

## Industrial Tools



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HONG BING PNEUMATIC INDUSTRY CO., LTD.



Established in Shan-Kang Dist., Taichung City in 1974, originally named” Hong-Bing Iron Works Company”, focus on OEM for hand tool accessory. Start manufacturing air tool in 1979. Hong Bing Pneumatic Industry Co., Ltd was founded in 1987 as professional air tools manufacture factory.

HONG BING has been approved by ISO 9001(SGS) and CE (TUV). HONG BING has gathered many years experience of R&D and Q.C., while engaging in innovative and stabilizing quality. On production facility, we use automatic and semi-automatic CNC, and strictly manufacturing key spare parts. It will increase the good rate and accurate.

HONG BING is your best choice for industrial applications of pneumatic tools.

1974年始創於台中市神岡區，原名「宏斌鐵工廠」初期專精於手工具零件代工製造。  
1979年投入氣動工具製造，於1987年創立「宏斌氣動工業股份有限公司」專業生產氣動工具。

宏斌已通過 ISO 9001(SGS)、CE (TÜV) 認證。在研發設計與品管作業，累積多年來的經驗，積極創新產品與穩定產品品質。在生產設備方面，採用全自動與半自動化設備加工，嚴格製造關鍵性零組件，有效提升產品良率及精準度。

宏斌對於氣動力學的工具與工業設備都會是您在工業應用領域中最佳的選擇。

CONVERSION CHART / 單位換算表

● LENGTH / 長度

1 in=0.02554 m  
1 ft=12 in  
1 m= { 39.3701 in  
3.28084 ft

● WEIGHT / 重量

1 lb=0.453592 kg  
1 kg=2.20462 ft

● TORQUE / 扭力

1 kgm=9.80665 Nm  
1 lbf=1.35582 Nm  
1 ft-lbs=0.138 kg-m  
1 Nm= { 0.101972 kgm  
0.7375562 lbf x ft

● PRESSURE / 壓力

1 bar=100 kPa  
1 kg/cm<sup>2</sup>(at)=98.0665 kPa  
1 psi=6.89476 kPa  
1 kPa= { 0.01 bar  
0.0101972 kg/cm<sup>2</sup>(at)  
0.145038 psi

● POWER / 功率

1 kpm/s=9.80665 w  
1 kcal/s=4.1868 kw  
1 kcal/h=1.163 w  
1 hk=735.499 w  
1 hp=745.7 w  
1 kw= { 101.972 kpm/cm<sup>2</sup>(at)  
0.238846 kcal/s  
859.845 kcal/h  
1.35962 hk  
1.34102 hp

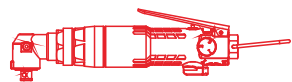
● FLOW / 流率

1 m<sup>3</sup>/min=16.6667 L/s=35.335 cfm  
1 cfm=0.471947 L/s=0.0283 m<sup>3</sup>/min  
1 L/s=201189 cfm  
1 m<sup>3</sup>/min=0.277778 L/s

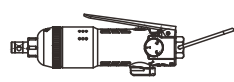
Air Screwdriver  
and Air Wrench  
Selection Guide

氣動螺絲起子與  
氣動扳手選用建議

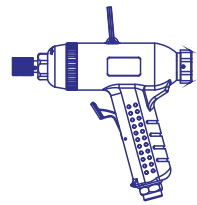
ANGLE 彎頭型



STRAIGHT 直柄型



PISTOL 手槍型



IMPACT SCREWDRIVER 衝擊型螺絲起子

|              |  |  |  |  |        |        |        |        |
|--------------|--|--|--|--|--------|--------|--------|--------|
| MODEL<br>型 號 |  |  |  |  | 301L90 | 301A1  | 310LHA | 100A1  |
|              |  |  |  |  | 305    | 301AH  | 311LHA | 308DA1 |
|              |  |  |  |  | 320    | 808A1  | 306    | 310DA  |
|              |  |  |  |  | 403LN  | 602A   | 309    | 100LA1 |
|              |  |  |  |  |        | 301LA1 | 310F   | 310LDA |
|              |  |  |  |  |        | 601A   | 809A1  | 409WA1 |
|              |  |  |  |  |        | 407LN  | 306SL  | 605DA  |
|              |  |  |  |  |        | 601L   | 309L   |        |
|              |  |  |  |  |        |        | 310LF  |        |
|              |  |  |  |  |        |        | 406LN  |        |

CLUTCH TYPE SCREWDRIVER 離合型螺絲起子

|              |  |  |  |  |        |        |        |  |
|--------------|--|--|--|--|--------|--------|--------|--|
| MODEL<br>型 號 |  |  |  |  | 304L90 | 302L90 | 103G   |  |
|              |  |  |  |  | 103    | 5CLA15 | 301LCG |  |
|              |  |  |  |  | 304A1  | 302    | 2C8425 |  |
|              |  |  |  |  | 304B1  | 306G   |        |  |
|              |  |  |  |  | 314A1  | 5C1419 |        |  |
|              |  |  |  |  | 5C1218 | 5C1515 |        |  |
|              |  |  |  |  | 301LC  | 405LN  |        |  |
|              |  |  |  |  | 404LN  | 5C5415 |        |  |
|              |  |  |  |  |        |        |        |  |
|              |  |  |  |  |        |        |        |  |

TORQUE CONTROL SCREWDRIVER 扭力控制型螺絲起子

|                    |        |        |     |         |         |         |        |     |
|--------------------|--------|--------|-----|---------|---------|---------|--------|-----|
| MODEL<br>型 號       | 106A   | 106B   |     | 2S2110  | 5SLA15  | 5SLA08  | 2S4304 |     |
|                    | 1S0625 | 1S0607 |     | 5S1515C | 2S3215  | 5S5108A |        |     |
|                    |        |        |     | 5S5115C | 5S1508B | 5S1508A |        |     |
|                    |        |        |     |         | 5S1515B | 2S3208  |        |     |
|                    |        |        |     |         | 5S5108B | 2S4307  |        |     |
|                    |        |        |     |         | 5S5115B |         |        |     |
|                    |        |        |     |         |         |         |        |     |
| SCREW SIZE<br>螺絲尺寸 | 2mm    | 2.5mm  | 3mm | 3.5mm   | 4mm     | 5mm     | 6mm    | 8mm |

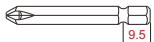
IMPACT WRENCH 衝擊型扳手

|                   |         |        |        |        |       |        |       |      |       |       |       |       |
|-------------------|---------|--------|--------|--------|-------|--------|-------|------|-------|-------|-------|-------|
| MODEL<br>型 號      | 301LB90 | 301B3  | 310LH3 | 100LH  | 100B  | 130LH4 | 130B  | 603D | 936D2 | 912D2 | 913D2 | 914D2 |
|                   | 808LH3  | 301LB3 | 311LH3 | 308DW  | 308B  | 906D4  | 131LB | 908D |       |       | 915DA |       |
|                   |         | 403LB3 | 306B   | 310DB4 | 814   | 100LB  |       | 909D |       |       |       |       |
|                   |         |        | 309B   | 310LD4 | 308LB |        |       | 909B |       |       |       |       |
|                   |         |        | 310B3  | 409WHA | 408LB |        |       |      |       |       |       |       |
|                   |         |        | 809B1  | 310LB3 |       |        |       |      |       |       |       |       |
|                   |         |        | 602B   | 406LB  |       |        |       |      |       |       |       |       |
|                   |         |        | 306SL1 | 605D4  |       |        |       |      |       |       |       |       |
|                   |         |        | 309LB  |        |       |        |       |      |       |       |       |       |
|                   |         |        | 407LB  |        |       |        |       |      |       |       |       |       |
|                   |         |        | 601B   |        |       |        |       |      |       |       |       |       |
| BOLT SIZE<br>螺栓尺寸 | M6      | M8     | M10    | M12    | M14   | M16    | M18   | M20  | M22   | M24   | M27   | M30   |
| NUT SIZE<br>螺帽尺寸  | 10mm    | 13mm   | 17mm   | 19mm   | 22mm  | 24mm   | 27mm  | 30mm | 32mm  | 36mm  | 41mm  | 46mm  |



## Air Screwdriver Two Hammer Type

### 氣動螺絲起子:雙鎚式

F Type:  9.5

Q Type:  13

- High impact frequency.
- Low Counteraction

#### APPLICATION :

- Especially in heavy-productive industries (rattan, carpentry, electric, motor, aluminum, and hardware ).

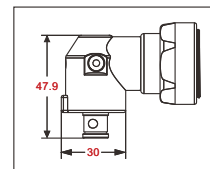
- 沖擊頻率高
- 反作用力小

#### 用 途 :

- 高量產工業尤佳(藤器、木器、馬達、鋁製品、五金工業等)



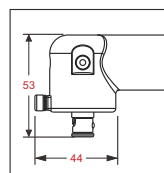
**OP-301L90 F**  
Rear exhaust  
後排氣



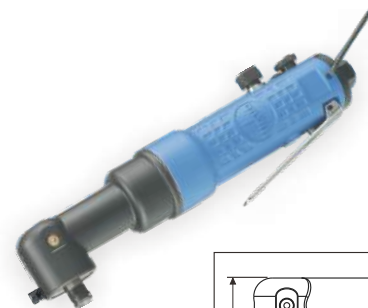
UNIT : (mm)



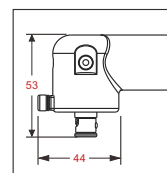
**OP-310LHA F**  
Side exhaust  
側排氣



UNIT : (mm)



**OP-311LHA F**  
Rear exhaust  
後排氣

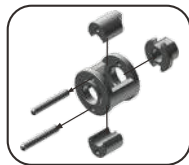


UNIT : (mm)

#### SPECIFICATION(air pressure at 90psi 、6.2bar 、6.3kg/cm<sup>2</sup>)

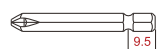
| MODEL<br>型 號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|--------------------------------------|---------------------------|-------|------------------------|-------|------------------------|-----------------------------|-----|--------------------------|-------|----------------------|----------------------|------|-----------------------|
|              | mm                                   | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                       | cfm | mm                       | inch  | P.T                  | kg                   | lb   | dB(A)                 |
| OP-301L90    | 4                                    | 15                        | 11    | 40                     | 30    | 9000                   | 141                         | 5   | 240                      | 9.45  | 1/4                  | 1.22                 | 2.69 | 83                    |
| OP-310LHA    | 5~6                                  | 40                        | 29    | 130                    | 96    | 7000                   | 198                         | 7   | 240                      | 9.45  | 1/4                  | 1.6                  | 3.53 | 92                    |
| OP-311LHA    | 5~6                                  | 40                        | 29    | 90                     | 66    | 8500                   | 240                         | 8.5 | 265                      | 10.43 | 1/4                  | 1.56                 | 3.44 | 90                    |
|              |                                      |                           |       |                        |       |                        |                             |     |                          |       |                      |                      |      |                       |
|              |                                      |                           |       |                        |       |                        |                             |     |                          |       |                      |                      |      |                       |

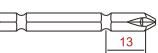




## Air Screwdriver Two Hammer Type

氣動螺絲起子:雙鎚式

F Type:  9.5

Q Type:  13



**OP-320 Q**  
Push to start  
Rear exhaust  
觸壓啟動  
後排氣



**OP-305 Q**  
Side exhaust  
側排氣



**OP-808A1 OP-808 Q**  
Rear exhaust with muffler  
後排氣低噪音



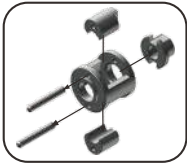
**OP-301A1 OP-301 Q**  
Side exhaust  
側排氣



**OP-301AH OP-301H Q**  
Rear exhaust  
後排氣

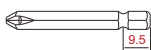
### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

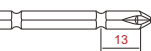
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-320      | 4                                    | 15                        | 11    | 30                     | 22    | 9000                   | 127                       | 4.5 | 195                     | 7.68 | 1/4                  | 0.67                | 1.48 | 80                    |
| OP-305      | 4                                    | 20                        | 14    | 30                     | 22    | 12500                  | 141                       | 5   | 170                     | 6.69 | 1/4                  | 0.57                | 1.26 | 89                    |
| OP-808      | 4~5                                  | 20                        | 15    | 35                     | 26    | 10000                  | 127                       | 4.5 | 190                     | 7.48 | 1/4                  | 0.76                | 1.68 | 71                    |
| OP-808A1    | 4~5                                  | 20                        | 15    | 35                     | 26    | 10000                  | 127                       | 4.5 | 200                     | 7.87 | 1/4                  | 0.76                | 1.68 | 71                    |
| OP-301      | 4~5                                  | 25                        | 18    | 35                     | 26    | 12000                  | 127                       | 4.5 | 178                     | 7    | 1/4                  | 0.7                 | 1.54 | 89                    |
| OP-301A1    | 4~5                                  | 25                        | 18    | 35                     | 26    | 12000                  | 127                       | 4.5 | 185                     | 7.28 | 1/4                  | 0.7                 | 1.54 | 89                    |
| OP-301H     | 4~5                                  | 25                        | 18    | 40                     | 30    | 9000                   | 141                       | 5   | 190                     | 7.48 | 1/4                  | 0.79                | 1.74 | 85                    |
| OP-301AH    | 4~5                                  | 25                        | 18    | 40                     | 30    | 9000                   | 141                       | 5   | 200                     | 7.87 | 1/4                  | 0.79                | 1.74 | 85                    |



Air Screwdriver Two Hammer Type

氣動螺絲起子:雙鎚式

F Type: 

Q Type: 



OP-306 Q  
OP-306F F  
Rear exhaust  
後排氣



OP-809A1 Q  
Rear exhaust with muffler  
後排氣低噪音



OP-309Q Q  
OP-309 F  
Side exhaust  
側排氣



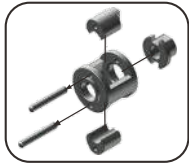
OP-310Q Q  
OP-310F F  
2 Step pushstart trigger  
Side exhaust  
二段式扳機啟動  
側排氣



OP-100A1 Q  
2 Step pushstart trigger  
Rear exhaust  
二段式扳機啟動  
後排氣

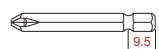
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

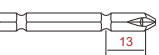
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb   | dB(A)                 |
| OP-306      | 6                                    | 45                        | 33    | 200                    | 148   | 8000                   | 212                       | 7.5 | 225                     | 8.85  | 1/4                  | 1.06                | 2.34 | 90                    |
| OP-809A1    | 6                                    | 45                        | 33    | 130                    | 96    | 8000                   | 184                       | 6.5 | 230                     | 9.06  | 1/4                  | 1.2                 | 2.65 | 79                    |
| OP-309      | 6                                    | 45                        | 33    | 200                    | 148   | 8300                   | 212                       | 7.5 | 205                     | 8.07  | 1/4                  | 1                   | 2.2  | 94                    |
| OP-310F     | 6~8                                  | 60                        | 44    | 240                    | 177   | 8000                   | 254                       | 9   | 200                     | 7.87  | 1/4                  | 1.06                | 2.38 | 97                    |
| OP-100A1    | 8                                    | 75                        | 55    | 280                    | 207   | 5500                   | 240                       | 8.5 | 265                     | 10.43 | 1/4                  | 1.7                 | 3.75 | 85                    |
|             |                                      |                           |       |                        |       |                        |                           |     |                         |       |                      |                     |      |                       |
|             |                                      |                           |       |                        |       |                        |                           |     |                         |       |                      |                     |      |                       |
|             |                                      |                           |       |                        |       |                        |                           |     |                         |       |                      |                     |      |                       |



## Air Screwdriver Two Hammer Type

氣動螺絲起子:雙鎚式

F Type:  9.5

Q Type:  13



**OP-403LN Q**  
Handle exhaust  
下排氣



**OP-301L Q**  
Handle exhaust  
下排氣



**OP-301LA1 Q**  
Handle exhaust  
下排氣



**OP-601A Q**  
Handle exhaust  
下排氣



**OP-306SL Q**  
**OP-306SLF F**  
Side exhaust  
側排氣



**OP-309LQ Q**  
**OP-309L F**  
Side exhaust  
側排氣



**OP-406LN Q**  
Handle exhaust  
下排氣



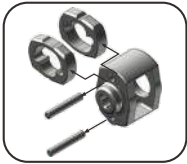
**OP-310LQ Q**  
**OP-310LF F**  
Side exhaust  
側排氣



**OP-100LA1 Q**  
Side exhaust  
側排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-403LN    | 4                                    | 20                        | 15    | 30                     | 22    | 11500                  | 170                       | 6   | 155                     | 6.1  | 1/4                  | 0.9                 | 1.98 | 87                    |
| OP-301L     | 4~5                                  | 25                        | 18    | 35                     | 26    | 13000                  | 198                       | 7   | 143                     | 5.63 | 1/4                  | 0.9                 | 1.98 | 88                    |
| OP-301LA1   | 4~5                                  | 25                        | 18    | 35                     | 26    | 13000                  | 198                       | 7   | 150                     | 5.9  | 1/4                  | 0.9                 | 1.98 | 88                    |
| OP-601A     | 4~5                                  | 25                        | 18    | 35                     | 26    | 13000                  | 170                       | 6   | 155                     | 6.1  | 1/4                  | 0.86                | 1.9  | 82                    |
| OP-306SL    | 6                                    | 50                        | 37    | 200                    | 148   | 7500                   | 226                       | 8   | 190                     | 7.48 | 1/4                  | 1.2                 | 2.65 | 94                    |
| OP-309L     | 6                                    | 50                        | 37    | 200                    | 148   | 7700                   | 198                       | 7   | 195                     | 7.68 | 1/4                  | 1.3                 | 2.87 | 89                    |
| OP-406LN    | 6                                    | 50                        | 37    | 150                    | 111   | 8000                   | 212                       | 7.5 | 165                     | 6.5  | 1/4                  | 1.2                 | 2.65 | 87                    |
| OP-310LF    | 6~8                                  | 60                        | 44    | 240                    | 177   | 7700                   | 240                       | 8.5 | 195                     | 7.68 | 1/4                  | 1.38                | 3.04 | 93                    |
| OP-100LA1   | 8                                    | 95                        | 70    | 300                    | 221   | 4800                   | 240                       | 8.5 | 185                     | 7    | 1/4                  | 2.24                | 4.94 | 92                    |

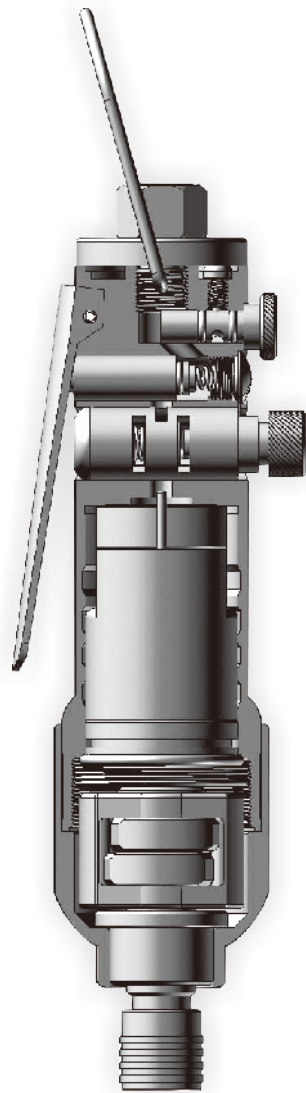


Air Screwdriver Twin Ring Type

氣動螺絲起子:雙環式

F Type:

Q Type:



- High torque
- Long lasting

APPLICATION :

- Apply to heavy-productive assembly line of car and motor.

- 扭力大
- 壽命長

用 途 :

- 適用於汽機車裝配、組立廠



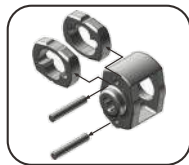
OP-308DA1 Q  
OP-308DAF F  
Rear exhaust  
後排氣



OP-310DAQ Q  
OP-310DA F  
Side exhaust  
側排氣

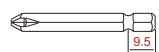
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

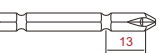
| MODEL<br>型 號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|--------------------------------------|---------------------------|-------|------------------------|-------|------------------------|-----------------------------|-----|--------------------------|------|----------------------|----------------------|------|-----------------------|
|              | mm                                   | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                       | cfm | mm                       | inch | P.T                  | kg                   | lb   | dB(A)                 |
| OP-308DA1    | 8                                    | 60                        | 44    | 230                    | 170   | 8000                   | 226                         | 8   | 220                      | 8.66 | 1/4                  | 1.32                 | 2.91 | 85                    |
| OP-310DA     | 8                                    | 68                        | 50    | 300                    | 221   | 8000                   | 198                         | 7   | 200                      | 7.87 | 1/4                  | 1.2                  | 2.65 | 96                    |
|              |                                      |                           |       |                        |       |                        |                             |     |                          |      |                      |                      |      |                       |



## Air Screwdriver Twin Ring Type

氣動螺絲起子:雙環式

F Type:  9.5

Q Type:  13



**OP-310LDAQ Q**  
**OP-310LDA F**

Side exhaust  
側排氣



**OP-409WA1 Q**  
**OP-409WAF F**

Handle exhaust  
下排氣



**OP-601DA Q**  
**OP-601DAF F**

Side exhaust  
側排氣



**OP-605DA Q**  
**OP-605DAF F**

Handle exhaust  
下排氣



**OP-906DAQ Q**  
**OP-906DAF F**

Handle exhaust  
下排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

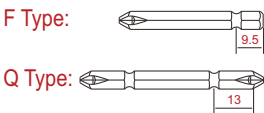
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |          | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|---------------------------|----------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             |                                      | mm                        | Nm ft-lb | Nm                     | ft-lb |                        | l/min                     | cfm | mm                      | inch |                      | kg                  | lb   |                       |
| OP-310LDA   | 8                                    | 68                        | 50       | 300                    | 221   | 8000                   | 198                       | 7   | 185                     | 7.28 | 1/4                  | 1.52                | 3.35 | 96                    |
| OP-409WA1   | 8                                    | 55                        | 41       | 270                    | 200   | 8500                   | 254                       | 9   | 155                     | 6.1  | 1/4                  | 1.3                 | 2.87 | 88                    |
| OP-601DA    | 8                                    | 60                        | 44       | 270                    | 200   | 8500                   | 240                       | 8.5 | 155                     | 6.1  | 1/4                  | 1.54                | 3.38 | 94                    |
| OP-605DA    | 8                                    | 60                        | 44       | 270                    | 200   | 9500                   | 240                       | 8.5 | 155                     | 6.1  | 1/4                  | 1.42                | 3.13 | 82                    |
| OP-906DAQ   | 8                                    | 95                        | 70       | 400                    | 295   | 10000                  | 311                       | 11  | 144                     | 5.66 | 1/4                  | 1.6                 | 3.52 | 92                    |





Air Screwdriver Ball Bearing Hitter Type

氣動螺絲起子:鋼珠打擊式



- High speed
- Low vibration
- APPLICATION :
  - Especially in heavy-productive industries rattan, motor.

