

**Model: AEG-1424AGC**

# 精密萬能圓筒磨床

UNIVERSAL CYLINDRICAL GRINDING MACHINE



Swing over table: 350mm    Center distance: 600mm

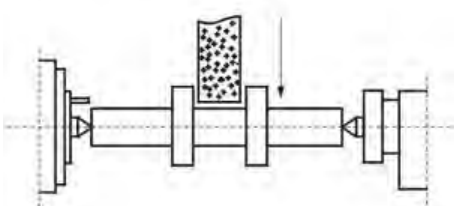
# AEG-1124 H/ AEG-1424H

- Swing over table: 270, 350mm
- Between centers: 600mm

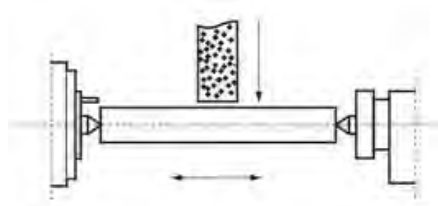


# AEG-1130A / AEG1430A

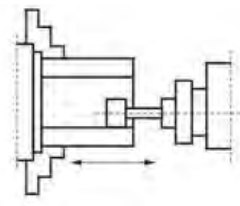
- Swing over table: 270, 350mm
- Between centers: 750mm



- Plunge grinding



- Traverse grinding



- Internal grinding



# AEG-1248AGC / AEG-1548AGC

- Swing over table: 300, 380mm
- Between centers: 1200mm



- **Type**

**A:** Hydraulic table traverse and manual wheel-head cross feed.

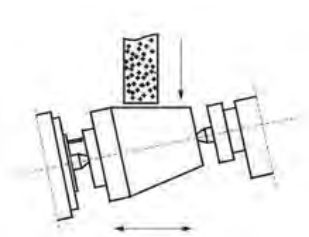
**H:** Hydraulic table traverse, wheelhead rapid approach and retraction as well as manual wheel-head cross feed.

**AGC:** Hydraulic table traverse, wheelhead rapid approach and retraction as well as auto wheel-head cross feed.

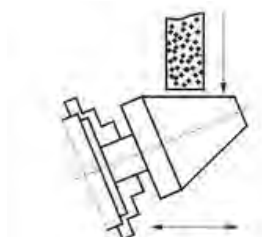
- **Hydrodynamic bearing spindle**



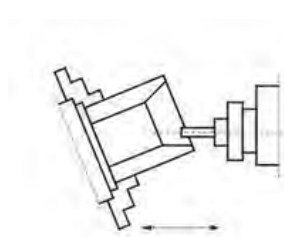
- **Precision grinding of table**
- **Handscraped ways**



- **Taper grinding**



- **Held on taper grinding**



- **Internal taper grinding**

## Standard accessories

- Extractor 1 PC
- Wheel balancing arbor 1 PC
- Diamond dressing holder 1 PC
- Grinding wheel and flange 1 Set
- Tungsten carbide full centers 2 Pcs
- Table swivel angle measuring device 1 Set
- Lubricant supply unit 1 Set
- Coolant supply unit 1 Set
- Hydraulic supply unit 1 Set
- Work lamp 1 Set
- Tools and tool box 1 Set
- Operation manual 1 Set



## Optional Accessories

- **A1** Internal grinding attachment
- **A2** Double-shoe steady rest
- **A3** Triple-shoe steady rest
- **A4** 3-Jaw chuck and plate
- **A5** 4-Jaw chuck and plate
- **A6** Magnetic chuck and plate
- **A7** Magnetic coolant separator
- **A8** Paper filter
- **A9** Angle dresser
- **A10** Radius dresser
- **A11** Wheel balancing stand
- **A12** Spare wheel flange
- **A13** Tungsten carbide half center
- **A14** Automatic dog set (6 Pcs/Set)
- **A15** Swing down manual sizing gauge
- **A16** Microfeeder for wheelhead
- **A17** Work rest (2 Pcs/Set)
- **A18** Hydraulic tailstock
- **A19** Manual collet chuck device
- **A20** Digital read out

