鋸,其本體內藏圓鋸片或其他不因接觸致引起危險   |
|   |            | 之虞者。  |
| Article 62 When the power blocked, the circular saw shall have a brake device to make its   |            | 四、製榫機及多軸製榫機。  |
|   | Article 62 | When the power blocked, the circular saw shall have a brake device to make its            |

|            | rotating shaft stopped except the following circular saw:                                |
|------------|--|
|            | 1. The circular saw is capable of stopping its shaft within 10 seconds when the power    |
|            | blocked.   |
|            | 2. The portable circular saw use a single-phase series wound motor.                      |
|            | 3. The circular saw has an automatic feeder which blade is built into the body or        |
|            | others that do not cause a dangerous risk because of bodily contact.                     |
|            | 4. It is a tenoning machine or a multi-axis tenoning machine.                            |
| 第 63 條     | 圓盤鋸應設置可固定圓鋸軸之裝置,以防止更換圓鋸片時,因圓鋸軸之旋轉引起  |
|            | 之危害。   |
| Article 63 | The circular saw shall have a device to fix its shaft to prevent the hazard from shaft   |
|            | rotating when replacing the blade.   |
| 第 64 條     | 圓盤鋸之動力遮斷裝置,應符合下列規定:  |
|            | 一、設置於操作者不離開作業位置即可操作之處。   |
|            | 二、須易於操作,且具有不因意外接觸、振動等致圓盤鋸有意外起動之虞之構造。   |
| Article 64 | The power blocking device for the circular saw shall meet the following provisions:      |
|            | 1. Setting in a place that the operator can control it without leaving the operating     |
|            | position.  |
|            | 2. Being easily to control and having a construction that no risk of unexpectedly        |
|            | starting when accidently contacting or vibrating and so forth.                           |
| 第 65 條     | 圓盤鋸之圓鋸片、齒輪、帶輪、皮帶及其他旋轉部分,於旋轉中有接觸致生危險  |
|            | 之虞者,應設置覆蓋。但圓鋸片之鋸切所必要部分者,不在此限。  |
| Article 65 | Blades, gears, pulleys, belts and other rotating parts of circular saws those have a     |
|            | dangerous risk because of bodily contacting shall have covers except the necessary       |
|            | cut portion by the blade.  |
| 第 66 條     | 傾斜式萬能圓盤鋸之鋸台傾斜裝置,應為螺旋式或不致使鋸台意外傾斜之構造。  |
| Article 66 | A tilt device of the table of an universal tilt circular saw shall be a spiral type or a |
|            | structure not to cause an accident tilting.  |
| 第 67 條     | 攜帶式圓盤鋸應設置平板。   |
|            | 前項加工材鋸切側平板之外側端與圓鋸片鋸齒之距離,應在十二毫米以上。  |
| Article 67 | The portable circular saw shall provide a surface plate. The distance between the        |
|            | outer end of the surface plate in cutting side and the teeth top of the blade shall be   |
|            | over12 millimeters.  |
| 第 68 條     | 撐縫片應符合下列規定:  |
|            | 一、材料:符合國家標準 CNS 2964「碳工具鋼鋼料」規定之 SK5 規格或具有同   |
|            | 等以上之機械性質。  |
|            | 二、形狀:  |
|            | (一)使其符合依第一百十六條規定所標示之標準鋸台位置沿圓鋸片斜齒三分   |
|            | 之二以上部分與圓鋸片鋸齒前端之間隙在十二毫米以內之形狀。   |
|            |  |

- (二) 撐縫片橫剖面之刀形, 具有輸送加工材時阻力較少之形狀。
- 三、一端固定之撐縫片(以下簡稱鐮刀式撐縫片),依第一百十六條規定所標示 之標準鋸台位置之寬度值應依圓鋸片直徑,不得低於附表六所定之值。
- 四、所列標準鋸台位置沿圓鋸片斜齒三分之二之位置處之鐮刀式撐縫片寬度,不 得低於附表六所定之值之三分之一。
- 五、兩端固定之撐縫片(以下簡稱懸垂式撐縫片),其寬度值應依圓鋸片直徑, 不得低於附表七所定之值。
- 六、厚度為圓鋸片厚度之一點一倍以上。
- 七、安裝部具有可調整圓鋸片鋸齒與撐縫片間之間隙之構造。

#### 八、安裝用螺栓:

- (一)安裝用螺栓之材料為鋼材,其螺栓直徑應依其撐縫片種類及圓鋸片直 徑,不得低於附表八所定之值。
- (二)安裝螺栓數在二個以上。
- (三)安裝螺栓具有盤形簧墊圈等防止鬆脫之性能。
- 九、支持配件之材料為鋼材或鑄鐵件,且具有充分支撐撐縫片之強度。
- 十、圓鋸片直徑超過六百一十毫米者,該圓盤鋸所使用之撐縫片為懸垂式者。

#### Article 68

The riving knife shall meet the following provisions:

- 1. Materials: complying with SK5 specifications set in the national standard CNS 2964 "carbon tool steel" or other equivalent or more mechanical properties.
- 2. Shapes:
- (1) A shape of the riving knife is formed to comply a gap within 12 millimeters to two third of the slope teeth of the blade related to the standard table surface in accordance with Article 116.
- (2) The cross section shape of the riving knife shall be the form that resistance is less to feed the wood-piece.
- 3. Being related to the standard table position based on Article 116, the width of a riving knife with one end fixed (hereinafter referred to as the sickle-type riving knife) shall be in accordance with the diameter of the blade and not less than the value in Attachment table 6.
- 4. The width of the sickle-type riving knife in a two-thirds position of the blade reverse teeth from the standard table position is not less than one third of the value in Attachment table 6.
- 5. The width of the drape-type riving knife fixed at both ends (hereinafter referred to as the drape-type riving knife) shall be in accordance with the diameter of the blade and not less than the value in Attachment table 7.
- 6. The thickness of the riving knife shall be more than 1.1 times of that of the blade.
- 7. The mounting portion has a structure to adjust the gap between the blade and the riving knife.

- 8. Mounting bolts: (1) The material shall be steel. The diameter of bolts shall be according to the type of the riving knife and the diameter of the blade and not less than the values in Attachment table 8. (2) Numbers of mounting bolts shall be over two.
  - (3) The mounting bolts shall use conical spring washers to prevent loosening.
  - 9. Materials of support parts shall be steel or cast iron and have sufficient strength to support the riving knife.
  - 10. The riving knife for the circular saw with the diameter over 610 millimeters shall be a drape-type.

#### 第 69 條 供反撥預防裝置所設之反撥防止爪(以下簡稱反撥防止爪)及反撥防止輥(以下 簡稱反撥防止輥),應符合下列規定:

一、材料:符合國家標準 CNS 2473「一般結構用軋鋼料」規定 SS400 規格或具 有同等以上機械性質之鋼料。

### 二、構造:

- (一) 反撥防止爪及反撥防止輥,應依加工材厚度,具有可防止加工材於圓鋸 片斜齒側撥升之機能及充分強度。但具有自動輸送裝置之圓盤鋸之反撥防 止爪,不在此限。
- (二) 具有自動輸送裝置之圓盤鋸反撥防止爪,應依加工材厚度,具有防止加 工材反彈之機能及充分強度。
- 三、反撥防止爪及反撥防止輥之支撐部,具有可充分承受加工材反彈時之強度。
- 四、除自動輸送裝置之圓盤鋸外,圓鋸片直徑超過四百五十毫米之圓盤鋸,使用 反撥防止爪及反撥防止輥等以外型式之反撥預防裝置。

#### Article 69

An anti-kickback preventive claw for an anti-kickback device (hereinafter referred to as the anti-kickback preventive claw) or an anti-kickback preventive roll (hereinafter referred to as the anti-kickback preventive roll) shall meet the following provisions:

- 1. Material: It is in accordance with the SS400 set the national standard CNS 2473 " the general- structure-using rolled steel " or the equivalent or others having more mechanical properties.
- 2. Construction:
- (1) The anti-kickback preventive claw or the anti-kickback preventive roll shall have the function to prevent processing material from lifting on the slope tooth side of the blade and be enough strength based on the wood-piece thickness but it is unrestricted for the anti-back preventive claw with an automatic feed device.
- (2) For the anti-back preventive claw with an automatic feed device, it shall have function to prevent processing material kickback and be enough strength based on the wood-piece thickness.
- 3. The support of the anti-back preventive claw or the anti-kickback preventive roll

shall have sufficient strength against the processing material bounce. 4. Except the circular saw with an automatic feed device, the anti-kickback preventive device with the diameter over 450 millimeters shall use that neither the anti-kickback preventive claw nor the anti-kickback preventive roll. 第 70 條 圓盤鋸之鋸齒接觸預防裝置,應符合下列規定: 一、櫹浩: (一)鋸齒接觸預防裝置使用於攜帶式圓盤鋸以外者,其覆蓋下端與輸送加工材 可經常接觸之方式者(以下簡稱可動式),覆蓋須具有可將相對於鋸齒撐 縫片部分與加工材鋸切中部分以外之其他部分充分圍護之構造。 (二)可動式鋸齒接觸預防裝置以外之鋸齒接觸預防裝置,其使用之覆蓋具有將 相對於鋸齒撐縫片部分與輸送中之加工材頂面八毫米以外之其他部分充 分圍護,且無法自其下端鋸台面調整升高二十五毫米以上之構造。 (三)前二目之覆蓋,具有使輸送加工材之操作者視線可見鋸齒鋸斷部分之構造。 二、前款覆蓋之鉸鏈部螺栓、銷等,具有防止鬆脫之性能。 三、支撐部分具有可調整覆蓋位置之構造;其強度可充分支撐覆蓋;支撐有關之 軸及螺栓具有防止鬆脫之性能。 四、攜帶式圓盤鋸之鋸齒接觸預防裝置: (一)覆蓋:可充分將鋸齒鋸切所需部分以外之部分圍護之構造。且鋸齒於鋸切 所需部分之尺寸,具有將平板調整至圓鋸片最大切入深度之位置,圓鋸片 與平板所成角度置於九十度時,其值不得超過附圖一所定之值。 (二)固定覆蓋:具有使操作者視線可見鋸齒鋸斷部分之構造。 (三)可動式覆蓋: 1.鋸斷作業終了,可自動回復至閉止點之型式。 2.可動範圍內之任何位置無法固定之型式。 (四)支撐部:具有充分支撐覆蓋之強度。 (五)支撐部之螺栓及可動覆蓋自動回復機構用彈簧之固定配件用螺栓等,具有 防止鬆脫之性能。 Article 70 The teeth-contact preventive device for the circular saw shall meet the following provisions: 1. Construction: (1) Except the teeth-contact preventive device for a portable circular saw, a cover that lower-end always contacts with fed wood-piece in the teeth-contact preventive device (hereinafter referred to as the movable teeth-contact preventive device) shall have a construction being capable of guarding all excluding the teeth opposite the riving knife and the cutting portion of the wood-piece. (2) Except the teeth opposite the riving knife and the portion of 8 millimeters above the top of feeding wood-piece, the cover being not a movable teeth-contact

preventive device shall have a construction to guard all and cannot let the

- lower-end of the cover be adjusted over 25 millimeters above the saw table surface to intend use it.
- (3) The cover in the preceding two subparagraphs shall have a construction that the operator who is feeding the wood-piece can see the cutting portion of the saw blade.
- 2. Bolts, pins and others for the hinge portion of the cover related in the preceding subparagraph shall have function to prevent loosening.
- 3. The support portion of the teeth-contact preventive device have the construction to adjust the cover position and enough strength to support the cover. Preventing loosing or dropping out shall be applied to the shaft and bolts of the support portion.
- 4. The teeth- contact preventive device for the portable circular saw:
- (1) The cover: It has the construction to guard the portion except the cutting necessary portion. In the state, the necessary sizes for the saw blade cutting shall be not over the value in Attachment figure 1 when the surface plate is adjusted to the most cutting depth and the angle between the surface plate and the saw blade is 90 degrees.
- (2) Fixed-cover: It has a construction to let the operator see the cutting portion.
- (3) Movable cover:
- a. When cutting work is finished, it comes back to the closure point automatically.
- b. It cannot be fixed at any position in the movement range.
- (4) The support portion: It has sufficient strength to support the cover.
- (5) Preventing loosing or dropping out shall be applied to the bolts in the support portion and the bolts to fix metal fittings of the springs in the movable automatically return cover.

#### 第 五 章 動力堆高機

#### Chapter V Power lift-trucks

| Chapter v rower int-trucks |   |
|----------------------------|---|
| 第 71 條                     | 以動力驅動、行駛之堆高機(以下簡稱堆高機),應依堆高機負荷狀態,具有在附  |
|                            | 表九規定之坡度地面而不致翻覆之前後安定度及左右安定度。但屬配衡型堆高機   |
|                            | 以外型式之堆高機者,不在此限。   |
| Article 71                 | A power driving lift- truck (hereinafter referred to as the lifttruck) except a           |
|                            | non-counter-balancer shall base on set in Attachment table 9 to have front- rear and      |
|                            | left-right stability without causing capsizing on the slope ground according to load      |
|                            | states.   |
| 第 72 條                     | 側舉型堆高機應依堆高機負荷狀態,具有在附表十規定之坡度地面而不致翻覆之   |
|                            | 前後安定度及左右安定度。  |
| Article 72                 | According to load states, a side loading lift-truck shall base on set in Attachment table |
|                            | 10 to have front- rear and left- right stability without causing capsizing on the slope   |

|            | ground according to load states.  |
|------------|---|
| 第 73 條     | 伸縮型堆高機及跨提型堆高機,應依堆高機負荷狀態,具有在附表十一規定之坡   |
|            | 度地面而不致翻覆之前後安定度及左右安定度。   |
| Article 73 | According to load status, a reach truck or a straddle truck shall have front- rear and      |
|            | left- right stability without causing capsizing on the slope ground according to            |
|            | attachment table 11.  |
| 第 74 條     | 窄道式堆高機應依堆高機負荷狀態,具有在附表十二規定之坡度地面而不致翻覆   |
|            | 之前後安定度及左右安定度。   |
| Article 74 | According to load states, a narrow lift-truck shall base on set in Attachment table 12      |
|            | to have front- rear and left- right stability without causing capsizing on the slope        |
|            | ground according to load states.  |
| 第 75 條     | 堆高機應具有制止運行及保持停止之制動裝置。   |
|            | 前項制止運行之制動裝置,應依堆高機負荷狀態及制動初速度,具有在附表十三   |
|            | 規定之停止距離內,使堆高機停止之性能。   |
|            | 第一項保持停止狀態之制動裝置,應依堆高機負荷狀態,具有在附表十四規定之   |
|            | 坡度地面,使堆高機停止之性能。但依堆高機性能,可爬坡之最大坡度低於同表   |
|            | 所列坡度者,以該堆高機可爬坡之最大坡度為準。  |
| Article 75 | The lift-truck shall have a braking device to stop running or keep stopping. According      |
|            | to lift-truck load states and initial braking speed, the braking device in the preceding    |
|            | paragraph shall have the function to stop running a lift-truck within a distance set in     |
|            | Attachment table 13.  |
|            | According to load states, a remaining-stop- state braking device in the first paragraph     |
|            | shall have the lift-truck stopped on the slope-ground set in table 14. But based on the     |
|            | lift-truck performance, its maximum slope climbing below that in the table, the             |
|            | former prevails.  |
| 第 76 條     | 堆高機應於其左右各設一個方向指示器。但最高時速未達二十公里之堆高機,其   |
| İ          | 操控方向盤之中心至堆高機最外側未達六十五公分,且機內無駕駛座者,得免設   |
|            | 方向指示器。  |
| Article 76 | The lift-truck shall have a left and right direction indicators. If it has a top speed less |
|            | than 20 kilometers, the distance between the center of the steering wheel and the           |
|            | outermost less than 65 centimeters, and no driver seat, it is exempt to set the direction   |
|            | indicator.  |
| 第 77 條     | 堆高機應設置警報裝置。   |
| Article 77 | The lift-truck shall have a warning device.   |
| 第 78 條     | 堆高機應設置前照燈及後照燈。但堆高機已註明限照度良好場所使用者,不在此   |
|            | 限。  |
| Article 78 | The lift-truck shall have headlamps and rear lamps except it has remarked only to be        |
|            | used in a good illumination place.  |

| 第 79 條     | 堆高機應設置符合下列規定之頂蓬。但堆高機已註明限使用於裝載貨物掉落時無  |
|------------|--|
|            | 危害駕駛者之虞者,不在此限:   |
|            | 一、頂蓬強度足以承受堆高機最大荷重之二倍之值等分布靜荷重。其值逾四公噸  |
|            | 者為四公噸。   |
|            | 二、上框各開口之寬度或長度不得超過十六公分。   |
|            | 三、駕駛者以座式操作之堆高機,自駕駛座上面至頂蓬下端之距離,在九十五公  |
|            | 分以上。   |
|            | 四、駕駛者以立式操作之堆高機,自駕駛座底板至頂蓬上框下端之距離,在一點  |
|            | 八公尺以上。   |
| Article 79 | The lift-truck shall have a head- guard meeting the following provisions except it has     |
|            | remarked only to be used in cargo loading and no hazard risk to the driver when the        |
|            | load dropped.  |
|            | 1. The head-guard is strong enough to withstand the twice values of the lift-truck         |
|            | maximum load in static load distribution. The maximum load is taken by 4 tons if           |
|            | it is over 4 tons.   |
|            | 2. The width or length of the upper openings is not over 16 centimeters.                   |
|            | 3. If a lift-truck operation is by means of a driver- siting, the distance between the top |
|            | of the seat and the bottom of the head guard should be over 95 centimeters.                |
|            | 4. If the lift-truck operation is by means of a driver standing, the distance between the  |
|            | floor of the seat and the bottom of the upper frame of the head guard should be            |
|            | over 1.8 meters.   |
| 第 80 條     | 堆高機應設置後扶架。但堆高機已註明限使用於將桅桿後傾之際貨物掉落時無引  |
|            | 起危害之虞者,不在此限。   |
| Article 80 | The lift-truck shall have a rear supporting frame except it has been remarked only to      |
|            | be used in the case without causing a dangerous risk even its mast is backward tilt and    |
|            | loads falling.   |
| 第 81 條     | 堆高機之液壓裝置,應設置防止液壓超壓之安全閥。  |
| Article 81 | Hydraulic device in the lift-truck shall have an over-pressure safety valve.               |
| 第 82 條     | 堆高機之貨叉、柱棒等裝載貨物之裝置(以下簡稱貨叉等),應符合下列規定:  |
|            | 一、材料為鋼材,且無顯著損傷、變形及腐蝕者。   |
|            | 二、在貨叉之基準承重中心加以最大荷重之重物時,貨叉所生應力值在該貨叉鋼  |
|            | 材降伏強度值之三分之一以下。   |
|            | 產製或輸入堆高機,非屬新製品,且其既有貨叉符合國際標準 ISO 5057 規定者,  |
|            | 得不受前項第二款之限制。   |
| Article 82 | Fork, ram and others to load goods (hereinafter referred to as the fork) of a forklift     |
|            | truck shall meet the following requirements:   |
|            | 1. There is no significant damage, deformation or corrosion if the material is steel.      |
|            | 2. The stress in the fork shall be below one third of the yield strength of steel used in  |
|            | 1 , , ,  |

|                   | the fork, when the maximum load is put in the base-load center.                         |
|-------------------|---|
|                   | Forklift trucks, which are not new and of which the forks comply with ISO 5057, may     |
|                   | not be subject to the restrictions stated in the subparagraph 2 of the preceding        |
|                   | paragraph.  |
| 第 83 條            | 堆高機裝卸裝置使用之鏈條,其安全係數應在五以上。  |
|                   | 前項安全係數為鏈條之斷裂荷重值除以加諸於鏈條荷重之最大值所得之值。   |
| Article 83        | A safety factor for chains used by the loading and unloading device of the lift-truck   |
|                   | shall be over 5.  |
|                   | The safety factor in the preceding paragraph gets from the breaking load of the chain   |
|                   | divided by the maximum load imposed on it.  |
| 第 84 條            | 駕駛座採用升降方式之堆高機,應於其駕駛座設置扶手及防止墜落危險之設備。   |
|                   | 使用座式操作之堆高機,應符合下列規定:   |
|                   | 一、駕駛座應使用緩衝材料,使其於走行時,具有不致造成駕駛者身體顯著振動   |
|                   | 之構造。  |
|                   | 二、配衡型堆高機及側舉型堆高機之駕駛座,應配置防止車輛傾倒時,駕駛者被   |
|                   | 堆高機壓傷之安全帶、護欄或其他防護設施。  |
| Article 84        | Where the forklift truck is equipped with a driver seat in a lifting manner, an armrest |
|                   | and a fall prevention device shall be provided.   |
|                   | Forklift truck operated by driver-sitting shall comply with the following requirements: |
|                   | 1. The seat cushion shall be made of shock-absorption materials to prevent significant  |
|                   | vibration of the body of the driver when the truck is moving.                           |
|                   | 2. The driver seat of a counter-balance type forklift truck and side loading type       |
|                   | forklift truck shall be equipped with safety belts, guard rails or other protective     |
|                   | devices that prevent the driver from crushing when the truck falls.                     |
| 第六章研磨機            | 、 研磨輪   |
| Chapter VI Grinde | ers and grinding wheels   |
| 第 85 條            | 研磨機之研磨輪,應具有下列性能:  |
|                   | 一、平直形研磨輪、盤形研磨輪、彈性研磨輪及切割研磨輪,其最高使用周速度,  |
|                   | 以製成該研磨輪之結合劑製成之樣品,經由研磨輪破壞旋轉試驗定之。   |
|                   | 二、研磨輪樣品之研磨砂粒,為鋁氧(礬土)質系。   |
|                   | 三、平直形研磨輪及盤形研磨輪之尺寸,依附表十五所定之值。  |
|                   | 四、第一款之破壞旋轉試驗,抽取試樣三個以上或採用同一製造條件依附表十五   |
|                   | 所定尺寸製成之研磨輪樣品為之。以各該破壞旋轉周速度值之最低值,為該   |
|                   | 研磨輪樣品之破壞旋轉周速度值。   |
|                   | 五、使用於粗磨之平直形研磨輪以外之研磨輪,以附表十六所定普通使用周速度   |
|                   | 限度以內之速度(以下簡稱普通速度),供機械研磨使用者,其最高使用周   |
|                   | 速度值,應在前款破壞旋轉周速度值除以一點八所得之值以下。但超過附表   |
|                   | 十六表所列普通速度之限度值者,為該限度值。   |

- 六、除第五款所列研磨輪外,第一款研磨輪最高使用周速度值,應在第四款破壞 旋轉周速度值除以二所得之值以下。但於普通速度下使用者,其值超過附表 十六所定普通速度之限度值時,為該限度值。
- 七、研磨輪之最高使用周速度值,應依附表十七所列之研磨輪種類及結合劑種 類,依前二款規定之平直形研磨輪所得之最高使用周速度值乘以 附表十七 所定數值所得之值以下。但環片式研磨輪者,得由中央主管機關另定之。

#### Article 85

A grinding wheel shall have the following functions:

- A highest using peripheral speed for a straight grinding wheel, a dish grinding
  wheel, an elastic grinding wheel or a cutting- off grinding wheel shall be
  prescribed with models made by each of its bonder through a grinding wheel
  rotation-breaking test.
- 2. The grain of models shall be an aluminum oxide (alumina) series.
- 3. Sizes of the straight grinding wheel or the dish grinding wheel shall base on Attachment table 15.
- 4. For the grinding wheel rotation-breaking test in the subparagraph 1, it shall take over three models or samples processed in same conditions and having sizes based on Attachment table 15. The minimum rotation-breaking peripheral velocity in the tested models or samples shall be concerned as the rotation breaking peripheral velocity of the models or samples.
- 5. Except the straight grinding wheel for rough grinding, the highest using peripheral velocity of a grinding wheel for mechanical grinding with a normal using peripheral velocity (hereinafter referred to as the normal velocity) set in Attachment table 16 shall be below the value get from the rotation-breaking peripheral velocity in the preceding subparagraph 1 divided by 1.8, but the value is over the limit of the normal velocity listed in Attachment table 16, the limit is concerned.
- 6. Except grinding wheels in the subparagraph 5, the highest using peripheral velocity of the grinding wheel in the subparagraph 1 shall be below the value get from the rotation breaking peripheral velocity in the subparagraph 4 divided by 2, but it is over the limit velocity set in Attachment table 16 for that using in lower normal velocity, the limit velocity is concerned.
- 7. According to the type of the grinding wheel and kind of bonder, the highest using peripheral velocity of the grinding wheel shall be below the value get from the highest using peripheral velocity of the straight grinding wheel set in the preceding subparagraph 2 multiplied by the value set in Attachment table 17, but it can be prescribed by the central authority for a segment type.