- 工作速度快
- 低震動
- 用途 :
  - 適用於汽機車、組立廠

OP-602A Q  
Low rotational speed  
Side exhaust  
低轉速  
側排氣

OP-601L Q  
Low rotational speed  
Handle exhaust  
低轉速  
下排氣

OP-407LN Q  
Handle exhaust  
下排氣

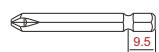
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm²)

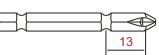
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-602A     | 4~5                                  | 20                        | 15    | 50                     | 37    | 2500                   | 141                       | 5   | 225                     | 8.6  | 1/4                  | 0.99                | 2.18 | 89                    |
| OP-601L     | 4~5                                  | 20                        | 15    | 50                     | 37    | 2700                   | 184                       | 6.5 | 185                     | 7.28 | 1/4                  | 1.13                | 2.49 | 82                    |
| OP-407LN    | 5~6                                  | 30                        | 22    | 50                     | 37    | 2400                   | 198                       | 7   | 190                     | 7.48 | 1/4                  | 1.17                | 2.58 | 88                    |
|             |                                      |                           |       |                        |       |                        |                           |     |                         |      |                      |                     |      |                       |
|             |                                      |                           |       |                        |       |                        |                           |     |                         |      |                      |                     |      |                       |
|             |                                      |                           |       |                        |       |                        |                           |     |                         |      |                      |                     |      |                       |



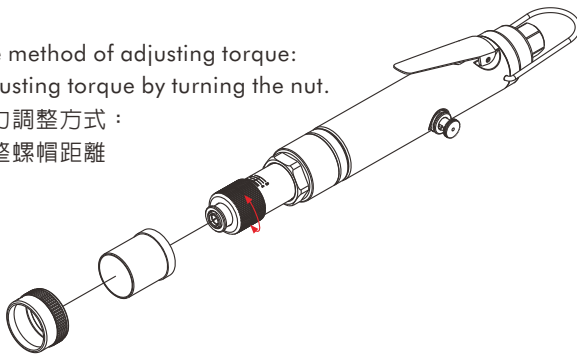
## Air Screwdriver Clutch Type

氣動螺絲起子:離合式

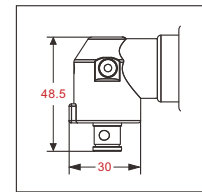
F Type: 

Q Type: 

The method of adjusting torque:  
Adjusting torque by turning the nut.  
扭力調整方式:  
調整螺帽距離



**OP-5CLA08**  
**OP-5CLA15** F  
Rear exhaust  
後排氣



UNIT : (mm)



**OP-5C1218** F  
Rear exhaust  
後排氣



**OP-5C1419** F  
Rear exhaust  
後排氣



**OP-5C1508**  
**OP-5C1515** F  
Rear exhaust  
後排氣



**OP-5C5408**  
**OP-5C5415** F  
Handle exhaust  
下排氣

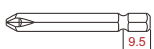
### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | MAX.<br>Torque<br>最大扭力 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|------------------------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                     | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb   | dB(A)                 |
| OP-5CLA08   | 4~5                                  | 5                      | 800                    | 170                       | 6   | 334                     | 13.15 | 1/4                  | 1.25                | 2.76 | 80                    |
| OP-5CLA15   | 4~5                                  | 5                      | 1450                   | 170                       | 6   | 334                     | 13.15 | 1/4                  | 1.25                | 2.76 | 80                    |
| OP-5C1218   | 4                                    | 4                      | 1800                   | 127                       | 4.5 | 228                     | 8.98  | 1/4                  | 0.76                | 1.68 | 80                    |
| OP-5C1419   | 5                                    | 5                      | 1900                   | 127                       | 4.5 | 229                     | 9.01  | 1/4                  | 1.01                | 2.23 | 85                    |
| OP-5C1508   | 5                                    | 5                      | 800                    | 170                       | 6   | 279                     | 10.98 | 1/4                  | 0.97                | 2.14 | 80                    |
| OP-5C1515   | 5                                    | 5                      | 1450                   | 170                       | 6   | 279                     | 10.98 | 1/4                  | 0.97                | 2.14 | 80                    |
| OP-5C5408   | 5                                    | 5                      | 750                    | 212                       | 7.5 | 190                     | 7.48  | 1/4                  | 1                   | 2.2  | 80                    |
| OP-5C5415   | 5                                    | 5                      | 1450                   | 212                       | 7.5 | 190                     | 7.48  | 1/4                  | 1                   | 2.2  | 80                    |



Air Screwdriver Clutch Type

氣動螺絲起子:離合式

F Type: 

Q Type: 



- While reaching the fixed torque, clutch will run automatically and Protect the workpiece from being damaged.
- With torque regulator

APPLICATION :

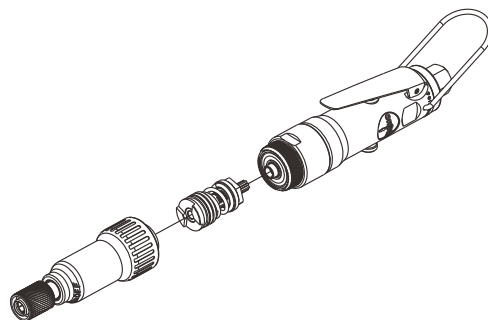
- Apply to release or fasten the high-precise screw, especially for outside box setting in industries such as toy, electric, carpentry, and plastic.

- 扭力到達，離合器自動空轉，保護工作件不受損

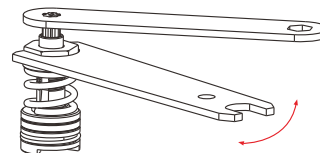
- 可調整扭力設計

用 途：

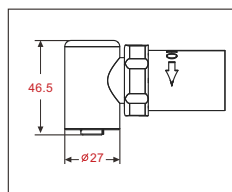
- 高精度螺絲攻拆，量產工業(玩具、電器、木器、塑膠等外殼裝配)



The method of adjusting torque:  
Adjusting torque by using added wrench.  
扭力調整方式：  
使用附加扳手調整



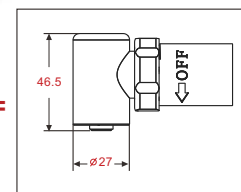
**OP-302L90 F**  
Side exhaust  
側排氣



UNIT : (mm)



**OP-304L90 F**  
Rear exhaust  
後排氣



UNIT : (mm)

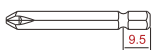
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

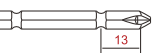
| MODEL<br>型 號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | MAX.<br>Torque<br>最大扭矩 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|--------------------------------------|------------------------|-------|------------------------|-----------------------------|-----|--------------------------|------|----------------------|----------------------|------|-----------------------|
|              |                                      | Nm                     | ft-lb |                        | l/min                       | cfm | mm                       | inch |                      | kg                   | lb   |                       |
| OP-302L90    | 5                                    | 4                      | 3     | 1650                   | 127                         | 4.5 | 235                      | 9.25 | 1/4                  | 0.76                 | 1.68 | 86                    |
| OP-304L90    | 4                                    | 3                      | 2.2   | 1250                   | 127                         | 4.5 | 245                      | 9.65 | 1/4                  | 0.74                 | 1.63 | 80                    |
|              |                                      |                        |       |                        |                             |     |                          |      |                      |                      |      |                       |
|              |                                      |                        |       |                        |                             |     |                          |      |                      |                      |      |                       |



## Air Screwdriver Clutch Type

氣動螺絲起子:離合式

F Type: 

Q Type: 



**OP-103 Q**  
Side exhaust  
側排氣



**OP-304A1 OP-304 Q**  
Rear exhaust  
後排氣



**OP-304B1 OP-304B Q**  
Push to start type(Semi-automatic)  
Rear exhaust  
觸壓啟動型(半自動)  
後排氣



**OP-314A1 OP-314 Q**  
Rear exhaust with muffler  
後排氣低噪音



**OP-302 Q**  
Side exhaust  
側排氣

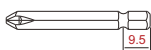
### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

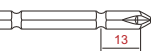
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-103      | 4                                    | 3                      | 2.2   | 2200                   | 170                       | 6   | 235                     | 9.25 | 1/4                  | 0.8                 | 1.76 | 91                    |
| OP-304A1    | 4                                    | 3                      | 2.2   | 1700                   | 141                       | 5   | 235                     | 9.25 | 1/4                  | 0.61                | 1.34 | 80                    |
| OP-304      | 4                                    | 3                      | 2.2   | 1700                   | 141                       | 5   | 235                     | 9.25 | 1/4                  | 0.61                | 1.34 | 80                    |
| OP-304B1    | 4                                    | 2                      | 1.5   | 1000                   | 141                       | 5   | 230                     | 9.1  | 1/4                  | 0.58                | 1.28 | 77                    |
| OP-304B     | 4                                    | 2                      | 1.5   | 1000                   | 141                       | 5   | 235                     | 9.25 | 1/4                  | 0.6                 | 1.32 | 77                    |
| OP-314A1    | 4                                    | 3                      | 2.2   | 1700                   | 127                       | 4.5 | 240                     | 9.45 | 1/4                  | 0.7                 | 1.54 | 70                    |
| OP-314      | 4                                    | 3                      | 2.2   | 1700                   | 127                       | 4.5 | 240                     | 9.45 | 1/4                  | 0.7                 | 1.54 | 70                    |
| OP-302      | 5                                    | 4                      | 3     | 1900                   | 141                       | 5   | 220                     | 8.66 | 1/4                  | 0.63                | 1.39 | 89                    |



Air Screwdriver Clutch Type

氣動螺絲起子:離合式

F Type: 

Q Type: 



**OP-306G Q**  
Rear exhaust  
後排氣



**OP-306GA Q**  
Rear exhaust with muffler  
後排氣低噪音



**OP-103G Q**  
Side exhaust  
側排氣



**OP-301LC Q**  
Handle exhaust  
下排氣



**OP-404LN Q**  
Handle exhaust  
下排氣



**OP-405LN Q**  
Handle exhaust  
下排氣



**OP-301LCG Q**  
Handle exhaust  
下排氣

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

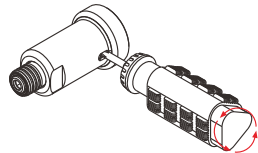
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | MAX.<br>Torque<br>最大扭矩 |          | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|------------------------|----------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             |                                      | mm                     | Nm ft-lb |                        | l/min                     | cfm | mm                      | inch  |                      | kg                  | lb   |                       |
| OP-306G     | 5                                    | 7                      | 5.1      | 500                    | 212                       | 7.5 | 290                     | 11.41 | 1/4                  | 1.3                 | 2.87 | 89                    |
| OP-306GA    | 5                                    | 7                      | 5.1      | 500                    | 198                       | 7   | 300                     | 11.81 | 1/4                  | 1.4                 | 3.09 | 77                    |
| OP-103G     | 6                                    | 8                      | 5.9      | 600                    | 170                       | 6   | 265                     | 10.43 | 1/4                  | 0.95                | 2.1  | 90                    |
| OP-301LC    | 4                                    | 3                      | 2.2      | 2500                   | 212                       | 7.5 | 200                     | 7.87  | 1/4                  | 1.04                | 2.29 | 88                    |
| OP-404LN    | 4                                    | 3                      | 2.2      | 2200                   | 184                       | 6.5 | 200                     | 7.87  | 1/4                  | 1                   | 2.2  | 90                    |
| OP-405LN    | 5                                    | 7                      | 5.1      | 550                    | 184                       | 6.5 | 225                     | 8.86  | 1/4                  | 1.2                 | 2.65 | 87                    |
| OP-301LCG   | 6                                    | 8                      | 6        | 600                    | 212                       | 7.5 | 230                     | 9.06  | 1/4                  | 1.15                | 2.54 | 88                    |



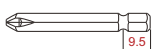
## Air Screwdriver Clutch Type

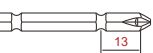
### 氣動螺絲起子:離合式

The method of adjusting torque:  
Adjusting torque by using PH1 screwdriver.  
扭力調整方式:  
使用PH1起子調整



**OP-2C8425 F**  
Composite handle  
Handle exhaust  
複合材料把手  
下排氣

F Type:  9.5

Q Type:  13

#### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-2C8425   | 6                                    | 17                     | 12.5  | 2500                   | 283                       | 10  | 212                     | 8.34 | 1/4                  | 1.08                | 2.38 | 88                    |



## Air Screwdriver Direct Driver Type

### 氣動螺絲起子:直接驅動式

For woodworking screws  
適用於木工螺絲

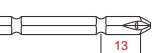


**OP-3G8425 F**  
Composite handle  
Handle exhaust  
複合材料把手  
下排氣



**OP-3G8410 F**  
Composite handle  
Handle exhaust  
複合材料把手  
下排氣

F Type:  9.5

Q Type:  13

#### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|--------------------------------------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                                   | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-3G8425   | 4                                    | 2500                   | 283                       | 10  | 155                     | 6.1  | 1/4                  | 0.9                 | 1.98 | 88                    |
| OP-3G8410   | 5                                    | 1000                   | 283                       | 10  | 172                     | 6.77 | 1/4                  | 1.04                | 2.29 | 88                    |





## Air Screwdriver Torque Control Type

### 氣動螺絲起子: 扭力控制式

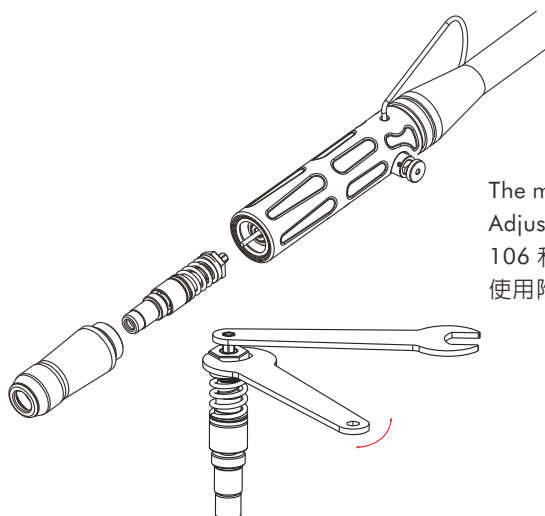
- With push-start device, all parts stop working automatically while reaching the torque.
- Low air consumption, and energy saving.

#### APPLICATION :

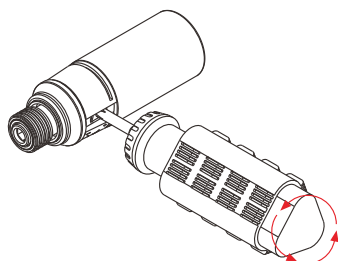
- Apply to release or fasten heavy-precise screws.
- Apply especially to industry assembly lines such as computer, instrument, and electric.
- 觸壓啟動設計，所設定之扭力到達時，全部自動停止
- 耗氣量少，節約能源

#### 用途：

- 高產能、高精度螺絲攻拆
- 電腦業、儀器、電器等精密工業裝配廠



The method of adjusting torque for 106 & 1S series:  
Adjusting torque by using added wrench.  
106 和 1S 系列扭力調整方式：  
使用附加扳手調整



The method of adjusting torque for 2S series:  
Adjusting torque by using PH1 screwdriver.  
2S系列扭力調整方式：  
使用PH1起子調整

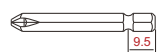


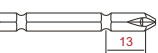
## Air Screwdriver Torque Control Type

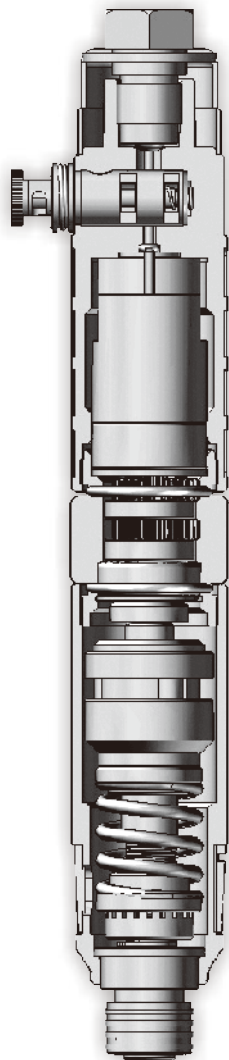
### 氣動螺絲起子:扭力控制式

■ Hex size of bit: 4mm for 106 series  
6.35mm for 1S & 2S series

■ 螺絲刀六角尺寸: 106系列為4mm  
1S 和 2S系列為6.35mm

F Type: 

Q Type: 



#### OP-106A

Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust with muffler 後排氣低噪音



#### OP-106B

Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust with muffler 後排氣低噪音



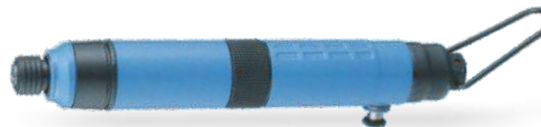
#### OP-1S0625

Magnet type 磁吸式  
Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust with muffler 後排氣低噪音



#### OP-1S0607

Magnet type 磁吸式  
Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust with muffler 後排氣低噪音



#### OP-2S2110 F

Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust 後排氣



#### OP-2S3208 F OP-2S3215 F

Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust 後排氣



#### OP-2S4304 OP-2S4307 F OP-2S4312

Push to start 觸壓啟動  
Air shut off 自動斷氣  
Rear exhaust 後排氣

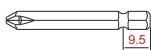
### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

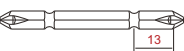
| MODEL<br>型號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸<br>mm | MAX.<br>Torque<br>最大扭力<br>Nm | Free<br>Speed<br>無負荷轉速<br>rpm | Air<br>Consumption<br>耗氣量<br>l/min cfm |     | Overall<br>Length<br>全長<br>mm inch |      | Air<br>Inlet<br>入氣接頭<br>P.T | Net<br>Weight<br>重量<br>kg lb |      | Sound<br>Level<br>噪音值<br>dB(A) |
|-------------|--------------------------------------------|------------------------------|-------------------------------|----------------------------------------|-----|------------------------------------|------|-----------------------------|------------------------------|------|--------------------------------|
| OP-106A     | 2                                          | 0.2~0.35                     | 2500                          | 71                                     | 2.5 | 175                                | 6.88 | 1/4                         | 0.35                         | 0.77 | 69                             |
| OP-106B     | 2.5                                        | 0.35~1.0                     | 750                           | 71                                     | 2.5 | 185                                | 7.28 | 1/4                         | 0.37                         | 0.82 | 69                             |
| OP-1S0625   | 2                                          | 0.2~0.35                     | 2550                          | 71                                     | 2.5 | 186                                | 7.32 | 1/4                         | 0.25                         | 0.55 | 82                             |
| OP-1S0607   | 2.5                                        | 0.35~1.0                     | 750                           | 71                                     | 2.5 | 194                                | 7.63 | 1/4                         | 0.27                         | 0.6  | 82                             |
| OP-2S2110   | 3.5                                        | 1.2~2.2                      | 1000                          | 127                                    | 4.5 | 229                                | 9.01 | 1/4                         | 0.71                         | 1.56 | 75                             |
| OP-2S3215   | 4                                          | 1.5~3.2                      | 1500                          | 170                                    | 6   | 238                                | 9.37 | 1/4                         | 0.76                         | 1.67 | 75                             |
| OP-2S3208   | 5                                          | 1.6~4.3                      | 800                           | 170                                    | 6   | 238                                | 9.37 | 1/4                         | 0.76                         | 1.67 | 75                             |
| OP-2S4312   | 4                                          | 1.7~2.8                      | 1200                          | 198                                    | 7   | 244                                | 9.5  | 1/4                         | 0.95                         | 2.09 | 80                             |
| OP-2S4307   | 5~6                                        | 3.5~7                        | 740                           | 198                                    | 7   | 244                                | 9.6  | 1/4                         | 0.95                         | 2.09 | 80                             |
| OP-2S4304   | 5~6                                        | 4~10                         | 450                           | 198                                    | 7   | 244                                | 9.6  | 1/4                         | 0.95                         | 2.09 | 80                             |



## Air Screwdriver Torque Control Type

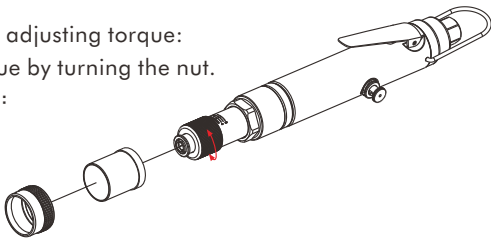
氣動螺絲起子: 扭力控制式

F Type: 

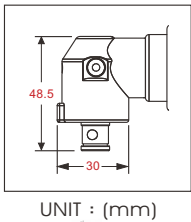
Q Type: 



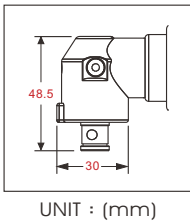
The method of adjusting torque:  
Adjusting torque by turning the nut.  
扭力調整方式：  
調整螺帽距離



**OP-5SLA08**  
**OP-5SLA15** **F**  
Air shut off  
Rear exhaust  
自動斷氣  
後排氣



**OP-5SLA03** **F**  
Air shut off  
Rear exhaust  
自動斷氣  
後排氣



**OP-5S1508A**  
**OP-5S1508B** **F**  
**OP-5S1515B**  
**OP-5S1515C**  
Air shut off  
Rear exhaust  
自動斷氣  
後排氣



**OP-5S5108A**  
**OP-5S5108B** **F**  
**OP-5S5115B**  
**OP-5S5115C**  
Air shut off  
Handle exhaust  
自動斷氣  
下排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Screw Size<br>Capacity<br>螺絲<br>攻拆尺寸 | MAX.<br>Torque<br>最大扭力 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|--------------------------------------|------------------------|------------------------|-----------------------------|-----|--------------------------|-------|----------------------|----------------------|------|-----------------------|
|              | mm                                   | Nm                     | rpm                    | l/min                       | cfm | mm                       | inch  | P.T                  | kg                   | lb   | dB(A)                 |
| OP-5SLA15    | 4                                    | 1.2~2.4                | 1450                   | 198                         | 7   | 340                      | 13.39 | 1/4                  | 1.22                 | 2.69 | 80                    |
| OP-5SLA08    | 5                                    | 2.2~4.3                | 800                    | 198                         | 7   | 340                      | 13.39 | 1/4                  | 1.22                 | 2.69 | 80                    |
| OP-5SLA03    | 6                                    | 4~10                   | 340                    | 198                         | 7   | 350                      | 13.77 | 1/4                  | 1.3                  | 2.86 | 80                    |
| OP-5S1515C   | 3.5                                  | 0.9~1.6                | 1450                   | 198                         | 7   | 285                      | 11.22 | 1/4                  | 0.95                 | 2.09 | 80                    |
| OP-5S1515B   | 4                                    | 1.2~2.4                | 1450                   | 198                         | 7   | 285                      | 11.22 | 1/4                  | 0.95                 | 2.09 | 80                    |
| OP-5S1508B   | 4                                    | 1.6~3.1                | 800                    | 198                         | 7   | 285                      | 11.22 | 1/4                  | 0.95                 | 2.09 | 80                    |
| OP-5S1508A   | 5                                    | 2.2~4.3                | 800                    | 198                         | 7   | 285                      | 11.22 | 1/4                  | 0.95                 | 2.09 | 80                    |
| OP-5S5115C   | 3.5                                  | 0.9~1.6                | 1450                   | 198                         | 7   | 195                      | 7.68  | 1/4                  | 0.98                 | 2.09 | 80                    |
| OP-5S5115B   | 4                                    | 1.2~2.4                | 1450                   | 198                         | 7   | 195                      | 7.68  | 1/4                  | 0.98                 | 2.09 | 80                    |
| OP-5S5108B   | 4                                    | 1.6~3.1                | 800                    | 198                         | 7   | 195                      | 7.68  | 1/4                  | 0.98                 | 2.09 | 80                    |
| OP-5S5108A   | 5                                    | 2.2~4.3                | 800                    | 198                         | 7   | 195                      | 7.68  | 1/4                  | 0.98                 | 2.09 | 80                    |

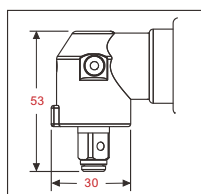


## Air Wrench Clutch Type

氣動扳手:離合式

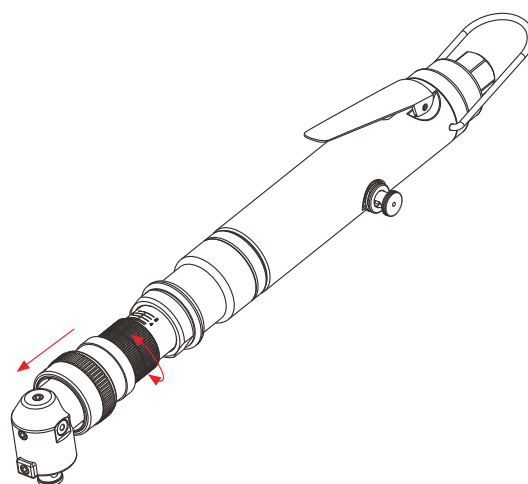


**OP-5CLB08** 3/8"  
**OP-5CLB15** 3/8"  
Rear exhaust  
後排氣



UNIT : (mm)

The method of adjusting torque:  
Adjusting torque by turning the nut.  
扭力調整方式:  
調整螺帽距離

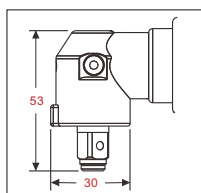


## Air Wrench Torque Control Type

氣動扳手:扭力控制式



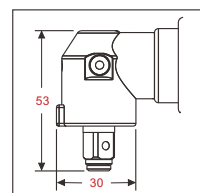
**OP-5SLB08** 3/8"  
**OP-5SLB15** 3/8"  
Air shut off  
Rear exhaust  
後排氣



UNIT : (mm)



**OP-5SLB03** 3/8"  
Air shut off  
Rear exhaust  
後排氣



UNIT : (mm)

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | MAX.<br>Torque<br>最大扭力 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|------------------------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             | mm                            | Nm                     | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb   | dB(A)                 |
| OP-5CLB08   | M5                            | 5                      | 800                    | 198                       | 7   | 334                     | 13.15 | 1/4                  | 1.25                | 2.76 | 80                    |
| OP-5CLB15   | M5                            | 5                      | 1450                   | 198                       | 7   | 334                     | 13.15 | 1/4                  | 1.25                | 2.76 | 80                    |
| OP-5SLB15   | M4                            | 1.2~2.4                | 1450                   | 198                       | 7   | 340                     | 13.39 | 1/4                  | 1.22                | 2.69 | 80                    |
| OP-5SLB08   | M5                            | 2.2~4.3                | 800                    | 198                       | 7   | 340                     | 13.39 | 1/4                  | 1.22                | 2.69 | 80                    |
| OP-5SLB03   | M6                            | 4~10                   | 340                    | 198                       | 7   | 350                     | 13.77 | 1/4                  | 1.3                 | 2.86 | 80                    |



## Air Wrench Two Hammer Type

### 氣動扳手:雙槌式

- High impact frequency.
- Low counteraction.

