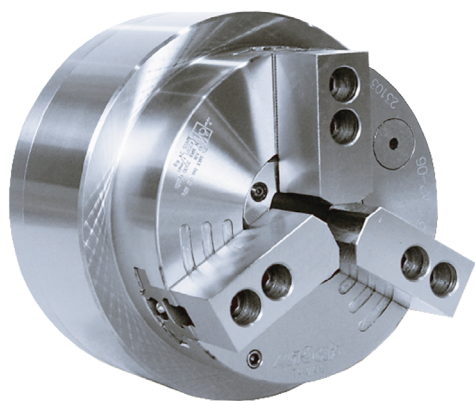
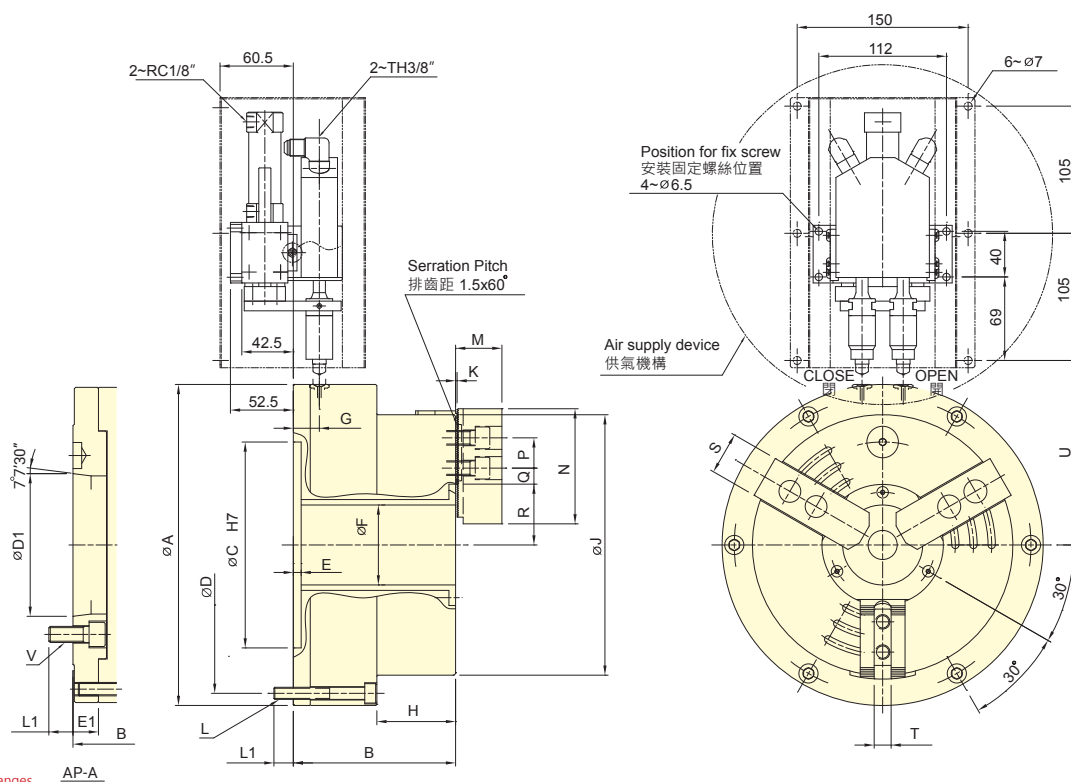




- 超大通孔徑氣動夾頭，內藏氣壓缸，適合管材加工。
  - 專利注氣系統，安裝快速容易，無傳統注氣密封環損壞問題，可節省安裝及維修成本。
  - Large through-hole 3-jaw power chuck with build in air cylinder.
  - Patented air supply system, it is easy to install and maintain. No abrasion issue of traditional sealed ring. Maintenance cost and time can be saved.
- 專利產品字號 Patent numbers :
- 德國：20.2011.101.818.4 / 20.2012.102.498.5(Germany)  
 日本：3169457 / 3178706 (Japan) / 歐盟：EP 2517822 B1 (EU)  
 大陸：ZL 2011 2 0141324.9 / ZL 2012 2 0274549.6 (China)  
 台灣：M440159 / M415011 (Taiwan) / 美國：US8770222 B2 (U.S.A.)  
 義大利：0000278076(Italy)