#### 第 86 條

直徑在一百毫米以上之研磨輪,每批製品應具有就該研磨輪以最高使用周速度值 乘以一點五倍之速度實施旋轉試驗合格之性能。

前項試驗用研磨輪,應取其製品數之百分之十以上;其值未滿五個時,為五個: 實施前項旋轉試驗,試驗之研磨輪全數無異常時,該批製品為合格;異常率在百 分之五以下時,除異常之研磨輪外,該批其他製品視為合格。但顯有異常之製品, 得不列入研磨輪試驗數。 研磨輪應於不超過一個月之一定期間,實施第四項之定期破壞旋轉試驗,經試驗 合格之研磨輪,得免除第一項之旋轉試驗;經定期破壞旋轉試驗未能合格之研磨 輪,應依第二項規定處理。 對三個以上使用同種結合劑在普通速度下供研磨用之研磨輪,於實施定期破壞旋 轉試驗時,其破壞旋轉周速度之最低值,供粗磨以外之機械研磨時,為最高使用 周速度乘以一點八所得之值;其他研磨輪為最高使用周速度乘以二所得之值,就 使用該結合劑於供普通速度下使用之研磨輪製品,均視為合格。 Article 86 Each lot of the grinding wheel with the diameter over 100 millimeters shall be taken a rotation test by the velocity which is the highest using peripheral velocity of that wheel multiplied by 1.5. The grinding wheel for testing in the preceding paragraph shall be taken over 10 percent of that products. For a number below five, the five is concerned. If all tested grinding wheels are normal, the lot is qualified. If abnormal rate below 5 percent, the others of the lot are qualified except the abnormal grinding wheels. However, significantly abnormal products cannot be included in the number of that test. Grinding wheels shall implement a regular rotation-breaking test following the next paragraph. The qualified wheels can example the rotation test in the first paragraph. Failed grinding wheels in the regular rotation-breaking test shall be treated according to the second paragraph. The regular rotation-breaking test is implemented by taking more than three grinding wheels having the same kind of bonder and being used in the normal velocity. If the minimum rotation breaking peripheral velocity get from the test is over the highest using velocity multiplied by 1.8 in case of machine grinding except coarse grinding, or over that multiplied by 2 in case of other grinding, those products having this kind of bonder and being used in normal velocity are qualified. 第 87 條 盤形研磨輪應就每種同一規格之製品,實施衝擊試驗。但彈性研磨輪,不在此限。 前項衝擊試驗,應分別就二個以上研磨輪,以附圖二及附表十八所定之衝擊試驗 機,向相對之二處施以九十八焦耳之衝擊。但直徑未滿七十毫米之研磨輪,得以 直徑七十毫米之同一規格研磨輪樣品為之。 在衝擊試驗測得之衝擊值中最低數值,依研磨輪厚度及直徑,每平方毫米零點零 二九七焦耳以上者,與該衝擊試驗相關規格之製品均視為合格。 前項衝擊值,依附表十九所列公式計算。 Article 87 Except the elastic grinding wheel, an impact test for the dish grinding wheel shall be

| implemented for each kind of specifications. The impact test in the preceding paragraph shall be taken two or more grinding wheels by impacting at two opposite points for each wheel with a 98J value as in Attachment figure 2 and Attachment table 18. For grinding wheels with a diameter not exceeding 70 millimeters, the test may be performed on grinding wheels with 70-millimeter diameter of the same type.  If the minimum value get from the impact test is beyond 0.0297J per square millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條 研磨輸之尺寸、應低研磨輸之最高使用周速度及研磨輸種類,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 研磨輸上應使用符合第九十條至第九十四條所定規格之緣盤。但附表二十一所定之研磨輸種類,於使用可表規定之安裝器具者、不在此限。  固定側或移動側之緣盤。應以避免相對於研磨輸制面接轉之固定方式。固定於研磨輸輸上:其研磨輸輸之固定用付持緣,應具有適度緩緊狀態。以平直形研磨輸上之其研磨輸型之固定均式。固定於研磨輸制上,其可能輸動之固定力式。固定於研磨物量上,其研磨物量之固定的或的性的。如此的数量,以可能够可能够更,應使用核聚製墊片。  Article 89 The grinding wheel shall use the flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shaft with the fixtures that should avoid rotation relative to the grinding wheel shaft with the fixtures that should avoid rotation relative to the grinding wheel shaft. Their fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness. When the grinding wheel is mounted on the grinding machine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 綠盤應使用具有相當於國家便及多数發展,在國家便及多数多數,在國家便及多數,在國家的企業的企業的企業的企業的企業的企業的企業的企業的企業的企業的企業的企業的企業的                          |            | T  |
|---|------------|--|
| wheels by impacting at two opposite points for each wheel with a 981 value as in Attachment figure 2 and Attachment table 18. For grinding wheels with a diameter not exceeding 70 millimeters, the test may be performed on grinding wheels with 70-millimeter diameter of the same type.  If the minimum value get from the impact test is beyond 0.0297J per square millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  ### 88 ### ### ### ### ### ### ### ###  |            | implemented for each kind of specifications.   |
| Attachment figure 2 and Attachment table 18. For grinding wheels with a diameter not exceeding 70 millimeters, the test may be performed on grinding wheels with 70-millimeter diameter of the same type.  If the minimum value get from the impact test is beyond 0.02971 per square millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條   |            | The impact test in the preceding paragraph shall be taken two or more grinding           |
| not exceeding 70 millimeters, the test may be performed on grinding wheels with 70-millimeter diameter of the same type.  If the minimum value get from the impact test is beyond 0.0297J per square millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條 伊磨翰之尺寸,應依研磨翰之最高使用周速度及研磨翰锺斯,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 伊蔣翰一應使用符合第九十條至第九十四條所定規格之緣盤。但附表二十一所定之研磨輔種類、於使用同表規定之安裝器具者,不在此限。固定制度移動側之緣盤。應以授免相對於研磨輔軸面旋轉之固定方式。固定於研磨輔軸上:並研磨輔軸之固定担件螺絲,應具有通度鋼浆狀態。以平直形研磨輔由之一型全緣盤,將研磨輔之裝於研磨機時,應使用橡膠製墊片。  Article 89 The grinding wheel shall we flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shalf with the fixtures that should avoid rotation relative to the grinding wheel shalf with the fixtures that should avoid rotation relative to the grinding wheel shalf. Their fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness. When the grinding wheel is mounted on the grinding machine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 緣盤應使用具有相當於國家標準CNS 2472「灰田鐵錦件」所定 FCI50 鐵錦件之 抗粒線度之材料,且不致變形者。緣盤之直徑及接觸逆度,在固定侧膜移動側上應等值。但第九十四條附圓三所定之緣盤、不在此限。  The material of the flange shall have the equivalent tensile strength to FCI50 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3. |            | wheels by impacting at two opposite points for each wheel with a 98J value as in         |
| 70-millimeter diameter of the same type.  If the minimum value get from the impact test is beyond 0.0297J per square millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條 研磨輸之尺寸,應依研磨輸之最高使用周速度及研磨輸種類,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 研磨輸企廠使用符合第九十條至第九十四條所定規格之緣盤。但附表二十一所定之研磨輸種類,於使用同表規定之安裝器具者,不在此限。固定制度移動側之緣盤,應以避免相對於伊藤輔維而旋轉之固定方式。固定於研磨輸輸上、主进研磨輸輸之固定担件螺絲,應具有適度複聚状態。以平直形研磨輸相工。安全系線,將研磨輸之裝於研磨機時,應使用橡膠製墊片。  Article 89 The grinding wheel shall use the flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shaft with the fixtures that should avoid rotation relative to the grinding wheel shaft. Their fastening bolts on the shaft of the grinding wheel shall we of an appropriate tightness. When the grinding wheel is mounted on the grinding machine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 綠盤應使用具有相當於國家標準 CNS 2472「灰口鐵鑄件」所定 PC150 徽鑄件之 抗边頭度之材料,且不致變形者。 綠盤之直徑及按觸寬度,在固定侧與移動側均應等值,但第九十四條附圓三所定之終盤,不在此限。  The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | Attachment figure 2 and Attachment table 18. For grinding wheels with a diameter         |
| If the minimum value get from the impact test is beyond 0.0297J per square millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條 研磨輸之尺寸,應依研磨輸之最高使用周速度及研磨輸租類,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 研磨輸」應使用符合第九十條至第九十四條所定規格之緣盤。但附表二十一所定之研磨輪賴」,於使用同表規定之安裝器具者,不在此限。 固定側或移動側之緣盤,應以避免相對於研磨輪軸而旋轉之固定方式。固定於研磨輪軸上:其研磨輪軸之固定担件螺絲,應具有適度鎖緊狀態。以平直形研磨軸用之安全緣盤,將研磨輪安裝於研磨機時,應使用橡膠製墊片。  Article 89 The grinding wheel shall use the flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shaft. Their fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness. When the grinding wheel is mounted on the grinding machine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 緣監應使用具有相當於國家標準 CNS 2472「灰口鐵鑄件」所定 FC150 鐵鑄件之抗拉強度之材料,且不致變形者。 緣監定直接及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定之緣盤,不在此限。  The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed-side and the moving-side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | not exceeding 70 millimeters, the test may be performed on grinding wheels with          |
| millimeter according to the thickness and diameter of the tested grinding wheel, products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條 研磨輸之尺寸,應依研磨輸之最高使用周速度及研磨輪種類,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 研磨輸一應使用符合第九十條至第九十四條所定規格之緣盤。但附表二十一所定之研磨輪種類,於使用同表規定之安裝器具著,不在此限。固定側或移動側之緣盤。應以避免相對於研磨輪面旋轉之固定方式。固定於研磨輪軸上:其研磨輪軸之固定扣件螺絲,應具有適度鎖緊狀態。以平直形研磨輪且之安全緣盤,將研磨輪安裝於研磨機時,應使用橡膠製墊片。  Article 89 The grinding wheel shall use the flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shaft. Their fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness. When the grinding wheel is mounted on the grinding machine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 緣盤應使用具有相當於國家標準 CNS 2472「灰口鐵續件」所定 FC150 鐵鑄件之抗拉強度之材料,且不致變形者。緣盤之直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed-side and the moving-side shall be equal except the flange set in Article 94, Attachment figure 3.  |            | 70-millimeter diameter of the same type.   |
| products of the same specification as that under test shall be deemed compliance. The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 係  |            | If the minimum value get from the impact test is beyond 0.0297J per square               |
| The impact test value shall be calculated in accordance with the formulas stated in Attachment table 19.  第 88 條 研磨輸之尺寸,應依研磨輸之最高使用周速度及研磨輸種類,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 研磨輸,應使用符合第九十條至第九十四條所定規格之緣盤。但附表二十一所定之研磨輪種類,於使用同表規定之安裝器具者,不在此限。固定側或移動側之緣盤。應以避免相對於研磨輪車面旋轉之固定方式,固定於研磨輪軸上;其研磨輪軸之固定扣件螺絲。應具有複度鎖緊狀態。以平直形研磨輪用之安全緣盤,將研磨輪安裝於研磨機時,應使用橡膠製墊月。  Article 89 The grinding wheel shall use the flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shaft with the fixtures that should avoid rotation relative to the grinding wheel shaft. Their fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness. When the grinding wheel is mounted on the grinding machine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 緣盤應使用具有相當於國家標準 CNS 2472「灰口鐵鑄件」所定 FC150 鐵鑄件之 抗拉強度之材料,且不致變形者。 緣盤之直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed-side and the moving-side shall be equal except the flange set in Article 94, Attachment figure 3.  |            | millimeter according to the thickness and diameter of the tested grinding wheel,         |
| Attachment table 19.  第 88 條  |            | products of the same specification as that under test shall be deemed compliance.        |
| 第 88 條 研磨輪之尺寸,應依研磨輪之最高使用周速度及研磨輪種類,具有附表二十所定之值。  Article 88 The sizes of the grinding wheel based on its highest using peripheral velocity and type shall have values in accordance with listed in Attachment table 20.  第 89 條 研磨輪、應使用符合第九十條至第九十四條所定規格之錄盤。但附表二十一所定之研磨輪種類,於使用同表規定之安裝器具者,不在此限。固定側或移動側之緣盤,應以避免相對於研磨輪軸而旋轉之固定方式,固定於研磨輪柱上;其研磨輪相之固定扣件螺絲,應具有適度鎖緊狀態。以平宣形研磨輪用之安全錄盤,將研磨輪安裝於研磨機時,應使用橡膠製墊月。  Article 89 The grinding wheel shall use the flanges in accordance with the specifications set in the Article 90 through 94 but those restrictions do not apply to those using the mounting tools set in attachment table 21.  The fixed- and movable-side flange shall be fixed on the grinding wheel shaft. Their fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness.  When the grinding wheel is mounted on the grinding wachine with a safety flange usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 終盤應使用具有相當於國家標準でNS 2472「灰口鐵鑄件」所定 FC150 鐵鑄件之抗粒強度之材料,且不致變形者。 緣盤定直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed-side and the moving-side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | The impact test value shall be calculated in accordance with the formulas stated in      |
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| PS 等 M  |            | 之研磨輪種類,於使用同表規定之安裝器具者,不在此限。   |
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| usually used by a straight grinding wheel, it shall use rubber-labels.  第 90 條 緣盤應使用具有相當於國家標準 CNS 2472「灰口鐵鑄件」所定 FC150 鐵鑄件之 抗拉強度之材料,且不致變形者。 緣盤之直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定 之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.  |            | fastening bolts on the shaft of the grinding wheel shall be of an appropriate tightness. |
| 第 90 條  |            | When the grinding wheel is mounted on the grinding machine with a safety flange          |
| 抗拉強度之材料,且不致變形者。 缘盤之直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.  |            | usually used by a straight grinding wheel, it shall use rubber-labels.                   |
| 緣盤之直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.  | 第 90 條     | 緣盤應使用具有相當於國家標準 CNS 2472「灰口鐵鑄件」所定 FC150 鐵鑄件之  |
| 之緣盤,不在此限。  Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | 抗拉強度之材料,且不致變形者。  |
| Article 90 The material of the flange shall have the equivalent tensile strength to FC150 cast irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.  |            | 緣盤之直徑及接觸寬度,在固定側與移動側均應等值。但第九十四條附圖三所定  |
| irons set in the national standard CNS 2472 "gray iron castings" and withstand distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | 之緣盤,不在此限。  |
| distortion.  The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.  | Article 90 | The material of the flange shall have the equivalent tensile strength to FC150 cast      |
| The diameter and the contact width of the grinding wheel in the fixed- side and the moving- side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | irons set in the national standard CNS 2472 "gray iron castings" and withstand           |
| moving- side shall be equal except the flange set in Article 94, Attachment figure 3.   |            | distortion.  |
|   |            | The diameter and the contact width of the grinding wheel in the fixed- side and the      |
| 第 91 條 直式緣盤之直徑,應在擬安裝之研磨輪直徑之三分之一以上;間隙值應在一點五  |            | moving- side shall be equal except the flange set in Article 94, Attachment figure 3.    |
| -   | 第 91 條     | 直式緣盤之直徑,應在擬安裝之研磨輪直徑之三分之一以上;間隙值應在一點五  |

|              | 毫米以上;接觸寬度,應依研磨輪直徑,具有附表二十二所定之值。  |
|--------------|---|
|              | 安裝於最高使用周速度在每分鐘四千八百公尺以下,經補強之切割研磨輪,其使   |
|              | 用抗拉強度在每平方毫米七十一公斤以上之玻璃纖維絲網或其他同等強度之材  |
|              | 料補強者,該切割研磨輪之直式緣盤之直徑,得為該研磨輪直徑之四分之一以  |
|              | 上,不受前項規定之限制。  |
| A .: 1 . 0.1 |   |
| Article 91   | The diameter of the straight flange shall be more than one third of the diameter of the |
|              | grinding wheel to be mounted, a clearance be more than 1.5 millimeters and the          |
|              | contact width based on the diameter of the wheel be the value as shown in Attachment    |
|              | table 22.   |
|              | If the flange sets on the cutting-off grinding wheel which has the highest using        |
|              | peripheral velocity below 80 meters per second and which is reinforced by means of      |
|              | glass-cloth material with tensile strength over 71 kilograms or other equivalents, then |
|              | the diameter of the straight flange for that wheel can be over one fourth of the        |
|              | diameter of that wheel regardless of the provisions in the preceding paragraph.         |
| 第 92 條       | 套式緣盤或接頭式緣盤之直徑,應依下列計算式計算所得之值:  |
|              | $D f \ge K(D-H) + H$  |
|              | 式中,Df、D、H及K值如下:   |
|              | D f : 固定緣盤之直徑 (單位:毫米)   |
|              | D : 研磨輪直徑 (單位:毫米)   |
|              | H : <u>研磨輪</u> 孔徑 (單位:毫米)   |
|              | K :常數,依附表二十三規定。   |
|              | 前項緣盤之接觸寬度,應依研磨輪直徑,不得低於附表二十四所定之值。  |
|              | 接頭式緣盤,不得安裝於使用速度逾普通速度之研磨輪。   |
| Article 92   | The diameter of a sleeve or an adaptive flange shall be calculated according to the     |
|              | following formula:  |
|              | $Df \ge K(D-H) + H$   |
|              | Where: Df, D, H, and K are as follows:  |
|              | Df: diameter of the fixed- flange (millimeters)   |
|              | D: diameter of the grinding wheel (millimeters)   |
|              | H: inner diameter of the grinding wheel (millimeters)                                   |
|              | K: constant according to the rules in attachment table 23.                              |
|              | The contact width in the preceding paragraph shall be in accordance with the diameter   |
|              | of the grinding wheel and not less than that given in attached table 24.                |
|              | The adapting flange shall not be set on the grinding wheel with a usable velocity       |
|              | higher than a normal velocity.  |
| 第 93 條       | 安全式緣盤之直徑,於供平直形研磨輪使用者,應在所裝研磨輪直徑之三分之二   |
|              | 以上;供雙斜形研磨輪使用者,應在所裝研磨輪直徑之二分之一以上。   |
|              | 前項緣盤之間隙值,應在一點五毫米以上;接觸寬度應在該緣盤直徑之六分之一   |
|              | N3 大学型人国外区    心区    地址毛小公上,1头周克/又15位的沙型区区人门人  |