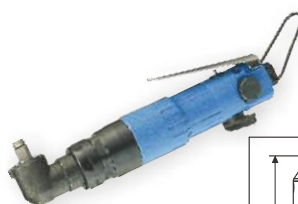
#### APPLICATION :

- Apply to release or fasten small bolts especially in heavy-productive assembly lines such as motor-vehicles, bicycles, and motor.

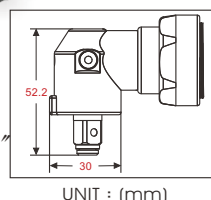
- 衝擊頻率高
- 反作用力小

#### 用途 :

- 小型螺帽攻拆專用如汽機車、自行車、馬達等高精度產量裝配維修廠



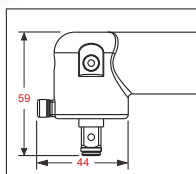
**OP-301LB90 3/8"**  
Rear exhaust  
後排氣



UNIT : (mm)



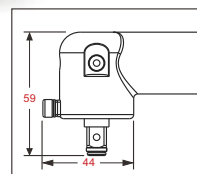
**OP-311LH3 3/8"**  
Rear exhaust  
後排氣



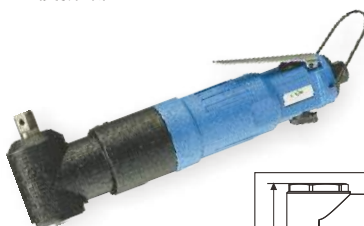
UNIT : (mm)



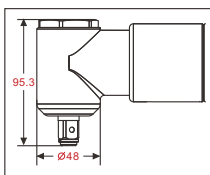
**OP-310LH3 3/8"**  
Side exhaust  
側排氣



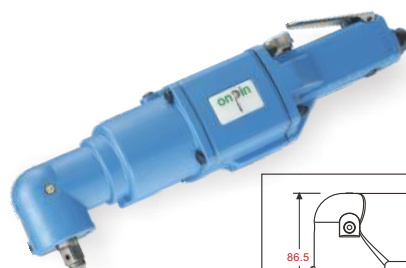
UNIT : (mm)



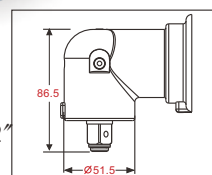
**OP-100LH 1/2"**  
Rear exhaust  
後排氣



UNIT : (mm)



**OP-130LH4 1/2"**  
Side exhaust  
側排氣



UNIT : (mm)

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |       | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|-------|-----------------------|
|             | mm                            | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb    | dB(A)                 |
| OP-301LB90  | M6                            | 17                        | 13    | 40                     | 30    | 9000                   | 141                       | 5   | 240                     | 9.45  | 1/4                  | 1.22                | 2.69  | 83                    |
| OP-311LH3   | M10                           | 50                        | 37    | 90                     | 66    | 8500                   | 240                       | 8.5 | 265                     | 10.43 | 1/4                  | 1.58                | 3.48  | 90                    |
| OP-310LH3   | M10                           | 60                        | 44    | 130                    | 96    | 7000                   | 198                       | 7   | 240                     | 9.45  | 1/4                  | 1.62                | 3.57  | 92                    |
| OP-100LH    | M12                           | 110                       | 81    | 200                    | 148   | 3000                   | 240                       | 8.5 | 300                     | 11.81 | 1/4                  | 2.63                | 5.79  | 87                    |
| OP-130LH4   | M14~M16                       | 220                       | 162   | 270                    | 200   | 4000                   | 283                       | 10  | 375                     | 14.76 | 1/4                  | 5                   | 11.02 | 96                    |





## Air Wrench Two Hammer Type

氣動扳手:雙槌式



**OP-301B2** 1/4"  
**OP-301B3** 3/8"  
Side exhaust  
側排氣



**OP-306B** 3/8"  
Rear exhaust  
後排氣



**OP-809B1** 3/8"  
Rear exhaust with muffler  
後排氣低噪音



**OP-309B** 3/8"  
Side exhaust  
側排氣



**OP-310B3** 3/8"  
Side exhaust  
側排氣



**OP-100B** 1/2"  
Rear exhaust  
後排氣



**OP-130B** 1/2"  
Side exhaust  
側排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             | mm                            | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb   | dB(A)                 |
| OP-301B     | M8                            | 27                        | 20    | 35                     | 26    | 11000                  | 127                       | 4.5 | 178                     | 7.01  | 1/4                  | 0.68                | 1.5  | 89                    |
| OP-306B     | M10                           | 80                        | 59    | 200                    | 148   | 8000                   | 212                       | 7.5 | 225                     | 8.86  | 1/4                  | 1.07                | 2.36 | 90                    |
| OP-809B1    | M10                           | 80                        | 59    | 130                    | 96    | 8000                   | 184                       | 6.5 | 230                     | 9.06  | 1/4                  | 1.2                 | 2.65 | 80                    |
| OP-309B     | M10                           | 80                        | 59    | 200                    | 148   | 8300                   | 212                       | 7.5 | 190                     | 7.48  | 1/4                  | 0.98                | 2.16 | 94                    |
| OP-310B3    | M10~M12                       | 90                        | 66    | 240                    | 177   | 8000                   | 283                       | 10  | 190                     | 7.48  | 1/4                  | 1.06                | 2.34 | 97                    |
| OP-100B     | M12~M14                       | 160                       | 118   | 280                    | 207   | 5500                   | 240                       | 8.5 | 260                     | 10.24 | 1/4                  | 1.7                 | 3.75 | 85                    |
| OP-130B     | M16~M18                       | 320                       | 236   | 500                    | 369   | 4400                   | 283                       | 10  | 330                     | 13    | 1/4                  | 3.4                 | 7.5  | 95                    |





## Air Wrench Two Hammer Type

氣動扳手:雙槌式



**OP-301LB2** 1/4"  
**OP-301LB3** 3/8"  
Handle exhaust  
下排氣



**OP-403LB2** 1/4"  
**OP-403LB3** 3/8"  
Handle exhaust  
下排氣



**OP-306SL1** 3/8"  
Side exhaust  
側排氣



**OP-309LB** 3/8"  
Side exhaust  
側排氣



**OP-406LB** 3/8"  
Handle exhaust  
下排氣



**OP-310LB3** 3/8"  
Side exhaust  
側排氣



**OP-100LB** 1/2"  
Side exhaust  
側排氣



**OP-131LB** 1/2"  
Side exhaust  
側排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             | mm                            | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   | dB(A)                 |
| OP-301LB    | M8                            | 27                        | 20    | 35                     | 26    | 13000                  | 198                       | 7   | 145                     | 5.71 | 1/4                  | 0.9                 | 1.98 | 88                    |
| OP-403LB    | M8                            | 27                        | 20    | 30                     | 22    | 11500                  | 170                       | 6   | 155                     | 6.1  | 1/4                  | 0.9                 | 1.98 | 87                    |
| OP-306SL1   | M10                           | 80                        | 59    | 200                    | 148   | 8000                   | 226                       | 8   | 183                     | 7.2  | 1/4                  | 1.2                 | 2.65 | 94                    |
| OP-309LB    | M10                           | 80                        | 59    | 200                    | 148   | 7700                   | 198                       | 7   | 185                     | 7.28 | 1/4                  | 1.3                 | 2.87 | 89                    |
| OP-406LB    | M12                           | 100                       | 74    | 190                    | 140   | 8000                   | 283                       | 10  | 160                     | 6.3  | 1/4                  | 1.2                 | 2.65 | 87                    |
| OP-310LB3   | M12                           | 110                       | 81    | 240                    | 177   | 8000                   | 283                       | 10  | 185                     | 7.28 | 1/4                  | 1.34                | 2.89 | 93                    |
| OP-100LB    | M16                           | 270                       | 199   | 440                    | 325   | 5000                   | 240                       | 8.5 | 180                     | 7.09 | 1/4                  | 2.3                 | 5.07 | 92                    |
| OP-131LB    | M18                           | 360                       | 266   | 580                    | 428   | 4300                   | 283                       | 10  | 210                     | 8.27 | 1/4                  | 3.1                 | 6.83 | 96                    |



## Air Wrench Single Ring Type

氣動扳手:單環式



**OP-308DW** 1/2"  
**OP-308D** 3/8"  
Rear exhaust  
後排氣



**OP-310DB3** 3/8"  
**OP-310DB4** 1/2"  
Side exhaust  
側排氣



**OP-310LD3** 3/8"  
**OP-310LD4** 1/2"  
Side exhaust  
側排氣



**OP-409W** 3/8"  
**OP-409WHA** 1/2"  
Handle exhaust  
下排氣



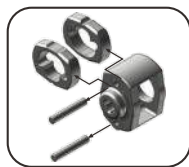
**OP-601DB** 3/8"  
**OP-601D** 1/2"  
Side exhaust  
側排氣



**OP-605D4** 1/2"  
Handle exhaust  
下排氣

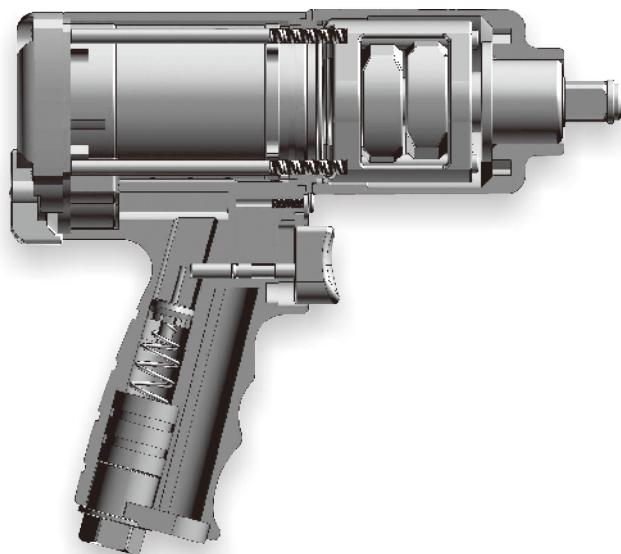
### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 | MAX.<br>Torque<br>最大扭力 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 | Overall<br>Length<br>全長 | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------|----------------------|---------------------|-----------------------|
|             | mm                            | Nm ft-lb                  | Nm ft-lb               | rpm                    | l/min cfm                 | mm inch                 | P.T                  | kg lb               | dB(A)                 |
| OP-308DW    | M12                           | 120 86                    | 200 148                | 8100                   | 240 8.5                   | 220 8.66                | 1/4                  | 1.32 2.91           | 85                    |
| OP-308D     | M12                           | 120 86                    | 200 148                | 8100                   | 240 8.5                   | 220 8.66                | 1/4                  | 1.32 2.91           | 85                    |
| OP-310DB3   | M12                           | 120 86                    | 300 221                | 8000                   | 198 7                     | 200 7.87                | 1/4                  | 1.18 2.6            | 96                    |
| OP-310DB4   | M12                           | 120 86                    | 300 221                | 8000                   | 198 7                     | 200 7.87                | 1/4                  | 1.18 2.6            | 96                    |
| OP-310LD3   | M12                           | 120 86                    | 270 200                | 8000                   | 198 7                     | 185 7.28                | 1/4                  | 1.5 3.3             | 96                    |
| OP-310LD4   | M12                           | 120 86                    | 270 200                | 8000                   | 198 7                     | 185 7.28                | 1/4                  | 1.5 3.3             | 96                    |
| OP-409W     | M12                           | 120 86                    | 270 200                | 8500                   | 254 9                     | 155 6.1                 | 1/4                  | 1.32 2.91           | 88                    |
| OP-409WHA   | M12                           | 120 86                    | 270 200                | 8500                   | 254 9                     | 155 6.1                 | 1/4                  | 1.32 2.91           | 88                    |
| OP-601DB    | M12                           | 120 86                    | 270 200                | 8500                   | 240 8.5                   | 155 6.1                 | 1/4                  | 1.54 3.4            | 94                    |
| OP-601D     | M12                           | 120 86                    | 270 200                | 8500                   | 240 8.5                   | 155 6.1                 | 1/4                  | 1.54 3.4            | 94                    |
| OP-605D4    | M12                           | 120 86                    | 270 200                | 9500                   | 240 8.5                   | 155 6.1                 | 1/4                  | 1.42 3.13           | 82                    |



Air Wrench Twin Ring Type

扳手系列:雙環式



- High torque
- Long lasting
- Less vibration than single ring type

APPLICATION :

- Especially in heavy-productive industries rattan, motor.

- 扭力大
- 壽命長
- 震動力較單環式小

用途 :

- 適用於汽機車、組立廠



OP-906D4 1/2"  
Handle exhaust  
下排氣



OP-603D 1/2"  
Side exhaust  
側排氣



OP-908D 1/2"  
Handle exhaust  
下排氣



OP-909D 1/2"  
Composite handle  
Handle exhaust  
複合材料把手  
下排氣



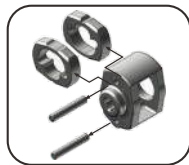
OP-936D2 3/4"  
Handle exhaust  
下排氣



OP-936D4 3/4"  
Handle exhaust  
下排氣

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |      | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|-------|------------------------|-------|------------------------|---------------------------|------|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             | mm                            | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                     | cfm  | mm                      | inch  | P.T                  | kg                  | lb   | dB(A)                 |
| OP-906D4    | M16                           | 270                       | 200   | 450                    | 332   | 10000                  | 311                       | 11   | 140                     | 5.51  | 1/4                  | 1.6                 | 3.52 | 92                    |
| OP-603D     | M18~M20                       | 450                       | 332   | 560                    | 413   | 6000                   | 325                       | 11.5 | 180                     | 7.09  | 1/4                  | 2.57                | 5.67 | 95                    |
| OP-908D     | M18~M20                       | 450                       | 332   | 600                    | 443   | 6700                   | 297                       | 10.5 | 190                     | 7.48  | 1/4                  | 2.68                | 5.91 | 96                    |
| OP-909D     | M18~M20                       | 450                       | 332   | 550                    | 406   | 7300                   | 311                       | 11   | 210                     | 8.27  | 1/4                  | 2.15                | 4.74 | 90                    |
| OP-936D2    | M22                           | 820                       | 604   | 950                    | 700   | 5400                   | 424                       | 15   | 223                     | 8.78  | 1/4                  | 4.1                 | 9.04 | 93                    |
| OP-936D4    | M22                           | 820                       | 604   | 950                    | 700   | 5400                   | 424                       | 15   | 268                     | 10.55 | 1/4                  | 4.25                | 9.37 | 93                    |



## Air Wrench Twin Ring Type

### 氣動扳手:雙環式



Outside trigger  
外板機

Inside trigger  
內板機



#### OP-912D2 3/4"

Side exhaust  
側排氣

- Outside trigger : OP-912D2 with driver anvil length 1/2"  
OP-912D4 with driver anvil length 2-1/4"
- Inside trigger : OP-912DZ2 with driver anvil length 1/2"  
OP-912DZ4 with driver anvil length 2-1/4"
- 外板機 : OP-912D2輸出軸長為1/2"  
OP-912D4輸出軸長為2-1/4"
- 內板機 : OP-912DZ2輸出軸長為1/2"  
OP-912DZ4輸出軸長為2-1/4"



#### OP-913D2 1"

Side exhaust  
Light type  
側排氣  
輕量型

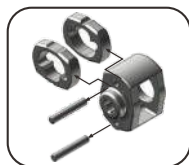


- Outside trigger : OP-913D2 with driver anvil length 1/2"  
OP-913D6 with driver anvil length 6-1/2"  
OP-913D8 with driver anvil length 8-1/2"
- Inside trigger : OP-913DZ2 with driver anvil length 1/2"  
OP-913DZ6 with driver anvil length 6-1/2"  
OP-913DZ8 with driver anvil length 8-1/2"
- 外板機 : OP-913D2輸出軸長為1/2"  
OP-913D6輸出軸長為6-1/2"  
OP-913D8輸出軸長為8-1/2"
- 內板機 : OP-913DZ2輸出軸長為1/2"  
OP-913DZ6輸出軸長為6-1/2"  
OP-913DZ8輸出軸長為8-1/2"

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 | MAX.<br>Torque<br>最大扭力 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 | Overall<br>Length<br>全長 | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------|----------------------|---------------------|-----------------------|
|             | mm                            | Nm ft-lb                  | Nm ft-lb               | rpm                    | l/min cfm                 | mm inch                 | P.T                  | kg lb               | dB(A)                 |
| OP-912D2    | M22~M24                       | 900 664                   | 1000 ~1300 730 ~950    | 4300                   | 424 15                    | 348 13.7                | 3/8                  | 5.1 11.24           | 102                   |
| OP-912D4    | M22~M24                       | 900 664                   | 1000 ~1300 730 ~950    | 4300                   | 424 15                    | 393 15.47               | 3/8                  | 5.25 11.57          | 102                   |
| OP-912DZ2   | M22~M24                       | 900 664                   | 1000 ~1300 730 ~950    | 4300                   | 424 15                    | 348 13.7                | 3/8                  | 5.1 11.24           | 102                   |
| OP-912DZ4   | M22~M24                       | 900 664                   | 1000 ~1300 730 ~950    | 4300                   | 424 15                    | 393 15.47               | 3/8                  | 5.25 11.57          | 102                   |
| OP-913D2    | M27                           | 1400 1032                 | 1800 ~2000 1320 ~1470  | 4000                   | 424 15                    | 350 13.78               | 3/8                  | 6.6 14.55           | 102                   |
| OP-913D6    | M27                           | 1400 1032                 | 1800 ~2000 1320 ~1470  | 4000                   | 424 15                    | 500 19.69               | 3/8                  | 7.4 16.31           | 102                   |
| OP-913D8    | M27                           | 1400 1032                 | 1800 ~2000 1320 ~1470  | 4000                   | 424 15                    | 550 21.65               | 3/8                  | 7.8 17.2            | 102                   |
| OP-913DZ2   | M27                           | 1400 1032                 | 1800 ~2000 1320 ~1470  | 4000                   | 424 15                    | 350 13.78               | 3/8                  | 6.6 14.55           | 102                   |
| OP-913DZ6   | M27                           | 1400 1032                 | 1800 ~2000 1320 ~1470  | 4000                   | 424 15                    | 500 19.69               | 3/8                  | 7.4 16.31           | 102                   |
| OP-913DZ8   | M27                           | 1400 1032                 | 1800 ~2000 1320 ~1470  | 4000                   | 424 15                    | 550 21.65               | 3/8                  | 7.8 17.2            | 102                   |





## Air Wrench Twin Ring Type

### 氣動扳手:雙環式

Outside trigger  
外板機

Inside trigger  
內板機



#### OP-914D2 1"

Side exhaust  
側排氣



- Outside trigger : OP-914D2 with driver anvil length 1/2"  
OP-914D6 with driver anvil length 6-1/2"  
OP-914D8 with driver anvil length 8-1/2"
- Inside trigger : OP-914DZ2 with driver anvil length 1/2"  
OP-914DZ6 with driver anvil length 6-1/2"  
OP-914DZ8 with driver anvil length 8-1/2"

- 外板機 : OP-914D2輸出軸長為1/2"  
OP-914D6輸出軸長為6-1/2"  
OP-914D8輸出軸長為8-1/2"
- 內板機 : OP-914DZ2輸出軸長為1/2"  
OP-914DZ6輸出軸長為6-1/2"  
OP-914DZ8輸出軸長為8-1/2"



#### OP-914DA3 1-1/2"

Side exhaust  
側排氣

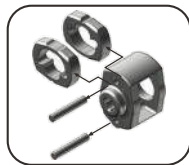


- Outside trigger : OP-914DA3 with driver anvil length 1/2"  
OP-914DA6 with driver anvil length 6"
- Inside trigger : OP-914DAZ3 with driver anvil length 1/2"  
OP-914DAZ6 with driver anvil length 6"

- 外板機 : OP-914DA3輸出軸長為1/2"  
OP-914DA6輸出軸長為6"
- 內板機 : OP-914DAZ3輸出軸長為1/2"  
OP-914DAZ6輸出軸長為6"

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 | MAX.<br>Torque<br>最大扭力   | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 | Overall<br>Length<br>全長 | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 | Sound<br>Level<br>噪音值 |
|-------------|-------------------------------|---------------------------|--------------------------|------------------------|---------------------------|-------------------------|----------------------|---------------------|-----------------------|
|             | mm                            | Nm ft-lb                  | Nm ft-lb                 | rpm                    | l/min cfm                 | mm inch                 | P.T                  | kg lb               | dB(A)                 |
| OP-914D2    | M30                           | 2000 1475                 | 2500 1840<br>~2900 ~2130 | 2800                   | 452 16                    | 393 15.47               | 3/8                  | 10.3 22.71          | 100                   |
| OP-914D6    | M30                           | 2000 1475                 | 2500 1840<br>~2800 ~2060 | 2800                   | 452 16                    | 543 21.38               | 3/8                  | 12.3 27.12          | 100                   |
| OP-914D8    | M30                           | 2000 1475                 | 2500 1840<br>~2800 ~2060 | 2800                   | 452 16                    | 594 23.39               | 3/8                  | 13.3 29.3           | 100                   |
| OP-914DZ2   | M30                           | 2000 1475                 | 2500 1840<br>~2900 ~2130 | 2800                   | 452 16                    | 393 15.47               | 3/8                  | 10.3 22.71          | 100                   |
| OP-914DZ6   | M30                           | 2000 1475                 | 2500 1840<br>~2800 ~2060 | 2800                   | 452 16                    | 543 21.38               | 3/8                  | 12.3 27.12          | 100                   |
| OP-914DZ8   | M30                           | 2000 1475                 | 2500 1840<br>~2800 ~2060 | 2800                   | 452 16                    | 594 23.39               | 3/8                  | 13.3 29.3           | 100                   |
| OP-914DA3   | M30                           | 2000 1475                 | 2700 1990<br>~3000 ~2210 | 2800                   | 452 16                    | 418 16.46               | 3/8                  | 11.54 25.44         | 100                   |
| OP-914DAZ3  | M30                           | 2000 1475                 | 2700 1990<br>~3000 ~2210 | 2800                   | 452 16                    | 418 16.46               | 3/8                  | 11.54 25.44         | 100                   |
| OP-914DA6   | M30                           | 2000 1475                 | 2700 1990<br>~3000 ~2210 | 2800                   | 452 16                    | 543 21.38               | 3/8                  | 13.26 29.23         | 100                   |
| OP-914DAZ6  | M30                           | 2000 1475                 | 2700 1990<br>~3000 ~2210 | 2800                   | 452 16                    | 543 21.38               | 3/8                  | 13.26 29.23         | 100                   |



## Air Wrench Twin Ring Type

### 氣動扳手:雙環式

Inside trigger  
內板機



**OP-914DZ2-#5**

Side exhaust  
側排氣

■ Inside trigger : OP-914DZ2-#5 with driver anvil length 1/2"  
OP-914DZ6-#5 with driver anvil length 6"

■ 內板機 : OP-914DZ2-#5輸出軸長為1/2"  
OP-914DZ6-#5輸出軸長為6"



**OP-915D 3/4"**

**OP-915DA 1"**

Composite handle  
Handle exhaust  
複合材料把手  
下排氣



**OP-W17-D1A 1/2"**

**OP-W17-D1B 3/8"**

Rear exhaust  
後排氣



**OP-W19-D1A 3/8"**

**OP-W19-D1B 1/2"**

Handle exhaust  
下排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

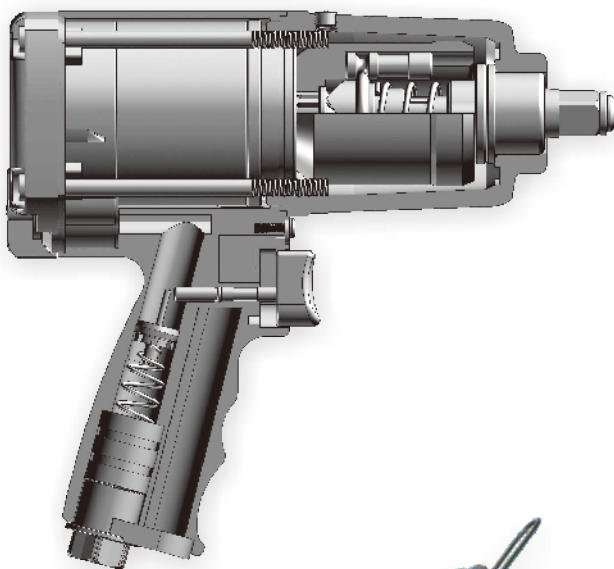
| MODEL<br>型號  | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 | MAX.<br>Torque<br>最大扭矩 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 | Overall<br>Length<br>全長 | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 | Sound<br>Level<br>噪音值 |
|--------------|-------------------------------|---------------------------|------------------------|------------------------|---------------------------|-------------------------|----------------------|---------------------|-----------------------|
|              | mm                            | Nm ft-lb                  | Nm ft-lb               | rpm                    | l/min cfm                 | mm inch                 | P.T                  | kg lb               | dB(A)                 |
| OP-914DZ2-#5 | M30                           | 2000 1475                 | 2500 ~2900 1840 ~2130  | 2800                   | 452 16                    | 393 15.47               | 3/8                  | 11.54 25.44         | 100                   |
| OP-914DZ6-#5 | M30                           | 2000 1475                 | 2500 ~2800 1840 ~2060  | 2800                   | 452 16                    | 543 21.38               | 3/8                  | 12.74 28.08         | 100                   |
| OP-915D      | M24~M27                       | 1300 958                  | 2000 1475              | 3800                   | 410 14.5                  | 260 10.24               | 3/8                  | 6.08 13.4           | 85                    |
| OP-915DA     | M24~M27                       | 1300 958                  | 2000 1475              | 3800                   | 410 14.5                  | 270 10.63               | 3/8                  | 6.2 13.67           | 85                    |
| OP-W17-D1A   | M12                           | 120 86                    | 200 148                | 8100                   | 226 8                     | 220 8.66                | 1/4                  | 1.32 2.91           | 85                    |
| OP-W17-D1B   | M12                           | 120 86                    | 200 148                | 8100                   | 226 8                     | 220 8.66                | 1/4                  | 1.32 2.91           | 85                    |
| OP-W19-D1A   | M12                           | 120 86                    | 270 200                | 8500                   | 254 9                     | 155 6.1                 | 1/4                  | 1.32 2.91           | 88                    |
| OP-W19-D1B   | M12                           | 120 86                    | 270 200                | 8500                   | 254 9                     | 155 6.1                 | 1/4                  | 1.32 2.91           | 88                    |





## Air Wrench Pin Clutch Type

### 氣動扳手:銷擊式



- Every motor rotation causes two hammer pin impacts at the same time to keep balance, lower vibration and larger output power.