## Optional Accessories



**A1 Internal grinding attachment**



**A2 Double-shoe steady rest**



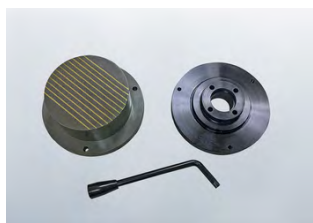
**A3 Triple-shoe steady rest**



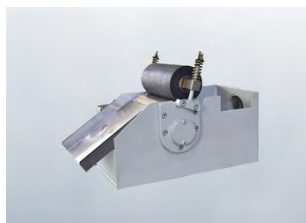
**A4 3-Jaw chuck and plate**



**A5 4-Jaw chuck and plate**



**A6 Magnetic chuck and plate**



**A7 Magnetic coolant separator**



**A8 Paper filter**



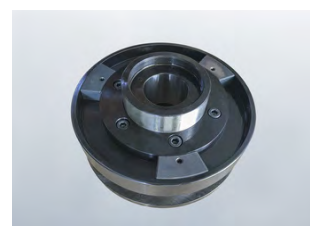
**A9 Angle dresser**



**A10 Radius dresser**



**A11 Wheel balancing stand**



**A12 Spare wheel flange**



**A13 Tungsten carbide half center**



**A14 Auto dog set (6 PCS/Set)**



**A15 Swing down manual sizing gauge**



**A16 Microfeeder for wheelhead**



**A17 Work rest (2 PCS/Set)**



**A18 Hydraulic tailstock**



**A19 Manual collet chuck**



**A20 Digital read out**



## Internal Grinding attachment



- I.D. Spindle 1 Set
- Quills 3 Pcs
- I.D. Belt 1 Pc
- I.D. Grinding wheels 3 Pcs
- Zigzag Open Wrench 1 Pc
- Adapter with Collet 1 Set
- Micro-feed dresser 1 Set



## Grinding Scope

| RPM       | Hole Dia.  | Length    |
|-----------|------------|-----------|
| 8,000rpm  | 60 ~ 200mm | 0 ~ 150mm |
| 10,000rpm | 45 ~ 65mm  | 0 ~ 110mm |
| 20,000rpm | 25 ~ 45mm  | 0 ~ 100mm |
| 35,000rpm | 12 ~ 25mm  | 0 ~ 60mm  |
| 40,000rpm | 10 ~ 20mm  | 0 ~ 45mm  |
| 50,000rpm | 6 ~ 12mm   | 0 ~ 24mm  |

## 主要規格

單位 Unit : mm

| 標準規格 Standard Specifications                            |                                         |                                      | 1124                                                         | 1424 | 1130        | 1430 |
|---------------------------------------------------------|-----------------------------------------|--------------------------------------|--------------------------------------------------------------|------|-------------|------|
| 能 量 Capacity                                            | 床面旋徑 Swing over table                   |                                      | 270                                                          | 350  | 270         | 350  |
|                                                         | 兩頂心間距離<br>Distance between centers      |                                      | 600                                                          | 600  | 750         | 750  |
|                                                         | 頂心工件最大重量<br>Max. Work-piece weight (kg) | 頂心工作<br>Center work (kg)             | 60                                                           |      | 80          |      |
|                                                         |                                         | 只有工作頭<br>Work-head only (kg)         | 20                                                           |      |             |      |
| 砂輪頭及進給<br>Wheel-head and feed                           | 旋轉角度 Swivel angle                       | 左 / 右                                | ±15°                                                         |      |             |      |
|                                                         | 標準砂輪尺寸<br>Standard wheel dimensions     | 外徑 x 寬 x 內徑<br>O.D. x Width x I.D.   | 405 x 32 - 50 x 152.4                                        |      |             |      |
|                                                         | 砂輪軸轉速 Spindle speed                     | R. P. M.                             | 1650                                                         |      |             |      |
|                                                         | 移動距離 Traverse length                    |                                      | 250                                                          |      |             |      |
|                                                         | 快速進給行程<br>Rapid feed stroke (#)         |                                      | 40                                                           |      |             |      |
|                                                         | 自動進給量 Auto in-feed (*)                  | 最大 Max. Amount                       | 1.8                                                          |      |             |      |
|                                                         |                                         | 最小 Min. Amount                       | 0                                                            |      |             |      |
|                                                         | 手輪進給 Hand feed                          | 每轉進給量 (直徑)<br>One revolution ( Dia.) | 2                                                            |      |             |      |
|                                                         |                                         | 每一微分進給量 (直徑)<br>One division ( Dia.) | 5μ                                                           |      |             |      |
| 工作頭<br>Work-head                                        | 主軸旋轉方式 Spindle rotary                   |                                      | 活動 / 固定主軸 Live / Dead Center                                 |      |             |      |
|                                                         | 旋轉角度 Swivel angle                       | 工作者邊 (度)<br>Towards operator         | 30°                                                          |      |             |      |