|            | 以上。   |
|------------|---|
|            | 雙斜形研磨輪用緣盤與研磨輪之接觸面,應有十六分之一以上之斜度。   |
| Article 93 | The diameter of the safety flange using on the straight grinding wheel shall be over  |
| Article 93 | two thirds of the grinding wheel being mounted and on the tapered two-sides grinding  |
|            | wheel shall be over a half of that.   |
|            |   |
|            | The clearance of the flange in the preceding paragraph shall be over 1.5 millimeters  |
|            | and the contact width be over one sixth of the diameter of that flange.               |
|            | The contact face between the tapered two sides flange and the grinding wheel shall    |
|            | have taper over one sixteenth.  |
| 第 94 條     | 供盤形研磨輪使用之緣盤之形狀如附圖三及附圖四者,該緣盤之尺寸應依盤形研   |
|            | 磨輪直徑,具有附表二十五及附表二十五之一所定之值。   |
| Article 94 | The sizes of the flange with a form as shown in Attachment figure 3 or figure 4 and   |
|            | used for the dish grinding wheel shall be the values in Attachment table 25 or table  |
|            | 25(1).  |
| 第 95 條     | 研磨機之研磨輪,應設置護罩,並具有第九十六條至第一百零四條所定之性能。   |
|            | 但依國家標準 CNS 16089 附錄 A 設置安全防護裝置者,不在此限。   |
| Article 95 | The grinding wheel shall be fitted with a guard with the functions in Article 96      |
|            | through Article 104. However, when the safety protection devices are set up in        |
|            | accordance with the national standard CNS 16089 Appendix A, they are not required     |
|            | to comply with the requirements of the preceding paragraph of this Article.           |
| 第 96 條     | 研磨輪護罩之材料,應使用具有下列所定機械性質之壓延鋼板:  |
|            | 一、抗拉強度值在每平方毫米二十八公斤以上,且延伸值在百分之十四以上。  |
|            | 二、抗拉強度值(單位:公斤/平方毫米) 與延伸值 (單位:百分比) 之兩倍之和,  |
|            | 在七十六以上。   |
|            | 攜帶用研磨機之護罩及帶狀護罩以外之護罩,應依研磨輪最高使用周速度,使用   |
|            | 附表二十六所定之材料,不受前項規定之限制。   |
|            | 切割研磨輪最高使用周速度在每分鐘四千八百公尺以下者,其使用之護罩材料,   |
|            | 得使用抗拉強度在每平方毫米十八公斤以下,且延伸值在百分之二以上之鋁,不   |
|            | 受前二項規定之限制。  |
| Article 96 | The material of the grinding wheel guard shall use rolled steel with the following    |
|            | mechanical properties:  |
|            | 1. Tensile strength being over 28 kilograms per millimeter square and elongation over |
|            | 40 percents.  |
|            | 2. The sum of the tensile strength (unit: kg / mm2) and the value of the twice        |
|            | elongation (unit: percent) being over seventy six.                                    |
| 1          |   |
|            | The material for a portable grinder guard or a non-band guard shall be that based on  |
|            | The material for a portable grinder guard or a non-band guard shall be that based on  |
|            |   |

|            | The material of the guard for the cutting-off grinding wheel with the highest using      |
|------------|--|
|            | peripheral velocity below 80 meters per second can use aluminum with tensile             |
|            | strength below 18 kilograms per millimeter square and elongation over 2 percent          |
|            | regardless of restrictions in the two preceding paragraphs.                              |
| 第 97 條     | 研磨輪之護罩,應依下列規定覆蓋。但研磨輪供研磨之必要部分者,不在此限:  |
|            | │<br>│ 一、使用側面研磨之研磨輪之護罩:研磨輪周邊面及固定側之側面。  |
|            | <br>  二、前款護罩以外之攜帶用研磨機之護罩,其周邊板及固定側之側板使用無接縫  |
|            | <br>  之單片壓延鋼板製成者:研磨輪之周邊面、固定側之側面及拆卸側之側面,  |
|            | 如附圖五所示之處。但附圖五所示將周邊板頂部,有五毫米以上彎弧至拆卸  |
|            | 側上且其厚度較第九十九條第一項之附表二十九所列之值增加百分之二十   |
|            | 以上者,為拆卸側之側面。   |
|            | 三、前二款所列護罩以外之護罩:研磨輪之周邊、兩側面及拆卸側研磨輪軸之側  |
|            | 面。   |
|            | 前項但書所定之研磨輪供研磨之必要部分,應依研磨機種類及附圖六之規定。   |
| Article 97 | Except a grinding necessary portion, the guard shall base on the following provisions    |
|            | to cover:  |
|            | 1. For the side-grinding wheel: covering the peripheral surface and the outside of       |
|            | fixed-side.  |
|            | 2. For a portable grinding wheel guard except that in the preceding subparagraph: If     |
|            | the peripheral plate and the fixed side plate are made of a piece of rolled steel        |
|            | with seamless, then the peripheral surface of that wheel, the outside of the             |
|            | fixed-side and the outside of the removing-side as shown in figure. 5 shall be           |
|            | covered. If the end of the peripheral plate is bent toward the removing-side by 5        |
|            | millimeters as shown in Attachment figure 5 and its thickness is over that shown         |
|            | in Article 23(1) by 20 percentage, then the guard for the outside of the                 |
|            | removing-side can be exempted.   |
|            | 3. Besides the guards in the two preceding subparagraph: The peripheral surface, the     |
|            | two sides including the side of the shaft end in the removing-side.                      |
|            | The grinding necessary portion in the preceding proviso shall base on the grinder type   |
|            | and provisions in the Attachment figure 6.   |
| 第 98 條     | 帶型護罩以外之使用壓延鋼板為材料之護罩,其厚度應依研磨輪最高使用周速   |
|            | 度、研磨輪厚度及研磨輪直徑,不得低於附表二十七所定之值。   |
|            | 護罩以鑄鐵、可鍛鑄鐵或鑄鋼為材料者,其厚度應依材料種類,在前項所定之厚  |
|            | 度值乘以附表二十八所定之係數所得之值以上。  |
| Article 98 | Except the band-type guard, the thickness of the guard that is made of rolled steel      |
|            | shall base on the highest using peripheral velocity of the grinding wheel, the thickness |
|            | and the diameter of that wheel to be the value no less than in Attachment table 27.      |
|            | Based on the type of material, the thickness of the guard that is made of cast iron,     |

|               | mallable iron or east steel shall be over the thickness set from the preceding            |
|---------------|---|
|               | malleable iron or cast steel shall be over the thickness get from the preceding           |
| <b>第 00 校</b> | paragraph multiplied by the coefficient in Attachment table 28.                           |
| 第 99 條        | 供盤形研磨輪及切割研磨輪以外之附表二十九所列研磨輪使用之護罩,其周邊板   |
|               | 與固定側之側板係使用無接縫之單片壓延鋼板製成者,該護單之厚度,應依研磨   |
|               | 輪之最高使用周速度、研磨輪厚度、研磨輪直徑,以護罩板之區分,具有附表二   |
|               | 十九規定之值,不受前條第一項規定之限制。  |
|               | 前項護罩之固定側之周邊板與拆卸側之側板採結合方式製成者,其拆卸側之側板   |
|               | 頂端,應具有附圖七所示之彎曲形狀。   |
| Article 99    | Except the dish grinding wheel or the cutting-off grinding wheel, the thickness of the    |
|               | guard that peripheral plate and fixed-side plate are made of a piece of seamless rolled   |
|               | steel shall base on the highest using peripheral velocity, the thickness of grinding      |
|               | wheel, the diameter of that wheel and the guard-plate type to be the value listed in      |
|               | Attachment table 29 regardless the restriction of the first paragraph in the preceding    |
|               | Article 98.   |
|               | The end of the removing- side plate in the preceding paragraph shall be bent as shown     |
|               | in the Attachment figure 7 if the construction of the peripheral plate in the fixed-side  |
|               | and the side plate in the removing- side is by means of a connection way.                 |
| 第 100 條       | 使用於直徑在二百三十毫米以下之盤形研磨輪之護罩,其周邊板與固定側側板使   |
|               | 用無接縫單片壓延鋼板製成者,該護罩之厚度,應依研磨輪厚度,不得低於附表   |
|               | 三十所定之值,不受第九十八條第一項規定之限制。   |
|               | 前項護罩之頂端部分,應具有附圖八所示之彎曲形狀。  |
| Article 100   | A guard using for the dish grinding wheel with a diameter below 230 millimeters, its      |
|               | thickness shall base on the thickness of that wheel no less than the value in             |
|               | Attachment table 30 regardless of the restriction of the first paragraph in the           |
|               | preceding Article 98 if its peripheral plate and fixed-side plate is made of a piece of   |
|               | seamless rolled steel.  |
|               | The top end of the guard shall be bent as shown in Attachment figure 8.                   |
| 第 101 條       | 於最高使用周速度在每分鐘四千八百公尺以下之切割研磨輪,使用壓延鋼板製作   |
|               | 之護罩,其厚度應依研磨輪厚度、研磨輪直徑及護罩板區分,具有附表三十一所   |
|               | 定之值,不受第九十八條第一項規定之限制。  |
|               | 使用鑄鐵、可鍛鑄鐵及鑄鋼等製成之護罩,供前項切割研磨輪使用者,其厚度準   |
|               | 用第九十八條第二項之規定。   |
|               | 使用鋁製成之護罩,供第一項切割研磨輪使用者,其厚度不得低於鋁之抗拉強度   |
|               | 值乘以附表三十二所定之係數所得之值。  |
| Article 101   | The thickness of the guard for the cutting-off grinding wheel with the highest using      |
|               | peripheral velocity below 80 meters per second and the guard being made of rolled         |
|               | steel shall base on the thickness and the diameter of that wheel and the guard-plate      |
|               | type to have the value listed in Attachment table 31 regardless of the restriction of the |
|               | 71  |

|             | first paragraph in the preceding Article 98.  |
|-------------|---|
|             | The thickness of the guard made of cast iron, malleable iron or cast steel for that   |
|             | wheel in the preceding paragraph, can correspond with Article 98 paragraph 2.         |
|             | The thickness of the guard made of aluminum for the cutting-off grinding wheel in     |
|             | the first paragraph shall be no less than that the tensile strength of aluminum       |
|             | multiplied by the coefficient in Attachment table 32.                                 |
| 第 102 條     | 帶型護罩之厚度,應依研磨輪直徑,不得低於附表三十三所定之值。  |
|             | 前項護罩之設置,應依附圖九之規定。   |
| Article 102 | The thickness for the band- type guard shall base on the diameter of the grinding     |
|             | wheel to be a value no less than that in Attachment table 33.                         |
|             | The setting of that guard shall base on Attachment figure 9.                          |
| 第 103 條     | 護罩不得有降低其強度之虞之孔穴、溝槽等。  |
| Article 103 | The guard shall have no holes, slots or others that will reduce its strength.         |
| 第 104 條     | 桌上用研磨機及床式研磨機使用之護罩,應以設置舌板或其他方法,使研磨之必   |
|             | 要部分之研磨輪周邊與護罩間之間隙可調整在十毫米以下。  |
|             | 前項舌板,應符合下列規定:   |
|             | 一、為板狀。  |
|             | 二、材料為第九十六條第一項所定之壓延鋼板。   |
|             | 三、厚度具有與護罩之周邊板同等以上之厚度,且在三毫米以上,十六毫米以下。  |
|             | 四、有效橫斷面積在全橫斷面積之百分之七十以上,有效縱斷面積在全縱斷面積   |
|             | 之百分之二十以上。   |
|             | 五、安裝用螺絲之直徑及個數,依研磨輪厚度,具有附表三十四所定之值。   |
| Article 104 | The guard for a bench grinder or a bed grinder shall have a tongue plate or other     |
|             | means to adjust the gap between the peripheral of grinding necessary portion and the  |
|             | guard to be below 10 millimeters.   |
|             | The tongue plate in the preceding paragraph shall meet the following provisions:      |
|             | 1. It is of a plate shape.  |
|             | 2. The material is rolled steel set in Article 96(1).                                 |
|             | 3. The thickness is equivalent or over that of the peripheral plate of the guard,     |
|             | moreover it shall be over 3 millimeters and below 16 millimeters.                     |
|             | 4. The effective cross-section area in the entire cross-section area shall be over 70 |
|             | percent and the effective vertical section area in the entire vertical-section be     |
|             | over 20 percent.  |
|             | 5. The diameter and number for mounting bolts shall base on the thickness of          |
|             | grinding wheel in Attachment table 34.  |
| 第 105 條     | 研磨機應設置不離開作業位置即可操作之動力遮斷裝置。   |
|             | 前項動力遮斷裝置,應易於操作,且具有不致因接觸、振動等而使研磨機有意外   |
|             | 起動之虞之構造。  |
|             | •••   |

| Article 105       | The grinder shall have a power blocking device that the operator can control it        |
|-------------------|--|
|                   | without leaving operating position.  |
|                   | The power blocking device in the preceding paragraph shall have a construction that    |
|                   | it is easily controlled and can prevent the unexpected starting of the grinder from    |
|                   | touching, vibrating or others.   |
| 第 106 條           | 使用電力驅動之攜帶用研磨機、桌上用研磨機或床式研磨機,應符合下列規定:  |
|                   | 一、電氣回路部分之螺絲,具有防止鬆脫之性能。   |
|                   | 二、充電部分與非充電金屬部分間之絕緣部分,其絕緣效力具有國家標準 CNS   |
|                   | 3265「手提電磨機」規定之絕緣性能。  |
|                   | 三、接地構造之設置,應符合國家標準 CNS 3265「手提電磨機」之接地規定。  |
| Article 106       | The portable grinder with power-driving, the bench grinder or the bed grinder shall    |
|                   | meet the following provisions:   |
|                   | 1. Screws in the electrical circuit can prevent loosing and dropping out.              |
|                   | 2. Insulating effectiveness between the charging part and non-charging metal part has  |
|                   | insulating performance set in national standard CNS 3265 "the electric portable        |
|                   | grinder."  |
|                   | 3. It has a dedicated ground terminal which shall be in compliance with that specified |
|                   | in CNS 3265 "the electric portable grinder."   |
| 第 107 條           | 桌上用研磨機或床式研磨機,應具有可調整研磨輪與工作物支架之間隙在三毫米  |
|                   | 以下之工作物支架。  |
| Article 107       | The bench grinder or the bed grinder shall have a worksupport that can be adjusted     |
|                   | the gap between the peripheral of grinding wheel and the worksupport to be below 3     |
|                   | millimeters.   |
| 第 108 條           | 攜帶用空氣式研磨機,應設置調速機。但研磨機之公稱尺寸未滿六十五毫米者,  |
|                   | 不在此限。  |
| Article 108       | A portable air-type grinder shall have a governor except the nominal size is below 65  |
|                   | millimeters.   |
| 第 109 條           | 直徑未滿五十毫米之研磨輪及其護罩,不適用本章之規定。   |
| Article 109       | The grinding wheel with the diameter below 50 millimeters and its guard do not be      |
|                   | applied to the provisions of this chapter.   |
| 第七章防止爆            | 上<br>作及感電危害設備<br>  |
| Chapter VII Explo | osion-proof and electroshock-proof equipment   |
| 第 110 條           | 用於氣體類之防爆電氣設備,其性能、構造、試驗、標示及危險區域劃分等,應  |
|                   | 符合國家標準 CNS 3376 系列、國際標準 IEC 60079 系列或與其同等之標準規定。  |
|                   | 前項國家標準 CNS 3376 系列與國際標準 IEC 60079 系列有不一致者,以國際標   |
|                   | 準 IEC 60079 系列規定為準。  |
| Article 110       | Performances, constructions, testings, markings, danger zone dividings and the like of |
|                   | explosion-proof electrical equipment for a gas category shall comply with the          |
| 1                 | -  |

|               | provisions in national standard CNS 3376 series, international standard IEC 60079      |
|---------------|--|
|               | series or its equivalent.  |
|               | Where there are discrepencies between CNS 3376 series and IEC 60079 series, IEC        |
|               | 60079 series shall govern.   |
| 第 111 條       | 用於粉塵類之防爆電氣設備,其性能、構造、試驗、標示及塵爆場所區域劃分等,   |
|               | 應符合國家標準 CNS 3376、CNS 15591 系列、國際標準 IEC 60079、IEC 61241                                 |
|               | 系列或與其同等之標準相關規定。  |
|               | 前項國家標準 CNS 3376、CNS 15591 系列與國際標準 IEC 60079、IEC 61241 系                                |
|               | 列有不一致者,以國際標準 IEC 60079、IEC 61241 系列規定為準。   |
| Article 111   | Performances, constructions, testings, markings, danger zone dividings and the like of |
|               | explosion-proof electrical equipment for a powder-dust category shall comply with      |
|               | the provisions in national standards CNS 3376 and CNS 15591 series, international      |
|               | standards IEC 60079 and IEC 61241 series or their equivalent.                          |
|               | Where there are discrepencies between CNS 3376 and CNS 15591 series and IEC            |
|               | 60079 and IEC 61241 series, IEC 60079 and IEC 61241 series shall govern.               |
| 第 111-1 條     | 交流電焊機用自動電擊防止裝置之構造及性能,應符合國家標準 CNS 4782。   |
| Article 111-1 | The structures and performances of the voltage reducing devices for AC arc welding     |
|               | equipment shall comply with the requirements of CNS 4782.                              |
| 第 八 音 輝元      |  |

# 第八章標示

| Chapter VIII Markings |                                      |  |
|-----------------------|--------------------------------------|--|
| 第 112 條               | 衝壓機械之安全裝置,應標示下列事項:                   |  |
|                       | 一、製造號碼。                              |  |
|                       | 二、製造者名稱。                             |  |
|                       | 三、製造年月。                              |  |
|                       | 四、適用之衝壓機械種類、壓力能力、行程長度(雙手操作式安全裝置除外)、每 |  |
|                       | 分鐘行程數(雙手操作式安全裝置及光電式安全裝置除外)及金屬模之大小    |  |
|                       | 範圍。                                  |  |
|                       | 五、雙手操作式安全裝置及光電式安全裝置,應依下列規定標示:        |  |
|                       | (一)安全一行程雙手操作式安全裝置:手離開操作部至快速停止機構開始動   |  |
|                       | 作之時間(TI),以毫秒表示。                      |  |
|                       | (二)雙手起動式安全裝置:手離開操作部至適用之衝壓機械之滑塊等達到下   |  |
|                       | 死點之最大時間(Tm),以毫秒表示。                   |  |
|                       | (三)光電式安全裝置:手將光線遮斷至快速停止機構開始動作之時間(TI), |  |
|                       | 以毫秒表示。                               |  |
|                       | (四)適用之衝壓機械之停止時間:快速停止機構開始動作至滑塊等停止之時   |  |
|                       | 間(Ts),以毫秒表示。但標示最大停止時間(Tl+Ts)者,得免分別標示 |  |
|                       | Tl 及 Ts。                             |  |
|                       |                                      |  |

(五)安全一行程雙手操作式安全裝置及光電式安全裝置依前目所定之停止時

間;雙手起動式安全裝置依第二目規定之最大時間,分別對應之安全距 離。雙手操作式安全裝置,為操作部與危險界限之距離;光電式安全裝置, 為光軸與危險界限之距離,以毫米表示。

- 六、光電式安全裝置,除前款之標示外,應另標示下列事項:
  - (一)有效距離:指投光器與受光器之機能可有效作用之距離限度,以毫米表示。
  - (二)適用之衝壓機械之防護高度,以毫米表示。
- 七、摺床用雷射感應式安全裝置,除第一款至第三款之標示外,應另標示下列事項:
  - (一)自遮斷雷射光,快速停止機構開始動作至滑塊等停止時之時間,以毫秒表示。
  - (二) 對應前目之時間,摺床雷射光軸與危險界限之距離,以毫米表示。
  - (三)有效距離: 雷射光軸可有效作用之距離限度,以毫米表示。
- 八、掃除式安全裝置,除第一款至第四款之標示外,應另標示掃臂之最大振幅, 以毫米表示。

#### Article 112

The safety device for the power press machine shall be marked the following items:

- 1. manufacture number.
- 2. manufacturer.
- 3. manufacture date.
- 4. applicable the press machine type, capability, stroke (except the two-hand control safety device), the number of strokes per minute (except the two-hand control safety device and the photoelectric safety device) and die sizes.
- 5. The two-hand control safety device or the photoelectric safety device shall be marked in accordance with the following provisions:
- (1) for the safe-one-stroke-two-hand control safety device: the time (Tl, in milliseconds) that hands releasing from the operating portion of that device to the starting action of the protective stop mechanism.
- (2) for the two-hand start safety device: the maximum time (Tm) that hands releasing from the operating portion to the slider of the applicable press machine reaching the lower dead center, in millimeters
- (3) for the photoelectric safety device: the time that fingers intervening the sensing zone of that device to the starting of the protective stop mechanism, in millimeters.
- (4) the stop time (Ts, in milliseconds) of the applicable press machine: the time that the protective stop mechanism starting action to the slider stopping, in milliseconds. But that marked the maximum stop time (Tl+Ts) being exempt from separately marking Tl and Ts.
- (5) for the safe-one-stroke- two-hand control safety device or the photoelectric safety

device: according to the set stopping time in the preceding subparagraph. For the two-hand start safety device: in accordance with the maximum time separately corresponding to the safe distance set in the preceding subparagraph (2). For twohand control safety device: the distance between the operating portion and the hazard zone, in millimeters, for photoelectric safety device: the distance between the optical axis and the hazard zone, in millimeters. 6. The photoelectric safety device, in addition to the marking in the preceding subparagraph, shall mark the followings: (1) the effective distance: referring to the distance that the emitter and receiver can effectively function, in millimeters. (2) the protective height for the applicable press machine, in millimeters. 7. The laser-sensitive safety device for the press brake, in addition to the marks in the preceding subparagraph 1 through 3, shall separately mark the followings: (1) the time that from the protective stop mechanism enacted to the slider stopping when the laser shaded, in milliseconds. (2) the distance between the optic axis of the press brake and the hazard zone, in millimeters and that being corresponding to the time in the subparagraph 7(2). (3) the effective distance that the laser optical axis can effectively function, in millimeters. 8. The push-out safety device, in addition to the marks in subparagraph 1 through 4, shall separately mark the maximum amplitude of the push-out arm, in millimeters. 第 113 條 剪斷機械之安全裝置,應標示下列事項: 一、製造號碼。 二、製造者名稱。 三、製造年月。 四、適用之剪斷機械種類。 五、適用之剪斷機械之剪斷厚度,以毫米表示。 六、適用之剪斷機械之刀具長度,以毫米表示。 七、光電式安全裝置:有效距離,指投光器與受光器之機能可有效作用之距離限 度,以毫米表示。 Article 113 The safety device for the shear machine shall be marked the followings: 1. Manufacture number. 2. Manufacturer. 3. Manufacture date. 4. Applicable shear machine type. 5. Shear thickness of the applicable shear machine, in millimeters. 6. Cutter length of the applicable shear machine, in millimeters.