#### APPLICATION :

- Apply to heavy-productive assembly lines such as motor- vehicles, bicycles, and motor.

- 每一次的馬達旋轉皆帶動兩個銷擊鎚同時衝擊，因此可以保持衝擊平衡、減低震動及增加能力

#### 用 途：

- 汽機車、自行車、馬達等高度產量裝配維修廠



**OP-308A** 3/8"  
**OP-308B** 1/2"  
Rear exhaust  
後排氣



**OP-813** 3/8"  
**OP-814** 1/2"  
Rear exhaust with muffler  
後排氣低噪音



**OP-308LA** 3/8"  
**OP-308LB** 1/2"  
Side exhaust  
側排氣



**OP-408LA** 3/8"  
**OP-408LB** 1/2"  
Handle exhaust  
下排氣

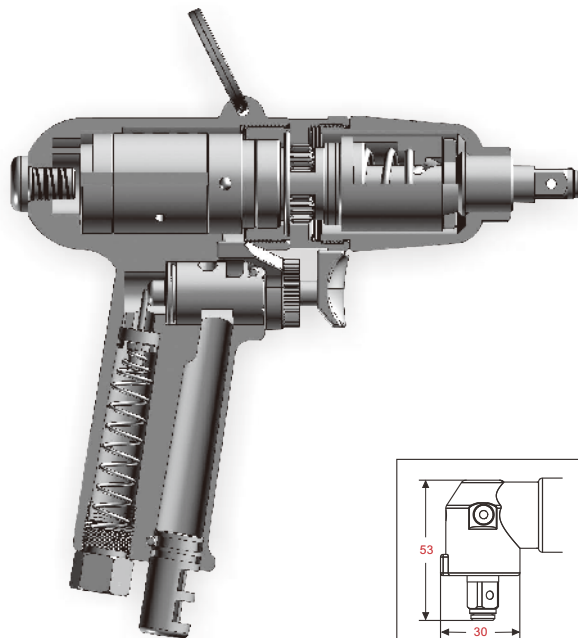
#### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Lever<br>噪音值 |
|--------------|-------------------------------|---------------------------|-------|------------------------|-------|------------------------|-----------------------------|-----|--------------------------|------|----------------------|----------------------|------|-----------------------|
|              | mm                            | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                       | cfm | mm                       | inch | P.T                  | kg                   | lb   | dB(A)                 |
| OP-308A      | M14                           | 140                       | 103   | 290                    | 214   | 7500                   | 240                         | 8.5 | 230                      | 9.06 | 1/4                  | 1.3                  | 2.87 | 90                    |
| OP-308B      | M14                           | 160                       | 118   | 290                    | 214   | 7500                   | 240                         | 8.5 | 230                      | 9.06 | 1/4                  | 1.3                  | 2.87 | 90                    |
| OP-813       | M14                           | 140                       | 103   | 210                    | 155   | 7300                   | 184                         | 6.5 | 230                      | 9.06 | 1/4                  | 1.4                  | 3.09 | 80                    |
| OP-814       | M14                           | 160                       | 118   | 210                    | 155   | 7300                   | 184                         | 6.5 | 230                      | 9.06 | 1/4                  | 1.4                  | 3.09 | 80                    |
| OP-308LA     | M14                           | 140                       | 103   | 290                    | 214   | 7000                   | 226                         | 8   | 190                      | 7.48 | 1/4                  | 1.4                  | 3.09 | 94                    |
| OP-308LB     | M14                           | 160                       | 118   | 290                    | 214   | 7000                   | 226                         | 8   | 190                      | 7.48 | 1/4                  | 1.4                  | 3.09 | 94                    |
| OP-408LA     | M14                           | 140                       | 103   | 300                    | 221   | 8000                   | 226                         | 8   | 165                      | 6.5  | 1/4                  | 1.4                  | 3.09 | 85                    |
| OP-408LB     | M14                           | 160                       | 118   | 300                    | 221   | 8000                   | 226                         | 8   | 165                      | 6.5  | 1/4                  | 1.4                  | 3.09 | 85                    |



## Air Wrench Ball Bearing Hitter Type

### 氣動扳手:鋼珠打擊式



- High speed
- Low vibration

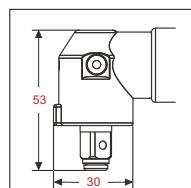
#### APPLICATION :

- Especially in heavy-productive industries rattan, motor.

- 工作速度快
- 低震動

#### 用途 :

適用於汽機車、組立廠



UNIT : (mm)



#### OP-808LH3 3/8"

Rear exhaust with muffler  
後排氣低噪音



#### OP-602B 3/8"

Side exhaust  
Low Rotational Speed  
側排氣  
低轉速



#### OP-407LB 3/8"

Handle exhaust  
下排氣



#### OP-601B 3/8"

Handle exhaust  
Low Rotational Speed  
下排氣  
低轉速

#### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |          | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Lever<br>噪音值 |
|-------------|-------------------------------|---------------------------|----------|------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-----------------------|
|             |                               | mm                        | Nm ft-lb | Nm                     | ft-lb |                        | l/min                     | cfm | mm                      | inch |                      | kg                  | lb   |                       |
| OP-808LH3   | M6                            | 10                        | 7        | 25                     | 18.5  | 2200                   | 127                       | 4.5 | 560                     | 22   | 1/4                  | 2.3                 | 5.07 | 73                    |
| OP-602B     | M10                           | 45                        | 33       | 50                     | 37    | 2500                   | 141                       | 5   | 220                     | 8.66 | 1/4                  | 0.99                | 2.18 | 89                    |
| OP-407LB    | M10                           | 45                        | 33       | 50                     | 37    | 2400                   | 212                       | 7.5 | 185                     | 7.28 | 1/4                  | 1.17                | 2.58 | 88                    |
| OP-601B     | M10                           | 45                        | 33       | 50                     | 37    | 2700                   | 170                       | 6   | 185                     | 7.28 | 1/4                  | 1.13                | 2.49 | 82                    |

Air Ratchet Wrench

氣動棘輪扳手

- The ratchet wrench can be used in narrow working spaces and can fasten bolts and nuts easily. This special tool can be reached tight place that other air tools can not.

■ Remove:First, loosen nut by wrench then take nut out with air ratchet.

■ Fasten:Push trigger to position the nut then lock it with torque wrench.
- 棘輪扳手主要功能，是解決其他氣動工具，無法深入極小空間裡、鎖緊螺絲或螺帽之特殊工具。

■ 拆卸：應先以扳手鬆開螺帽後，再觸壓板機。

■ 上緊：觸壓板機將螺帽定位後，再以扭力扳手上緊。



OP-808LS  
Rear exhaust  
後排氣



OP-814LS  
Rear exhaust  
後排氣



OP-814LSB  
Rear exhaust  
後排氣



OP-819LS  
Rear exhaust  
後排氣



OP-827LS  
Rear exhaust  
後排氣



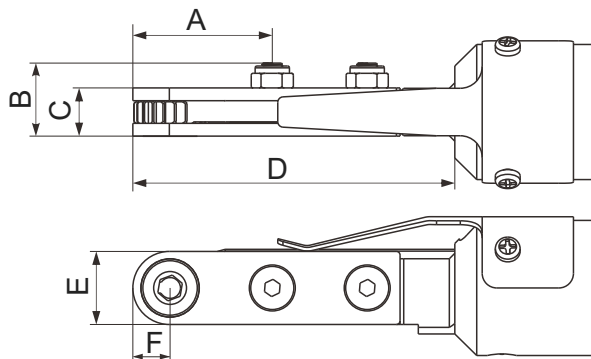
OP-832LS  
Rear exhaust  
後排氣



OP-836LS  
Rear exhaust  
後排氣

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Hex Size<br>六角尺寸                                   | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |      | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|----------------------------------------------------|---------------------------|-------|------------------------|-------|------------------------|-----------------------------|------|--------------------------|-------|----------------------|----------------------|------|-----------------------|
|              | mm                                                 | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                       | cfm  | mm                       | inch  | P.T                  | kg                   | lb   | dB(A)                 |
| OP-808LS     | 6,7,8,10,11,12,<br>(1/4", 3/8")                    | 10                        | 7     | 10                     | 7     | 180                    | 127                         | 4.5  | 300                      | 11.81 | 1/4                  | 1.3                  | 2.87 | 86                    |
| OP-814LS     | 10,11,12,13,14,<br>(1/2", 9/16")                   | 15                        | 11    | 25                     | 18    | 190                    | 212                         | 7.5  | 332                      | 13.07 | 1/4                  | 1.92                 | 4.23 | 87                    |
| OP-814LSB    | 10, 11, 12, 13, 14, 15,<br>16, 17, 18, 19 (11/16") | 15                        | 11    | 25                     | 18    | 160                    | 212                         | 7.5  | 338                      | 13.3  | 1/4                  | 2                    | 4.4  | 87                    |
| OP-819LS     | 10, 11, 12, 13, 14, 15,<br>16, 17, 18, 19 (11/16") | 80                        | 59    | 90                     | 66    | 150                    | 353                         | 12.5 | 390                      | 15.35 | 1/4                  | 2.42                 | 5.33 | 92                    |
| OP-827LS     | 21, 22, 23, 24, 26, 27                             | 80                        | 59    | 90                     | 66    | 130                    | 353                         | 12.5 | 398                      | 15.66 | 1/4                  | 2.48                 | 5.46 | 92                    |
| OP-832LS     | 29, 30, 32                                         | 80                        | 59    | 90                     | 66    | 110                    | 353                         | 12.5 | 405                      | 15.94 | 1/4                  | 2.5                  | 5.51 | 92                    |
| OP-836LS     | 36                                                 | 80                        | 59    | 90                     | 66    | 100                    | 353                         | 12.5 | 408                      | 16.06 | 1/4                  | 2.52                 | 5.55 | 92                    |



| MODEL<br>型 號 | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | F<br>mm |
|--------------|---------|---------|---------|---------|---------|---------|
| OP-808LS     | 38.2    | 20      | 13.2    | 88.2    | 20      | 10.2    |
| OP-814LS     | 44.4    | 26      | 18      | 109     | 25.2    | 12.2    |
| OP-814LSB    | 51      | 26      | 18      | 115     | 33.2    | 16.6    |
| OP-819LS     | 51      | 26      | 18      | 115     | 33.2    | 16.6    |
| OP-827LS     | 59      | 26      | 18      | 123     | 41      | 20.5    |
| OP-832LS     | 66      | 26      | 18      | 130     | 48      | 24      |
| OP-836LS     | 70      | 26      | 18      | 134     | 52      | 26      |

#### Air Ratchet Wrench Order Code Reference

| Model<br>型 號     | OP-808LS         | OP-814LS       | OP-814LSB        | OP-819LS        | OP-827LS    | OP-832LS    | OP-836LS |
|------------------|------------------|----------------|------------------|-----------------|-------------|-------------|----------|
| Hex Size<br>六角尺寸 | Order Code 訂 貨 號 |                |                  |                 |             |             |          |
| 6mm              | OP-808LS-6       |                |                  |                 |             |             |          |
| 7mm              | OP-808LS-7       |                |                  |                 |             |             |          |
| 8mm              | OP-808LS-8       |                |                  |                 |             |             |          |
| 9mm              | OP-808LS-9       |                |                  |                 |             |             |          |
| 10mm             | OP-808LS-10      | OP-814LS-10    | OP-814LSB-10     | OP-819LS-10     |             |             |          |
| 11mm             | OP-808LS-11      | OP-814LS-11    | OP-814LSB-11     | OP-819LS-11     |             |             |          |
| 12mm             | OP-808LS-12      | OP-814LS-12    | OP-814LSB-12     | OP-819LS-12     |             |             |          |
| 13mm             |                  | OP-814LS-13    | OP-814LSB-13     | OP-819LS-13     |             |             |          |
| 14mm             |                  | OP-814LS-14    | OP-814LSB-14     | OP-819LS-14     |             |             |          |
| 15mm             |                  |                | OP-814LSB-15     | OP-819LS-15     |             |             |          |
| 16mm             |                  |                | OP-814LSB-16     | OP-819LS-16     |             |             |          |
| 17mm             |                  |                | OP-814LSB-17     | OP-819LS-17     |             |             |          |
| 18mm             |                  |                | OP-814LSB-18     | OP-819LS-18     |             |             |          |
| 19mm             |                  |                | OP-814LSB-19     | OP-819LS-19     |             |             |          |
| 21mm             |                  |                |                  |                 | OP-827LS-21 |             |          |
| 22mm             |                  |                |                  |                 | OP-827LS-22 |             |          |
| 23mm             |                  |                |                  |                 | OP-827LS-23 |             |          |
| 24mm             |                  |                |                  |                 | OP-827LS-24 |             |          |
| 26mm             |                  |                |                  |                 | OP-827LS-26 |             |          |
| 27mm             |                  |                |                  |                 | OP-827LS-27 |             |          |
| 29mm             |                  |                |                  |                 |             | OP-832LS-29 |          |
| 30mm             |                  |                |                  |                 |             | OP-832LS-30 |          |
| 32mm             |                  |                |                  |                 |             | OP-832LS-32 |          |
| 36mm             |                  |                |                  |                 |             |             | OP-836LS |
| 1/4"             | OP-808LS-1/4"    |                |                  |                 |             |             |          |
| 3/8"             | OP-808LS-3/8"    |                |                  |                 |             |             |          |
| 1/2"             |                  | OP-814LS-1/2"  |                  |                 |             |             |          |
| 9/16"            |                  | OP-814LS-9/16" |                  |                 |             |             |          |
| 11/16"           |                  |                | OP-814LSB-11/16" | OP-819LS-11/16" |             |             |          |

AIR RATCHET WRENCH



**OP-RW1016**  
Rear exhaust  
後排氣



**OP-RW10172 1/4"**  
**OP-RW10173 3/8"**  
Rear exhaust  
後排氣



**OP-RW11473 3/8"**  
**OP-RW11474 1/2"**  
Rear exhaust  
後排氣



**OP-RW10223 3/8"**  
**OP-RW10224 1/2"**  
Rear exhaust  
後排氣



**OP-121 1/2"**  
Front exhaust  
前排氣

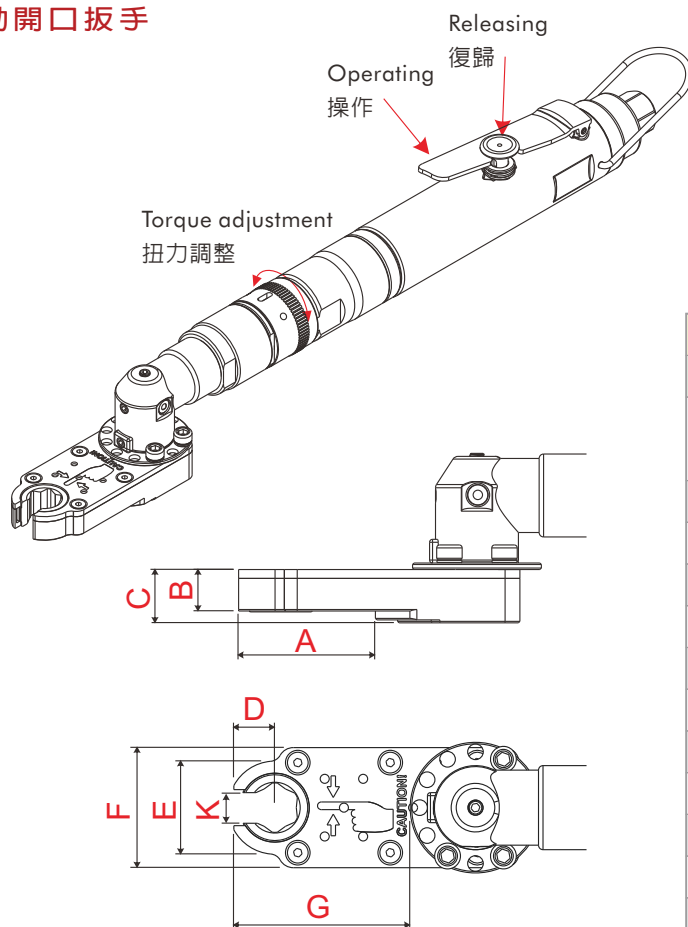
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Hex Size<br>六角尺寸 | Bolt Size<br>Capacity<br>螺栓規格 | Working<br>Torque<br>工作扭力 |       | MAX.<br>Torque<br>最大扭力 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|------------------|-------------------------------|---------------------------|-------|------------------------|-------|------------------------|-----------------------------|-----|--------------------------|-------|----------------------|----------------------|------|-----------------------|
|              | mm               | mm                            | Nm                        | ft-lb | Nm                     | ft-lb | rpm                    | l/min                       | cfm | mm                       | inch  | P.T                  | kg                   | lb   | dB(A)                 |
| OP-RW1016    | 8,10,12,13,14    |                               | 10                        | 7     | 41                     | 30    | 450                    | 141                         | 5   | 188                      | 7.4   | 1/4                  | 0.55                 | 1.21 | 77                    |
| OP-RW10172   |                  | M6                            | 10                        | 7     | 34                     | 25    | 250                    | 141                         | 5   | 181                      | 7.13  | 1/4                  | 0.55                 | 1.21 | 85                    |
| OP-RW10173   |                  | M6                            | 10                        | 7     | 34                     | 25    | 250                    | 141                         | 5   | 181                      | 7.13  | 1/4                  | 0.55                 | 1.21 | 85                    |
| OP-RW11473   |                  | M10                           | 80                        | 59    | 100                    | 74    | 140                    | 310                         | 11  | 275                      | 10.82 | 1/4                  | 1.45                 | 3.19 | 85                    |
| OP-RW11474   |                  | M10                           | 80                        | 59    | 100                    | 74    | 140                    | 310                         | 11  | 275                      | 10.82 | 1/4                  | 1.45                 | 3.19 | 85                    |
| OP-RW10223   |                  | M10                           | 50                        | 37    | 95                     | 70    | 180                    | 170                         | 6   | 266                      | 10.47 | 1/4                  | 1.2                  | 2.65 | 85                    |
| OP-RW10224   |                  | M10                           | 50                        | 37    | 95                     | 70    | 180                    | 170                         | 6   | 266                      | 10.47 | 1/4                  | 1.2                  | 2.65 | 85                    |
| OP-121       |                  | M10                           | 43                        | 32    | 100                    | 74    | 150                    | 339                         | 12  | 360                      | 14.17 | 1/4                  | 2.06                 | 4.54 | 92                    |



Air Open-end Wrench

氣動開口扳手



| MODEL<br>型號 | A    | B  | C  | D    | E    | F  | G    |
|-------------|------|----|----|------|------|----|------|
|             | mm   | mm | mm | mm   | mm   | mm | mm   |
| OP-EW17     | 46.2 | 14 | 18 | 13.6 | 31   | 40 | 58.8 |
| OP-EW24     | 57.2 | 14 | 18 | 20.6 | 46.6 | 48 | 83.2 |

Air Open-end Wrench Order Code Reference

| Model<br>型號      | OP-EW17                  | OP-EW24    |      |
|------------------|--------------------------|------------|------|
| Order Code 訂貨號   |                          |            |      |
| Hex Size<br>六角尺寸 | Forward & Reverse<br>穿孔型 |            | K    |
| 7mm              | OP-EW17-7                |            | 5    |
| 8mm              | OP-EW17-8                |            | 5.6  |
| 9mm              | OP-EW17-9                |            | 6.5  |
| 10mm             | OP-EW17-10               |            | 7    |
| 11mm             | OP-EW17-11               |            | 8.1  |
| 12mm             | OP-EW17-12               |            | 8.5  |
| 13mm             | OP-EW17-13               |            | 9    |
| 14mm             | OP-EW17-14               |            | 10.2 |
| 15mm             | OP-EW17-15               |            | 10.5 |
| 16mm             | OP-EW17-16               |            | 10.9 |
| 17mm             | OP-EW17-17               | OP-EW24-17 | 11.3 |
| 19mm             |                          | OP-EW24-19 | 13.1 |
| 21mm             |                          | OP-EW24-21 | 15   |
| 22mm             |                          | OP-EW24-22 | 15.2 |
| 24mm             |                          | OP-EW24-24 | 16.1 |