|                                                         |                                         | 砂輪邊 (度)<br>Away from operator        | 90°                                                          |      |             |      |
|                                                         | 主軸轉速 Spindle revolution                 | R. P. M.                             | 50Hz : 50,75,100,150,200,250<br>60Hz : 60,90,120,180,240,300 |      |             |      |
|                                                         | 頂針錐度 Center taper                       | M T                                  | No.4                                                         |      |             |      |
|                                                         | 主軸貫穿孔徑<br>Diameter of through hole      |                                      | 25                                                           |      |             |      |
| 尾 座<br>Tailstock                                        | 主軸行程 Spindle stroke                     |                                      | 32                                                           |      |             |      |
|                                                         | 頂針錐度 Center taper                       | M T                                  | No.4                                                         |      |             |      |
| 工作<br>Table                                             | 旋轉角度 Swivel angle                       | 工作者邊(度)<br>Towards operator          | 6°                                                           |      | 4°          |      |
|                                                         |                                         | 砂輪邊(度)<br>Away from operator         | 9°                                                           |      | 9°          |      |
|                                                         | 手輪進給 Handle distance                    | 每轉進給量<br>One revolution              | 12.5                                                         |      |             |      |
|                                                         | 自動進給速度<br>Auto-feed / Variable ( * )    |                                      | 50-4000 / min                                                |      |             |      |
| 內孔研磨裝置<br>Internal grinding attachment                  | 主軸轉速 Spindle speed                      | R. P. M.                             | 20,000 ( 35,000- Optional選購性 )                               |      |             |      |
|                                                         | 馬達 Motor                                | KW (HP)                              | 0.75 ( 1 )                                                   |      |             |      |
| 馬 達<br>Motor                                            | 砂輪軸 Wheel spindle                       | KW (HP)                              | 3.75 ( 5 )                                                   |      |             |      |
|                                                         | 工作頭主軸 Work-head spindle                 | KW (HP)                              | 0.4 (1/2)                                                    |      |             |      |
|                                                         | 動力循環油泵(*) Hydraulic pump                | KW (HP)                              | 0.75 ( 1 )                                                   |      |             |      |
|                                                         | 砂輪軸潤滑油泵<br>Wheel spindle Lub. Pump      | KW (HP)                              | 0.1 (1/8)                                                    |      |             |      |
|                                                         | 研削液泵 Coolant pump                       | KW (HP)                              | 0.2 (1/4)                                                    |      |             |      |
| 箱容量<br>Tank Capacity                                    | 砂輪軸潤滑油箱<br>Wheel spindle Lub. Tank      | 升(加侖) L (Gal)                        | 24 ( 6 )                                                     |      |             |      |
|                                                         | 動力循環油箱(*) Hydraulic tank                | 升(加侖) L (Gal)                        | 60 (15)                                                      |      |             |      |
|                                                         | 研削液箱 Coolant tank                       | 升(加侖) L (Gal)                        | 80 (20)                                                      |      |             |      |
| 機器裝置空間<br>Floor space required (Width x Depth) (Height) |                                         | 長 x 寬                                | 2900 x 1980                                                  |      | 3600 x 1980 |      |
|                                                         |                                         | 高                                    | 1800                                                         |      | 1800        |      |
| 淨 重 Net Weight (Approximate)                            |                                         | KG                                   | 2,100                                                        |      | 2,400       |      |