|             | 7. Photoelectric safety device: Effective distance that means the emitter and receiver |
|-------------|--|
|             | can effectively function, in millimeters.  |
| 第 114 條     | 衝壓機械及剪斷機械,應於明顯易見處標示下列事項:   |
|             | 一、製造號碼。  |
|             | 二、製造者名稱。   |
|             | 三、製造年月。  |
|             | 四、機械規格:  |
|             | <u>(一)衝壓機械:</u> 依附表三十五之規定。   |
|             | (二)剪斷機械:適用之剪斷厚度及刀具長度,以毫米表示。  |
| Article 114 | The press machine shall be clearly and visibly marked with the following               |
|             | information:   |
|             | Manufacture number.  |
|             | 2. Manufacturer.   |
|             | 3. Manufacture date.   |
|             | 4. Machine specifications:   |
|             | (1) press specifications shall be based on attachment table 35.                        |
|             | (2) applicable shear thickness and cutter length of the shear machine, in millimeters. |
| 第 115 條     | 手推刨床應於明顯易見處標示下列事項:   |
|             | 一、製造者名稱。   |
|             | 二、製造年月。  |
|             | 三、額定功率或額定電流。   |
|             | 四、額定電壓。  |
|             | 五、無負荷回轉速率。   |
|             | 六、有效刨削寬度。  |
|             | 七、刃部接觸預防裝置,標示適用之手推刨床之有效刨削寬度。   |
| Article 115 | The hand-fed planer shall be clearly and visibly marked the followings:                |
|             | 1. Manufacturer.   |
|             | 2. Manufacture date.   |
|             | 3. Rated power or rated current.   |
|             | 4. Rated voltage.  |
|             | 5. No-load speed.  |
|             | 6. Effective planing width.  |
|             | 7. Cutter contact- preventive devices for the applicable effective planning width.     |
| 第 116 條     | 圓盤鋸_,應於明顯易見處標示下列事項:  |
|             | 一、製造者名稱。   |
|             | 二、製造年月。  |
|             | 三、額定功率或額定電流。   |
|             | 四、額定電壓。  |
|             |  |

|             | 五、無負荷回轉速率;具有變速機構之圓盤鋸者,為其變速階段之無負荷回轉速  |
|-------------|--|
|             |  |
|             | 六、適用之圓鋸片之直徑範圍及 <u>圓鋸軸之旋轉方向</u> ;具有變速機構之圓盤鋸者,   |
|             | 為其變速階段可使用之圓鋸片直徑範圍、種類及圓鋸軸旋轉方向。  |
|             | 七、撐縫片適用之圓鋸片之直徑、厚度範圍及標準鋸台位置。  |
|             | 八、鋸齒接觸預防裝置, <u>其</u> 適用之圓鋸片之直徑範圍及用途。   |
| Article 116 | The circular saw shall be clearly and visibly marked with the following items:         |
|             | 1. Manufacturer.   |
|             | 2. Manufacture date.   |
|             | 3. Rated power or rated current.   |
|             | 4. Rated voltage.  |
|             | 5. No-load speed: for the circular saw with a speed change mechanism the no-load       |
|             | speed in the speed changing state.   |
|             | 6. Applicable diameter and type of the circular saw blade, and rotation direction of   |
|             | circular saw shaft; for the circular saw with a speed change mechanism the             |
|             | diameter, type and rotation direction in the speed changing state.                     |
|             | 7. Applicable diameter of the circular saw blade, thickness range and the standard     |
|             | table position for the riving knife.   |
|             | 8. Applicable diameter range and the purpose for the teeth contact-preventive device.  |
| 第 117 條     | 堆高機應於明顯易見處標示下列事項:  |
|             | 一、製造者名稱。   |
|             | 二、製造年份。  |
|             | 三、製造號碼。  |
|             | 四、最大荷重。  |
|             | 五、容許荷重:指依堆高機之構造、材質及貨叉等裝載貨物之重心位置,決定其  |
|             | 足以承受之最大荷重。   |
| Article 117 | The lift-truck shall be clearly and visibly marked the followings:                     |
|             | 1. Manufacturer.   |
|             | 2. Manufacture date.   |
|             | 3. Manufacture number.   |
|             | 4. Maximum load.   |
|             | 5. Allowable load: refers to the construct of the lift-truck, material and the loading |
|             | gravity center position of the fork to determine the maximum load it can               |
|             | withstand.   |
| 第 118 條     | 研磨機應於明顯易見處標示下列事項:  |
|             | 一、製造者名稱。   |
|             | 二、製造年月。  |
|             | 三、額定電壓。  |
| l           |  |

|                   | m 怎么类同种油皮   |
|-------------------|---|
|                   | 四、無負荷回轉速率。  |
|                   | 五、適用之研磨輪之直徑、厚度及孔徑。  |
|                   | 六、研磨輪之回轉方向。   |
|                   | 七、護罩標示適用之研磨輪之最高使用周速度、厚度、直徑。   |
| Article 118       | The grinder shall be clearly and visibly marked the followings:                         |
|                   | 1. Manufacturer.  |
|                   | 2. Manufacture date.  |
|                   | 3. Rated voltage.   |
|                   | 4. No-load speed.   |
|                   | 5. Applicable diameter, thickness and inner diameter of the grinding wheel.             |
|                   | 6. Direction of rotation.   |
|                   | 7. Guard marking the applicable using highest peripheral velocity, thickness and        |
|                   | diameter of the grinding wheel.   |
| 第 119 條           | 研磨輪,應標示下列事項:  |
|                   | 一、製造者名稱。  |
|                   | 二、結合劑之種類。   |
|                   | 三、最高使用周速度,並得加註旋轉速率。   |
|                   | 四、製造號碼或製造批號。  |
|                   | 前項標示,於直徑未滿七十五毫米之研磨輪,得在最小包裝單位上加以標示。  |
| Article 119       | The grinding wheel shall be clearly and visibly marked with the following               |
|                   | information:  |
|                   | 1. Manufacturer.  |
|                   | 2. Bonder type.   |
|                   | 3. Highest usable peripheral velocity, and should add revolution speed.                 |
|                   | 4. Manufacturing Number or Manufacturing Lot Number.                                    |
|                   | For the diameter of grinding wheel under 75 millimeters, the preceding markings can     |
|                   | be indicated on the smallest package unit.  |
| 第九章附則             |   |
| Chapter IX Supple | ementary Provisions   |
| 第 120 條           | 特殊構造之機械、設備或器具,適用本標準規定有困難時,製造者或進□者應檢   |
|                   | 附產品安全評估報告及構造圖說等相關技術文件,報請中央主管機關認定具有同   |
|                   | 等以上之安全性能者,得不適用本標準之部分規定;其安全性能,應依風險控制   |
|                   | 及安全設計學理,具有符合國際標準、區域標準、國家標準、團體標準或技術規   |
|                   | 範等之同等以上安全性能。  |
|                   | 前項認定事項,中央主管機關得委託學術機構或相關專業團體辦理之。   |
| Article 120       | When the specially constructed machinery or equipment that is difficulty in the         |
|                   | application of this standard, the manufacture or importer shall submit product safety   |
|                   | evaluation report and other related technology structural drawing submit to the central |
|                   | 1 2 2   |

|               | authorities for their approve. The specially constructed machinery or equipment can      |  |  |
|---------------|--|--|--|
|               | be exampled to apply a part of this standard if they recognize that has the equivalent   |  |  |
|               | or over the safety performances. Their safety performance shall base on the risk         |  |  |
|               | control and the safety design theory and be in accordance with the international         |  |  |
|               | standards, regional standards, national standards, group standards, technical            |  |  |
|               | specifications or others having the equivalents or over.                                 |  |  |
|               | The central authorities may delegate academic institution or relevant professional       |  |  |
|               | bodies to handle that.   |  |  |
| 第 120-1 條     | 本法第七條及第八條所定之機械、設備或器具,其構造、性能或安全防護事項,  |  |  |
|               | 於本標準未規定者,中央主管機關得公告依其他技術法規或指定適用國際標準、  |  |  |
|               | 區域標準、國家標準、團體標準或技術規範之一部或全部內容辦理。   |  |  |
| Article 120-1 | For those the other relating to the structures, performances, or security matters of the |  |  |
|               | machinery or equipment set by the Act are not been prescribed in the standard, the       |  |  |
|               | central authorities may announce that can be handled according to other technical        |  |  |
|               | regulations or specify the applicable international standards, regional standards,       |  |  |
|               | national standards, group standards or a part or all of the technical specifications to  |  |  |
|               | handle them.   |  |  |
| 第 121 條       | 本標準除第一百十條、第一百十一條自中華民國一百年七月一日施行外,自發布  |  |  |
|               | 日施行。   |  |  |
|               | 本標準修正條文,除自中華民國一百零三年六月二十六日修正發布之條文,自一  |  |  |
|               | 百零三年七月三日施行;一百零三年十二月二十二日修正發布之條文,自一百零  |  |  |
|               | 四年一月一日施行;一百十一年五月十一日修正發布之第二十二條及第三十八   |  |  |
|               | <u>條自發布後一年</u> 施行外,自發布日施行。   |  |  |
| Article 121   | This standard was implemented on the date of promulgation, except Articles 110 and       |  |  |
|               | 111, which were implemented on July 1, 2011.   |  |  |
|               | Amendments to this standard are implemented on the date of promulgation, except          |  |  |
|               | those promulgated on June 26, 2014 and December 22, 2014 and May 11, 2022,               |  |  |
|               | which were implemented on July 3, 2014 and January 1, 2015 and May 11, 2023              |  |  |
|               | respectively.  |  |  |
|               |  |  |  |

# 附表一

| 機械衝床種類     | 壓力能力(單位:噸) | 行程數(單位:每分鐘行程數) |
|------------|------------|----------------|
| 附滑動銷離合器之衝床 | 20 以下      | 150            |
|            | 超過 20      | 120            |
|            | 30 以下      |                |
|            | 超過 30      | 100            |
|            | 50 以下      |                |
|            | 超過 50      | 50             |
| 附滾動鍵離合器之衝床 | 20 以下      | 300            |
|            | 超過 20      | 220            |
|            | 30 以下      |                |
|            | 超過 30      | 150            |
|            | 50以下       |                |
|            | 超過 50      | 100            |

| Type of mechanical press    | Capacity (unit: tons) | Strokes per minute (unit: spm) |
|-----------------------------|-----------------------|--------------------------------|
| pin clutch mechanical press | below 20              | 150                            |
|                             | over 20               | 120                            |
|                             | below 30              |                                |
|                             | over 30               | 100                            |
|                             | below 50              |                                |
|                             | over 50               | 50                             |
| key clutch mechanical press | below 20              | 300                            |
|                             | over 20               | 220                            |
|                             | below 30              |                                |
|                             | over 30               | 150                            |
|                             | below 50              |                                |
|                             | over 50               | 100                            |

# 附表二

| 機械衝床種類  | 離合器之構成部分   | 材料  |
|---------|------------|---|
|         | 離合器滑動銷     | 符合國家標準 CNS 三二三 0「機械構造用鎳鉻鋼鋼料」之鋼                      |
|         |            | 材   |
|         |            | 符合國家標準 CNS 二九六四「碳工具鋼鋼料」所定之四號或                       |
| 附滑動銷離合器 | 離合器動作用凸輪   | 五號規格之鋼材,或符合國家標準 CNS 三二二九「機械構造                       |
| 之衝床     |            | 用鉻鉬鋼鋼料」之鋼材  |
|         |            | 符合國家標準 CNS 二九六五「合金工具鋼鋼料」所定之 SKS                     |
|         | 離合器滑動銷擋塊   | 44 規格之鋼材,或符合國家標準 CNS 三二二九「機械構造                      |
|         |            | 用鉻鉬鋼鋼料」之鋼材  |
|         |            | 符合國家標準 CNS 三二三 0「機械構造用鎳鉻鋼鋼料」之鋼                      |
|         | 内側離合器環     | 材,或符合國家標準 CNS 三八二八「機械構造用碳鋼鋼料」                       |
|         |            | 所定之 <b>S</b> 40C、 <b>S</b> 43C 或 <b>S</b> 45C 規格之鋼材 |
|         | 中央離合器環     | 符合國家標準 CNS 三二三 0「機械構造用鎳鉻鋼鋼料」之鋼                      |
| 附滾動鍵離合器 |            | 材   |
| 之衝床     | 外側離合器環     | 符合國家標準 CNS 三八二八「機械構造用碳鋼鋼料」所定之                       |
|         |            | S40C、S43 C 或 S45C 規格之鋼材                             |
|         | 滾動鍵、離合器動作用 | 符合國家標準 CNS 二九六五「合金工具鋼鋼料」所定之 SKS44                   |
|         | 凸輪及離合器嚙合分離 | 規格之鋼材   |
|         | 用金屬配件      |   |

| Type of mechanical press       | Components of the               | Materials   |  |
|--------------------------------|---------------------------------|---|--|
|                                | clutch slide- pin               | compling with the national standard CNS 3230 "mechanical-structure-usage nickel chromium steel material"  |  |
| pin clutch<br>mechanical press | clutch driving cam              | compling with No.4 or No.5 set in the national standard CNS 2964 "carbon tool steel material" or compling with the national standard CNS 3229 " mechanical-structure-usage chromium molybdenum steel material"        |  |
|                                | stopper of clutch slide-<br>pin | compling with SKS 44 specifications set in the national standard CNS 2965 "alloy tool steel material" or compling with the national standard CNS 3229 "mechanical-structure-usage chromium molybdenum steel material" |  |
| key clutch<br>mechanical press | clutch ring in inner            | compling with the national standard CNS 3230 "mechanical-structure-usage nickel chromium steel material" or comply with S40C, S43C or S45C set in the national  |  |

|                        | standard CNS 3828 "mechanical-structure-usage carbon-steel       |
|------------------------|--|
|                        | material"  |
| clutch ring in middle  | compling with the national standard CNS                          |
|                        | 3230 "mechanical-structure-usage nickel chromium steel           |
|                        | material"  |
| clutch ring in outside | compling with the national standard CNS                          |
|                        | 3828 "mechanical-structure-usage carbon steel material" S40C ,   |
|                        | S43C or S45C.  |
| rolling- key, clutch   | compling with SKS 44 specifications set in the national standard |
| driving cam or metal   | CNS 2965 "alloy tool steel material"                             |
| fittings for clutch    |  |
| engaging or separating |  |

# 附表三

| 機械衝床種類 | 離合器構成部分        | 熱處理              | 表面硬度值(洛  |
|--------|----------------|------------------|----------|
|        |                |                  | 氏 C 硬度值) |
| 附滑動銷離合 | 離合器滑動銷         | 淬火、回火            | 52 以上    |
| 器之衝床   |                |                  | 56以下     |
|        | 離合器作動用凸輪       | 碳工具鋼在接觸部進行淬火、回火; | 52 以上    |
|        |                | 鉻鉬鋼,滲碳後再進行淬火、回火  | 56以下     |
|        | 離合器滑動銷擋塊       | 合金工具鋼,淬火、回火;鉻鉬鋼, | 54 以上    |
|        |                | 滲碳後再進行淬火、回火      | 58以下     |
| 附滾動鍵離合 | 内側離合器環         | 淬火、回火            | 22 以上    |
| 器之衝床   |                |                  | 25 以下    |
|        | 中央離合器環         | 滲碳後再進行淬火、回火      | 52 以上    |
|        |                |                  | 56以下     |
|        | 外側離合器環         | 淬火、回火            | 22 以上    |
|        |                |                  | 25 以下    |
|        | 滾動鍵            | 淬火、回火            | 54 以上    |
|        |                |                  | 58 以下    |
|        | 離合器作動用凸輪       | 淬火、回火            | 42 以上    |
|        |                |                  | 45 以下    |
|        | 離合器嚙合分離用金屬配件中, | 淬火、回火            | 42 以上    |
|        | 接觸離合器作動用凸輪之部分  |                  | 45 以下    |

| Type of    | Components of the clutch | Heat treatment                     | Surface          |
|------------|--------------------------|------------------------------------|------------------|
| mechanical |                          |                                    | hardness( Rockwe |
| press      |                          |                                    | ll C scale)      |
| pin clutch | clutch slide- pin        | quenching, tempering               | over 52          |
| mechanical |                          |                                    | below 56         |
| press      | clutch driving cam       | quenching and tempering being      | over 52          |
|            |                          | applied to the contact portion for | below 56         |
|            |                          | carbon tool steel;                 |                  |
|            |                          |                                    |                  |
|            |                          | quenching and tempering after      |                  |
|            |                          | carburization for chromium         |                  |
|            |                          | molybdenum steel                   |                  |
|            |                          |                                    |                  |

|            | stopper of clutch slide- pin       | quenching and tempering for alloy | over 54  |
|------------|------------------------------------|-----------------------------------|----------|
|            |                                    | tool steel;                       | below 58 |
|            |                                    | quenching and tempering after     |          |
|            |                                    | carburization for chromium        |          |
|            |                                    |                                   |          |
|            |                                    | molybdenum steel                  |          |
| key clutch | clutch ring in inner               | quenching and tempering           | over 22  |
| mechanical |                                    |                                   | below 25 |
| press      | clutch ring in middle              | quenching and tempering after     | over 52  |
|            |                                    | carburization                     | below 56 |
|            | clutch ring in outside             | quenching and tempering           | over 22  |
|            |                                    |                                   | below 25 |
|            | rolling- key                       | quenching and tempering           | over 54  |
|            |                                    |                                   | below 58 |
|            | clutch driving cam                 | quenching and tempering           | over 42  |
|            |                                    |                                   | below 45 |
|            | portion in the metal fittings for  | quenching and tempering           | over 42  |
|            | clutch engaging or separating that |                                   | below 45 |
|            | contacting with the clutch driving |                                   |          |
|            | cam                                |                                   |          |

# 附表四

| 液壓衝床種類     | 壓力能力 (單位:噸) | 慣性下降值(單位:毫米) |
|------------|-------------|--------------|
|            | 50以下        | 50           |
| 液壓式摺床以外之液壓 | 超過 50       | 100          |
| 衝床         | 300以下       |              |
|            | 超過 300      | 150          |
|            | 100以下       | 20           |
| 液壓式摺床      | 超過 100      | 50           |
|            | 500以下       |              |
|            | 超過 500      | 150          |

| Type of hydraulic press   | Capacity (unit: tons) | Inertial descending value |
|---------------------------|-----------------------|---------------------------|
|                           |                       | (unit: millimeters)       |
|                           | below 50              | 50                        |
| Hydraulic press except    | over 50               | 100                       |
| the hydraulic press brake | below 300             |                           |
|                           | over 300              | 150                       |
|                           | below 100             | 20                        |
| Hydraulic press brake     | over 100              | 50                        |
|                           | below 500             |                           |
|                           | over 500              | 150                       |

# 附表五

| 圓鋸片種類       | 圓鋸片構成部分 | 材料                    |
|-------------|---------|-----------------------|
| 超硬圓鋸片       | 鋸齒      | 超硬鋸齒規格之鋼料             |
|             | 本體      | 符合國家標準 CNS 2964「碳工具鋼鋼 |
|             |         | 料」所定 SK5 或 SK6 之鋼料    |
| 超硬圓鋸片以外之圓鋸片 |         | 符合國家標準 CNS 2964「碳工具鋼鋼 |
|             |         | 料」所定 SK5 或 SK6 之鋼料    |

| Type of the circular saw          | The circular saw components | Materials                               |  |
|-----------------------------------|-----------------------------|---|--|
| blade of the super- hard circular | saw teeth                   | steel of the super-hard saw teeth       |  |
| saw                               |                             | specifications                          |  |
|                                   | the body                    | compling with SK5 or SK6 set in the     |  |
|                                   |                             | national standard CNS 2964 "carbon tool |  |
|                                   |                             | steel material"                         |  |
| except the blade of the super-    |                             | compling with SK5 or SK6 set in the     |  |
| hard circular saw                 |                             | national standard CNS 2964 "carbon tool |  |
|                                   |                             | steel material"                         |  |

# 附表六

| 圓鋸片直徑(單位:毫米)            | 值(單位:毫米) |
|-------------------------|----------|
| 152 以下                  | 30       |
| 203                     | 35       |
| 255                     | 45       |
| 305                     | 50       |
| 355                     | 55       |
| 405                     | 60       |
| 455                     | 70       |
| 510                     | 75       |
| 560                     | 80       |
| 610                     | 85       |
| 備註:圓鋸片直徑介於列表值中間時,以比例法求出 |          |

# Attaching table 6

| diameter of the blade (unit: millimeters) | Value (unit: millimeters) |
|---|---------------------------|
| below 152                                 | 30                        |
| 203                                       | 35                        |
| 255                                       | 45                        |
| 305                                       | 50                        |
| 355                                       | 55                        |
| 405                                       | 60                        |
| 455                                       | 70                        |
| 510                                       | 75                        |
| 560                                       | 80                        |
| 610                                       | 85                        |

Remark: The diameter of a blade is get by interpolation if it is in the intermediate of a two-values in the list.