OP-EW17

Air shut off 自動斷氣  
Rear exhaust 後排氣



OP-EW24

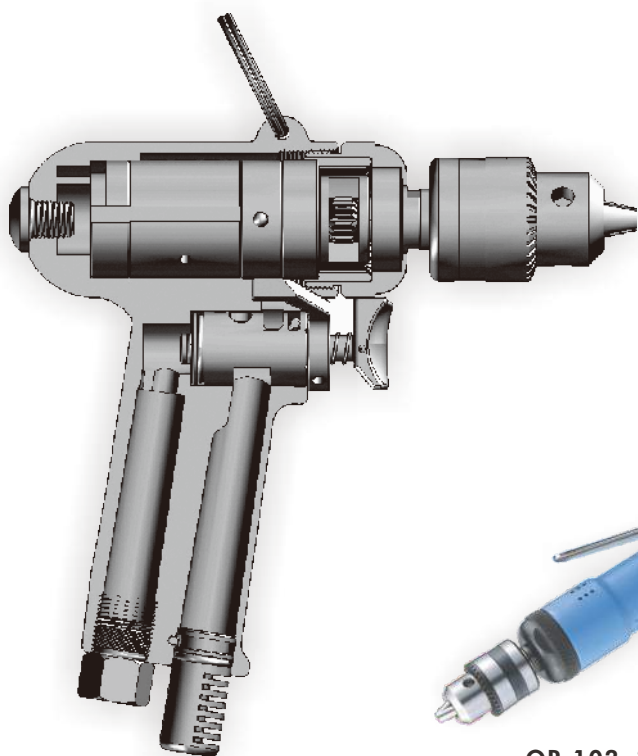
Air shut off 自動斷氣  
Rear exhaust 後排氣

SPECIFICATION(air pressure at 90psi 、6.2bar 、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Hex Size<br>六角尺寸                  | MAX.<br>Torque<br>最大扭力 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Sound<br>Lever<br>噪音值 |
|-------------|-----------------------------------|------------------------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-----------------------|
|             | mm                                | Nm                     | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb   | dB(A)                 |
| OP-EW17     | 7,8,9,10,11,12,<br>13,14,15,16,17 | 6~15                   | 230                    | 198                       | 7   | 413                     | 16.25 | 1/4                  | 1.67                | 3.68 | 87                    |
| OP-EW24     | 17,19, 21, 22, 24                 | 8~19                   | 150                    | 198                       | 7   | 438                     | 17.24 | 1/4                  | 1.84                | 4.05 | 87                    |

Air Drill Gear Type

氣動鑽:齒輪式



**OP-510H** 3/8"  
Rear exhaust  
後排氣



**OP-102** 3/8"  
Side exhaust  
側排氣



**OP-D5128** 1/4"  
Handle exhaust  
下排氣



**OP-101** 3/8"  
Handle exhaust  
下排氣



**OP-401LN** 3/8"  
Handle exhaust  
下排氣



**OP-601C** 3/8"  
Handle exhaust  
下排氣

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Chuck<br>Size<br>夾頭尺寸 |      | Stall<br>Torque<br>停止扭矩 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Reversible<br>正 反 轉 | Sound<br>Level<br>噪音值 |
|--------------|-----------------------|------|-------------------------|-------|------------------------|-----------------------------|-----|--------------------------|------|----------------------|----------------------|------|---------------------|-----------------------|
|              | mm                    | inch | Nm                      | ft-lb | rpm                    | l/min                       | cfm | mm                       | inch | P.T                  | kg                   | lb   |                     | dB(A)                 |
| OP-510H      | 10                    | 3/8  |                         |       | 1500                   | 240                         | 8.5 | 210                      | 8.27 | 1/4                  | 1.4                  | 3.09 | ○                   | 98                    |
| OP-102       | 10                    | 3/8  | 2.1                     | 1.5   | 2200                   | 141                         | 5   | 210                      | 8.27 | 1/4                  | 0.84                 | 1.85 | ○                   | 88                    |
| OP-D5128     | 6                     | 1/4  | 1.9                     | 1.4   | 2850                   | 198                         | 7   | 147                      | 5.79 | 1/4                  | 0.82                 | 1.81 | ○                   | 80                    |
| OP-101       | 10                    | 3/8  | 2.1                     | 1.5   | 2500                   | 226                         | 8   | 185                      | 7.28 | 1/4                  | 1.07                 | 2.36 | ○                   | 88                    |
| OP-401LN     | 10                    | 3/8  | 2.1                     | 1.5   | 2100                   | 198                         | 7   | 175                      | 6.89 | 1/4                  | 1.05                 | 2.31 | ○                   | 88                    |
| OP-601C      | 10                    | 3/8  | 2.1                     | 1.5   | 2600                   | 184                         | 6.5 | 170                      | 6.69 | 1/4                  | 1.02                 | 2.25 | ○                   | 82                    |

## Air Drill Gear Type

### 氣動鑽:齒輪式



**OP-101GA** 1/2"  
Handle exhaust  
下排氣



**OP-402LN** 1/2"  
Handle exhaust  
下排氣



**OP-601CG** 1/2"  
Handle exhaust  
下排氣



**OP-D84140** 3/8" Composite handle  
**OP-D8448** 3/8" Handle exhaust  
**OP-D8432** 3/8" 複合材料把手  
**OP-D8425** 3/8" 下排氣



**OP-D8410** 1/2" Composite handle  
**OP-D8406** 1/2" Handle exhaust  
複合材料把手  
下排氣



**OP-D6116** 3/8"  
Handle exhaust  
下排氣



**OP-D95185** 1/4"  
**OP-D9560** 1/4"  
**OP-D9540** 1/4"  
**OP-D9531** 3/8"  
**OP-D9525** 1/2"  
Handle exhaust  
下排氣



**OP-D9519** 3/8"  
**OP-D9512** 1/2"  
**OP-D9506** 1/2"  
Handle exhaust  
下排氣

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Chuck<br>Size<br>夾頭尺寸 |      | Stall<br>Torque<br>停止扭矩 |       | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |      | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Reversible<br>正反轉 | Sound<br>Level<br>噪音值 |
|-------------|-----------------------|------|-------------------------|-------|------------------------|---------------------------|-----|-------------------------|------|----------------------|---------------------|------|-------------------|-----------------------|
|             | mm                    | inch | Nm                      | ft-lb | rpm                    | l/min                     | cfm | mm                      | inch | P.T                  | kg                  | lb   |                   | dB(A)                 |
| OP-101GA    | 13                    | 1/2  | 7.7                     | 5.6   | 700                    | 226                       | 8   | 220                     | 8.66 | 1/4                  | 1.55                | 3.41 | ○                 | 88                    |
| OP-402LN    | 13                    | 1/2  | 7.7                     | 5.6   | 650                    | 226                       | 8   | 215                     | 8.46 | 1/4                  | 1.54                | 3.74 | ○                 | 88                    |
| OP-601CG    | 13                    | 1/2  | 7.7                     | 5.6   | 700                    | 212                       | 7.5 | 205                     | 8.07 | 1/4                  | 1.49                | 3.28 | ○                 | 82                    |
| OP-D84140   | 10                    | 3/8  | 1                       | 0.7   | 14000                  | 283                       | 10  | 185                     | 7.28 | 1/4                  | 1.06                | 2.34 | ○                 | 88                    |
| OP-D8448    | 10                    | 3/8  | 3.14                    | 2.3   | 4800                   | 283                       | 10  | 185                     | 7.28 | 1/4                  | 1.06                | 2.34 | ○                 | 88                    |
| OP-D8432    | 10                    | 3/8  | 4.7                     | 3.5   | 3200                   | 283                       | 10  | 185                     | 7.28 | 1/4                  | 1.06                | 2.34 | ○                 | 88                    |
| OP-D8425    | 10                    | 3/8  | 6                       | 4.4   | 2500                   | 283                       | 10  | 185                     | 7.28 | 1/4                  | 1.06                | 2.34 | ○                 | 88                    |
| OP-D8410    | 13                    | 1/2  | 14.9                    | 10.9  | 1000                   | 283                       | 10  | 230                     | 9.05 | 1/4                  | 1.62                | 3.57 | ○                 | 88                    |
| OP-D8406    | 13                    | 1/2  | 22.5                    | 16.6  | 660                    | 283                       | 10  | 230                     | 9.05 | 1/4                  | 1.62                | 3.57 | ○                 | 88                    |
| OP-D6116    | 10                    | 3/8  | 6                       | 4.4   | 1650                   | 240                       | 8.5 | 170                     | 6.69 | 1/4                  | 1.45                | 3.19 | ○                 | 82                    |
| OP-D95185   | 6                     | 1/4  | 1.4                     | 1     | 18000                  | 367                       | 13  | 176                     | 6.93 | 1/4                  | 1.15                | 2.53 | X                 | 87                    |
| OP-D9560    | 6                     | 1/4  | 4.4                     | 3.2   | 6000                   | 367                       | 13  | 176                     | 6.93 | 1/4                  | 1.15                | 2.53 | X                 | 87                    |
| OP-D9540    | 6                     | 1/4  | 6.6                     | 4.8   | 4000                   | 367                       | 13  | 176                     | 6.93 | 1/4                  | 1.15                | 2.53 | X                 | 87                    |
| OP-D9531    | 10                    | 3/8  | 8.4                     | 6.2   | 3150                   | 367                       | 13  | 185                     | 7.28 | 1/4                  | 1.23                | 2.70 | X                 | 87                    |
| OP-D9525    | 13                    | 1/2  | 10.4                    | 7.6   | 2500                   | 367                       | 13  | 198                     | 7.8  | 1/4                  | 1.37                | 3.02 | X                 | 87                    |
| OP-D9519    | 10                    | 3/8  | 13.8                    | 10.2  | 1900                   | 367                       | 13  | 212                     | 8.35 | 1/4                  | 1.65                | 3.63 | X                 | 87                    |
| OP-D9512    | 13                    | 1/2  | 20.9                    | 15.4  | 1250                   | 367                       | 13  | 225                     | 8.86 | 1/4                  | 1.85                | 4.07 | X                 | 87                    |
| OP-D9506    | 13                    | 1/2  | 39.9                    | 29.4  | 650                    | 367                       | 13  | 225                     | 8.86 | 1/4                  | 1.85                | 4.07 | X                 | 87                    |

Air Drill Gear Type

氣動鑽:齒輪式

Outside trigger  
外板機

Inside trigger  
內板機



**OP-D16-G1** 5/8"  
**OP-D19-G1** 3/4"

Side exhaust  
側排氣

- Outside trigger : OP-D16-G1  
OP-D19-G1
- Inside trigger : OP-D16-G1Z  
OP-D19-G1Z

- 外板機 : OP-D16-G1  
OP-D19-G1
- 內板機 : OP-D16-G1Z  
OP-D19-G1Z



**OP-D165111** 5/8"  
Composite handle  
Handle exhaust  
複合材料把手  
下排氣

Outside trigger  
外板機

Inside trigger  
內板機



**OP-DMT21110**  
Side exhaust  
側排氣

- Outside trigger : OP-DMT2110
- Inside trigger : OP-DMT2110Z
- 外板機 : OP-DMT2110
- 內板機 : OP-DMT2110Z



**OP-DMT25111**  
Composite handle  
Handle exhaust  
複合材料把手  
下排氣

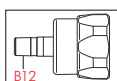
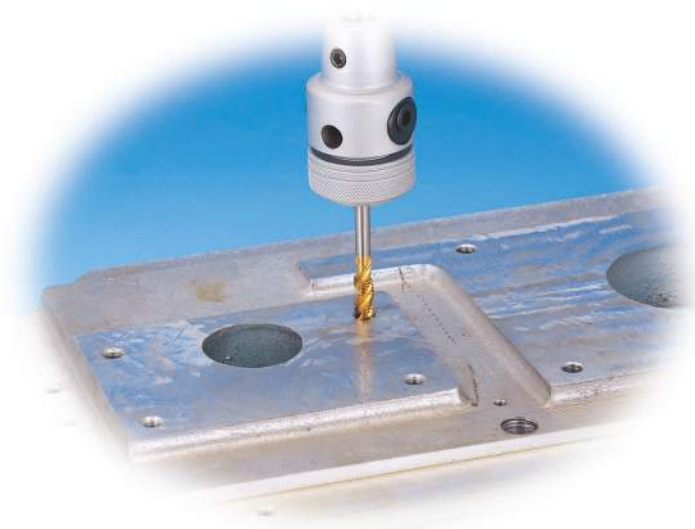
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號  | Chuck<br>Size<br>夾頭尺寸 |      | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |       | Reversible<br>正反轉 | Sound<br>Level<br>噪音值 |
|--------------|-----------------------|------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|-------|-------------------|-----------------------|
|              | mm                    | inch |                        | l/min                     | cfm | mm                      | inch  |                      | kg                  | lb    |                   |                       |
| OP-D16-G1    | 16                    | 5/8  | 1000                   | 424                       | 15  | 420                     | 16.54 | 3/8                  | 6.34                | 13.98 | ○                 | 102                   |
| OP-D16-G1Z   | 16                    | 5/8  | 1000                   | 424                       | 15  | 420                     | 16.54 | 3/8                  | 6.34                | 13.98 | ○                 | 102                   |
| OP-D19-G1    | 19                    | 3/4  | 1000                   | 424                       | 15  | 437                     | 17.2  | 3/8                  | 7.04                | 15.52 | ○                 | 102                   |
| OP-D19-G1Z   | 19                    | 3/4  | 1000                   | 424                       | 15  | 437                     | 17.2  | 3/8                  | 7.04                | 15.52 | ○                 | 102                   |
| OP-DMT21110  | MT2                   |      | 1000                   | 424                       | 15  | 445                     | 17.5  | 3/8                  | 6.12                | 13.5  | ○                 | 102                   |
| OP-DMT21110Z | MT2                   |      | 1000                   | 424                       | 15  | 445                     | 17.5  | 3/8                  | 6.12                | 13.5  | ○                 | 102                   |
| OP-D165111   | 16                    | 5/8  | 1100                   | 452                       | 16  | 305                     | 12    | 3/8                  | 5.86                | 12.92 | ○                 | 87                    |
| OP-DMT25111  | MT2                   |      | 1100                   | 452                       | 16  | 330                     | 13    | 3/8                  | 5.6                 | 12.34 | ○                 | 87                    |

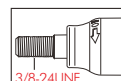


Air Tapping

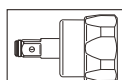
氣動攻牙機



**OP-11AKH**  
Handle exhaust  
下排氣



**OP-304B2**  
Push to start type  
Rear exhaust  
觸壓啟動型  
後排氣



**OP-601AKI 3/8"**  
Handle exhaust  
下排氣

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Tapping Capacity<br>攻牙能力 |          | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Sound<br>Level<br>噪音值 |
|--------------|--------------------------|----------|------------------------|-----------------------------|-----|--------------------------|-------|----------------------|----------------------|------|-----------------------|
|              | Aluminum(mm)             | Iron(mm) | rpm                    | l/min                       | cfm | mm                       | inch  | P.T                  | kg                   | lb   | dB(A)                 |
| OP-11AKH     | 3~12                     | 3~8      | 150                    | 184                         | 6.5 | 200                      | 7.87  | 1/4                  | 1.72                 | 3.79 | 82                    |
| OP-304B2     | 1~3                      | 1~3      | 1000                   | 141                         | 5   | 280                      | 11.02 | 1/4                  | 0.74                 | 1.63 | 77                    |
| OP-601AKI    | 6~12                     | 6~8      | 150                    | 198                         | 7   | 245                      | 9.65  | 1/4                  | 1.77                 | 3.9  | 82                    |



Air Tapping

氣動攻牙機

標準配備

Auto Screwdriving Machine

- Air Tapping anvil
- Extension Arm
- Fixed Seat
- Air filter Regulator
- Torque Chuck
- Please choose one size .  
    Sizes:(M3, M4, M5, M6, M8, M10, M12)
- 氣動攻牙主軸
- 伸長臂
- 固定座
- 三點組合
- 扭力筒夾
- 請任選一種  
    (M3, M4, M5, M6, M8, M10, M12)



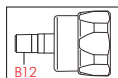
扭力筒夾規格表  
Chuck standards and size list

| FOR TAP | JIS<br>日本標準規格 |     |                   | ISO<br>國際標準規格 |                   |          | DIN 371<br>德國標準規格 |     |                   | DIN 376<br>德國標準規格 |                   |                   |
|---------|---------------|-----|-------------------|---------------|-------------------|----------|-------------------|-----|-------------------|-------------------|-------------------|-------------------|
|         | Thread        | ∅ d | Order Code<br>訂貨號 | ∅ d           | Order Code<br>訂貨號 | ∅ d      | Order Code<br>訂貨號 | ∅ d | Order Code<br>訂貨號 | ∅ d               | Order Code<br>訂貨號 | Order Code<br>訂貨號 |
| M2      | 3             | 2.5 | TCJISM2           |               |                   |          |                   |     |                   |                   |                   |                   |
| M3      | 4             | 3.2 | TCJISM3           | 315           | 2.5               | TCISOM3  | 3.5               | 2.7 | TCDIN371M3        | 2.2               | -                 | TCDIN376M3        |
| M4      | 5             | 4   | TCJISM4           | 4             | 315               | TCISOM4  | 4.5               | 3.4 | TCDIN371M4        | 2.8               | 2.1               | TCDIN376M4        |
| M5      | 5.5           | 4.5 | TCJISM5           | 5             | 4                 | TCISOM5  | 6                 | 4.9 | TCDIN371M5        | 3.5               | 2.7               | TCDIN376M5        |
| M6      | 6             | 4.5 | TCJISM6           | 6.3           | 5                 | TCISOM6  | 6                 | 4.9 | TCDIN371M6        | 4.5               | 3.4               | TCDIN376M6        |
| M8      | 6.2           | 5   | TCJISM8           | 8             | 6.3               | TCISOM8  | 8                 | 6.2 | TCDIN371M8        | 6                 | 4.9               | TCDIN376M8        |
| M10     | 7             | 5.5 | TCJISM10          | 10            | 8                 | TCISOM10 | 10                | 8   | TCDIN371M10       | 7                 | 5.5               | TCDIN376M10       |
| M12     | 8.5           | 6.5 | TCJISM12          | 9             | 7.1               | TCISOM12 |                   |     |                   | 9                 | 7                 | TCDIN376M12       |

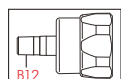
| FOR TAP | ANSI<br>美國標準規格 |       |                   |
|---------|----------------|-------|-------------------|
|         | Thread         | ∅ d   | Order Code<br>訂貨號 |
| 1/2"    | 9.322          | 6.985 | TCANSI W 1/2      |

Air Tapping Order Code Reference

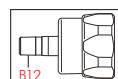
| Drilling Chuck Code Reference |                     |           |            | <p>備註：</p> <p>筒夾標準出貨規格為JIS，如需其他規格筒夾，請參考扭力筒夾規格表，並於訂單上註明筒夾規格。</p> <p><b>NOTICE:</b></p> <p>When different sizes or standard chucks are needed, please refer to the chuck standards and size list and note on the purchase order, otherwise, the chuck will be JIS.</p> |
|-------------------------------|---------------------|-----------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model<br>型 號                  | OP-11AK             | OP-08AK   | OP-12AK    |                                                                                                                                                                                                                                                                      |
| Size<br>規格                    | Order Code<br>訂 貨 號 |           |            |                                                                                                                                                                                                                                                                      |
| M2                            |                     | OP-08AK-2 |            |                                                                                                                                                                                                                                                                      |
| M3                            | OP-11AK-3           | OP-08AK-3 | OP-12AK-3  |                                                                                                                                                                                                                                                                      |
| M4                            | OP-11AK-4           | OP-08AK-4 | OP-12AK-4  |                                                                                                                                                                                                                                                                      |
| M5                            | OP-11AK-5           | OP-08AK-5 | OP-12AK-5  |                                                                                                                                                                                                                                                                      |
| M6                            | OP-11AK-6           | OP-08AK-6 | OP-12AK-6  |                                                                                                                                                                                                                                                                      |
| M8                            | OP-11AK-8           | OP-08AK-8 | OP-12AK-8  |                                                                                                                                                                                                                                                                      |
| M10                           | OP-11AK-10          |           | OP-12AK-10 |                                                                                                                                                                                                                                                                      |
| M12                           | OP-11AK-12          |           | OP-12AK-12 |                                                                                                                                                                                                                                                                      |



OP-11AK  
Handle exhaust  
下排氣



OP-08AK  
Rear exhaust  
後排氣

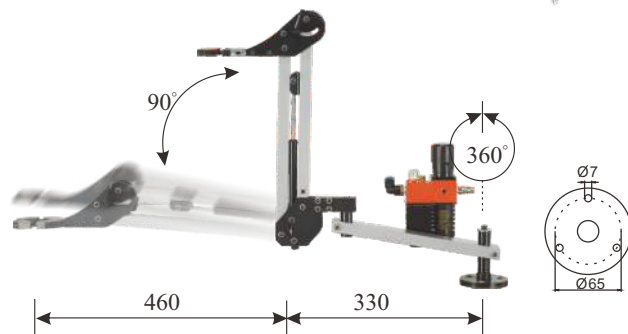


OP-12AK  
Rear exhaust  
後排氣

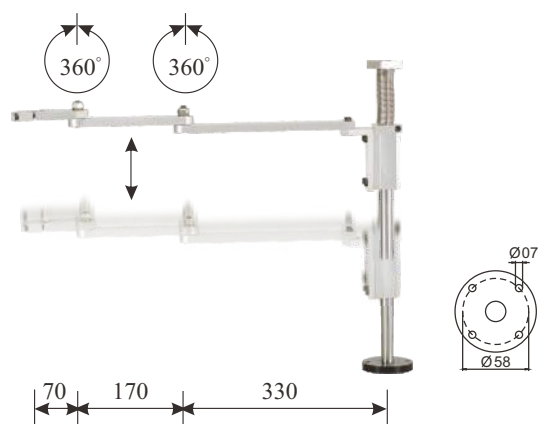
SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Tapping Capacity<br>攻牙能力 |           | Free Speed<br>無負荷轉速 | Air Consumption<br>耗氣量 |     | Overall Length<br>全長 |       | Air Inlet<br>入氣接頭 | Net Weight<br>重量 |      | Sound Level<br>噪音值 |
|-------------|--------------------------|-----------|---------------------|------------------------|-----|----------------------|-------|-------------------|------------------|------|--------------------|
|             | Aluminum鋁(mm)            | Iron鐵(mm) | rpm                 | l/min                  | cfm | mm                   | inch  | P.T               | kg               | lb   | dB(A)              |
| OP-11AK     | 3~12                     | 3~8       | 150                 | 184                    | 6.5 | 255                  | 10.04 | 1/4               | 1.73             | 3.81 | 82                 |
| OP-08AK     | 2~8                      | 2~4       | 350                 | 226                    | 8   | 290                  | 11.42 | 1/4               | 1.68             | 3.7  | 87                 |
| OP-12AK     | 3~12                     | 3~10      | 100                 | 226                    | 8   | 310                  | 12.2  | 1/4               | 1.86             | 4.1  | 87                 |

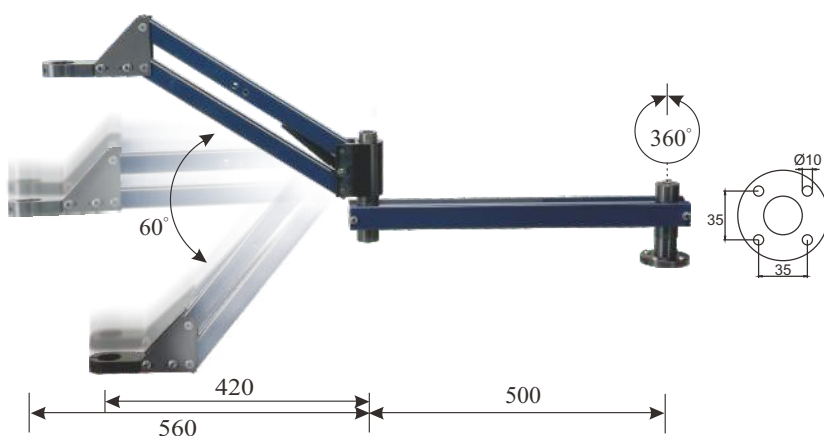
- Model / 型號 : **RB04**
- Net Weight / 重量 : 3.9kg
- Tool Diameter / 夾持直徑 : 34~40mm
- Clamping Jaw / 夾爪 : 



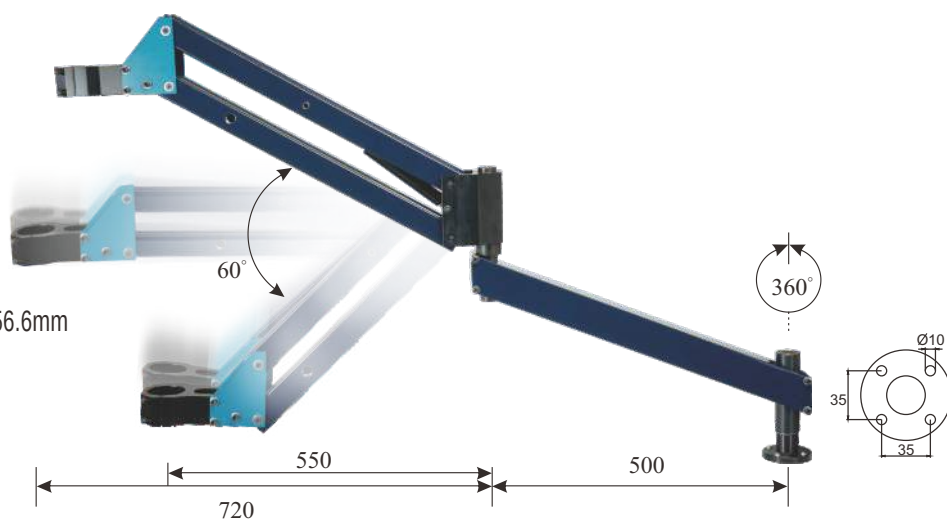
- Model / 型號 : **RB05**
- Net Weight / 重量 : 3.34kg
- Tool Diameter / 夾持直徑 : 32~40mm
- Clamping Jaw / 夾爪 : 