保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

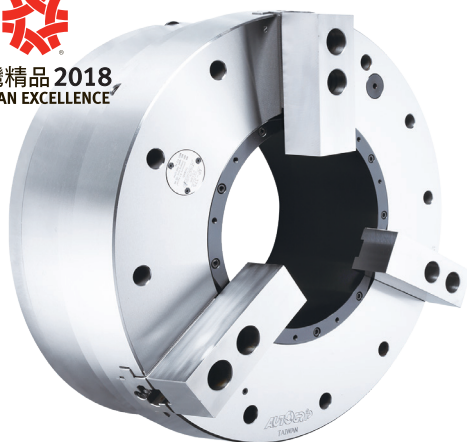
| 型號     |    | 通孔徑            | 爪行程(直徑)              | 夾持直徑<br>Chucking Dia. |            | 最大使用壓力                     | 最大夾持力                  | 最高迴轉數                      | I                    | 重量     |                                | 空氣消耗量<br>(使用壓力 6kgf/cm <sup>2</sup> ) |
|--------|----|----------------|----------------------|-----------------------|------------|----------------------------|------------------------|----------------------------|----------------------|--------|--------------------------------|---------------------------------------|
| Model  |    | Thru-hole Dia. | Jaw stroke<br>(Dia.) | 最大<br>Max.            | 最小<br>Min. | Max. pressure              | Max. Clamping<br>force | Max. speed                 | Moment of<br>inertia | Weight | Air Consumption                |                                       |
|        |    | mm             | mm                   | mm                    | mm         | MPa (kgf/cm <sup>2</sup> ) | kN (kgf)               | min <sup>-1</sup> (r.p.m.) | kg·m <sup>2</sup>    | kg     | lit (at 6kgf/cm <sup>2</sup> ) |                                       |
| AP-52  | A6 | 52             | 5.9                  | 170                   | 15         | 0.6(6.1)                   | 40.5(4128)             | 3900                       | 0.2                  | 26     | 30                             | 3.1                                   |
| AP-66  | A6 | 66             | 7.6                  | 215                   | 24         | 0.6(6.1)                   | 50(5097)               | 3000                       | 0.4                  | 38     | 45                             | 5.1                                   |
| AP-86  | A8 | 86             | 8.9                  | 268                   | 43         | 0.6(6.1)                   | 80(8156)               | 2800                       | 0.7                  | 58     | 72                             | 8.7                                   |
| AP-115 | A8 | 115            | 10.6                 | 330                   | 55         | 0.6(6.1)                   | 90(9174)               | 2000                       | 1.7                  | 92     | 112                            | 12                                    |

### 外型尺寸 DIMENSIONS

| Model  |    | A   | B   |     | C   | D   | D1     | E   | E1 | F   | G    | H    | J   | K | L     |
|--------|----|-----|-----|-----|-----|-----|--------|-----|----|-----|------|------|-----|---|-------|
| AP-52  | A6 | 235 | 121 | 140 | 170 | 215 | 106.38 | 6.5 | 19 | 52  | 21.5 | 58.5 | 170 | 2 | 6~M10 |
| AP-66  | A6 | 265 | 134 | 153 | 170 | 245 | 106.38 | 6.5 | 19 | 66  | 21.5 | 65   | 215 | 2 | 6~M10 |
| AP-86  | A8 | 315 | 142 | 169 | 220 | 295 | 139.72 | 6.5 | 27 | 86  | 21.5 | 67   | 268 | 2 | 6~M10 |
| AP-115 | A8 | 370 | 154 | 181 | 220 | 350 | 139.72 | 6.5 | 27 | 115 | 21.5 | 69   | 330 | 2 | 6~M10 |