# 附表七

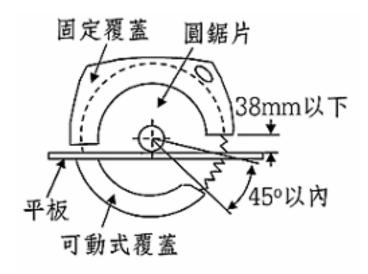
| 圓鋸片直徑(單位:毫米)   | 值(單位:毫米) |  |  |
|----------------|----------|--|--|
| 810以下          | 40       |  |  |
| 超過 810,965 以下  | 50       |  |  |
| 超過 965,1120 以下 | 60       |  |  |
| 超過 1120        | 70       |  |  |

| diameter of the blade (unit: millimeters) | Value (unit: millimeters) |  |  |
|---|---------------------------|--|--|
| below 810                                 | 40                        |  |  |
| over 810 , below 965                      | 50                        |  |  |
| over 965 , below 1120                     | 60                        |  |  |
| over 1120                                 | 70                        |  |  |

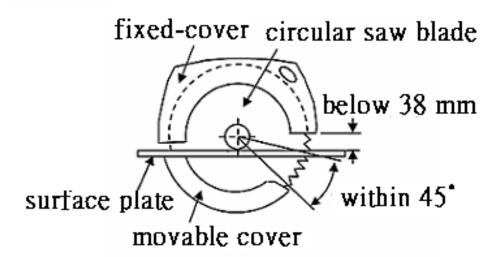
# 附表八

| 撐縫片種類  | 圓鋸片直徑(單位:毫米)  | 螺栓直徑(單位:毫米) |  |
|--------|---------------|-------------|--|
|        | 203 以下        | 5           |  |
| 鐮刀式撐縫片 | 超過 203,355 以下 | 6           |  |
|        | 超過 355,560 以下 | 8           |  |
|        | 超過 560,610 以下 | 10          |  |
| 懸垂式撐縫片 | 915 以下        | 6           |  |
|        | 超過 915        | 8           |  |

| Type of the riving knife | diameter of the blade (unit: millimeters) | diameter of the bolt (unit: |  |  |
|--------------------------|---|-----------------------------|--|--|
|                          |   | millimeters)                |  |  |
|                          | below 203                                 | 5                           |  |  |
| cialda tyma vivina lmifa | over 203 , below 355                      | 6                           |  |  |
| sickle-type riving knife | over 355 , below 560                      | 8                           |  |  |
|                          | over 560 , below 610                      | 10                          |  |  |
| drape-type riving knife  | below 915                                 | 6                           |  |  |
|                          | over 915                                  | 8                           |  |  |



#### Attaching figure 1



# 附表九

# 配衡型堆高機

| 癿例至址         | . 口. 7/人                                  |  |  |  |
|--------------|---|--|--|--|
| 試驗項目         | 1   | 2  | 3  | 4  |
| 安定度區         | 前後安定度                                     |  | 左右安定度  |  |
| 分            |   |  |  |  |
| 安定測試         | 靜止  | 運行   | 靜止   | 運行   |
| 狀態           |   |  |  |  |
| 負載           | 負載  | 負載   | 負載   | 無負載  |
| 叉之升程         |   | 300mm  | 最高   | 300mm  |
| 桅桿或叉         |   | 後傾   | AXIII  | 100000000000000000000000000000000000000                                      |
| 之傾斜度         |   | IXI'X  |  |  |
| 未            | 40/                                       | 100/   | 501  | (15, 1, 1, 1) (() [ ] [ , 500( )   |
| 滿            | 4%  | 18%  | 6%   | (15+1.1v)%(最大 50%)   |
| 5            |   |  |  |  |
| 噸            |   |  |  |  |
| l -          |   |  |  |  |
| 平台   5   噸   |   |  |  |  |
| 之傾 以         |   |  |  |  |
|              |   |  |  |  |
| 斜度 上 10      | 3.5%                                      | 18%  | 6%   | (15+1.1v)% (最大 40%)  |
| 噸            | 3.370                                     | 1070   | 070  | (15   1.11)/0 (42/( 10/0)  |
|              |   |  |  |  |
| 以            |   |  |  |  |
| 下            |   |  |  |  |
| L            |   |  |  |  |
|              |   | . п  | (men)  |  |
|              | 1 (8)                                     | . 110  | MMA  |  |
|              | I W                                       | 1176   | VALUE OF THE PERSON OF THE PER | 12411  |
|              |   |  | Time .   |  |
|              |   |  |  |  |
|              |   |  |  |  |
|              | × +                                       | TXY TX   | × 🗀  | - xy   |
|              | XY + +                                    | TY D   | XY COO   | - XY   |
|              | xy. + + + + + + + + + + + + + + + + + + + | THE THE  | xy Coo   | Single axie  |
|              | xy. +)———                                 | THE  | swing-type axle  | single axle multi-rear wheel   |
|              | ×Y . + + + + + + + + + + + + + + + + + +  | XY XY  | swing-type axle  | single axle multi-rear wheel   |
|              | XY + +                                    | XY   | swing-type axle  | single axle multi-rear wheel   |
|              | XY + +                                    | XY B   | swing-type axle parallel s   | single axle multi-rear wheel   |
| 堆高機在         | xy. + + +                                 | XY B   | swing-type axle parallel s   | single axle multi-rear wheel   |
| 堆高機在         | XY. + + +                                 | XY B   | swing-type axle parallel s   | single axle multi-rear wheel   |
| 推高機在<br>平台上之 | XY. + + +                                 | XY B   | swing-type axle parallel s   | single axle multi-rear wheel   |
| 平台上之         | XY. +)———                                 | XY A   | The state of the s | single axle multi-rear wheel   |
|              | XY + + + A                                | XY TO THE TOTAL PROPERTY OF THE TOTAL PROPER | swing-type axle parallel s   | single axle multi-rear wheel   |
| 平台上之         | XY. + A                                   | XY B   | The state of the s | single axle multi-rear wheel   |
| 平台上之         | XY + + +                                  | THE REPORT OF THE PARTY OF THE  | The state of the s | single axle multi-rear wheel   |
| 平台上之         | XY. D                                     |  | The state of the s | single axle multi-rear wheel   |
| 平台上之         | XY. + + +                                 | NY B   | The state of the s | single axle multi-rear wheel   |
| 平台上之         | XY. + + +                                 |  |  | single axle multi-rear wheel single rear wheel parallel                      |
| 平台上之         |   |  | XY DO  | single axle multi-rear wheel single rear wheel parallel                      |
| 平台上之         | XY. + + +                                 |  | XY A A A A A A A A A A A A A A A A A A A   | single axle multi-rear wheel single rear wheel parallel                      |
| 平台上之         | XY. + + +                                 |  | XY DO  | single axle multi-rear wheel single rear wheel parallel                      |
| 平台上之         | XY. + + + + +                             |  | XY A A A A A A A A A A A A A A A A A A A   | single axle multi-rear wheel single rear wheel parallel parallel parallel xy |
| 平台上之         | XY. + + +                                 | XY   | XY A A A A A A A A A A A A A A A A A A A   | single axle multi-rear wheel single rear wheel parallel parallel parallel xy |
| 平台上之         | XY. + + + + +                             | XY   | XY A A A A A A A A A A A A A A A A A A A   | single axle multi-rear wheel single rear wheel parallel parallel parallel xy |
| 平台上之         | XY. + + + + +                             | XY   | XY A A A A A A A A A A A A A A A A A A A   | single axle multi-rear wheel single rear wheel parallel parallel parallel xy |
| 平台上之<br>位置   | XY. + + + + +                             | XY   | XY A A A A A A A A A A A A A A A A A A A   | single axle multi-rear wheel single rear wheel parallel parallel parallel xy |

M-N:堆高機之左右安定度軸 A-B:堆高機之縱向中心線

#### Attaching table 9

#### The counterbalancer lift- truck

| Test item          | S               | 1                     | 2             | 3                     | 4  |  |
|--------------------|-----------------|-----------------------|---------------|-----------------------|--|--|
| stability          |                 | front- rear stability |               | left- right stability |  |  |
| divisions          |                 | •                     |               |                       |  |  |
| state of stillness |                 | running               | stillness     | running               |  |  |
| stability          | test            |                       |               |                       |  |  |
| load               |                 | load                  | load          | load                  | no-load  |  |
| fork lift          |                 | highest               | 300mm         | highest               | 300mm  |  |
| tilt of ma         | st or           | verticle              | backward tilt |                       |  |  |
| fork               |                 |                       |               |                       |  |  |
|                    | below<br>5 tons | 4%                    | 18%           | 6%                    | (15+1.1v)%(max. 50%)                                       |  |
|                    | over            |                       |               |                       |  |  |
| tilt of            | 5 tons          |                       |               |                       |  |  |
| 1                  | below           |                       |               |                       |  |  |
| platform           | 10              | 3.5%                  | 18%           | 6%                    | (15+1.1v)% (max. 40%)                                      |  |
|                    | tons            |                       |               |                       |  |  |
|                    |                 |                       |               |                       |  |  |
|                    |                 |                       | · n_          |                       |  |  |
|                    |                 |                       |               |                       |  |  |
|                    |                 | . 1 ~                 |               |                       | 100 M  |  |
|                    |                 | 11/2                  |               |                       | 1 1000   |  |
|                    |                 |                       |               |                       |  |  |
|                    |                 | XY (+)-(+)            | XY            | XY TIW                | XY   |  |
|                    |                 | > <sub>1</sub>        |               | swing-type ax         | single axle<br>le single axle multi-rear wheel             |  |
|                    |                 |                       |               | parallel              | le single axle multi-rear wheel single rear wheel parallel |  |
|                    |                 | .   -                 | -4-4          | * 1                   | parallel parallel  |  |
|                    |                 | A-1-E                 |               | Lin                   |  |  |
| lift- truck        | ζ.              | 1                     | ' '           | 197                   |  |  |
| posision           | on the          |                       |               | 12/24                 | × × ×  |  |
| platform           |                 | l la                  |               | Mulh                  | ' fall   |  |
|                    |                 |                       |               |                       |  |  |
|                    |                 | l · 1 ~               |               |                       |  |  |
|                    |                 |                       | 1 1/A-A       |                       |  |  |
|                    |                 |                       |               | _                     |  |  |
|                    |                 | XY (+)-(+)            | XY            | XY T                  | XY   |  |
|                    |                 | <b>≻</b> , ·          |               | 搖動型                   | 車軸 單軸,後 單軸,後輪  |  |
|                    |                 | <del> </del>          |               |                       | 車軸 單軸,後 單軸,後輪<br>輪爲單輪時 爲複輪                                 |  |
|                    |                 |                       | _ , _ ]       | <u>平行</u>             | 平行   |  |
|                    |                 | A F                   |               | [ N D.                | NY DAD NY DAD  |  |
|                    |                 | TE                    |               |                       |  |  |
|                    |                 |                       | ' '           |                       |  |  |
|                    |                 |                       |               |                       |  |  |
|                    |                 |                       |               |                       |  |  |
|                    |                 |                       |               |                       | × B  |  |

X-Y: tilt axis of the platform

V: max. speed(km/h)

 $M\text{-}N : \ \ left\mbox{- right stability axis of the lift- truck}$ 

A-B: longitudinal centerline of a lift- truck

# 附表十

# 側舉型堆高機

| 試驗項      | 目     | 1     | 2     | 3     | 4  |  |       |  |  |
|----------|-------|-------|-------|-------|--|--|-------|--|--|
| 安定度      | 區分    | 前後安定度 |       | 左右安定度 |  |  | 左右安定度 |  |  |
| 安定測      | 試狀態   | 靜止    | 運行    | 靜止    | 運行                                       |  |       |  |  |
| 負載       |       | 負載    | 負載    | 負載    | 無負載                                      |  |       |  |  |
| 叉之升      | 程     | 最高    | 車台之高度 | 最高    | 300 mm                                   |  |       |  |  |
| 伸縮度      |       | 伸長    | 收縮    | 伸長    | 收縮                                       |  |       |  |  |
| 桅桿或<br>度 | 叉之傾斜  | 垂直    |       |       |  |  |       |  |  |
| 安定器      |       | 伸長    | 收縮    | 伸長    | 收縮                                       |  |       |  |  |
|          | 未滿5噸  | 6%    | 18%   | 4%    | (15+1.1v)%(最大 40%)                       |  |       |  |  |
| 平台之      | 5 噸以上 |       |       |       |  |  |       |  |  |
| 傾斜度      | 10 噸以 | 6%    | 18%   | 3.5%  | (15+1.1v)% (最大 50%)                      |  |       |  |  |
|          | 下     |       |       |       |  |  |       |  |  |
| 堆高機之位置   | 在平台上  | XY X  | XY XY | XY XY | XY XX X |  |       |  |  |

V: 最高速度(km/h) X-Y: 平台之傾斜軸

M-N: 堆高機之左右安定度軸 A-B: 堆高機之縱向中心線

# Attaching table 10

The side loading lift- truck

| Test items  |           | 1         | 2              | 3                                      | 4                                      |  |  |
|---|-----------|-----------|----------------|--|--|--|--|
| stability divisions front- rear stability left- right stability |           |           |                |  |  |  |  |
| state of sta  |           |           | running        | stillness                              | running                                |  |  |
| load  |           | load      |                | load                                   | no-load                                |  |  |
| fork lift   |           | highest   |                | highest                                | 300 mm                                 |  |  |
|   |           |           | truck-platform |  |  |  |  |
| extension-  | - retract | extension | retract        | extension                              | retract                                |  |  |
| degree  |           |           |                |  |  |  |  |
| tilt of mas   | t or      | verticle  |                | I                                      |  |  |  |
| fork  |           |           |                |  |  |  |  |
| ballast   |           | extension | retract        | extension                              | retract                                |  |  |
|   | below 5   | 6%        | 18%            | 4%                                     | (15+1.1v)% (max. 40%)                  |  |  |
|   | tons      |           |                |  |  |  |  |
| tilt of   | over 5    |           |                |  |  |  |  |
| platform  | tons      | 6%        | 18%            | 3.5%                                   | (15+1.1v)0/(may. 500/)                 |  |  |
|   | below 10  | 0%        | 18%            | 3.3%                                   | (15+1.1v)%(max. 50%)                   |  |  |
|   | tons      |           |                |  |  |  |  |
| 堆高機在<br>位置<br>lift- truck<br>on the pla                         | posision  | XY        | XY XY          | XX | XX |  |  |

V: max. speed(km/h) X-Y: tilt axis of the platform

 $M\text{-}N : \text{left- right stability axis of} \qquad A\text{-}B : \ \ \text{longitudinal centerline of a lift- truck}$ 

the lift- truck

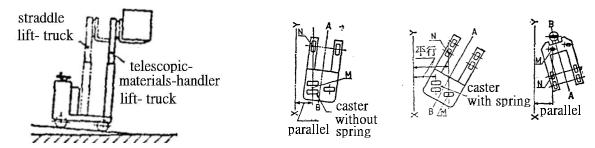
# 附表十一

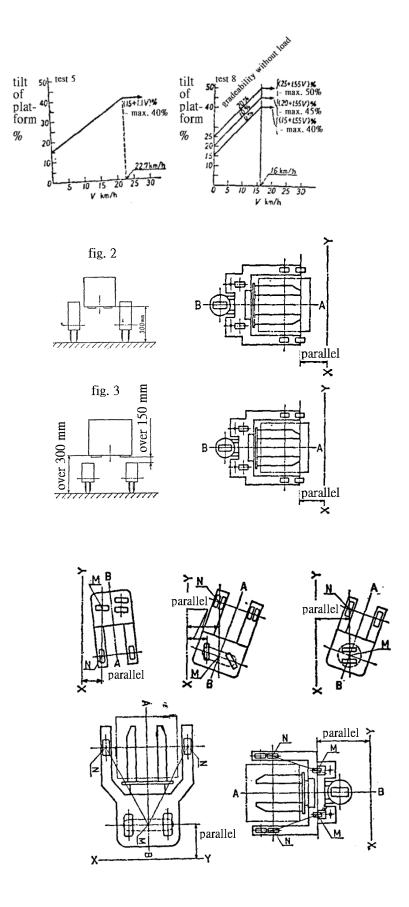
# 伸縮型及跨提型堆高機

| 試驗項目                  | 1           | 2          | 3    | 4    | 5                                     | 6                                      | 7                                    | 8   |
|-----------------------|-------------|------------|------|------|---------------------------------------|--|--------------------------------------|---|
| 安定度區分                 | 前安定度        |            | 左右安置 | 定度   |                                       | 後安定                                    | 变                                    |   |
| 安定測試狀態                | 靜止          | 運行         | 靜止   |      | 運行                                    | 靜止                                     |                                      | 運行  |
| 負載                    | 負載          | 負載         | 負載   | 無負載  | 無負載                                   | 負載                                     | 無負載                                  | 無負載   |
| 叉之升程                  | 最高          | 圖 2、圖<br>3 | 最高   | 最高   | 圖 2、圖<br>3                            | 最高                                     | 最高                                   | 圖 2、圖 3   |
| 伸縮度(伸縮型堆高機)           | 伸長          | 收縮         | 收縮   | 收縮   | 收縮                                    | 收縮                                     | 收縮                                   | 收縮  |
| 桅桿或叉之傾斜度              | 垂直          | 最大後<br>傾   | 安定性的 | 最差之狀 | 態                                     |  |                                      | l   |
| 平台之傾斜度                | 4%          | 18%        | 6%   | 8%   | 圖 4                                   | 14%                                    | 單後輪<br>制動<br>14%<br>複後輪<br>制動<br>18% | 圖 5   |
| <b>堆高機在平台上之</b><br>位置 | <b>日間</b> 2 | 仲織型機       |      |      | · · · · · · · · · · · · · · · · · · · | 文· · · · · · · · · · · · · · · · · · · |                                      | 25-100-100 (1-10-100-100-100-100-100-100-100-100-10 |

V: 最高速度(km/h), X-Y: 平台之傾斜軸, M-N: 堆高機之左右安定度軸,

A-B: 堆高機之縱向中心線



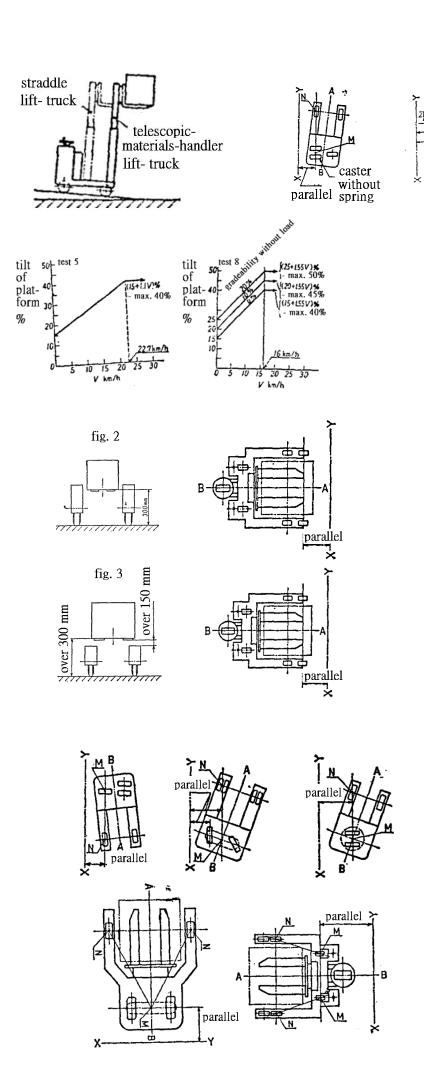


Attaching table 11 the telescopic-materials-handler lift- truck or the straddle lift- truck

| Test items   | 1               | 2                        | 3                        | 4           | 5                                     | 6              | 7  | 8              |
|--|-----------------|--------------------------|--------------------------|-------------|---------------------------------------|----------------|--|----------------|
| stability divisions  | front stability |                          | left- righ               | t stability |                                       | rear stab      | ility  |                |
| state of stability test  | stillness       | running                  | stillness                |             | running                               | stillness      |  | running        |
| load   | load            | load                     | load                     | no-load     | no-load                               | load           | no-load  | no-load        |
| fork lift  | highest         | fig.2<br>fig 3           | highest                  | highest     | fig.2<br>fig 3                        | highest        | highest  | fig.2<br>fig 3 |
| extension- retract degree<br>( telescopic-materials-handle<br>r lift- truck) | extension       | retract                  | retract                  | retract     | retract                               | retract        | retract  | retract        |
| tilt of mast or<br>fork  | verticle        | max.<br>backward<br>tilt | worst state of stability |             |                                       |                |  |                |
| tilt of platform   | 4%              | 18%                      | 6%                       | 8%          | fig. 4                                | 14%            | single<br>rear<br>wheel<br>14%<br>braking<br>multi-<br>rear<br>wheel<br>braking<br>18% | fig.5          |
| lift- truck posision on the  |                 |                          |                          |             |                                       |                | 18%  |                |
| platform   | 圖 2             | 跨提型<br>堆高機 - 仲新型<br>幣高機  | 711111                   |             |                                       |                |  | ununium<br>un  |
|  | <b>圖</b> 3      |                          | A A A                    |             |                                       | <b>A X X X</b> | #457   | 40             |
|  | 1300m 131 E     | B - 1                    |                          | · 大行了/人UU-  | · · · · · · · · · · · · · · · · · · · | 平台之類於東京        | S S S S S S S S S V LOS  | 本              |

 $V : max. \ speed(km/h) \ , \qquad X-Y : tilt \ axis \ of \ the \ platform \qquad M-N : left- \ right \ stability \ axis \ of \ the \ lift- \ truck$ 

A-B: longitudinal centerline of a lift- truck



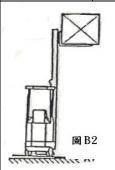
caster/

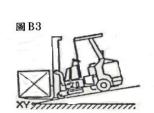
with spring

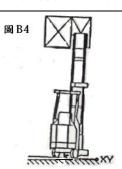
#### 附表十二

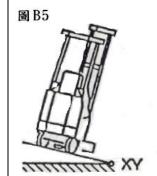
#### 窄道式堆高機

| 試驗項目       |                 | 1         | 2         | 3         |     | 4                     |  |
|------------|-----------------|-----------|-----------|-----------|-----|-----------------------|--|
| 安定度區分      |                 | 前後安定度     |           | 左右安定度     |     |                       |  |
| 安定測試狀態     | 狀態              |           |           | 運行        |     |                       |  |
| 負載         |                 | 負載        | 負載        | 負載        | 無負載 | 無負載                   |  |
| 叉之升程       |                 | 最高        | 300mm     | 最高        |     | 300mm                 |  |
| 桅桿或叉之傾斜度   |                 | 垂直        | 後傾        | 後傾        |     | 後傾                    |  |
| 堆高機在平台上之位置 |                 | 圖 B2 與 B6 | 圖 B3 與 B7 | 圖 B4 與 B8 |     | 圖 B5 與 B8             |  |
| 平台之傾斜度     | 未滿 5 噸          | 4%        | 18%       | 6%        | 8%  | (15+1.4v)%(1)(最大 50%) |  |
|            | 5 噸以上<br>10 噸以下 | 3.5%      | 18%       | 6%        |     | (15+1.4v)%(1)(最大 40%) |  |







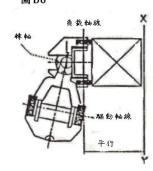


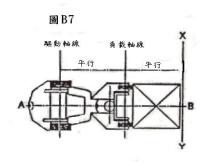
V:最高速度(km/h) X-Y:平台之傾斜軸

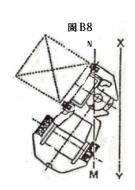
M-N: 堆高機之左右安定度軸 A-B: 堆高機之縱向中心線

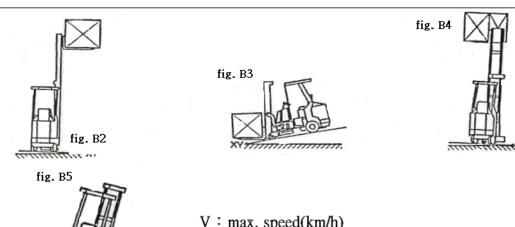
(1) v=最大速度km/hr,無負載於平滑與平坦的地面 AB=堆高機縱向中心平面 xy=測試平台旋轉軸