- Model / 型號 : **RB16-38MM**
- Net Weight / 重量 : 5.89kg
- Clamping Jaw / 夾爪 : 
- Tool Diameter / 夾持直徑 : 38mm



- Model / 型號 : **RB16-44MM**
- Net Weight / 重量 : 5.89kg
- Clamping Jaw / 夾爪 : 
- Tool Diameter / 夾持直徑 : 44mm



- Model / 型號 : **RB24**
- Net Weight / 重量 : 10.75kg
- Tool Diameter / 夾持直徑 : 56.6mm
- Clamping Jaw / 夾爪 : 

Air Angle Grinder

氣動角磨機



**OP-1851 4"**  
Side exhaust  
側排氣



**OP-2850 4"**  
**OP-2850A 5"**  
Front exhaust  
前排氣



**OP-3856 7"**  
Side exhaust  
側排氣



**OP-1851A 4"**  
Side exhaust  
側排氣



**OP-1850 4"**  
**OP-1850A 5"**  
Front exhaust  
前排氣



**OP-3855 7"**  
Side exhaust  
側排氣

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Pad Size<br>尺寸 |      | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Hose Size<br>風管尺寸 |      | Motor Power<br>馬達功率 |      |
|-------------|----------------|------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|-------------------|------|---------------------|------|
|             | mm             | inch |                        | l/min                     | cfm | mm                      | inch  |                      | kg                  | lb   | mm                | inch | W                   | HP   |
| OP-1851     | 101            | 4    | 10500                  | 283                       | 10  | 165                     | 6.49  | 1/4                  | 1                   | 2.2  | 9.5               | 3/8  | 246                 | 0.33 |
| OP-2850     | 101            | 4    | 11000                  | 452                       | 16  | 235                     | 9.25  | 1/4                  | 2                   | 4.41 | 9.5               | 3/8  | 470                 | 0.63 |
| OP-2850A    | 127            | 5    | 9500                   | 452                       | 16  | 235                     | 9.25  | 1/4                  | 2                   | 4.41 | 9.5               | 3/8  | 470                 | 0.63 |
| OP-3856     | 177            | 7    | 7000                   | 791                       | 28  | 290                     | 11.41 | 3/8                  | 3.31                | 7.29 | 9.5               | 3/8  | 895                 | 1.2  |
| OP-1851A    | 101            | 4    | 10500                  | 283                       | 10  | 145                     | 5.7   | 1/4                  | 1                   | 2.2  | 9.5               | 3/8  | 246                 | 0.33 |
| OP-1850     | 101            | 4    | 11000                  | 452                       | 16  | 245                     | 9.65  | 1/4                  | 2                   | 4.41 | 9.5               | 3/8  | 470                 | 0.63 |
| OP-1850A    | 127            | 5    | 9500                   | 452                       | 16  | 245                     | 9.65  | 1/4                  | 2                   | 4.41 | 9.5               | 3/8  | 470                 | 0.63 |
| OP-3855     | 177            | 7    | 7000                   | 791                       | 28  | 345                     | 13.58 | 3/8                  | 3.31                | 7.29 | 9.5               | 3/8  | 895                 | 1.2  |

## Air Angle Grinder

## 氣動角磨機



**OP-845P 4"**  
Rear exhaust  
後排氣



**OP-859P 5"**  
Rear exhaust  
後排氣



**OP-8591P 5"**  
Rear exhaust  
後排氣



**OP-CVG660B 6"**  
Vertical grinder  
垂角型角磨機



**OP-CVG945B 9"**  
Vertical grinder  
垂直型角磨機

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Pad Size<br>尺寸 |      | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |      | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |       | Hose Size<br>風管尺寸 |      | Motor Power<br>馬達功率 |     |
|-------------|----------------|------|------------------------|---------------------------|------|-------------------------|-------|----------------------|---------------------|-------|-------------------|------|---------------------|-----|
|             | mm             | inch |                        | l/min                     | cfm  | mm                      | inch  |                      | kg                  | lb    | mm                | inch | W                   | HP  |
| OP-845P     | 101            | 4    | 12000                  | 396                       | 14   | 303                     | 11.92 | 1/4                  | 1.5                 | 3.3   | 9.5               | 3/8  | 746                 | 1   |
| OP-859P     | 127            | 5    | 11000                  | 424                       | 15   | 230                     | 9.05  | 3/8                  | 1.58                | 3.48  | 12.7              | 1/2  | 746                 | 1   |
| OP-8591P    | 127            | 5    | 11000                  | 424                       | 15   | 230                     | 9.05  | 3/8                  | 1.69                | 3.72  | 12.7              | 1/2  | 746                 | 1   |
| OP-CVG660B  | 150            | 6    | 5500                   | 580                       | 20.5 | 279                     | 10.98 | 1/2                  | 6.29                | 13.86 | 12.7              | 1/2  | 2835                | 3.8 |
| OP-CVG945B  | 230            | 9    | 4500                   | 580                       | 20.5 | 279                     | 10.98 | 1/2                  | 6.05                | 13.33 | 12.7              | 1/2  | 2835                | 3.8 |

Air Die Grinder

氣動刻磨機

OP-G2120  
Front exhaust  
前排氣



OP-G2520  
Front exhaust  
Rotary type  
前排氣  
旋轉式



OP-G2220  
Side exhaust  
側排氣



OP-G2620  
Side exhaust  
Rotary type  
側排氣  
旋轉式



OP-G2320  
Side exhaust  
側排氣



OP-G2720  
Side exhaust  
Rotary type  
側排氣  
旋轉式



SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Chuck Size<br>夾頭尺寸 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |      | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      | Hose Size<br>風管尺寸 |      | Motor Power<br>馬達功率 |    |
|--------------|--------------------|------------------------|-----------------------------|------|--------------------------|-------|----------------------|----------------------|------|-------------------|------|---------------------|----|
|              | mm                 | rpm                    | l/min                       | cfm  | mm                       | inch  | P.T                  | kg                   | lb   | mm                | inch | W                   | HP |
| OP-G2120     | 6                  | 20000                  | 410                         | 14.5 | 170                      | 6.69  | 1/4                  | 1.16                 | 2.55 | 9.5               | 3/8  | 746                 | 1  |
| OP-G2520     | 6                  | 20000                  | 410                         | 14.5 | 175                      | 6.88  | 1/4                  | 1.06                 | 2.33 | 9.5               | 3/8  | 746                 | 1  |
| OP-G2220     | 6                  | 20000                  | 410                         | 14.5 | 320                      | 12.59 | 1/4                  | 1.63                 | 3.59 | 9.5               | 3/8  | 746                 | 1  |
| OP-G2620     | 6                  | 20000                  | 410                         | 14.5 | 325                      | 12.79 | 1/4                  | 1.52                 | 3.35 | 9.5               | 3/8  | 746                 | 1  |
| OP-G2320     | 6                  | 20000                  | 410                         | 14.5 | 595                      | 23.42 | 1/4                  | 2.87                 | 6.32 | 9.5               | 3/8  | 746                 | 1  |
| OP-G2720     | 6                  | 20000                  | 410                         | 14.5 | 600                      | 23.62 | 1/4                  | 2.75                 | 6.06 | 9.5               | 3/8  | 746                 | 1  |



Air Die Grinder

氣動刻磨機



**OP-GLH230**

Grinding stone: 30mm  
Rear exhaust  
磨石：30mm  
後排氣



**OP-GLH750**

Rear exhaust  
後排氣



**OP-190**

Exquisite grinder  
Rear exhaust  
細磨  
後排氣



**OP-191K**

Coarse grinder  
Rear exhaust  
粗磨  
後排氣



**OP-192K**

For poly  
Rear exhaust  
波麗專用  
後排氣



**OP-1180LT**

Rear exhaust  
後排氣



**OP-1281T**

Rear exhaust  
後排氣



**OP-1181T**

Rear exhaust  
後排氣



**OP-1082T**

Rear exhaust  
後排氣



**OP-1180T**

Rear exhaust  
後排氣



**OP-11805T**

Rear exhaust  
後排氣



**OP-1201A**

Front exhaust  
前排氣

**SPECIFICATION**(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Chuck Size<br>夾頭尺寸 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |      | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Hose Size<br>風管尺寸 |      | Motor Power<br>馬達功率 |     |
|-------------|--------------------|------------------------|---------------------------|------|-------------------------|-------|----------------------|---------------------|------|-------------------|------|---------------------|-----|
|             | mm                 | rpm                    | l/min                     | cfm  | mm                      | inch  | P.T                  | kg                  | lb   | mm                | inch | W                   | HP  |
| OP-GLH230   | M7x0.75            | 23000                  | 71                        | 2.5  | 135                     | 5.31  | 1/4                  | 0.3                 | 0.66 | 6.35              | 1/4  |                     |     |
| OP-GLH750   | 3                  | 75000                  | 112                       | 4.0  | 165                     | 6.5   | 1/4                  | 0.22                | 0.48 | 6.35              | 1/4  |                     |     |
| OP-190      | 3                  | 65000                  | 85                        | 3    | 130                     | 5.12  | 1/4                  | 0.25                | 0.55 | 6.35              | 1/4  |                     |     |
| OP-191K     | 3                  | 35000                  | 127                       | 4.5  | 130                     | 5.12  | 1/4                  | 0.28                | 0.62 | 6.35              | 1/4  |                     |     |
| OP-192K     | 3                  | 55000                  | 85                        | 3    | 130                     | 5.12  | 1/4                  | 0.32                | 0.7  | 6.35              | 1/4  |                     |     |
| OP-1180LT   | 6                  | 21000                  | 297                       | 10.5 | 290                     | 11.41 | 1/4                  | 0.71                | 1.56 | 9.5               | 3/8  | 230                 | 0.3 |
| OP-1281T    | 6                  | 21000                  | 283                       | 10   | 160                     | 6.29  | 1/4                  | 0.53                | 1.17 | 9.5               | 3/8  | 230                 | 0.3 |
| OP-1181T    | 6                  | 26000                  | 297                       | 10.5 | 285                     | 11.22 | 1/4                  | 0.65                | 1.43 | 9.5               | 3/8  | 230                 | 0.3 |
| OP-1082T    | 6                  | 26000                  | 311                       | 11   | 150                     | 5.9   | 1/4                  | 0.36                | 0.79 | 9.5               | 3/8  | 230                 | 0.3 |
| OP-1180T    | 6                  | 26000                  | 325                       | 11.5 | 230                     | 9.05  | 1/4                  | 0.54                | 1.19 | 9.5               | 3/8  | 230                 | 0.3 |
| OP-11805T   | 6                  | 26000                  | 283                       | 10   | 190                     | 7.48  | 1/4                  | 0.46                | 1.01 | 9.5               | 3/8  | 230                 | 0.3 |
| OP-1201A    | 6                  | 22000                  | 381                       | 13.5 | 170                     | 6.69  | 1/4                  | 0.62                | 1.37 | 9.5               | 3/8  | 383                 | 0.5 |

AIR SANDER

Air Sander

氣動磨砂機



2.5mm Orbit Diameter  
精拋型



OP-SD417G



OP-SD417GL



OP-SD417H



OP-SD317



OP-SD901N2 2"  
OP-SD901N3 3"



OP-SD908 3"



SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Pad Size<br>尺 寸 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗 氣 量 |     | Net<br>Weight<br>重 量 |      | Hose Size<br>風管尺寸 |      | Orbit Diameter<br>偏擺直徑 |
|--------------|-----------------|------------------------|-----------------------------|-----|----------------------|------|-------------------|------|------------------------|
|              | mm              | rpm                    | l/min                       | cfm | kg                   | lb   | mm                | inch | mm                     |
| OP-SD417G    | 100x110         | 10,000                 | 254                         | 9.0 | 0.89                 | 1.96 | 6.35              | 1/4  | 2.5                    |
| OP-SD417GL   | 100x180         | 10,000                 | 254                         | 9.0 | 0.97                 | 2.13 | 6.35              | 1/4  | 2.5                    |
| OP-SD417H    | 100x75          | 10,000                 | 254                         | 9.0 | 0.84                 | 1.85 | 6.35              | 1/4  | 2.5                    |
| OP-SD317     | 100x75          | 10,000                 | 268                         | 9.5 | 0.83                 | 1.83 | 6.35              | 1/4  | 2.5                    |
| OP-SD901N2   | 2(inch)         | 16,000                 | 283                         | 10  | 0.75                 | 1.65 | 6.35              | 1/4  | 2.5                    |
| OP-SD901N3   | 3(inch)         | 16,000                 | 283                         | 10  | 0.75                 | 1.65 | 6.35              | 1/4  | 2.5                    |
| OP-SD908     | 3(inch)         | 4,500                  | 226                         | 8   | 0.86                 | 1.89 | 6.35              | 1/4  | x                      |

## Air Sander

### 氣動磨砂機



**OP-SD715 5"**  
**OP-SD71525 5"**



**OP-SD715C 5"**  
**OP-SD71525C 5"**  
Central Vacuum  
中央集塵



**OP-SD715S 5"**  
**OP-SD71525S 5"**  
Self-Generated Vacuum  
自吸式



**OP-SD716 6"**  
**OP-SD71625 6"**



**OP-SD716C 6"**  
**OP-SD71625C 6"**  
Central Vacuum  
中央集塵



**OP-SD716S 6"**  
**OP-SD71625S 6"**  
Self-Generated Vacuum  
自吸式



**OP-SD713 3"**



**OP-SD915 5"**  
**OP-SD91525 5"**



10mm Orbit Diameter  
粗磨型



5mm Orbit Diameter  
中細磨型



2.5mm Orbit Diameter  
精拋型

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Pad Size<br>尺寸 | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Net<br>Weight<br>重量 |      | Hose Size<br>風管尺寸 |      | Orbit Diameter<br>偏擺直徑 |
|-------------|----------------|------------------------|---------------------------|-----|---------------------|------|-------------------|------|------------------------|
|             | inch           | rpm                    | l/min                     | cfm | kg                  | lb   | mm                | inch | mm                     |
| OP-SD715    | 5              | 10000                  | 254                       | 9.0 | 0.89                | 1.96 | 6.35              | 1/4  | 5                      |
| OP-SD71525  | 5              | 10000                  | 254                       | 9.0 | 0.89                | 1.96 | 6.35              | 1/4  | 2.5                    |
| OP-SD715C   | 5              | 10000                  | 254                       | 9.0 | 0.95                | 2.09 | 6.35              | 1/4  | 5                      |
| OP-SD71525C | 5              | 10000                  | 254                       | 9.0 | 0.95                | 2.09 | 6.35              | 1/4  | 2.5                    |
| OP-SD715S   | 5              | 10000                  | 254                       | 9.0 | 0.91                | 2    | 6.35              | 1/4  | 5                      |
| OP-SD71525S | 5              | 10000                  | 254                       | 9.0 | 0.91                | 2    | 6.35              | 1/4  | 2.5                    |
| OP-SD716    | 6              | 10000                  | 254                       | 9.0 | 0.91                | 2    | 6.35              | 1/4  | 5                      |
| OP-SD71625  | 6              | 10000                  | 254                       | 9.0 | 0.91                | 2    | 6.35              | 1/4  | 2.5                    |
| OP-SD716C   | 6              | 10000                  | 254                       | 9.0 | 0.98                | 2.16 | 6.35              | 1/4  | 5                      |
| OP-SD71625C | 6              | 10000                  | 254                       | 9.0 | 0.98                | 2.16 | 6.35              | 1/4  | 2.5                    |
| OP-SD716S   | 6              | 10000                  | 254                       | 9.0 | 0.93                | 2.05 | 6.35              | 1/4  | 5                      |
| OP-SD71625S | 6              | 10000                  | 254                       | 9.0 | 0.93                | 2.05 | 6.35              | 1/4  | 2.5                    |
| OP-SD713    | 3              | 10000                  | 268                       | 9.5 | 0.79                | 1.74 | 6.35              | 1/4  | 2.5                    |
| OP-SD915    | 5              | 10000                  | 240                       | 8.5 | 1                   | 2.2  | 6.35              | 1/4  | 5                      |
| OP-SD91525  | 5              | 10000                  | 240                       | 8.5 | 1                   | 2.2  | 6.35              | 1/4  | 2.5                    |

Air Belt Sander

氣動砂布環帶機



OP-9610



OP-9612



OP-9620



OP-9630



OP-3936



OP-BS711A

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Speed<br>轉 速 | Air<br>Consumption<br>耗 氣 量 |      | Belt Size<br>砂帶尺寸 | Roller Size<br>發泡輪尺寸 | Length<br>長 度 |       | Air Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      |
|--------------|--------------|-----------------------------|------|-------------------|----------------------|---------------|-------|-------------------|----------------------|------|
|              | rpm          | l/min                       | cfm  | mm                | mm                   | mm            | inch  | P.T               | kg                   | lb   |
| OP-9610      | 16000        | 328                         | 11.6 | 10x330            | -                    | 290           | 11.4  | 1/4               | 0.9                  | 1.98 |
| OP-9612      | 16000        | 381                         | 13.5 | 12.7x610          | -                    | 430           | 16.9  | 1/4               | 0.96                 | 2.12 |
| OP-9620      | 16000        | 381                         | 13.5 | 20x520            | -                    | 360           | 14.17 | 1/4               | 1.2                  | 2.65 |
| OP-9630      | 15000        | 432                         | 15.3 | 30x540            | -                    | 410           | 16.15 | 1/4               | 1.4                  | 3.08 |
| OP-3936      | 7000         | 268                         | 9.5  | 60x260            | 60xΦ50               | 210           | 8.27  | 1/4               | 1.25                 | 2.76 |
| OP-BS711A    | 8500         | 340                         | 12   | 50x235            | -                    | 220           | 8.66  | 1/4               | 0.74                 | 1.63 |





Air Rivet Nut Tool

氣動拉帽槍

Once rivet nut screw is damaged, it should be replaced immediately; otherwise, the tool will not be functional.  
拉帽螺絲如有毀損應立即更換，否則將無法進行拉帽。



**OP-PSLH16**  
Rear exhaust  
後排氣



**OP-601LC**  
Handle exhaust  
下排氣



**OP-PS6-G1**  
Handle exhaust  
下排氣



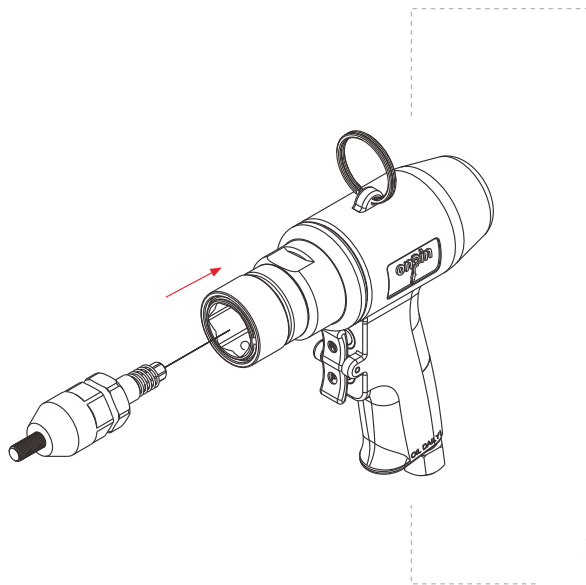
**OP-PS10-G51**  
Side exhaust  
側排氣

Nut Tools with Order Code Number Reference

| Model<br>型 號 | OP-PSLH16           | OP-601LC   | OP-PS6-G1       | OP-PS6107       | OP-PS5232       | OP-PS5210       | OP-PS5204       | OP-PS10-G51       |
|--------------|---------------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| Size<br>規 格  | Order Code<br>訂 貨 號 |            |                 |                 |                 |                 |                 |                   |
| M3           | OP-PSLH16-3         | OP-601LC-3 | OP-PS6-G1-3     | OP-PS6107-3     | OP-PS5232-3     |                 |                 |                   |
| M4           | OP-PSLH16-4         | OP-601LC-4 | OP-PS6-G1-4     | OP-PS6107-4     | OP-PS5232-4     |                 |                 |                   |
| M5           | OP-PSLH16-5         | OP-601LC-5 | OP-PS6-G1-5     | OP-PS6107-5     | OP-PS5232-5     | OP-PS5210-5     |                 |                   |
| M6           | OP-PSLH16-6         | OP-601LC-6 | OP-PS6-G1-6     | OP-PS6107-6     |                 | OP-PS5210-6     |                 | OP-PS10-G51-6     |
| M8           |                     | OP-601LC-8 |                 |                 |                 | OP-PS5210-8     | OP-PS5204-8     | OP-PS10-G51-8     |
| M10          |                     |            |                 |                 |                 |                 | OP-PS5204-10    | OP-PS10-G51-10    |
| 3/16"        |                     |            | OP-PS6-G1-3/16" | OP-PS6107-3/16" | OP-PS5232-3/16" |                 |                 |                   |
| 1/4"         |                     |            | OP-PS6-G1-1/4"  | OP-PS6107-1/4"  |                 | OP-PS5210-1/4"  |                 | OP-PS10-G51-1/4"  |
| 5/16"        |                     |            |                 |                 |                 | OP-PS5210-5/16" | OP-PS5204-5/16" | OP-PS10-G51-5/16" |
| 3/8"         |                     |            |                 |                 |                 |                 |                 | OP-PS10-G51-3/8"  |

## Air Rivet Nut Tool

### 氣動拉帽槍



#### OP-PS6107

Handle exhaust  
The type of quick-changing  
下排氣  
快速變換型式



#### OP-PS5232

#### OP-PS5210

#### OP-PS5204

Handle exhaust  
The type of quick-changing  
下排氣  
快速更換形式



#### OP-PS12-O1

Push to start  
Air hydraulic rivet nut tool  
Pull force 2180kg/4800lbs  
Stroke 7mm  
觸壓啟動型  
氣動油壓式拉帽槍  
拉力 2180kg/4800lbs  
行程 7mm



#### OP-PS12-O2

Push to start  
Air hydraulic rivet nut tool  
Pull force 2075kg/4565lbs  
Stroke 6mm  
觸壓啟動型  
氣動油壓式拉帽槍  
拉力 2075kg/4565lbs  
行程 6mm

### SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Structure<br>構造 |  |  | Free<br>Speed<br>無負荷轉速 | Air<br>Consumption<br>耗氣量 |     | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      |
|-------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------|---------------------------|-----|-------------------------|-------|----------------------|---------------------|------|
|             |                 | mm                                                                                  | mm                                                                                  | rpm                    | l/min                     | cfm | mm                      | inch  | P.T                  | kg                  | lb   |
| OP-PSLH16   | Gear            | 3, 4, 5, 6                                                                          | 3, 4, 5                                                                             | 1600                   | 254                       | 9   | 270                     | 10.6  | 1/4                  | 1.19                | 2.62 |
| OP-601LC    | Clutch type     | 3, 4, 5, 6, 8                                                                       | 3, 4, 5, 6                                                                          | 2700                   | 198                       | 7   | 230                     | 9.06  | 1/4                  | 1.3                 | 2.87 |
| OP-PS6-G1   | Gear            | 3-6, 3/16", 1/4"                                                                    | 3-5, 3/16"                                                                          | 700                    | 198                       | 7   | 200                     | 7.87  | 1/4                  | 1.2                 | 2.65 |
| OP-PS6107   | Gear            | 3-6, 3/16", 1/4"                                                                    | 3-5, 3/16"                                                                          | 700                    | 198                       | 7   | 200                     | 7.87  | 1/4                  | 1.26                | 2.77 |
| OP-PS5232   | Gear            | 3, 4, 5, 3/16"                                                                      | 3, 4                                                                                | 3200                   | 240                       | 8.5 | 205                     | 8.07  | 1/4                  | 1.48                | 3.26 |
| OP-PS5210   | Gear            | 5, 6, 8, 1/4", 5/16"                                                                | 5, 6, 1/4"                                                                          | 1000                   | 240                       | 8.5 | 205                     | 8.07  | 1/4                  | 1.5                 | 3.3  |
| OP-PS5204   | Gear            | 8, 10, 5/16"                                                                        | 8, 10, 5/16"                                                                        | 450                    | 240                       | 8.5 | 205                     | 8.07  | 1/4                  | 1.5                 | 3.3  |
| OP-PS10-G51 | Gear            | 6, 8, 10, 1/4", 5/16", 3/8"                                                         | 6, 8, 1/4", 5/16"                                                                   | 450                    | 226                       | 8   | 210                     | 8.27  | 1/4                  | 1.8                 | 3.97 |
| OP-PS12-O1  | Hydraulic type  | 3, 4, 5, 6, 8, 10, 12                                                               | 3, 4, 5, 6, 8, 10                                                                   | 1200                   |                           |     | 278                     | 10.94 | 1/4                  | 2.5                 | 5.51 |
| OP-PS12-O2  | Hydraulic type  | 3, 4, 5, 6, 8, 10, 12                                                               | 3, 4, 5, 6, 8, 10                                                                   | 2700                   |                           |     | 280                     | 11.02 | 1/4                  | 2.38                | 5.24 |