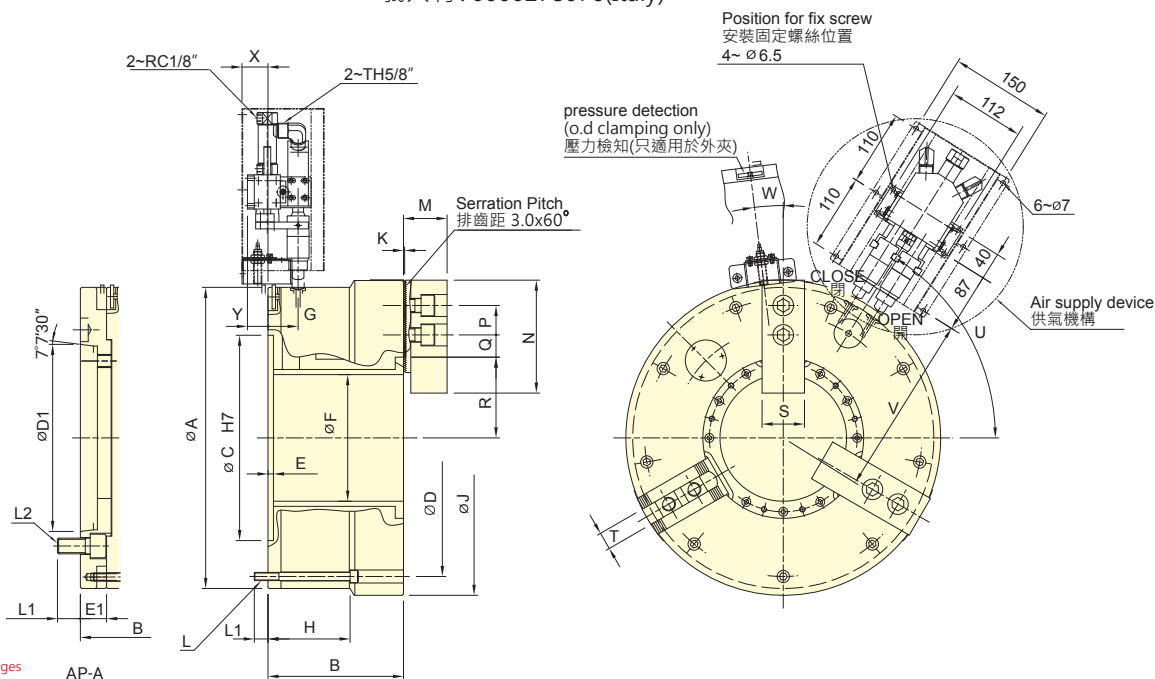
| Model  |    | L1 |    | M  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T  | U     | V     |
|--------|----|----|----|----|-----|----|--------|--------|--------|--------|----|----|-------|-------|
| AP-52  | A6 | 15 | 18 | 37 | 73  | 20 | 21.2   | 9.2    | 38     | 35.1   | 31 | 12 | 145.5 | 6~M12 |
| AP-66  | A6 | 16 | 18 | 38 | 95  | 25 | 23.7   | 8.7    | 50.2   | 46.4   | 35 | 14 | 159.5 | 6~M12 |
| AP-86  | A8 | 16 | 24 | 43 | 110 | 30 | 32.2   | 12.7   | 62.2   | 57.8   | 40 | 16 | 184.5 | 6~M16 |
| AP-115 | A8 | 16 | 24 | 51 | 130 | 30 | 44.7   | 14.7   | 77     | 71.7   | 50 | 21 | 212   | 6~M16 |

1. 紅色數據為 AP-A 型之尺寸 (The dimensions and the specifications of AP-A type are in red data.)



## 特殊動力夾頭

- 超大通孔徑氣動夾頭，內藏氣壓缸，適合金材加工。
- 夾頭內建有“壓力檢知”機構，能檢知夾頭內部壓力遽降，確保操作安全。
- 專利注氣系統，安裝快速容易，無傳統注氣密封環損壞問題，可節省安裝及維修成本。
- Large through-hole 3-jaw power chuck with build in air cylinder.
- With build-in "pressure detection" device in chuck which can check the pressure is lowered rapidly within the chuck, guarantee to the security of operating.
- Patented air supply system, it is easy to install and maintain. No abrasion issue of traditional sealed ring. Maintenance cost and time can be saved.
- 專利產品字號 Patent numbers :  
德國：20.2011.101.818.4 /20.2012.102.498.5(Germany)  
日本：3169457 / 3178706 (Japan) / 歐盟：EP 2517822 B1 (EU)  
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義大利：0000278076(Italy)