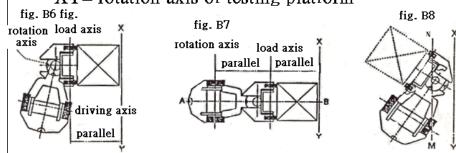




V: max. speed(km/h)
X-Y: tilt axis of the platform
M-N: left- right stability axis of the lift- truck
A-B: longitudinal centerline of a lift- truck

(1) V= max. speed km/hr, n0-load on the smooth and flat on the ground AB= longitudinal center plane of lift-truck

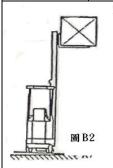
XY= rotation axis of testing platform

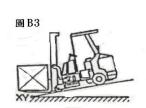


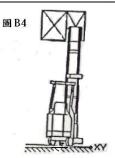
#### Attaching table 12

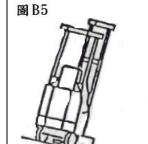
#### the narrow lift- truck

| Test items           |                      | 1            | 2                     | 3             |             | 4                       |
|----------------------|----------------------|--------------|-----------------------|---------------|-------------|-------------------------|
| stability division   | stability divisions  |              | front- rear stability |               | t stability |                         |
| state of stability   | test                 | stillness    | running               | stillness     |             | running                 |
| load                 |                      | load         | load                  | load          | no-load     | no-load                 |
| fork lift            |                      | highest      | 300mm                 | highest       |             | 300mm                   |
| tilt of mast or fo   | tilt of mast or fork |              | backward tilt         | backward tilt |             | backward tilt           |
| lift- truck posision | on on the            | Fig. B2 & B6 | Fig. B3 & B7          | Fig. B4 & B8  |             | Fig. B5 & B8            |
| platform             |                      |              |                       |               |             |                         |
|                      | below 5              | 4%           | 18%                   | 6%            | 8%          | (15+1.4v)%(1)(max. 50%) |
|                      | tons                 |              |                       |               |             |                         |
| tilt of platform     | over 5 tons          |              |                       |               |             |                         |
|                      | below 10             | 3.5%         | 18%                   | 6%            |             | (15+1.4v)%(1)(max. 40%) |
|                      | tons                 |              |                       |               |             |                         |







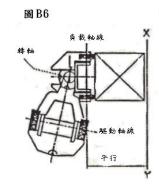


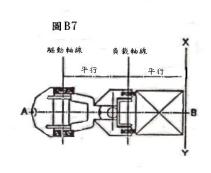
XX SIMILITIES

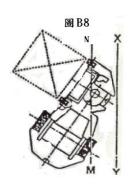
V:最高速度(km/h) X-Y:平台之傾斜軸

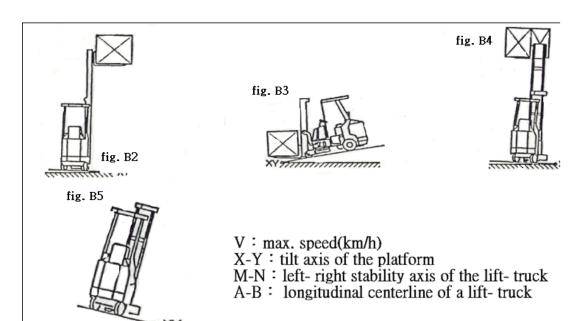
M-N:堆高機之左右安定度軸 A-B:堆高機之縱向中心線

(1) V=最大速度k 坦的地面 AB=堆高機縱向中心平面 XV=测試平台旋轉軸



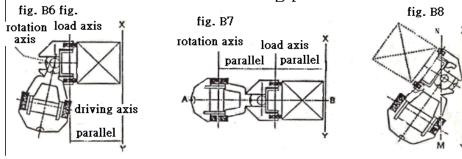






(1) V= max. speed km/hr, n0-load on the smooth and flat on the ground AB= longitudinal center plane of lift-truck

XY= rotation axis of testing platform



### 附表 十三

| 堆高機狀態      | 制動初速度(單位:公里小時)                       | 停止距離(單位:公尺) |
|------------|--------------------------------------|-------------|
|            | 20(最高速度未達每小時 20 公里之堆高機者,為其<br>最高速度)。 | 5           |
| 走行時之基準負荷狀態 | 10(最高速度未達每小時 10公里之堆高機者,為其<br>最高速度)。  | 2.5         |

### 備註:

- 一、本表所稱「走行時之基準無負荷狀態」,指伸臂完全縮回,使桅桿垂直,貨叉呈水平,貨叉上端距離 地面 30 公分狀態。
- 二、本表所稱「走行時之基準負荷狀態」,指在基準負荷狀態下,桅桿及貨叉呈最大後傾狀態。

#### Attaching table 13

| Lift-truck states      | Initial braking speed (unit: km/hr)               | Stopping distance (unit: |  |
|------------------------|---|--------------------------|--|
|                        | 8 · F · · · · /                                   | meters)                  |  |
| basic no-load state in | 20 (the value being concerned when the max. speed | 5                        |  |
| running                | less than 20 km/hr)                               | 5                        |  |
| basic load state in    | 10 (the value being concerned when the max. speed | 2.5                      |  |
| running                | less than 10 km/hr)                               |                          |  |

### Remark:

- The "basic no-load state in running" referred in the table means the state that the telescopic arm is fully
  retracted to make the mast being vertical, the fork being level and the top of the lift being 30 centimeters
  above the ground.
- 2. The "basic load state in running" referred in the table means the state that the mast and the fork are in the maximum backward tilt.

#### 附表十四

| 堆 高 機 狀 態    | 坡 度(單位:%) |  |  |
|--------------|-----------|--|--|
| 走行時之基準無負荷狀態。 | 20        |  |  |
| 走行時之基準負荷狀態。  | 15        |  |  |

#### 備註:

- 一、本表所稱「走行時之基準無負荷狀態」,指伸臂完全縮回,使桅桿垂直,貨叉呈水平,貨叉上端距離地面 30 公分狀態。
- 二、本表所稱「走行時之基準負荷狀態」,指在基準負荷狀態下,桅桿及貨叉呈最大後傾狀態。

#### Attaching table 14

| Lift-truck states              | The slope ( unit : %) |  |  |
|--------------------------------|-----------------------|--|--|
| basic no-load state in running | 20                    |  |  |
| basic load state in running    | 15                    |  |  |

#### Remark:

- 1. The "basic no-load state in running" referred in the table means the state that the telescopic arm is fully retracted to make the mast being vertical, the fork being level and the top of the lift being 30 centimeters above the ground.
- 2. The "basic load state in running" referred in the table means the state that the mast and the fork are in the maximum backward tilt.

# 附表十五

| 研磨輪種類           | 尺寸(單位:毫米) |       |         |  |  |  |
|-----------------|-----------|-------|---------|--|--|--|
| 10万)岩輔性與        | 直徑        | 厚度    | 孔 徑     |  |  |  |
| T. 去 TV.TT 底 tA | 205 以上    | 19 以上 | 直徑之 1/2 |  |  |  |
| 平直形研磨輪          | 305 以下    | 25 以下 | 且任之 1/2 |  |  |  |
| 盤形研磨輪           | 180       | 6     | 22      |  |  |  |

|                         | Sizes (unit: millimeters) |           |                          |  |  |  |
|-------------------------|---------------------------|-----------|--------------------------|--|--|--|
| Grinding wheel types    | diameter                  | thickness | hole diameter            |  |  |  |
| Straight grinding wheel | over 205                  | over 19   | h-16 -6 d 1'             |  |  |  |
|                         | below 305                 | below 25  | one half of the diameter |  |  |  |
| Dish grinding wheel     | 180                       | 6         | 22                       |  |  |  |

# 附表十六

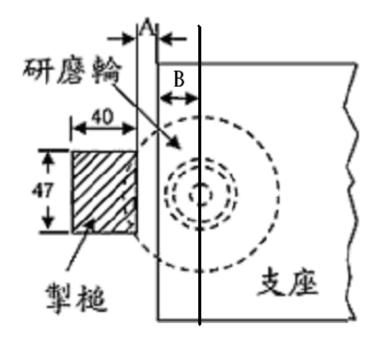
|            | 門衣                    |  | 加度技术类层用用注度阻     | 定/四 A · 八 □ 爪小 |  |  |
|------------|-----------------------|--|-----------------|----------------|--|--|
| 研煙         | 善輪種                   | 類  | 研磨輪之普通使用周速度限    |                |  |  |
| -7 17      |                       |  | 結合劑為無機物時        | 結合劑為有機物時       |  |  |
|            | 未                     | 一般用者   | 33              | 50             |  |  |
| 平          | 補                     | 超重研磨用者   | -               | 63             |  |  |
| 直          | 強                     | 螺絲研磨用及溝槽之研磨用者  | 63              | 63             |  |  |
| 形          | 者                     | 曲柄軸及凸輪軸之研磨用者   | 45              | 50             |  |  |
| 研          | 經                     | 直徑 100 毫米以下,厚度 25 毫米以下者  | -               | 80             |  |  |
| 磨          | 補                     | 直徑超過 100 毫米, 205 毫米以下; 厚度 13                                       |                 | 72             |  |  |
| 輪          | 強                     | 毫米以下者  | -               | 72             |  |  |
|            | 者                     | 其他尺寸者  | -               | 50             |  |  |
| 單余         | 斗形研                   | ·<br>F磨輪、雙斜形研磨輪、單凹形研磨輪、雙凹  |                 | 50             |  |  |
|            |                       | 、安全形研磨輪、皿形研磨輪及鋸用研磨輪  | 33              | 50             |  |  |
| 楔形         | / 分研                  | 一般用者   | 33              | 50             |  |  |
| 磨輔         |                       | 螺絲研磨用及溝槽之研磨用者  | 63              | 63             |  |  |
| 留学         | 形                     | 一般用者   | 33              | 50             |  |  |
|            |                       | 曲柄軸及凸輪軸之研磨用者   | 45              | 50             |  |  |
| _          |                       | 輪及環形之環片式研磨輪  | 30              | 35             |  |  |
|            |                       | · · · · · · · · · · · · · · · · · · ·                              | 30              | 40             |  |  |
|            |                       | · · · · · · · · · · · · · · · · · · ·                              | 33              | 45             |  |  |
|            | 5<br>好<br>好<br>好<br>煙 |  |                 |                |  |  |
|            | (直徑                   |  |                 | 57             |  |  |
|            | 毫米                    | 1 + 1110 3 = 2   |                 |                |  |  |
|            | - 厚度                  |  |                 |                |  |  |
|            |                       | 人<br>經補強   |                 | 72             |  |  |
| 下者         | 七/N/s<br>子)           | 个   終  | -               | 12             |  |  |
|            | <u>1 /</u><br>削研磨     | - L<br>- L<br>- L<br>- L<br>- L<br>- L<br>- L<br>- L<br>- L<br>- L |                 | 63             |  |  |
| 輪          | (1 th)   1/4E         | 經補強  |                 | 80             |  |  |
|            | <b>‡</b> : É          | -  | <u>「</u><br>6首。 | 00             |  |  |
| 旧正         | г. ⊏                  | 100/1 朔// 之明/石轴取间及用/河丛/文似 1 农历                                     | <del>等</del>    |                |  |  |
| <b>齢</b> 7 | 研庫                    | 輪之最高使用周速度  |                 |                |  |  |
|            | を尺と                   |  | 換算(公尺\秒)        |                |  |  |
| 650        |                       | • /  | 33              |                |  |  |
| 850        |                       |  | 45              |                |  |  |
| 950        |                       |  | 50              |                |  |  |
| 120        | 00                    |  | 60              |                |  |  |
| 160        |                       |  | 80              |                |  |  |
| 200        | 00                    |  | 100             |                |  |  |

|                   | ining table 10                                  | 1: ': C 1 :   |                                |  |  |
|-------------------|---|---|--------------------------------|--|--|
|                   |   | limitation of general using peripheral velocity for ginding wheel( unit: meters/second) |                                |  |  |
| Grinding          | wheel types                                     | Bonder being <i>inorganic</i> Bonder being <i>orgnic</i>                                |                                |  |  |
|                   |   |   | 0 0                            |  |  |
|                   | 1 1 1   | substance   | substance                      |  |  |
| no                | general grinding use                            | 33  | 50                             |  |  |
|                   | overweight grinding                             | -   | 63                             |  |  |
| ohto forc         | screw grinding or slot grinding                 | 63  | 63                             |  |  |
| ghtg<br>rindi     | crankshaft or cam shaft grinding                | 45  | 50                             |  |  |
| ng rein           | diameter below 100 milimiters, thickness        | L   | 80                             |  |  |
| whe force         | below 25milimeters                              |   | 00                             |  |  |
| el ed             | diameter over 100 minimeters and below 203      |   | 72                             |  |  |
| Ci Eu             | milimiters, thickness below 13milimeters        |   |                                |  |  |
|                   | other sizes                                     | -   | 50                             |  |  |
| tapered o         | ne-side, tapered two-side, one-concaved,        |   |                                |  |  |
| two-cond          | eaved, safety, saucer-shaped or sawing-use      | 33  | 50                             |  |  |
| grinding          |   |   |                                |  |  |
| wedge             | general grinding use                            | 33  | 50                             |  |  |
| grinding<br>wheel | screw grinding or slot grinding                 | 63  | 63                             |  |  |
| gap-              | general grinding use                            | 33  | 50                             |  |  |
| type              |   |   |                                |  |  |
| grinding          |   | 45  | 50                             |  |  |
| wheel             | crankshaft or cam shaft grinding                | 45  | 50                             |  |  |
|                   |   |   |                                |  |  |
|                   | ng- piece grinding wheel                        | 30  | 35                             |  |  |
|                   | cup or taper-cup grinding wheel                 | 30  | 40                             |  |  |
|                   | -shaped grinding wheel or                       | 33  | 45                             |  |  |
|                   | -shaped-ring-piece grinding wheel               | 33  | 7.7                            |  |  |
| dish              |   |   |                                |  |  |
| grinding          | noreinforced                                    | _   | 57                             |  |  |
| wheel(di          | a   |   | 37                             |  |  |
| meter             |   |   |                                |  |  |
| below 23          |   |   |                                |  |  |
| milimete          |   |   |                                |  |  |
| thickness         |   | -   | 72                             |  |  |
| below 10          |   |   |                                |  |  |
| milimete          |   |   |                                |  |  |
| cutting           | noreinforced                                    | -   | 63                             |  |  |
| grinding          | reinforced                                      | _   | 80                             |  |  |
| wheel             |   | 6   |                                |  |  |
|                   | The heightest using peripheral velocity for the | toreign inputs in accordance  | with the following table to do |  |  |
| conversion        |   |   |                                |  |  |
|                   | using peripheral velocity( ins/minute)          | Conversion(meters/second)   |                                |  |  |
| 6500              |   | 33  |                                |  |  |
| 8500              |   | 45  |                                |  |  |
| 9500              |   | 50  |                                |  |  |
| 12000             |   | 60  |                                |  |  |
| 16000             |   | 80  |                                |  |  |
| 20000             |   | 100   |                                |  |  |

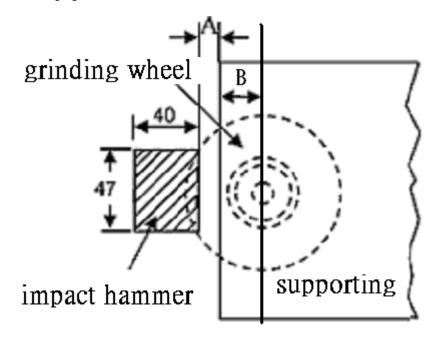
# 附表十七

| 研 磨 輪 種 類   | 結合劑種類 | 數值   |
|---|-------|------|
| 單斜形研磨輪、雙斜形研磨輪、單凹形研磨輪、<br>雙凹形研磨輪、安全形研磨輪、楔形研磨輪、皿<br>形研磨機、鋸用研磨輪、留空式研磨輪 | 無機物   | 1.0  |
| 1四 IT/ TIT (時を 本公   | 無機物   | 0.9  |
| 環形研磨輪   | 有機物   | 0.7  |
|   | 無機物   | 0.9  |
| 直杯形研磨輪、斜杯形研磨輪   | 有機物   | 0.8  |
| 鋸齒形研磨輪  | 無機物   | 1.0  |
|   | 有機物   | 0.87 |

| Grinding wheel types  | Bonder types                            | Values |
|---|---|--------|
| tapered one-side, tapered two-side, one-concaved, two-concaved, safety, wedge-shape, saucer-shape, sawing-use grinding wheel or gap-type grinding wheel | orgnic substance<br>inorganic substance | 1.0    |
|   | inorganic substance                     | 0.9    |
| ring ginding wheel  | orgnic substan                          | 0.7    |
|   | inorganic substance                     | 0.9    |
| straight-cup or tapered cup grinding wheel  | orgnic substance                        | 0.8    |
| savuta oth shound original wheel  | inorganic substance                     | 1.0    |
| sawtooth-shaped grinding wheel  | orgnic substance                        | 0.87   |



Attaching figure 2



# 附表十八

| 研磨輪之直徑    | 70 | 超過 70, | 超過 90, | 超過      | 超過        | 超過      | 超過      | 超過        | 超過 220 |
|-----------|----|--------|--------|---------|-----------|---------|---------|-----------|--------|
| (單位:毫米)   |    | 90 以下  | 110 以下 | 110,120 | 120 , 140 | 140,160 | 160,180 | 180 , 220 |        |
|           |    |        |        | 以下      | 以下        | 以下      | 以下      | 以下        |        |
| A(單位:毫米)  | 8  | 13     | 13     | 13      | 18        | 30      | 38      | 42        | 42     |
| B (單位:毫米) | 19 | 19     | 27     | 36      | 36        | 36      | 36      | 36        | 52.5   |

| Diameter of    | 70 | Over 70 | over 90   | over 110  | over 120  | over 140  | over 160  | over 180  | over 220 |
|----------------|----|---------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| grinding wheel |    | Below   | below 110 | below 120 | below 140 | below 160 | below 180 | below 220 |          |
| (unit:         |    | 90      |           |           |           |           |           |           |          |
| millimeters)   |    |         |           |           |           |           |           |           |          |
| A (unit:       | 8  | 13      | 13        | 13        | 18        | 30        | 38        | 42        | 42       |
| millimeters)   |    |         |           |           |           |           |           |           |          |
| B (unit:       | 19 | 19      | 27        | 36        | 36        | 36        | 36        | 36        | 52.5     |
| millimeters)   |    |         |           |           |           |           |           |           |          |

### 附表十九

衝擊值(單位:焦耳/毫米 2)= $\frac{E}{LT}$ 

式中,E、L及T值如下:

E:衝擊試驗中所得之吸收能量(單位:焦耳)

L:依下列公式計算所得之剖面之弦長(單位:毫米)

$$L = 2\sqrt{R^2 - B^2}$$

R:研磨輪半徑(單位:毫米)

B: 附表十八所定之 B 值(單位:毫米) T: 供試驗研磨輪之厚度(單位:毫米)

Attaching table 19

Impact value (J/millimeter2)= $\frac{E}{LT}$ 

Where,

E: absorbed energy during impact testing (unit: J)

L: chord length of the profile as calculated by the following formulas (unit: millimeter)

$$L = 2\sqrt{R^2 - B^2}$$

R: radius of the grinding wheel (unit: millimeter)

B: the value of B specified in Attaching table 18 (unit: millimeter)

 $\boldsymbol{T}$  : thickness of grinding wheels for testing (unit: millimeter)

附表二十

| 研磨輪之最高使 |       |                         | 尺寸(單位:毫米)                               |                                |                             |                 |  |                           |            |
|---------|-------|-------------------------|---|--------------------------------|-----------------------------|-----------------|--|---------------------------|------------|
| 用周速度區分  |       | 研磨輪種類                   |   | 厚度(T)                          | 孔徑<br>(H)                   | 凹徑(P)           | 裝設部之厚度<br>(E)                          | 裝設部之平<br>行部分之徑<br>(J 或 K) | 邊緣厚<br>(W) |
| 普通速度    | ¥.    | 全部                      | 切割研磨<br>輪為 1500<br>以下                   |                                |                             | 1.02Df+         | 直杯形及斜杯形為 T/4 以上,單凹形、雙凹形、皿形及鋸用皿形為T/2 以上 | Df+2R 以上                  | E以下        |
|         | 45 以下 | 平面形、單斜形、單形、雙斜形、單凹形、雙凹形、 | 1065 以下                                 | D/75 以<br>上 D(D<br>≦610)<br>以下 |                             | 1.02Df+<br>4 以上 | (2/3)T 以上                              | Df+2R 以上                  |            |
| 普通速度以外  |       | 平面形、單斜形、單形、雙斜形、單凹形、雙凹形、 | 1065 以下<br>below                        | D/50 以<br>上<br>305 以<br>下      |                             | 1.02Df+<br>4 以上 | (2/3)T 以上                              | Df+2R 以上                  |            |
| 之速度     |       | 平直形、楔形、<br>安全形及切割       | 切割研磨<br>輪為 1500<br>以下,其<br>他為 760<br>以下 | D/50 以<br>上<br>152 以<br>下      | 0.33D<br>以下                 |                 |  | Df+2R 以上                  |            |
|         |       | 平直形、楔形、<br>安全形及切割       | 切割研磨<br>輪為 1500<br>以下,其<br>他為 760<br>以下 | D/50 以<br>上<br>80 以下           | 0.2D<br>以下<br>below<br>0.2D |                 |  | Df+2R 以上                  |            |

# 備註

一、表中,Df 為固定緣盤之直徑,R 為凹槽圓角之內半徑。

二、表中未訂定之值為任意值。

|   |                            |   | (unit : milli  | neters)                      |                      |                            |  |  |                          |
|---|----------------------------|---|--|------------------------------|----------------------|----------------------------|--|--|--------------------------|
| Highest us<br>peripheral<br>(unit:<br>meters/seco | velocity                   | Grinding wheel types  | Diameter<br>(D)  | Thickne ss (T)               | Hole<br>diame<br>ter | concave<br>diameter<br>(P) | thickness of<br>mounting<br>portion (E)  | diameter of<br>the parallel<br>portion of<br>the mounting<br>portion( J or<br>K) | edge<br>thickness<br>(W) |
| Normal ve   | locity                     | all   | below 1500<br>for cutting<br>grinding<br>wheel                             |                              | below<br>0.7D        | over<br>1.02Df+<br>4       | over T/4 for<br>straight-cup<br>shape ,<br>over T/2 for<br>one-concaved<br>,<br>two-concaved<br>, saucer or<br>sawing-use-sau<br>cer shape | over Df+2R   | below E                  |
|   |                            | Surface, tapered one-side, tapered two-side, one-concaved, two-concaved, safety, wedge-shaped, gap-shaped or protruding-type grinding wheel | below 1065   | Over D/75, below D(D≦ 610)   | below<br>0.6D        |                            | Over (2/3)T  | over Df+2R   |                          |
| Velocity<br>except the<br>normal<br>velocity      |                            | Surface, tapered one-side, tapered two-side, one-concaved, two-concaved, safety, wedge-shaped, gap-shaped or protruding-type grinding wheel | below 1065   | over<br>D/50<br>below<br>305 | below<br>0.5D        | over<br>1.02Df             | over (2/3)T  | over Df+2R   |                          |
|   | Over<br>60<br>below<br>80  | straight ,<br>wedge-shape , safety<br>or cutting  | below 1500<br>for cutting<br>grinding<br>wheel,<br>below 760<br>for others | over<br>D/50<br>below<br>152 | below<br>0.33        |                            |  | over Df+2R   |                          |
| Damark  | Over<br>80<br>below<br>100 | straight,<br>wedge-shape, safety<br>or cutting  | below 1500<br>for cutting<br>grinding<br>wheel,<br>below 760<br>for others | over<br>D/50<br>below<br>80  | below<br>0.2D        |                            |  | over Df+2R   |                          |

- Remark:
  1. Df is the diameter of fixed-flange and R is the fillet radius of the concave in the table.
  2. it is any value if it not been set in the table.