Air Riveter

氣動拉釘機



**OP-T107V**  
Vaccum type  
自吸式



**OP-T107**



**OP-YS514**  
**OP-YS614**  
Hydraulic type  
油壓式



**OP-YS01P**  
**OP-YS02P**  
**OP-YS03P**  
**OP-YS04P**  
Hydraulic type  
油壓式

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Blind Rivet Setting<br>Capacity<br>拉釘規格                              | Traction<br>Power<br>拉 力 | Stroke<br>Length<br>行 程 | Air<br>Consumption<br>耗 氣 量 |      | Overall<br>Length<br>全 長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重 量 |      |
|--------------|----------------------------------------------------------------------|--------------------------|-------------------------|-----------------------------|------|--------------------------|-------|----------------------|----------------------|------|
|              | For Aluminum & Steel<br>AS 釘 規 格                                     | LBS                      | mm                      | l/min                       | cfm  | mm                       | inch  | P.T                  | kg                   | lb   |
| OP-T107V     | 2.4, 3.2, 4, 4.8<br>3/32", 1/8", 5/32", 3/16"                        | 2000                     | 21                      | 99                          | 3.5  | 340                      | 13.38 | 1/4                  | 1.5                  | 3.31 |
| OP-T107      | 2.4, 3.2, 4, 4.8<br>3/32", 1/8", 5/32", 3/16"                        | 2000                     | 21                      | 99                          | 3.5  | 230                      | 9.05  | 1/4                  | 1.4                  | 3.09 |
| OP-YS514     | 2.4, 3.2, 4, 4.8<br>3/32", 1/8", 5/32", 3/16"                        | 2680                     | 14                      | 170                         | 6    | 230                      | 9.05  | 1/4                  | 1.7                  | 3.75 |
| OP-YS614     | 2.4, 3.2, 4, 4.8, 5.6, 6.4<br>3/32", 1/8", 5/32", 3/16", 7/32", 1/4" | 4166                     | 19                      | 99                          | 3.5  | 250                      | 9.84  | 1/4                  | 2.2                  | 4.85 |
| OP-YS01P     | 3.2, 4, 4.8<br>1/8", 5/32", 3/16"                                    | 1346                     | 14                      | 72                          | 2.54 | 290                      | 11.42 | 1/4                  | 1.7                  | 3.75 |
| OP-YS02P     | 3.2, 4, 4.8<br>1/8", 5/32", 3/16"                                    | 2097                     | 17                      | 126                         | 4.45 | 310                      | 12.2  | 1/4                  | 2.1                  | 4.62 |
| OP-YS03P     | 4, 4.8, 6.4<br>5/32", 3/16", 1/4"                                    | 2895                     | 26                      | 258                         | 9.11 | 328                      | 12.91 | 1/4                  | 2.3                  | 5.06 |
| OP-YS04P     | 4, 4.8, 6.4<br>5/32", 3/16", 1/4"                                    | 4194                     | 17                      | 258                         | 9.11 | 328                      | 12.91 | 1/4                  | 2.3                  | 5.06 |

Air Body Tool

氣動板金工具



**OP-S105**  
Air body saw  
B.P.M 9000  
氣動鋸  
衝擊數 9000



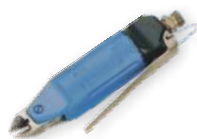
**OP-S1530**  
Air shear  
氣動剪



**OP-S7490**  
Air shear  
氣動剪

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Cutting Capacity<br>Thickness<br>剪切厚度能力 | Air<br>Consumption<br>耗氣量 |      | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      |
|-------------|-----------------------------------------|---------------------------|------|-------------------------|-------|----------------------|---------------------|------|
|             | Aluminum(mm)                            | l/mm                      | cfm  | mm                      | inch  | P.T                  | kg                  | lb   |
| OP-S105     | 3.0                                     | 127                       | 4.5  | 235                     | 9.25  | 1/4                  | 0.6                 | 1.32 |
| OP-S1530    | 1.9                                     | 325                       | 11.5 | 210                     | 8.26  | 1/4                  | 1.26                | 2.78 |
| OP-S7490    | 2.3                                     | 339                       | 12   | 275                     | 10.83 | 1/4                  | 1.16                | 2.56 |



**OP-201**  
Air nipper tools  
氣動剪線工具



**OP-202**  
Air nipper tools  
氣動剪線工具



**OP-203**  
Air nipper tools  
氣動剪線工具



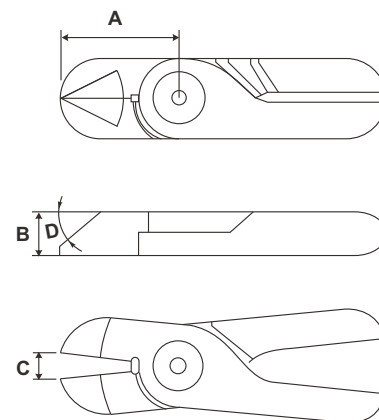
**OP-204**  
Air nipper tools  
氣動剪線工具



**OP-205**  
Air nipper tools  
氣動剪線工具



**OP-206**  
Air nipper tools  
氣動剪線工具



|     | A    | B    | C   | D   |
|-----|------|------|-----|-----|
| S2  | 24.5 | 6.9  | 3.4 | 25° |
| S4  | 28   | 9.6  | 5.5 | 25° |
| S5  | 35.6 | 11.8 | 7.5 | 30° |
| S8P | 44   | 17   | 8.5 | 30° |

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型號 | Cutting Capacity<br>Diameter<br>剪切直徑能力 |          | Housing<br>Diameter<br>握把直徑 | Air<br>Consumption<br>耗氣量 |      | Overall<br>Length<br>全長 |       | Air<br>Inlet<br>入氣接頭 | Net<br>Weight<br>重量 |      | Blade<br>刀刃 |
|-------------|----------------------------------------|----------|-----------------------------|---------------------------|------|-------------------------|-------|----------------------|---------------------|------|-------------|
|             | Copper(mm)                             | Iron(mm) | ømm                         | l/mm                      | cfm  | mm                      | inch  | P.T                  | kg                  | lb   |             |
| OP-201      | 1.0                                    | 0.5      | 30                          | 28                        | 1    | 140                     | 5.51  | 1/4                  | 0.18                | 0.4  | S2          |
| OP-202      | 1.6                                    | 1.0      | 35.5                        | 28                        | 1    | 160                     | 6.3   | 1/4                  | 0.26                | 0.57 | S4          |
| OP-203      | 2.6                                    | 2.0      | 46                          | 112                       | 4    | 200                     | 7.87  | 1/4                  | 0.49                | 1.08 | S5          |
| OP-204      | 3.0                                    | 2.4      | 46                          | 224                       | 8    | 270                     | 10.63 | 1/4                  | 0.66                | 1.45 | S5          |
| OP-205      | 3.3                                    | 2.8      | 56                          | 224                       | 8    | 245                     | 9.65  | 1/4                  | 0.92                | 2.02 | S8P         |
| OP-206      | 4.8                                    | 4.0      | 56                          | 367                       | 12.9 | 335                     | 13.19 | 1/4                  | 1.26                | 2.77 | S8P         |

Needle Scaler

除锈器



OP-120



OP-16



OP-100-2B



OP-J288

SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Blows<br>Per Min<br>衝擊數<br>(B.P.M.) | Needle<br>Diameter<br>鋼針直徑<br>mm | Number<br>of Needles<br>鋼針數<br>pcs | Piston<br>Diameter<br>活塞直徑<br>mm | Piston<br>Stroke<br>活塞行程<br>mm    inch |      | Air<br>Consumption<br>耗氣量<br>l/min    cfm |     | Overall Length<br>全 長<br>mm    inch |       | Air<br>Inlet<br>入氣接頭<br>PT | Net<br>Weight<br>重 量<br>kg    lb |      |
|--------------|-------------------------------------|----------------------------------|------------------------------------|----------------------------------|----------------------------------------|------|-------------------------------------------|-----|-------------------------------------|-------|----------------------------|----------------------------------|------|
|              |                                     |                                  |                                    |                                  | mm                                     | inch |                                           |     |                                     |       |                            |                                  |      |
| OP-120       | 2500                                | ø4x180                           | 35                                 | ø33x94                           | 52                                     | 2    | 210                                       | 7.4 | 460                                 | 18.11 | 1/4                        | 6                                | 13.2 |
| OP-16        | 4000                                | ø2x150                           | 29                                 | ø16x59                           | 36                                     | 1.4  | 71                                        | 2.5 | 285                                 | 11.22 | 3/8                        | 1.6                              | 3.5  |
| OP-100-2B    | 3700                                | ø3x180                           | 19                                 | ø23.5x70                         | 38                                     | 1.5  | 85                                        | 3   | 375                                 | 14.76 | 1/4                        | 2.8                              | 6.2  |
| OP-J288      | 5500                                | ø3x125                           | 12                                 | ø18x47                           | 28                                     | 1.1  | 283                                       | 10  | 290                                 | 11.41 | 1/4                        | 1.19                             | 2.62 |



OP-CM-50

OP-CM-50

Air caulking gun  
氣動膠槍

- Plastic gun size :215~240mm
- Air pressure : 3kg/cm<sup>2</sup>(45 psi)
- Length : 280 mm
- Weight : 0.53 kg

- 使用膠管尺寸 : 215~240mm
- 最高空氣壓力 : 3kg/cm(45 psi)
- 長度 : 280mm
- 重量 : 0.53kg



OP-CP1223

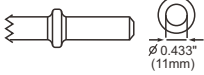
Air engraving pen  
氣動雕刻筆



OP-288N

Air flux chipper  
氣動雕刻刀

Chisel Shank



SPECIFICATION(air pressure at 90psi、6.2bar、6.3kg/cm<sup>2</sup>)

| MODEL<br>型 號 | Blows Per<br>Minute<br>衝擊數<br>B.P.M | Air<br>Consumption<br>耗 氣 量<br>l/mm    cfm |    | Overall<br>Length<br>全 長<br>mm    inch |      | Air<br>Inlet<br>入氣接頭<br>P.T | Net<br>Weight<br>重 量<br>kg    lb |      |
|--------------|-------------------------------------|--------------------------------------------|----|----------------------------------------|------|-----------------------------|----------------------------------|------|
|              |                                     |                                            |    |                                        |      |                             |                                  |      |
| OP-CP1223    | 2300                                | 28                                         | 1  | 170                                    | 6.69 | 1/4                         | 0.23                             | 0.5  |
| OP-288N      | 4800                                | 283                                        | 10 | 235                                    | 9.25 | 1/4                         | 1.21                             | 2.67 |



Air Tool Kit

氣動工具組



OP-301A1K

**10PCS AIR IMPACT SCREWDRIVER KIT**  
**10PCS 氣動衝擊起子組**

- 1PC Air screwdriver
- 1PC Slotted 5mmx50mm
- 2PCS Slotted 6mmx50mm
- 1PC Phillips No.1x65mm
- 2PCS Phillips No.2x65mm
- 1PC Phillips No.2x100mm
- 1PC Air inlet
- 1PC Blow case



OP-301LA1K

**9PCS AIR IMPACT SCREWDRIVER KIT**  
**9PCS 氣動衝擊起子組**

- 1PC Air screwdriver
- 2PCS Slotted 6mmx50mm
- 2PCS Phillips No.2x65mm
- 1PC Phillips No.2x100mm
- 1PC Air inlet
- 1PC Oil pot
- 1PC Blow case



OP-304A1K

**10PCS ADJUSTABLE CLUTCH AIR SCREWDRIVER KIT**  
**10PCS 離合式氣動起子組**

- 1PC Air screwdriver
- 1PC Slotted 5mmx50mm
- 1PC Phillips No.1x65mm
- 2PCS Wrench
- 2PCS Spring
- 1PC Oil pot
- 1PC Air inlet
- 1PC Blow case



OP-301LCK

**11PCS ADJUSTABLE CLUTCH AIR SCREWDRIVER KIT**  
**11PCS 離合式氣動起子組**

- 1PC Air screwdriver
- 2PCS Slotted 6mmx50mm
- 2PCS Phillips No.2x65mm
- 1PC Phillips No.2x100mm
- 2PCS Wrench
- 1PC Air inlet
- 1PC Oil pot
- 1PC Blow case



OP-306SL1K

**21PCS 3/8" AIR IMPACT WRENCH KIT**  
**21PCS 3/8" 氣動衝擊扳手組**

- 1PC 3/8" Air impact wrench
- 8PCS 3/8" Socket 8-10-11-12-13-14-17-19mm
- 6PCS 1/4" Hex 4-5-6-7-8-10mmx30mm
- 2PCS Phillips No.2, 3x30mm
- 1PC Bit holder 3/8"x1/4"
- 1PC Oil pot
- 1PC Air regulator
- 1PC Blow case



OP-101K

**9PCS 3/8" AIR DRILL KIT**  
**9PCS 3/8" 氣鑽組**

- 1PC 3/8" Air drill
- 1PC Phillips No.2x100mm
- 2PCS Phillips No.2x65mm
- 2PCS Slotted 6mmx50mm
- 1PC Air inlet
- 1PC Oil pot
- 1PC Blow case



OP-190MMK

**190mm AIR HAMMER KIT**  
**氣動鑿鏈組**

- 1PC 190mm Air hammer  
Overall length:181mm  
Air consumption:4C.F.M
- 5PCS 175mm chisels
- 1PC Blow case  
Piston Stroke:66mm  
B.P.M.:3200



OP-250MMK

**250mm AIR HAMMER KIT**  
**氣動鑿鏈組**

- 1PC 250mm Air hammer  
Overall length:181mm  
Air consumption:4C.F.M
- 5PCS 175mm chisels
- 1PC Blow case  
Piston Stroke:98mm  
B.P.M.:2200

## OPERATIONAL INSTRUCTIONS OF TORQUE WRENCH

### 1. Set The Torque

- 1-1 Set the fixing button (A) at UNLOCK position and turn the adjusting handle(B) to set the required torque.
- 1-2 The reading of "0" on the handle(B) aligns with centerline of scale(C) "9" so as to acquire 9 Nm.

### 2. Instruction

- 2-1 After setting the torque, set the fixing button (A) at LOCK position. Install the appropriate socket and fixing on the work piece. Apply force on the handle of torque wrench and then stop applying force upon hearing "click" sound. Special attention should be paid when using lower torque for setting, because the "click" sound will be unclear.
- 2-2 It is at right angle while applying pressure on torque wrench (allowed  $\pm 15^\circ$ ). Up, down, right and left sides should be within  $15^\circ$ .
- 2-3 After using the torque wrench, set the fixing button (A) at UNLOCK position. Twist the handle (B) to the scale torque of the lowest value and set the fixing button (A) at LOCK position.

### 3. Cautions

- 3-1 The first using or being left unused for longer time it is required to use once again, be sure to use higher torque to operate (80% of full-scale, press 10-15 times) so that the components within may be fully lubricated by the special-purpose lubricant oil. When it is not used, be sure to set the torque to the lowest value.
- 3-2 Torque wrench needs to be calibrated while using it for 5000 times or a year. The usual life time of usage will be 50000 times.
- 3-3 Do not keep applying pressure after reaching the preset torque or the work piece may get damaged.
- 3-4 Ratchet head (E) is consumables.
- 3-5 During the manufacturing, the torque wrench has been calibrated and tested in providing an accuracy as  $\pm 4\%$ . As such, it belongs to a kind of high-precision measuring instrument and only the well-trained professional can perform the service. Do not soak in any liquid to avoid affecting the lubrication inside.
- 3-6 The correct direction need to be taken while operating torque wrench. D spot of the picture shows a cursor which means the operating direction should be taken in that way so that torque wrench will be functional.
- 3-7 Except for tightening bolts, do not use in other conditions.
- 3-8 Do not use pipe to extend the shaft.
- 3-9 While applying pressure on torque wrench do not impact the instrument suddenly, not to put the weight of body and step on it; otherwise the work piece may get damaged.

## 扭力扳手使用說明

### 一、設定扭力

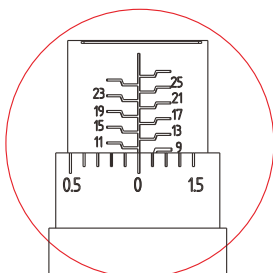
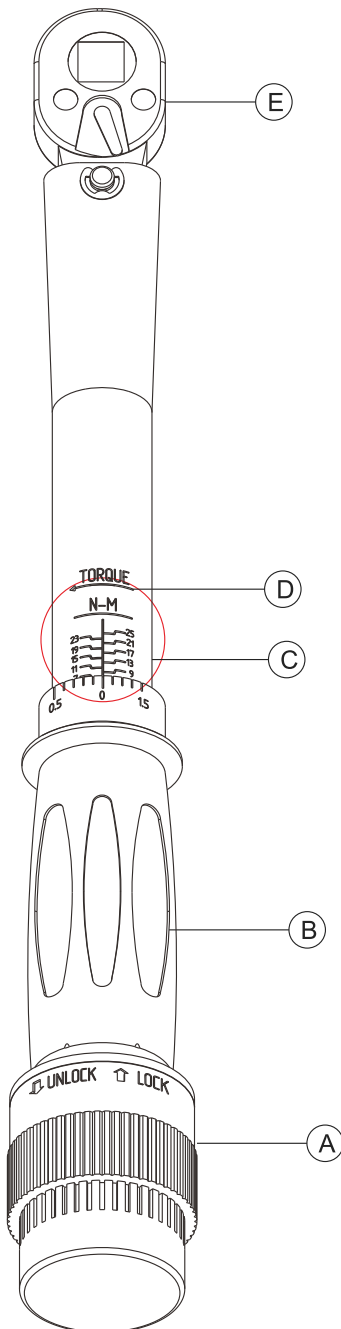
- 1-1 將開關(A)調整至UNLOCK方向，轉動把手(B)進行扭力調整。
- 1-2 把手(B)上刻度0對到扭力刻度(C)9的位置後，即得扭力為9Nm。

### 二、使用方法

- 2-1 設定完扭力後將開關(A)調整至LOCK方向。裝上適當的套筒，固定之。在手把處施力，聽到"卡達"一聲時，立刻停止施力。低扭力設定作業時，需特別注意，因為低扭力操作時聲響較不明顯。
- 2-2 施力的方向與扭力扳手成直角(允許正負15度)上下左右應在15度以內。
- 2-3 使用完畢後須將開關(A)調整至UNLOCK位置，轉動把手(B)，將扭力刻度(C)調回最低扭力，再將開關(A)調整至LOCK位置。

### 三、注意事項

- 3-1 第一次使用，或長期未使用之後再度使用時，先以高扭力操作(滿刻度的80%，壓10-15次)使內部特殊的潤滑劑可先潤滑內部組件。不使用時，請將扭力調至最低的扭力度。
- 3-2 扭力扳手使用5000次或一年，需進行校正。正常使用壽命為50000次。
- 3-3 達到預設扭力後又繼續施壓時會造成傷害。
- 3-4 快速頭組(E)是屬於消耗品。
- 3-5 扭力扳手在出廠之前，已經校正及測試，精確度可達 $\pm 4\%$ ，這是高精確測量儀器，因此，僅有專業人員才可做維修，切勿浸泡在任何液體中，否則會影響內部的潤滑。
- 3-6 扭力扳手有使用的方向性，圖中D處箭頭方向表示該扭力扳手沿該方向使用時才會有作用。
- 3-7 除了緊固螺帽外，不要用於其他用途。
- 3-8 請不要用管子加長手柄。
- 3-9 使用扭力扳手在施力的時候，不要對其進行突然衝擊，不要加上身體的重量，不要用腳踩。否則將會對扭力扳手造成損害。



Torque Wrench

扭力扳手



| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|----------------------|
|              | inch          | Nm               | mm            | kg                   |
| OP-60BK2     | 1/4           | 5-25             | 280           | 0.56                 |
| OP-60BK3     | 3/8           | 5-25             | 280           | 0.56                 |
| OP-80        | 3/8           | 19-110           | 366           | 0.83                 |
| OP-150       | 1/2           | 42-210           | 470           | 1.35                 |
| OP-250       | 1/2           | 70-350           | 633           | 2.38                 |
| OP-300       | 3/4           | 65-450           | 850           | 3.68                 |
| OP-500       | 3/4           | 140-700          | 1063          | 5.7                  |
| OP-700BK6    | 3/4           | 140-980          | 1213          | 6.0                  |
| OP-700BK8    | 1             | 140-980          | 1213          | 6.0                  |

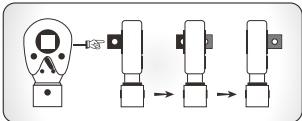
TORQUE WRENCH

Torque Wrench

扭力扳手



| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 |               | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|---------------|----------------------|
|              | inch          | Nm               | ft-lb         | mm            | kg                   |
| OP-1808AK2   | 1/4           | 6-30             | 50-250inch-lb | 300           | 0.58                 |
| OP-1808AK3   | 3/8           | 6-30             | 50-250inch-lb | 300           | 0.58                 |
| OP-1810AK    | 3/8           | 20-100           | 15-75         | 420           | 1.4                  |
| OP-1818AK    | 1/2           | 40-200           | 30-150        | 530           | 1.6                  |
| OP-1820K     | 1/2           | 60-320           |               | 600           | 1.8                  |
| OP-1820AK    | 1/2           |                  | 60-230        | 600           | 1.8                  |



Equipped with left-right torque adjuster  
扭力扳手功能右牙、左牙可調動扭力



| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 |               | Length<br>長 度 | Net<br>Weight<br>重 量 |   |  |
|--------------|---------------|------------------|---------------|---------------|----------------------|---|--|
|              | inch          | Nm               | ft-lb         | mm            | kg                   |   |  |
| OP-1313K2    | 1/4           | 6-30             | 40-250inch-lb | 305           | 0.74                 | × |  |
| OP-1313K3    | 3/8           | 6-30             | 40-250inch-lb | 305           | 0.74                 | × |  |
| OP-1314K     | 3/8           | 20-110           | 15-80         | 383           | 0.96                 | ○ |  |
| OP-1315K     | 1/2           | 40-210           | 30-150        | 535           | 1.7                  | ○ |  |
| OP-1316K     | 1/2           | 70-350           | 50-250        | 645           | 2.54                 | ○ |  |
| OP-1317K     | 3/4           | 100-500          | 50-300        | 865           | 3.66                 | ○ |  |
| OP-1318K     | 3/4           | 140-700          | 100-600       | 1092          | 5.94                 | ○ |  |
| OP-1319K6    | 3/4           | 140-980          | 100-700       | 1230          | 6.46                 | × |  |
| OP-1319K8    | 1             | 140-980          | 100-700       | 1230          | 6.46                 | × |  |

Torque Wrench

扭力扳手



| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 |               | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|---------------|----------------------|
|              | inch          | Nm               | ft-lb         | mm            | kg                   |
| OP-TA30N2    | 1/4           | 6-30             |               | 257           | 0.44                 |
| OP-TA110N3   | 3/8           | 20-110           |               | 436           | 1.12                 |
| OP-TA210N4   | 1/2           | 40-210           |               | 495           | 1.47                 |
| OP-TA350N4   | 1/2           | 70-350           |               | 560           | 1.62                 |
| OP-TA450N6   | 3/4           | 75-450           |               | 815           | 3.3                  |
| OP-TA800N6   | 3/4           | 100-800          |               | 1000          | 7.08                 |
| OP-TA1500N6  | 3/4           | 300-1500         |               | 1740          | 11.8                 |
| OP-TA1500N8  | 1             | 300-1500         |               | 1740          | 11.8                 |
| OP-TA250i2   | 1/4           |                  | 40-200inch-lb | 257           | 0.44                 |
| OP-TA80F3    | 3/8           |                  | 10-100        | 436           | 1.12                 |
| OP-TA150F4   | 1/2           |                  | 30-150        | 495           | 1.47                 |
| OP-TA250F4   | 1/2           |                  | 30-250        | 560           | 1.62                 |
| OP-TA300F6   | 3/4           |                  | 50-300        | 815           | 3.3                  |
| OP-TA600F6   | 3/4           |                  | 100-600       | 1000          | 7.08                 |
| OP-TA1000F6  | 3/4           |                  | 200-1000      | 1740          | 11.8                 |
| OP-TA1000F8  | 1             |                  | 200-1000      | 1740          | 11.8                 |