Note: 1. 上述規格表中標示 "\*" 者，不適用於 "M" 機型，標示 "#" 者，不適用於 "M" 及 "A" 機型。  
Specifications marked "\*" is not suitable for M type, marked "#" is not suitable for "M and A" type.

2. 規格和功能隨時有可能更改，恕不另行通知。  
All specifications are subject to change without prior notice.



# 主要規格

單位 Unit : mm

| 標準規格 Standard Specifications                            |                                         |                                      |                                    | 1248 | 1548                            | 1263 | 1563        |      |
|---------------------------------------------------------|-----------------------------------------|--------------------------------------|------------------------------------|------|---------------------------------|------|-------------|------|
| 能 量 Capacity                                            | 床面旋徑 Swing over table                   |                                      |                                    | 300  | 380                             | 300  | 380         |      |
|                                                         | 兩頂心間距離<br>Distance between centers      |                                      |                                    | 1200 | 1200                            | 1600 | 1600        |      |
|                                                         | 頂心工件最大重量<br>Max. Work-piece weight (kg) | 頂心工作<br>Center work (kg)             |                                    | 150  |                                 | 200  |             |      |
|                                                         |                                         | 只有工作頭<br>Work-head only (kg)         |                                    | 40   |                                 | 60   |             |      |
| 砂輪頭及進給<br>Wheel-head and feed                           | 旋轉角度 Swivel angle                       |                                      | 左 / 右                              |      | ±15°                            |      |             |      |
|                                                         | 標準砂輪尺寸<br>Standard wheel dimensions     |                                      | 外徑 x 寬 x 內徑<br>O.D. x Width x I.D. |      | 405 x 32 - 50 x 152.4           |      |             |      |
|                                                         | 砂輪軸轉速 Spindle speed                     |                                      | R. P. M.                           |      | 1650                            |      |             |      |
|                                                         | 移動距離 Traverse length                    |                                      |                                    |      | 250                             |      |             |      |
|                                                         | 快速進給行程<br>Rapid feed stroke (#)         |                                      |                                    |      | 40                              |      |             |      |
|                                                         | 自動進給量 Auto in-feed (*)                  | 最大 Max. Amount                       |                                    |      |                                 | 1.8  |             |      |
|                                                         |                                         | 最小 Min. Amount                       |                                    |      |                                 | 0    |             |      |
|                                                         | 手輪進給 Hand feed                          | 每轉進給量 (直徑)<br>One revolution ( Dia.) |                                    |      |                                 | 2    |             |      |
|                                                         |                                         | 每一微分進給量 (直徑)<br>One division ( Dia.) |                                    |      |                                 | 5μ   |             |      |
| 工作頭<br>Work-head                                        | 主軸旋轉方式 Spindle rotary                   |                                      |                                    |      | 活動 / 固定主軸 Live / Dead Center    |      |             |      |
|                                                         | 旋轉角度 Swivel angle                       | 工作者邊 (度)<br>Towards operator         |                                    |      |                                 | 30°  |             |      |
|                                                         |                                         | 砂輪邊 (度)<br>Away from operator        |                                    |      |                                 | 90°  |             |      |
|                                                         | 主軸轉速 Spindle revolution                 |                                      | R. P. M.                           |      | 30~150 / 60 ~ 300 (Variable)    |      |             |      |
|                                                         | 頂針錐度 Center taper                       |                                      | M T                                |      | No.5                            |      |             |      |
|                                                         | 主軸貫穿孔徑<br>Diameter of through hole      |                                      |                                    |      | 30                              |      |             |      |
| 尾 座<br>Tailstock                                        | 主軸行程 Spindle stroke                     |                                      |                                    |      | 32                              |      |             |      |
|                                                         | 頂針錐度 Center taper                       |                                      | M T                                |      | No.5                            |      |             |      |
| 工作台<br>Table                                            | 旋轉角度 Swivel angle                       | 工作者邊(度)<br>Towards operator          |                                    | 4°   |                                 | 4°   |             |      |
|                                                         |                                         | 砂輪邊(度)<br>Away from operator         |                                    | 9°   |                                 | 9°   |             |      |
|                                                         | 手輪進給 Handle distance                    |                                      | 每轉進給量<br>One revolution            |      | 12.5                            |      |             |      |
|                                                         | 自動進給速度<br>Auto-feed / Variable ( * )    |                                      |                                    |      | 50-3000 / min                   |      |             |      |
| 內孔研磨裝置<br>Internal grinding attachment                  | 主軸轉速 Spindle speed                      |                                      | R. P. M.                           |      | 20,000 ( 35,000- Optional 選購性 ) |      |             |      |
|                                                         | 馬達 Motor                                |                                      | KW (HP)                            |      | 0.75 ( 1 )                      |      |             |      |
| 馬 達<br>Motor                                            | 砂輪軸 Wheel spindle                       |                                      | KW (HP)                            |      | 3.75 ( 5 )                      |      |             |      |
|                                                         | 工作頭主軸 Work-head spindle                 |                                      | KW (HP)                            |      | 0.75 ( 1 )                      |      |             |      |
|                                                         | 動力循環油泵(*) Hydraulic pump                |                                      | KW (HP)                            |      | 1.5 ( 2 )                       |      |             |      |
|                                                         | 砂輪軸潤滑油泵<br>Wheel spindle Lub. Pump      |                                      | KW (HP)                            |      | 0.1 (1/8)                       |      |             |      |
|                                                         | 研削液泵 Coolant pump                       |                                      | KW (HP)                            |      | 0.2 (1/4)                       |      |             |      |
| 箱容量<br>Tank Capacity                                    | 砂輪軸潤滑油箱<br>Wheel spindle Lub. Tank      |                                      | 升(加侖) L (Gal)                      |      | 24 ( 6 )                        |      |             |      |
|                                                         | 動力循環油箱(*) Hydraulic tank                |                                      | 升(加侖) L (Gal)                      |      | 60 (15)                         |      |             |      |
|                                                         | 研削液箱 Coolant tank                       |                                      | 升(加侖) L (Gal)                      |      | 80 (20)                         |      |             |      |
| 機器裝置空間<br>Floor space required (Width x Depth) (Height) |                                         |                                      | 長 x 寬                              |      | 5040 x 1980                     |      | 6500 x 2100 |      |
|                                                         |                                         |                                      | 高                                  |      | 1800                            |      | 1800        |      |
| 淨 重 Net Weight (Approximate)                            |                                         |                                      | KG                                 |      | 3800                            | 3900 | 4700        | 4800 |

Note: 1. 上述規格表中標示 "\*" 者，不適用於 "M" 機型，標示 "#" 者，不適用於 "M" 及 "A" 機型。  
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