# 附表二十 一

| 研 磨 輪 種 類             | 安 裝 器 具        |  |  |  |
|-----------------------|----------------|--|--|--|
| 環形研磨輪及碟形研磨輪有螺帽杯形研磨輪、有 | 底座             |  |  |  |
| 螺帽砲彈形研磨輪等有螺帽之研磨輪      | 有螺帽之安裝器具       |  |  |  |
| 環片式研磨輪                | 環片安裝器具         |  |  |  |
| 帶柄研磨輪                 | 軸固定器具          |  |  |  |
| 安裝於精密內圓研磨機之內圓研磨軸上之平直  | 螺栓等安裝器具        |  |  |  |
| 形研磨輪                  | <b>縣性寺女农伯兵</b> |  |  |  |

| Type of gringing wheels   | installation equipment                  |
|---|---|
| ring or saucer-shape with nut grinding wheel, shell-shape with nut grinding wheel and others having nut grinding wheels | base installation equipment with nut    |
| ring-piece grinding wheel   | installation equipment for ring-piece   |
| shank grinding wheel  | fix installation for the shaft          |
| straight grinding wheel mounted on the inner grinding shaft of the precision inner grinding machine                     | installation equipment bolts and others |

# 附表二十二

| 研磨輪直徑(單位:毫米)        | 接觸寬度值(單位:毫米)        |
|---------------------|---------------------|
| 65 以下               | 超過 0.1Df,未滿 0.26Df  |
| 超過 65,355 以下        | 超過 0.08Df,未滿 0.18Df |
| 超過 355              | 超過 0.06Df,未滿 0.18Df |
| 備註:表中之 Df 為固定緣盤之直徑。 |                     |

| Diameter of grinding wheel (unit: millimeters)           | Contact width (unit: millimeters) |  |  |  |
|--|-----------------------------------|--|--|--|
| below 65   | over 0.1Df , less than 0.26Df     |  |  |  |
| over 65 , below 355                                      | over 0.08Df , less than 0.18Df    |  |  |  |
| over 355   | over 0.06Df , less than 0.18Df    |  |  |  |
| Remark: Df in the table is the diameter of fixed-flange. |                                   |  |  |  |

# 附表二十三

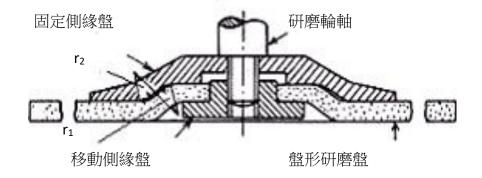
| 四藤松古师 ( 智      | K          |               |  |  |
|----------------|------------|---------------|--|--|
| 研磨輪直徑(單位:毫米)   | 普通速度使用之研磨輪 | 普通速度以外之速度使用之研 |  |  |
|                | 百旭还及使用之听褶轴 | 磨輪            |  |  |
| 未滿 610         | 0.13       | 0.15          |  |  |
| 610以上,未滿 760   | 0.11       | 0.13          |  |  |
| 760 以上,未滿 1065 | 0.10       | 0.12          |  |  |
| 1065 以上        | 0.08       | 0.10          |  |  |

| Diameter of onin dia a subset                  | K  | K   |  |  |  |
|--|--|---|--|--|--|
| Diameter of grinding wheel (unit: millimeters) | Grinding wheel used in a normal velocity | Grinding wheel except used in a normal velocity |  |  |  |
| less than 610                                  | 0.13                                     | 0.15  |  |  |  |
| 610 or more and less than 760                  | 0.11                                     | 0.13  |  |  |  |
| 760 or more and less than 1065                 | 0.10                                     | 0.12  |  |  |  |
| 1065 or more                                   | 0.08                                     | 0.10  |  |  |  |

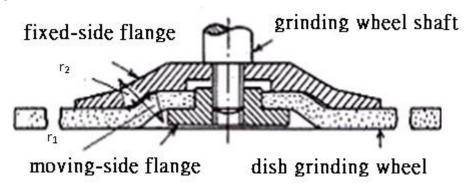
# 附表二十四

|                | 接觸寬度值(單位:毫米) |            |            |  |  |  |
|----------------|--------------|------------|------------|--|--|--|
| 加藤松吉勿(智み・喜火)   | 套式固定緣盤       | 接頭式固定緣盤    |            |  |  |  |
| 研磨輪直徑(單位:毫米)   | 普通速度使用之研磨輪   | 普通速度以外之速度使 | 普通速度使用之研磨輪 |  |  |  |
|                |              | 用之研磨輪      |            |  |  |  |
| 100以下          | 4            | 5          | 8          |  |  |  |
| 超過 100,125 以下  | 6            | 7          | 12         |  |  |  |
| 超過 125,205 以下  | 7            | 8          | 15         |  |  |  |
| 超過 205,305 以下  | 10           | 12         | 22         |  |  |  |
| 超過 305,405 以下  | 13           | 16         | 22         |  |  |  |
| 超過 405,610 以下  | 13           | 20         | 22         |  |  |  |
| 超過 610,1065 以下 | 16           | 25         | 32         |  |  |  |
| 超過 1065 以上     | 32           | 32         | -          |  |  |  |

|                            | Contact width (unit: millimeters) |                           |                          |  |  |  |
|----------------------------|-----------------------------------|---------------------------|--------------------------|--|--|--|
| Diameter of grinding wheel | the sleeve flange                 | The adaptive flange       |                          |  |  |  |
| (unit: millimeters)        | Grinding wheel used in a          | Grinding wheel except     | Grinding wheel used in a |  |  |  |
|                            | normal velocity                   | used in a normal velocity | normal velocity          |  |  |  |
| below 100                  | 4                                 | 5                         | 8                        |  |  |  |
| over 100 , below 125       | 6                                 | 7                         | 12                       |  |  |  |
| over 125 , below 205       | 7                                 | 8                         | 15                       |  |  |  |
| over 205 , below 305       | 10                                | 12                        | 22                       |  |  |  |
| over 305 , below 405       | 13                                | 16                        | 22                       |  |  |  |
| over 405 , below 610       | 13                                | 20                        | 22                       |  |  |  |
| over 610 , below 1065      | 16                                | 25                        | 32                       |  |  |  |
| over 1065                  | 32                                | 32                        | -                        |  |  |  |



### Attaching figure 3



# 附表二十五

|        | 值(單位:毫米) |        |        |       |        |        |  |
|--------|----------|--------|--------|-------|--------|--------|--|
| 盤形研磨輪  | 固定側緣盤之   | 移動側緣盤之 | 固定側緣盤之 | 導孔之直徑 | 附圖三所示之 | 附圖三所示之 |  |
| 直徑(單位: | 直徑       | 直徑     | 深度     |       | r1     | r2     |  |
| 毫米)    |          |        |        |       |        |        |  |
| 100以下  | 50       | 18     | 4.0    | 9.53  | 3.2    | 4.9    |  |
| 超過 100 | 100      | 40     | 4.8    | 22.23 | 10.0   | 10.0   |  |

備註:對於直徑 100 毫米之盤形研磨輪,其固定側緣盤直徑得為 80 毫米,移動側緣盤直徑得為 30 毫米, 導孔之直徑得為 16 毫米。

### Attaching table 25

|              | Values (unit: n | nillimeters)    |              |                 |                |                |
|--------------|-----------------|-----------------|--------------|-----------------|----------------|----------------|
| Diameter of  | Diameter of the | Diameter of the | Depth of the | Diameter of the | r1 as shown in | r2 as shown in |
| the straight | fixed-side      | moving-side     | fixed-side   | pilot hole      | Attaching      | Attaching      |
| grinding     | flange          | flange          | flange       |                 | figure 3       | figure 3       |
| wheel (unit: |                 |                 |              |                 |                |                |
| millimeters) |                 |                 |              |                 |                |                |
| below 100    | 50              | 18              | 4.0          | 9.53            | 3.2            | 4.9            |
| over 100     | 100             | 40              | 4.8          | 22.23           | 10.0           | 10.0           |

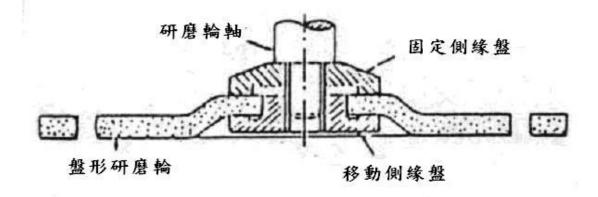
Note: For straight grinding wheel with diameter of 100 millimeters, the diameter of fixed-side flange may be 80 millimeters, that of moving-side flange may be 30 millimeters, and that of pilot hole may be 16 millimeters.

# 附表二十五之一

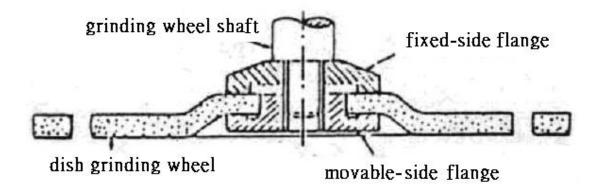
| 盤形研磨輪直徑       | 導 孔 之 | A S        | 象盤規格值(罩 | 單位:毫米) |     |
|---------------|-------|------------|---------|--------|-----|
| (單位:毫米)       | 直徑(單  | 緣盤直徑       | 接觸寬度    | 間隙深    | 間隙寬 |
|               | 位:毫   |            |         | 度      | 度   |
|               | 米)    |            |         |        |     |
| 未滿 80         |       | $20 \pm 1$ | 3以上     | 0.5 以上 | 1以上 |
| 80 以上,105 以下  | 10    | $20 \pm 1$ | 3以上     | 0.5 以上 | 1以上 |
| 60以上,103以下    | 16    | $29 \pm 1$ | 3以上     | 0.5 以上 | 1以上 |
| 超過 105,230 以下 |       | 41 ± 1     | 3以上     | 0.5 以上 | 1以上 |

### Attaching table 25-1

| Diameter of the         | Diameter of    | specification value of flange (unit: millimeters) |         |           |           |  |  |
|-------------------------|----------------|---|---------|-----------|-----------|--|--|
| straight grinding wheel | the pilot hole | Diameter  | Contact | clearance | clearance |  |  |
| (unit: millimeters)     | (unit:         | of flange   | width   | depth     | width     |  |  |
|                         | millimeters)   |   |         |           |           |  |  |
|                         |                |   |         |           |           |  |  |
|                         |                |   |         |           |           |  |  |
|                         |                |   |         |           |           |  |  |
|                         |                |   |         |           |           |  |  |
|                         |                |   |         |           |           |  |  |
| less than 80            |                | 20 ± 1  | Over 3  | Over 0.5  | Over 1    |  |  |
| Over 90 halovy 105      | 10             | 20 ± 1  | Over 3  | Over 0.5  | Over 1    |  |  |
| Over 80, below 105      | 16             | 29 ± 1  | Over 3  | Over 0.5  | Over 1    |  |  |
| Over 105, below 230     |                | 41 ± 1  | Over 3  | Over 0.5  | Over 1    |  |  |



Attaching figure 4



#### 附表二十六

| 研磨輪最高使用周速度(單位:公尺/秒) | 材料         |
|---------------------|------------|
| 33 以下               | 鑄鐵、可鍛鑄鐵或鑄鋼 |
| 超過 33,50 以下         | 可鍛鑄鐵或鑄鋼    |
| 超過 50               | 鑄鋼         |

備註:表中所列材料,應具有下列機械性質:

- 一、鑄鐵應具有符合國家標準 CNS 2472「灰口鐵鑄件」規定之 FC150 二種之規格之抗拉強度以上者。
- 二、可鍛鑄鐵抗拉強度值應在每平方毫米 32 公斤以上,延伸值在 8%以上。
- 三、鑄鋼抗拉強度值應在每平方毫米 37 公斤以上,延伸值在 15%以上,抗拉強度值(單位:公斤\平 方毫米)之 0.6 倍加延伸值(單位:%百分比)所得之值應在 48 以上。

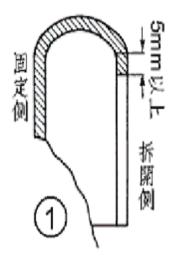
#### Attaching table 26

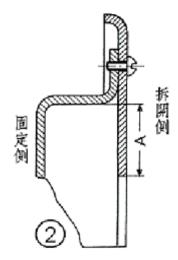
| highest using peripheral velocity (unit: meters/second) | materials                                    |
|---|--|
| below 33  | cast iron, malleable cast iron or cast steel |
| over33, below 50  | malleable cast iron or cast steel            |
| over 50   | cast steel                                   |

Remark: Materials in the table shall have the mechanical properties as followings:

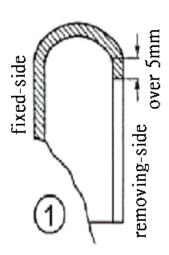
- The cast iron shall have a tensile strength over "gray iron castings" FC150 iron castings set in the national standards CNS 2472.
- 2. The tensile strength of the malleable cast iron shall be over 32 kgf per milimeters square and the elongation over 8%.
- 3. The tensile strength of the cast steel shall be over 37 kgf per milimeters square and the elongation over 15%. Moreover, the sum of the tensile strength multiplied by 0.6 and the elongation(unit: percent) shall be over 48.

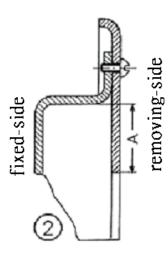
附圖五





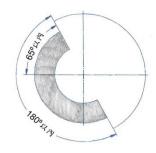
Attaching figure 5



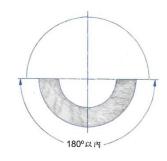


#### 附圖六

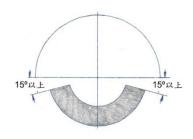
一、圓筒研磨機、無心研磨機、工具研磨機、萬能研磨機及其他類同之研磨機



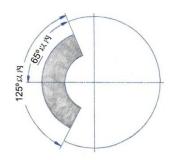
二、攜帶用研磨機、擺動式研磨機、鋼胚平板用研磨機及其他類同之研磨機



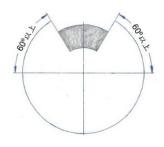
三、平面研磨機、切割用研磨機及其他類同之研磨機



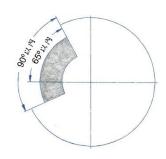
四、剷除鑄件毛邊等使用之桌上用研磨機或床式研磨機



五、使用研磨輪上端為目的之桌上用研磨機或床式研磨機

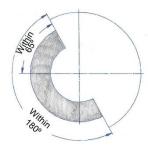


六、前二款以外之桌上用研磨機、床式研磨機及其他類同之研磨機

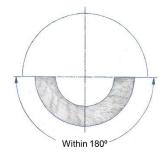


### Attaching figure 6

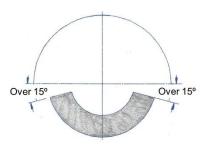
1. cylindrical grinding machine, tool grinding machine, universal grinding machine and the likes.



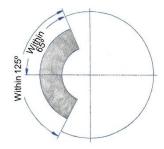
2. portable grinder, swing type grinder, billet flat grinding machine and the likes.



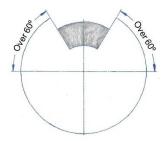
3. plan grinding machine, cutting grinder and the likes.



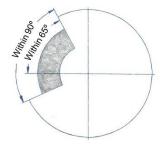
4. cast-deburring bench grinding machine or bed type grinding machine.



5. top-grinding bench grinding machine or top-grinding bed type grinding machine.



6. bench grinding machine, bed type grinding machine and the likes of that not included in the preceding two paragraphs.



附表二十七

|                |                  | 研磨輪   | 直徑  | 〔〔單      | 位:   | 毫米    | )    |       |          |      |          |       |      |        |          |
|----------------|------------------|-------|-----|----------|------|-------|------|-------|----------|------|----------|-------|------|--------|----------|
| 研磨輪最高<br>使用周速度 | 研磨輪厚度 (單位:毫      |       |     |          | 150  |       |      | 超過    | 405      | 超過   | 510      | 超過    | 610  | 超過7    | 60       |
| (單位:公尺/秒)      |                  | 150 以 | Γ'  | 305      | 以下   | 405 J | 以下   | 510 J | 以下       | 610  | 以下       | 760 . | 以下   | 1250 [ | 以下       |
| (単位・公人/炒)      | ハノ               | A     | В   | A        | В    | A     | В    | A     | В        | A    | В        | A     | В    | A      | В        |
|                | 50 以下            | 1.6   | 1.6 | 2.3      | 1.9  | 3.1   | 2.3  | 3.9   | 3.1      | 5.5  | 3.9      | 6.3   | 4.5  | 7.9    | 6.3      |
|                | 超過 50<br>100 以下  | 1.9   | 1.6 | 2.3      | 1.9  | 3.1   | 2.3  | 4.5   | 3.9      | 6.3  | 3.9      | 7.0   | 4.5  | 8.7    | 6.3      |
|                | 超過 100<br>150 以下 | 2.3   | 1.6 | 3.1      | 2.7  | 3.9   | 3.1  | 6.3   | 3.9      | 7.0  | 4.5      | 7.9   | 5.5  | 9.5    | 7.9      |
| 33 以下          | 超過 150<br>205 以下 | _     | _   | 3.9      | 3.5  | 5.5   | 4.5  | 6.3   | 4.5      | 7.0  | 4.5      | 7.9   | 5.5  | 9.5    | 7.9      |
|                | 超過 205<br>305 以下 | _     | _   | 4.5      | 4.3  | 5.5   | 4.5  | 6.3   | 4.5      | 7.0  | 4.5      | 7.9   | 5.5  | 9.5    | 7.9      |
|                | 超過 305 405 以下    | _     | _   | _        | _    | 7.0   | 6.3  | 7.9   | 6.3      | 8.0  | 6.3      | 9.0   | 6.7  | 11.0   | 8.7      |
|                | 超過 405 510 以下    | _     | _   | _        | _    | _     | _    | 8.7   | 7.0      | 8.7  | 7.0      | 9.5   | 8.7  | 12.7   | 10.0     |
| 超過 33,50 以下    |                  | 2.2   | 1.6 | 4.2      | 3.4  | 4.5   | 3.8  | 5.5   | 4.4      | 6.6  | 4.9      | 7.7   | 6.0  | 10.0   | 7.7      |
|                | 超過 50<br>100 以下  |       | 1.6 |          |      |       |      |       |          |      |          | 8.0   | 6.0  | 10.5   | 7.7      |
|                | 超過 100<br>150 以下 | 3.2   | 1.6 | 5.8      | 4.9  | 6.3   | 5.4  | 8.3   | 6.0      | 8.8  | 6.6      | 9.0   | 7.0  | 12.0   | 9.7      |
|                | 超過 150<br>205 以下 | _     | _   | 7.0      | 5.6  | 8.8   | 7.0  | 9.4   | 7.0      | 10.0 | 7.0      | 10.5  | 7.8  | 13.0   | 10.0     |
|                | 超過 205<br>305 以下 | _     | _   | 8.0      | 6.9  | 9.3   | 7.7  | 9.9   | 7.7      | 10.5 | 7.7      | 11.0  | 8.3  | 14.5   | 11.0     |
|                | 超過 305 405 以下    | _     |     |          | _    | 10.5  | 9.4  | 12.0  | 9.9      | 12.5 | 9.9      | 13.6  | 10.8 | 17.0   | 13.0     |
|                | 超過 405 510 以下    | _     | _   | _        | _    | _     | _    | 13.0  | 11.0     | 13.0 | 11.0     | 14.5  | 12.7 | 19.0   | 16.0     |
|                | 50 以下            | 3.1   | 1.6 | 7.9      | 6.3  | 7.9   | 6.3  | 7.9   | 6.3      | 7.9  | 6.3      | 9.5   | 7.9  | 12.7   | 9.5      |
|                | 超過 50            |       |     |          |      |       |      |       |          |      |          |       | 7.9  | 12.7   | 9.5      |
|                | 超過 100<br>150 以下 | 4.7   | 1.6 | 11.0     | 9.0  | 11.0  | 9.5  | 11.0  | 9.5      | 11.0 | 9.5      | 11.0  | 9.5  | 17.4   | 12.0     |
| 超過 50,80 以下    | 超過 150           | _     | _   | 12.<br>7 | 9.5  | 14.0  | 11.0 | 14.0  | 11.0     | 14.0 | 11.0     | 14.0  | 11.0 | 19.0   | 12.7     |
|                | 超過 205 305 以下    | _     | _   | 14.<br>0 | 11.0 | 15.8  | 12.7 | 15.8  | 12.<br>7 | 15.8 | 12.<br>7 | 15.8  | 12.7 | 22.0   | 15.8     |
|                | 超過 305 405 以下    | _     | _   | _        | _    | 15.8  | 14.0 | 19.0  |          | 19.0 | 15.<br>8 | 20.0  | 17.4 | 26.9   | 20.0     |
|                | 超過 405<br>510 以下 | _     | _   | _        | _    | _     | _    | 20.0  | 17.<br>4 | 20.0 | 17.<br>4 | 22.0  | 19.0 | 30.0   | 23.8     |
| 備註:表中,A        |                  | 夏度,   | B為  | 護罩       | 側板   | 之厚原   | 变。   |       | 1        |      |          |       |      | 1      | <u>I</u> |