## 技術規格 SPECIFICATIONS

| 型號            |            | 通孔徑               | 爪行程<br>(直徑)          | 夾持直徑<br>Chuck Dia. |            | 最大使用壓力                     | 最大夾持力                  | 最高迴轉數                      | I                    | 重量     | 空氣消耗量<br>(使用壓力 6kgf/cm <sup>2</sup> ) |      |
|---------------|------------|-------------------|----------------------|--------------------|------------|----------------------------|------------------------|----------------------------|----------------------|--------|---------------------------------------|------|
| Model         |            | Thru-hole<br>Dia. | Jaw stroke<br>(Dia.) | 最大<br>Max.         | 最小<br>Min. | Max. pressure              | Max. Clamping<br>force | Max. speed                 | Moment<br>of inertia | Weight | Air Consumption                       |      |
|               |            | mm                | mm                   | mm                 | mm         | MPa (kgf/cm <sup>2</sup> ) | kN (kgf)               | min <sup>-1</sup> (r.p.m.) | kg·m <sup>2</sup>    | kg     | lit(at 6kgf/cm <sup>2</sup> )         |      |
| <b>AP-145</b> | <b>A11</b> | 145               | 14                   | 420                | 62         | 0.6(6.1)                   | 110(11213)             | 1500                       | 3.8                  | 156    | <b>182</b>                            | 17.8 |
| <b>AP-185</b> | <b>A15</b> | 185               | 14                   | 460                | 100        | 0.6(6.1)                   | 160(16310)             | 1700                       | 6.0                  | 188    | <b>223</b>                            | 22   |
| <b>AP-230</b> | <b>A15</b> | 230               | 17                   | 535                | 170        | 0.6(6.1)                   | 150(15290)             | 1300                       | 11.1                 | 265    | <b>310</b>                            | 34   |
| <b>AP-275</b> | <b>A20</b> | 275               | 17                   | 580                | 200        | 0.6(6.1)                   | 160(16310)             | 1100                       | 15.5                 | 301    | <b>346</b>                            | 39   |
| <b>AP-320</b> | <b>A20</b> | 320               | 17                   | 658                | 200        | 0.6(6.1)                   | 180(18348)             | 1000                       | 27.2                 | 415    | <b>505</b>                            | 45   |
| <b>AP-375</b> | <b>A20</b> | 375               | 24                   | 738                | 260        | 0.6(6.1)                   | 210(21406)             | 900                        | 44.2                 | 530    | <b>545</b>                            | 55   |

## 外型尺寸 DIMENSIONS

| Model  |     | A     | B   |      | C   | D   | D1     | E      | E1     | F      | G  | H     | J   | K   | L     | L1 |    |
|--------|-----|-------|-----|------|-----|-----|--------|--------|--------|--------|----|-------|-----|-----|-------|----|----|
| AP-145 | A11 | 400   | 198 | 231  | 300 | 365 | 196.87 | 8      | 33     | 145    | 34 | 120   | 420 | 3.5 | 9~M12 | 20 | 31 |
| AP-185 | A15 | 460   | 198 | 238  | 300 | 405 | 285.78 | 8      | 40     | 185    | 44 | 120   | 460 | 3.5 | 9~M12 | 20 | 35 |
| AP-230 | A15 | 515   | 226 | 266  | 380 | 483 | 285.78 | 8      | 40     | 230    | 49 | 145   | 535 | 3.5 | 6~M16 | 24 | 35 |
| AP-275 | A20 | 560   | 232 | 272  | 380 | 528 | 412.78 | 8      | 40     | 275    | 52 | 152   | 580 | 3.5 | 6~M16 | 24 | 35 |
| AP-320 | A20 | 615   | 256 | 306  | 520 | 580 | 412.78 | 8      | 50     | 320    | 55 | 116.5 | 658 | 3.5 | 9~M16 | 25 | 33 |
| AP-375 | A20 | 690   | 272 | 322  | 520 | 650 | 412.78 | 8      | 50     | 375    | 55 | 127   | 738 | 3.5 | 9~M16 | 28 | 33 |
| Model  |     | L2    |     | M    | N   | P   | Q max. | Q min. | R max. | R min. | S  | T     | U   | V   | W     | X  | Y  |
| AP-145 | A11 | 6~M20 |     | 63.7 | 165 | 43  | 53.5   | 23.5   | 98     | 91     | 62 | 25.5  | 57° | 242 | 0°    | 38 | 20 |
| AP-185 | A15 | 6~M24 |     | 63.7 | 165 | 43  | 53.5   | 23.5   | 118    | 111    | 62 | 25.5  | 58° | 272 | 7°    | 38 | 20 |
| AP-230 | A15 | 6~M24 |     | 71.7 | 180 | 60  | 48.5   | 18.5   | 145    | 136.5  | 64 | 25.5  | 30° | 300 | 7°    | 33 | 15 |
| AP-275 | A20 | 6~M24 |     | 71.7 | 180 | 60  | 48.5   | 18.5   | 167.5  | 159    | 64 | 25.5  | 30° | 322 | 7°    | 30 | 12 |
| AP-320 | A20 | 6~M24 |     | 81.5 | 210 | 60  | 60.5   | 24.5   | 190    | 181.5  | 74 | 30    | 52° | 350 | 7°    | 27 | 9  |
| AP-375 | A20 | 6~M24 |     | 81.5 | 210 | 60  | 66.5   | 24.5   | 223.5  | 211.5  | 74 | 30    | 52° | 387 | 7°    | 27 | 9  |

1. 紅色數據為 AP-A 型之寸法 (The dimensions and the specifications of AP-A type are in red data.)