Interchangeable Torque Handle Wrench

可換式扭力扳手



OP-210N11K

TORQUE HANDLE SET

可換式扭力扳手組

9 PCS Spanner head 13, 14, 15, 17, 19, 22, 24, 27, 30mm

1 PC 1/2" Dr" ratchet head

1 PC Interchangeable torque wrench 40~210Nm

1 PC Blow case

□14x18



OP-80N8K

TORQUE HANDLE SET

可換式扭力扳手組

6 PCS Spanner head 17, 22, 24, 26, 27, 29mm

1 PC 1/2" Dr" ratchet head

1 PC Interchangeable torque wrench 15~80Nm

1 PC Blow case

□14x18

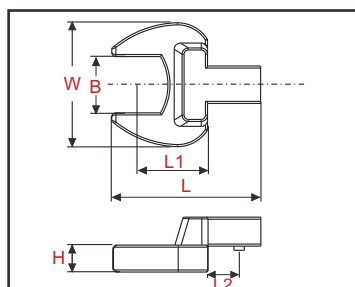


| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 |               | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|---------------|----------------------|
|              |               | mm               | ft-lb         |               |                      |
| OP-1708AK    | 9x12          | 6-30             | 50-250inch-lb | 290           | 0.58                 |
| OP-1709AKA   | 9x12          | 12-60            | 9-45          | 370           | 0.8                  |
| OP-1709AKB   | 14x18         | 12-60            | 9-45          | 375           | 0.81                 |
| OP-1710AKA   | 9x12          | 20-100           | 15-75         | 400           | 1.14                 |
| OP-1710AKB   | 14x18         | 20-100           | 15-75         | 405           | 1.15                 |
| OP-1718AK    | 14x18         | 40-200           | 30-150        | 500           | 1.38                 |
| OP-1720AK    | 14x18         | 60-300           |               | 575           | 1.5                  |
| OP-1721AK    | 14x18         |                  | 60-220        | 575           | 1.5                  |

## Changeable Head

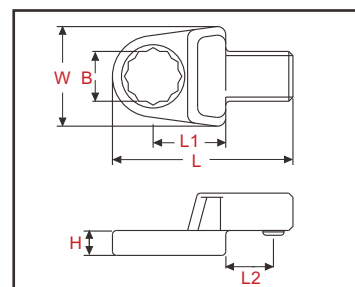
### 替換接頭

- Open Spanner Type
- 開口扳手型



單位：(mm)

- Ring Spanner Head
- 梅花扳手型



單位：(mm)

| MODEL<br>型號 | B<br>mm | mm   | W<br>mm | H<br>mm | L<br>mm | L1<br>mm | L2<br>mm | Net<br>Weight<br>(g) |
|-------------|---------|------|---------|---------|---------|----------|----------|----------------------|
| OP-T7       | 7       |      | 24      | 5       | 36.9    | 17.5     | 11.5     | 38                   |
| OP-T8       | 8       |      | 24      | 5       | 37.3    | 17.5     | 11.5     | 38                   |
| OP-T9       | 9       |      | 24      | 5.5     | 37.7    | 17.5     | 11.5     | 39                   |
| OP-T10      | 10      |      | 30      | 5.5     | 38.6    | 17.5     | 11.5     | 42                   |
| OP-T11      | 11      |      | 30      | 5.5     | 38.6    | 17.5     | 11.5     | 43                   |
| OP-T12      | 12      |      | 30      | 7       | 39      | 17.5     | 11.5     | 48                   |
| OP-T13      | 13      | 9x12 | 30      | 7       | 41.9    | 20       | 11.5     | 52                   |
| OP-T14      | 14      |      | 35      | 8       | 42.3    | 20       | 11.5     | 59                   |
| OP-T15      | 15      |      | 35      | 8       | 42.7    | 20       | 11.5     | 59                   |
| OP-T16      | 16      |      | 38      | 8.5     | 43.2    | 20       | 11.5     | 67                   |
| OP-T17      | 17      |      | 38      | 8.5     | 43.6    | 20       | 11.5     | 67                   |
| OP-T18      | 18      |      | 42      | 9       | 46      | 22       | 11.5     | 75                   |
| OP-T19      | 19      |      | 42      | 9       | 46.4    | 22       | 11.5     | 75                   |

| MODEL<br>型號 | B<br>mm | mm   | W<br>mm | H<br>mm | L<br>mm | L1<br>mm | L2<br>mm | Net<br>Weight<br>(g) |
|-------------|---------|------|---------|---------|---------|----------|----------|----------------------|
| OP-T7A      | 7       |      | 24.9    | 5.0     | 42.4    | 17.5     | 11.5     | 42                   |
| OP-T8A      | 8       |      | 24.9    | 5.0     | 42.4    | 17.5     | 11.5     | 42                   |
| OP-T9A      | 9       |      | 24.9    | 5.5     | 43.9    | 17.5     | 11.5     | 42                   |
| OP-T10A     | 10      |      | 26.5    | 5.5     | 45.1    | 17.5     | 11.5     | 52                   |
| OP-T11A     | 11      |      | 26.5    | 6.0     | 45.2    | 17.5     | 11.5     | 50                   |
| OP-T12A     | 12      |      | 26.7    | 6.0     | 45.5    | 17.5     | 11.5     | 48                   |
| OP-T13A     | 13      | 9x12 | 27.2    | 7.0     | 49.0    | 20       | 11.5     | 60                   |
| OP-T14A     | 14      |      | 27.0    | 7.0     | 50.0    | 20       | 11.5     | 64                   |
| OP-T15A     | 15      |      | 27.0    | 8.0     | 50.2    | 20       | 11.5     | 64                   |
| OP-T16A     | 16      |      | 27.0    | 8.0     | 50.3    | 20       | 11.5     | 62                   |
| OP-T17A     | 17      |      | 28.6    | 9.0     | 53.9    | 22       | 11.5     | 74                   |
| OP-T18A     | 18      |      | 28.6    | 9.0     | 53.9    | 22       | 11.5     | 74                   |
| OP-T19A     | 19      |      | 38.0    | 9.0     | 72.3    | 22       | 11.5     | 68                   |

| MODEL<br>型號 | B<br>mm | mm    | W<br>mm | H<br>mm | L<br>mm | L1<br>mm | L2<br>mm | Net<br>Weight<br>(g) |
|-------------|---------|-------|---------|---------|---------|----------|----------|----------------------|
| OP-K13      | 13      |       | 35      | 7       | 62.9    | 32       | 15       | 148                  |
| OP-K14      | 14      |       | 35      | 8       | 63.3    | 32       | 15       | 154                  |
| OP-K15      | 15      |       | 35      | 8       | 63.7    | 32       | 15       | 154                  |
| OP-K16      | 16      |       | 38      | 9       | 64.2    | 32       | 15       | 173                  |
| OP-K17      | 17      |       | 38      | 9       | 64.6    | 32       | 15       | 173                  |
| OP-K18      | 18      |       | 42      | 10      | 65      | 32       | 15       | 192                  |
| OP-K19      | 19      | 14x18 | 42      | 10      | 65.4    | 32       | 15       | 193                  |
| OP-K21      | 21      |       | 50      | 11      | 66.3    | 32       | 15       | 217                  |
| OP-K22      | 22      |       | 53      | 11      | 66.7    | 32       | 15       | 222                  |
| OP-K24      | 24      |       | 53      | 11      | 67.5    | 32       | 15       | 225                  |
| OP-K26      | 26      |       | 60      | 13      | 70.8    | 34       | 15       | 273                  |
| OP-K27      | 27      |       | 60      | 13      | 70.8    | 34       | 15       | 281                  |
| OP-K29      | 29      |       | 66      | 14      | 74.1    | 34.8     | 15       | 312                  |
| OP-K30      | 30      |       | 66      | 14      | 74.1    | 36       | 15       | 312                  |
| OP-K32      | 32      |       | 66      | 14      | 76.4    | 37.5     | 15       | 322                  |

| MODEL<br>型號 | B<br>mm | mm    | W<br>mm | H<br>mm | L<br>mm | L1<br>mm | L2<br>mm | Net<br>Weight<br>(g) |
|-------------|---------|-------|---------|---------|---------|----------|----------|----------------------|
| OP-K13A     | 13      |       | 38.0    | 11.5    | 72.3    | 32       | 15       | 200                  |
| OP-K14A     | 14      |       | 38.0    | 11.5    | 72.3    | 32       | 15       | 200                  |
| OP-K15A     | 15      |       | 38.0    | 11.5    | 72.5    | 32       | 15       | 194                  |
| OP-K16A     | 16      |       | 38.0    | 12.0    | 72.5    | 32       | 15       | 204                  |
| OP-K17A     | 17      |       | 38.0    | 12.0    | 72.5    | 32       | 15       | 198                  |
| OP-K18A     | 18      |       | 44.0    | 13.5    | 74.5    | 32       | 15       | 234                  |
| OP-K19A     | 19      | 14x18 | 44.0    | 13.5    | 74.5    | 32       | 15       | 230                  |
| OP-K21A     | 21      |       | 41.0    | 14.5    | 75.6    | 32       | 15       | 236                  |
| OP-K22A     | 22      |       | 42.0    | 16.0    | 77.0    | 32       | 15       | 250                  |
| OP-K24A     | 24      |       | 42.0    | 16.0    | 78.0    | 32       | 15       | 254                  |
| OP-K26A     | 26      |       | 42.0    | 16.0    | 78.0    | 32       | 15       | 240                  |
| OP-K27A     | 27      |       | 43.4    | 17.0    | 81.5    | 34       | 15       | 280                  |
| OP-K29A     | 29      |       | 43.4    | 19.0    | 84.5    | 36       | 15       | 306                  |
| OP-K30A     | 30      |       | 47.3    | 19.0    | 86.7    | 36       | 15       | 328                  |
| OP-K32A     | 32      |       | 47.3    | 19.0    | 86.7    | 36       | 15       | 312                  |

Torque Multiplier

扭力倍數器

- Accuracy:±6%
- 誤差值：±6%



| MODEL<br>型 號 | Range(Max)<br>最大使用範圍 |                  | Ratio<br>比值 | Input Square<br>輸入軸尺寸 | Output Square<br>輸出軸尺寸 | Length<br>長度 | Net Weight<br>重量 |
|--------------|----------------------|------------------|-------------|-----------------------|------------------------|--------------|------------------|
|              | Input(Nm)<br>輸入      | Output(Nm)<br>輸出 |             |                       |                        | mm           | kg               |
| OP-1998A     | 1000                 | 3000             | 1:3         | 3/4"                  | 1"                     | 500          | 6.49             |
| OP-1998B     | 500                  | 1500             | 1:3         | 1/2"                  | 3/4"                   | 420          | 3.09             |

Digital Torque Wrench

數位扭力扳手

- Accuracy:±1%
- Memory:10 Readings
- Unit Selection: Nm, ft.lb, in.lb, kg-m
- Operating Temperature:-15°C~55°C
- Battery: 1.5V AA Batteries x 3



- 誤差值：±1%
- 記憶數：10組
- 單位選擇：Nm, ft.lb, in.lb, kg-m
- 使用環境溫度：-15°C~55°C
- 電池：1.5V AA 3顆



| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|----------------------|
|              | inch          | Nm               | mm            | kg                   |
| OP-TB100N3   | 3/8           | 10~100           | 440           | 0.95                 |
| OP-TB100N4   | 1/2           | 10~100           | 440           | 1.06                 |
| OP-TB200N4   | 1/2           | 20~200           | 580           | 1.35                 |

| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|----------------------|
|              | mm            | Nm               | mm            | kg                   |
| OP-TC100N    | 14 x 18       | 10~100           | 420           | 0.84                 |
| OP-TC200N    | 14 x 18       | 20~200           | 550           | 1.15                 |

Digital Torque Screwdriver

數位扭力起子



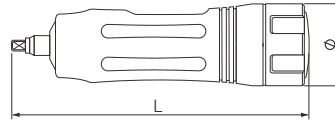
- Accuracy:±1%
- Memory:10 Readings
- Unit Selection: Nm, ft.lb, in.lb, kg-m
- Operating Temperature:-15°C~55°C
- Battery: 1.5V AA Batteries x 3

- 誤差值：±1%
- 記憶數：10組
- 單位選擇：Nm, ft.lb, in.lb, kg-m
- 使用環境溫度：-15°C~55°C
- 電池：1.5V AAA 3顆

| MODEL<br>型 號 | Driver<br>規 格 | Capacity<br>扭力範圍 | Length<br>長 度 | Net<br>Weight<br>重 量 |
|--------------|---------------|------------------|---------------|----------------------|
|              | inch          | Nm               | mm            | kg                   |
| OP-DTS10N    | 1/4           | 1~10             | 122           | 0.31                 |

## Torque Screwdriver

## 工業級扭力起子



1 PC 1/4DR. Torque Screwdriver  
10 PCS 25L Bit Set (Ph0x2, PH1x2, PH2x2, PH3x2, ⊖4, ⊖6)  
10 PCS 25L Tamper Bit Set (TX:10, 15, 20, 25, 30, 40)  
(Hex:3, 4, 5, 6)

| MODEL<br>型 號 | φ外徑 / 徑長 L | Max torque<br>最大扭力 | Driver<br>規 格 | Net Weight<br>重 量 |
|--------------|------------|--------------------|---------------|-------------------|
|              | mm         | Nm                 |               | kg                |
| OP-1405NT    | φ43/154    | 1~5                | 1/4"          | 0.33              |
| OP-1408NT    | φ43/154    | 1~8                | 1/4"          | 0.33              |
| OP-1405NTL   | φ43/235    | 1~5                | 1/4"          | 0.43              |
| OP-1408NTL   | φ43/235    | 1~8                | 1/4"          | 0.43              |

## Exclusive Bit

專用起子頭



| MODEL<br>型 號 | Type<br>樣 式 | Hex<br>規 格 | Length<br>長 度 | g<br>克 | Packing<br>入 數 |
|--------------|-------------|------------|---------------|--------|----------------|
| OP-102-0030  | PH0         | 1/4"       | 30mm          | 8      | 1000pcs        |
| OP-102-0130  | PH1         | 1/4"       | 30mm          | 8      | 1000pcs        |
| OP-102-0230  | PH2         | 1/4"       | 30mm          | 8      | 1000pcs        |
| OP-102-0330  | PH3         | 1/4"       | 30mm          | 8      | 1000pcs        |
| OP-102-0430  | PH4         | 1/4"       | 30mm          | 8      | 1000pcs        |



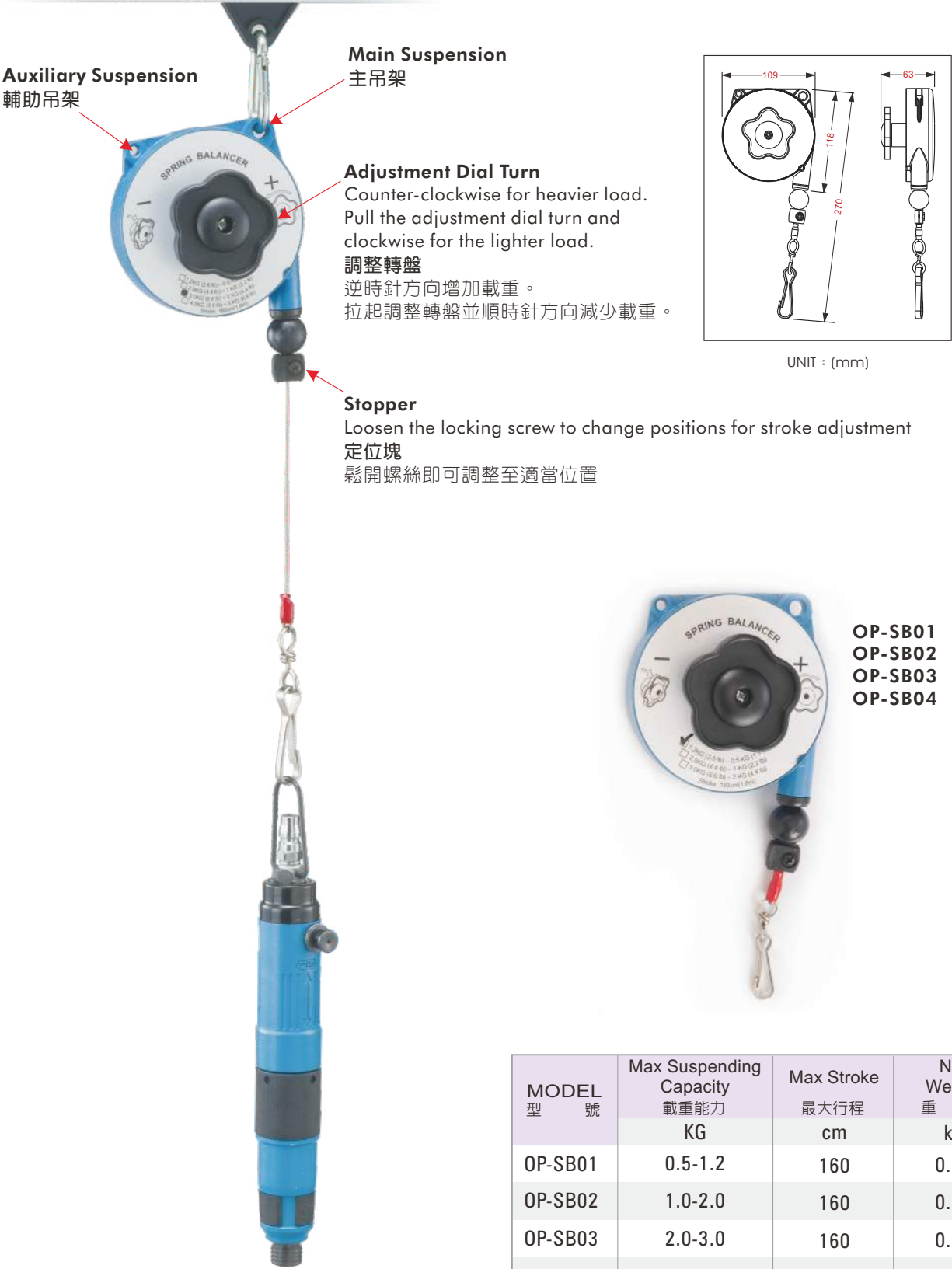
Exclusive for  
專用起子頭

**OP-106A**  
**OP-106B**

| MODEL<br>型 號 | Type<br>樣 式 | Hex<br>規 格 | Length<br>長 度 | 9<br>克 | Packing<br>入 數 |
|--------------|-------------|------------|---------------|--------|----------------|
| B4HPH0028    | PH0         | 4mm        | 28mm          | 3      | 300PCS         |
| B4HPH1028    | PH1         | 4mm        | 28mm          | 3      | 300PCS         |
|              |             |            |               |        |                |
|              |             |            |               |        |                |
|              |             |            |               |        |                |
|              |             |            |               |        |                |
|              |             |            |               |        |                |

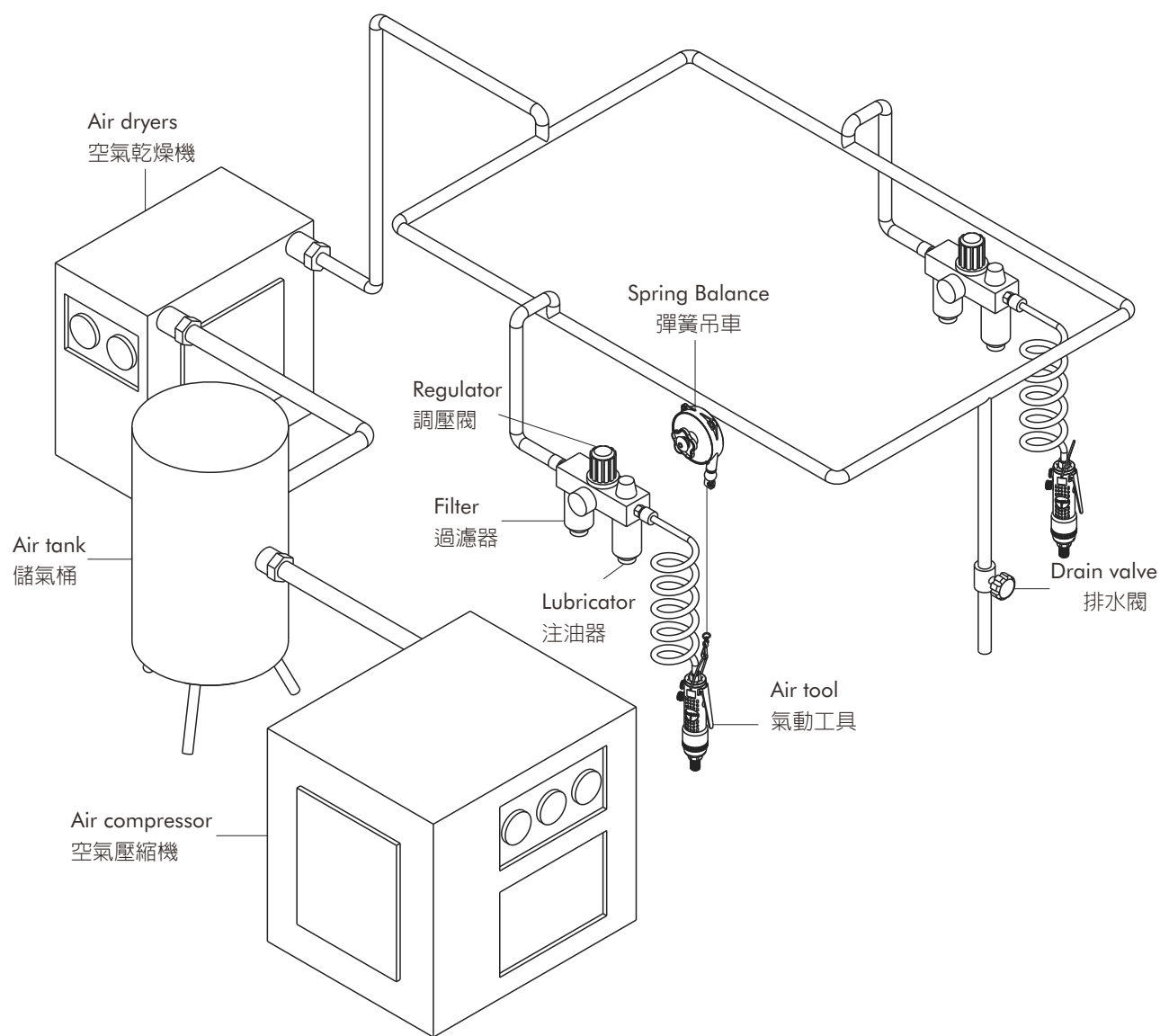
Spring Balancer

彈簧吊車



| MODEL<br>型 號 | Max Suspending<br>Capacity<br>載重能力 | Max Stroke<br>最大行程 | Net<br>Weight<br>重 量 |
|--------------|------------------------------------|--------------------|----------------------|
|              | KG                                 | cm                 | kg                   |
| OP-SB01      | 0.5-1.2                            | 160                | 0.56                 |
| OP-SB02      | 1.0-2.0                            | 160                | 0.56                 |
| OP-SB03      | 2.0-3.0                            | 160                | 0.56                 |
| OP-SB04      | 3.0-4.5                            | 160                | 0.65                 |



**Air Line Network****空氣輸送配置****CAUTION**

While installing air compressor system, be sure to have filters, oil-water separator, regulators, and lubricators in order to increase work efficiency, prolong the lifespan of air tools and reduce maintenance costs.

**注意**

配置空氣壓縮機系統中，必須配置：過濾器、油水分離器、壓力調節器及潤滑劑，以提高工作效率，延長氣動工具壽命，節省保養成本。



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CATALOGUE  
2019.05

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