Attaching table 27

|  | 21  | Diamet   | er of  | grino               | ding v | vheel                | (unit | : mill                      | imete    | ers)                 |          |                      |          |        |         |
|--|---|----------|--------|---------------------|--------|----------------------|-------|-----------------------------|----------|----------------------|----------|----------------------|----------|--------|---------|
| highest<br>peripheral<br>velocity (unit:<br>meters/second) | Thickness of grinding wheel (unit: millimeters) | below    | 150    | over<br>belo<br>305 |        | over<br>belov<br>405 |       | over<br>405<br>belov<br>510 | W        | over<br>belov<br>610 | -        | over<br>belov<br>760 |          | over 7 |         |
|  |   | A        | В      | A                   | В      |                      | В     | A                           | В        | A                    | В        |                      | В        | A      | В       |
|  | below 50  | 1.6      | 1.6    | 2.3                 | 1.9    | 3.1                  | 2.3   | 3.9                         | 3.1      | 5.5                  | 3.9      | 6.3                  | 4.5      | 7.9    | 6.3     |
|  | over 50<br>below 100                            | 1.9      | 1.6    | 2.3                 | 1.9    | 3.1                  | 2.3   | 4.5                         | 3.9      | 6.3                  | 3.9      | 7.0                  | 4.5      | 8.7    | 6.3     |
|  | over 100<br>below 150                           | 2.3      | 1.6    | 3.1                 | 2.7    | 3.9                  | 3.1   | 6.3                         | 3.9      | 7.0                  | 4.5      | 7.9                  | 5.5      | 9.5    | 7.9     |
| below 33   | over 150<br>below 205                           |          | _      | 3.9                 | 3.5    | 5.5                  | 4.5   | 6.3                         | 4.5      | 7.0                  | 4.5      | 7.9                  | 5.5      | 9.5    | 7.9     |
|  | over 205<br>below 305                           |          | _      | 4.5                 | 4.3    | 5.5                  | 4.5   | 6.3                         | 4.5      | 7.0                  | 4.5      | 7.9                  | 5.5      | 9.5    | 7.9     |
|  | over 305<br>below 405                           | _        |        |                     | _      | 7.0                  | 6.3   | 7.9                         | 6.3      | 8.0                  | 6.3      | 9.0                  | 6.7      | 11.0   | 8.7     |
|  | over 405<br>below 510                           | _        | _      | _                   | _      | _                    | _     | 8.7                         | 7.0      | 8.7                  | 7.0      |                      | 8.7      | 12.7   | 10.0    |
| over 33  | below 50  | 2.2      | 1.6    | 4.2                 | 3.4    | 4.5                  | 3.8   | 5.5                         | 4.4      | 6.6                  | 4.9      | 7.7                  | 6.0      | 10.0   | 7.7     |
| below 50   | over 50<br>below 100                            | 2.4      | 1.6    | 4.4                 | 3.8    | 5.4                  | 4.2   | 6.6                         | 5.5      | 7.7                  | 5.5      | 8.0                  | 6.0      | 10.5   | 7.7     |
|  | over 100<br>below 150                           | 3.2      | 1.6    | 5.8                 | 4.9    | 6.3                  | 5.4   | 8.3                         | 6.0      | 8.8                  | 6.6      | 9.0                  | 7.0      | 12.0   | 9.7     |
|  | over 150<br>below 205                           |          |        | 7.0                 | 5.6    | 8.8                  | 7.0   | 9.4                         | 7.0      | 10.0                 | 7.0      | 10.5                 | 7.8      | 13.0   | 10.0    |
|  | over 205<br>below 305                           | _        |        | 8.0                 | 6.9    | 9.3                  | 7.7   | 9.9                         | 7.7      | 10.5                 | 7.7      | 11.0                 | 8.3      | 14.5   | 11.0    |
|  | over 305<br>below 405                           | _        | _      | _                   | _      | 10.5                 | 9.4   | 12.0                        | 9.9      | 12.5                 | 9.9      | 13.6                 | 10.8     | 17.0   | 13.0    |
|  | over 405<br>below 510                           | _        |        | _                   |        |                      |       | 13.0                        | 11.0     | 13.0                 | 11.0     | 14.5                 | 12.7     | 19.0   | 16.0    |
|  | below 50  | 3.1      | 1.6    | 7.9                 | 6.3    | 7.9                  | 6.3   | 7.9                         | 6.3      | 7.9                  | 6.3      | 9.5                  | 7.9      | 12.7   | 9.5     |
|  | over 50<br>below 100                            | 3.1      | 1.6    | 9.5                 | 7.9    | 9.5                  | 7.9   | 9.5                         | 7.9      | 9.5                  | 7.9      | 9.5                  | 7.9      | 12.7   | 9.5     |
|  | over 100<br>below 150                           | 4.7      | 1.6    | 11.0                | 9.0    | 11.0                 | 9.5   | 11.0                        | 9.5      | 11.0                 | 9.5      | 11.0                 | 9.5      | 17.4   | 12.0    |
| over 50<br>below 80  | over 150<br>below 205                           |          |        | 12.<br>7            | 9.5    | 14.0                 | 11.0  | 14.0                        |          |                      |          | 14.0                 | 11.0     | 19.0   | 12.7    |
|  | over 205<br>below 305                           |          |        | 14.<br>0            | 11.0   | 15.8                 | 12.7  | 15.8                        | 12.<br>7 | 15.8                 | 12.<br>7 | 15.8                 | 12.7     | 22.0   | 15.8    |
|  | over 305<br>below 405                           |          |        | _                   |        | 15.8                 | 14.0  | 19.0                        | 15.<br>8 | 19.0                 | 15.<br>8 | 20.0                 | 17.4     | 26.9   | 20.0    |
|  | over 405<br>below 510                           | _        |        | _                   | _      | _                    |       | 20.0                        | 17.<br>4 | 20.0                 | 17.<br>4 | 22.0                 | 19.0     | 30.0   | 23.8    |
| Remark: A is the   | peripheral plat                                 | e thickn | iess c | of the              | guaro  | l, B is              | the t | hickr                       | ess c    | of the               | guare    | d side               | e- plate | in the | table . |

# 附表二十八

| 材 | 料 | 種 | 類 | 係   | 數 |
|---|---|---|---|-----|---|
| 鑄 | 鐵 |   |   | 4.0 |   |
| 可 | 鍛 | 鑄 | 鐵 | 2.0 |   |
| 鑄 | 鋼 |   |   | 1.6 |   |

| Material kind       | coefficient |
|---------------------|-------------|
| Cast iron           | 4.0         |
| Malleable cast iron | 2.0         |
| Cast steel          | 1.6         |

# 附表二十九

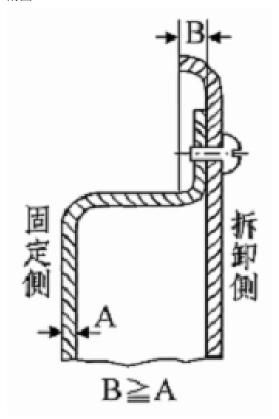
|             |          |       | 研磨輪直徑(單位:毫米) |      |       |       |      |           |  |
|-------------|----------|-------|--------------|------|-------|-------|------|-----------|--|
| 研磨輪之最高使用周   | 研磨輪厚度(單  | 護罩板之  |              | 超過   | 超過    | 超過    | 超過   | 超過        |  |
| 速度(單位:公尺\秒) |          | 區分    | 125 以下       | 125, | 150,  | 205,  | 255, | 305 , 355 |  |
|             | 一・毛小)    | 四刀    |              | 150以 | 205 以 | 255 以 | 305以 |           |  |
|             |          |       |              | 下    | 下     | 下     | 下    | 以下        |  |
|             | 22 N.T.  |       | 1.6          | 1.6  | 1.8   | 2.0   | 2.3  | 3.0       |  |
|             | 32 以下    | В     | 1.2          | 1.2  | 1.4   | 1.6   | 1.8  | 2.3       |  |
| 33 以下       | 超過 32,   | A     | _            | _    | _     | 2.0   | 2.3  | 3.0       |  |
|             | 50以下     | В     | _            | _    | _     | 1.6   | 1.8  | 2.3       |  |
|             | 22 N.F   | A     | 1.6          | 2.2  | 2.6   | 3.0   | 3.2  | 4.0       |  |
| 超過 33,      | 32 以下    | В     | 1.6          | 1.6  | 1.6   | 2.0   | 2.3  | 2.8       |  |
| 50以下        | 超過 32,   | A     | _            | _    | _     | 3.0   | 3.2  | 4.0       |  |
|             | 50 以下    | В     | _            | _    | _     | 2.0   | 2.3  | 2.8       |  |
| 備註:表中A表示護罩  | 之周邊板及固定例 | 則之側板; | B表示護         | 罩之拆卸 | 側之側板  | ī°    |      |           |  |

### Attaching table 29

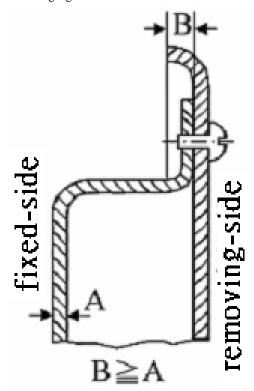
| 7 ttucining tubic 27                                    | 1                                  | 1                | 1  |                             |                             |                             |                             |                       |  |  |
|---|------------------------------------|------------------|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------|--|--|
|   | Thickness of                       |                  | Diameter of grinding wheel (unit: millimeters) |                             |                             |                             |                             |                       |  |  |
| Highest using peripheral velocity (unit: meters/second) | grinding wheel (unit: millimeters) | Guard plate type | below<br>125                                   | over<br>125<br>below<br>150 | over<br>150<br>below<br>205 | over<br>205<br>below<br>255 | over<br>255<br>below<br>255 | over 305<br>below 355 |  |  |
|   | 1 1 22                             | A                | 1.6  | 1.6                         | 1.8                         | 2.0                         | 2.3                         | 3.0                   |  |  |
| 1 1 22  | below 32                           | В                | 1.2  | 1.2                         | 1.4                         | 1.6                         | 1.8                         | 2.3                   |  |  |
| below 33  | over 32                            | A                | _  | _                           | _                           | 2.0                         | 2.3                         | 3.0                   |  |  |
|   | below 50                           | В                | _  | _                           | _                           | 1.6                         | 1.8                         | 2.3                   |  |  |
|   | 22                                 | A                | 1.6  | 2.2                         | 2.6                         | 3.0                         | 3.2                         | 4.0                   |  |  |
| over 33   | over 32                            | В                | 1.6  | 1.6                         | 1.6                         | 2.0                         | 2.3                         | 2.8                   |  |  |
| below   | over 32                            | A                | _  | _                           | _                           | 3.0                         | 3.2                         | 4.0                   |  |  |
|   | below 32                           | В                | _  | _                           | _                           | 2.0                         | 2.3                         | 2.8                   |  |  |

Remark: A indicates the plates of the peripheral and the fixed-side, B indicates the side plate of the guard-moving side in the table.

# 附圖七



# Attaching figure 7



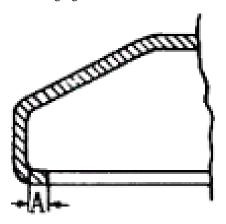
# 附表三十

| 研磨輪厚度(單位:毫米) | 數值(單位:毫米) |
|--------------|-----------|
| 10以下         | 1.6       |
| 超過 10        | 2.3       |

| Thickness of the grinding wheel( unit: millimeters) | Values ( unit: millimeters) |
|---|-----------------------------|
| below 10  | 1.6                         |
| over 10   | 2.3                         |

### 附圖八

### Attaching figure 8



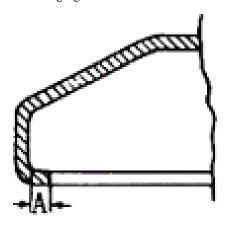
備註:A值對應於研磨輪之直徑(D),應在下列值以上:

D ≤ 125 <sub>時為 3</sub>

125 < D ≤ 180 時為 4

(單位:毫米)

### Attaching figure 8



Remark: According to the diameter of the grinding wheel(D), A shall be over the value as followings:

 $_{4 \text{ when}} 125 < D \le 180$ 

 $_{5 \text{ when}} 180 < D \le 230$ 

(unit: millimeters)

# 附表三十 一

| 研磨輪厚度 (單位:毫             | 護罩板 | 研 磨 輪 直 | 徑 (單位:毫分      | 长)           |              |              |
|-------------------------|-----|---------|---------------|--------------|--------------|--------------|
| 米)                      | 之區分 | 205 以下  | 超過 205,305 以下 | 超過 305,510 以 | 超過 510,760 以 | 超過 760,915 以 |
|                         |     | 203 以下  | <u> </u>      | 下            | 下            | 下            |
| 6 以下                    | A   | 1.6     | 2.0           | 2.5          | 4.0          | 5.0          |
| 0以下                     | В   | 1.2     | 1.6           | 2.0          | 2.8          | 4.0          |
| 超過 6,13                 | A   | 2.0     | 2.3           | 3.2          | 5.0          | 6.3          |
| 以下                      | В   | 1.6     | 1.8           | 2.5          | 3.2          | 5.0          |
| 備註:表中A表示護罩之周邊板,B為護罩之側板。 |     |         |               |              |              |              |

| Time in the second seco |  |                   |  |           |           |           |
|--|--|-------------------|--|-----------|-----------|-----------|
| Thickness of the grinding  | Guard  | Diameter of grind | Diameter of grinding (unit: millimeters) |           |           |           |
| wheel (unit:   | plate  | 1 1 205           | over 205                                 | over 305  | over 510  | over 760  |
| millimeters)   |  | below 205         | below 305                                | below 510 | below 760 | below 915 |
| below 6  | A  | 1.6               | 2.0                                      | 2.5       | 4.0       | 5.0       |
| below 6  | В  | 1.2               | 1.6                                      | 2.0       | 2.8       | 4.0       |
| over 6   | A  | 2.0               | 2.3                                      | 3.2       | 5.0       | 6.3       |
| below 13   | В  | 1.6               | 1.8                                      | 2.5       | 3.2       | 5.0       |
| Remark: A inc  | Remark: A indicates the peripheral plate of the guard, B is the side plate of the guard. |                   |  |           |           |           |

# 附表三十二

| 鋁之抗拉強度值(單位:公斤\平方毫米) | 係數  |
|---------------------|-----|
| 18 以上,未滿 23         | 3.0 |
| 23 以上,未滿 31         | 2.5 |
| 31以上                | 2.0 |

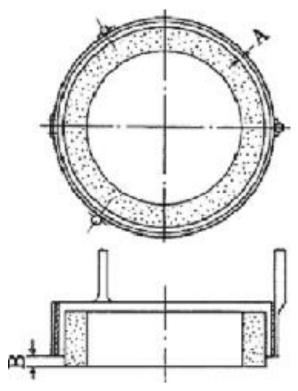
| Tensile strength of aluminum (unit: kgf/per square millimeters) | coefficient |
|---|-------------|
| over 18 and below 23  | 3.0         |
| over 23 and below 31  | 2.5         |
| over 31   | 2.0         |

# 附表三十三

| 研磨輪直徑(單位:毫米)  | 護罩厚度值(單位:毫米) |
|---------------|--------------|
| 205 以下        | 1.6          |
| 超過 205,610 以下 | 3.2          |
| 超過 610        | 6.3          |

| Diameter of grinding wheel (unit: millimeters) | Thickness of the guard (unit: millimeters) |
|--|--|
| below 205                                      | 1.6  |
| over 205 and below610                          | 3.2  |
| over 610                                       | 6.3  |

### 附圖九



### 備註:

1.對應於研磨輪直徑(D)

A 之最大值如下:

D≤205 <sub>時為 5</sub>

205 ≺ D ≤ 610 時為 7

D ≻ 610 時為 10

(單位:毫米)

2.對應於研磨輪厚度(T)

B 之最大值如下:

T ≤ 25 時為 0.5T

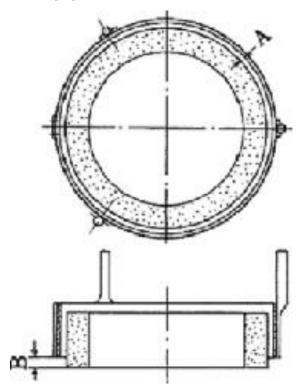
 $25 \prec T \leq 50$  時為 0.4T

50 ≺ T ≤ 150 時為 0.33T

T≻150 <sub>時為 50</sub>

(單位:毫米)

### Attaching figure 9



#### Remark:

1. corresponding the diameter of the grinding wheel(D)

Maximum of A is as followings:

$$_{5 \text{ when}} D \le 205$$

$$_{7 \text{ when}}$$
  $205 \prec D \leq 610$ 

$$_{10 \text{ when}} D > 610$$

(unit: millimeters)

2. corresponding the thickness of the grinding wheel(T)

Maximum of B is as followings:

$$_{0.5T\,when}$$
  $T \le 25$ 

$$_{0.4T \text{ when}} 25 \prec T \leq 50$$

$$0.33T \text{ when } 50 \prec T \le 150$$

$$_{50 \text{ when}} \text{ T} > 150$$

(unit: millimeters)

### 附表三十四

| 研磨輪厚度(單位:毫米)   | 直徑(單位:毫米) | 個 數 |
|----------------|-----------|-----|
| 150 以下         | t ×1.6    | 2   |
| 超過 150         | t ×2.0    | 2   |
| <b>尼 担 130</b> | t ×1.4    | 4   |

# 備註:

- 一、表中 t 為舌板厚度。
- 二、直徑欄所列數值未滿5毫米者,視為5毫米。

### Attaching table 34

| Thickness of the grinding wheel (unit millimeters) | Diameter (unit: millimeters) | Numbers |
|--|------------------------------|---------|
| below 150  | t ×1.6                       | 2       |
| 150  | t ×2.0                       | 2       |
| over 150   | t ×1.4                       | 4       |

### Remark:

- 1. t is the thickness of the tonge plate.
- 2. the value in the column for diameter( unit: millimeters) is corncerned 5 milimeters if it is below 5 milimeters.

# 附表三十五

| 衝壓機械種類       | 機械規格                                 |
|--------------|--------------------------------------|
|              | 一、壓力能力(單位:噸)                         |
|              | 二、行程數(單位:每分鐘行程數)                     |
|              | 三、行程長度(單位:毫米)                        |
| 機械式摺床以外之衝    | 四、模高(單位:毫米)                          |
| 壓機械          | 五、滑塊等之調節量(單位:毫米)                     |
|              | 六、最大停止時間(Tl+Ts 之合計時間或 Tm)(單位:毫秒 )    |
|              | 七、超限運轉監視裝置之設定位置(曲軸偏心軸等上死點與設定停止點間之角度) |
|              | 八、離合器嚙合處之數目(限確動式離合器)                 |
|              | 一、壓力能力(單位:噸)                         |
|              | 二、行程數(單位:每分鐘行程數)                     |
|              | 三、行程長度(單位:毫米)                        |
| 機械式摺床        | 四、工作台長度(單位:毫米)                       |
|              | 五、間隙深度(單位:毫米)                        |
|              | 六、最大停止時間(單位:毫秒 )                     |
|              | 七、超限運轉監視裝置之設定位置                      |
|              | 一、壓力能力(單位:噸)                         |
| 液壓式摺床以外之液    | 二、行程長度(單位:毫米)                        |
| 壓衝床          | 三、滑塊等之最大下降速度(單位:毫米/每秒)               |
| <b>建</b> 国// | 四、慣性下降值(單位:毫米)                       |
|              | 五、最大停止時間(單位:毫秒 )                     |
|              | 一、壓力能力(單位:噸)                         |
| 液壓式摺床        | 二、行程長度(單位:毫米)                        |
|              | 三、工作台長度(單位:毫米)                       |
|              | 四、間隙深度(單位:毫米)                        |
|              | 五、滑塊等之最大下降速度(單位:毫米/每秒)               |
|              | 六、慣性下降值(單位:毫米)                       |
|              | 七、最大停止時間(單位:毫秒 )                     |

| Types of press mechine | Machine specifications   |
|------------------------|--|
|                        | 1. capacity (unit: tons)   |
|                        | 2. strokes (unit: stroke per minute)   |
|                        | 3. stroke (unit: millimeters)  |
| The press machine      | 4. die height (unit: millimeters)  |
| except the mechanical  | 5. slider adjustment (unit: millimeters)   |
| press brake            | 6. the maximum stop time (the sum of Tl+Ts or Tm) (unit: miliseconds)                  |
|                        | 7. setting position of the over running monitor (angle between crankat top dead center |
|                        | with the set stop point).  |
|                        | 8. engagement numbers of clutch (only for positive clutch)                             |
|                        | 1. capacity (unit :tons)   |
|                        | 2. strokes (unit: stroke per minute)   |
| The mechanical press   | 3. stroke (unit: millimeters)  |
| brake                  | 4. table length (unit: millimeters)  |
| brake                  | 5. gap depth (unit: millimeters)   |
|                        | 6. maximum stop time (unit: milliseconds)  |
|                        | 7. setting position of the over running monitor  |
|                        | 1. capacity (unit :tons)   |
| The hydrautic press    | 2. stroke (unit: millimeters)  |
| except the hydrautic   | 3. the slider maximum dropping speed (unit: millimeters)                               |
| press brake            | 4. inertial descending value (unit: milliseconds)                                      |
|                        | 5. maximum stop time (unit: milliseconds)  |
|                        | 1. capacity (unit :tons)   |
|                        | 2. stroke (unit: millimeters)  |
| The hydrautic press    | 3. table length (unit: millimeters)  |
|                        | 4. gap depth (unit: millimeters)   |
| Stake                  | 5. the slider maximum dropping speed (unit: millimeters)                               |
|                        | 6. inertial descending value (unit: milliseconds)                                      |
|                        | 7. maximum stop time (unit: milliseconds)  |