# SUMAKE Air Screwdriver has following 15 features

Auto Shut-off

**SUMAKE** A-series have multi-start function: Push start / Push - Trigger start / Trigger start function.

1. **Technology :** Special mechanical structure and patent motor give you low noise, low vibration and high accuracy.
2. **Accuracy : SUMAKE** provide patent clutch with 3% deviation of torque, assure the best quality.
3. **Light Weight:** All new patent mechanical design and grip material 25~44% lighter than other brand.
4. **Delicacy :** Combination of art, ergonomics and mechanical design.

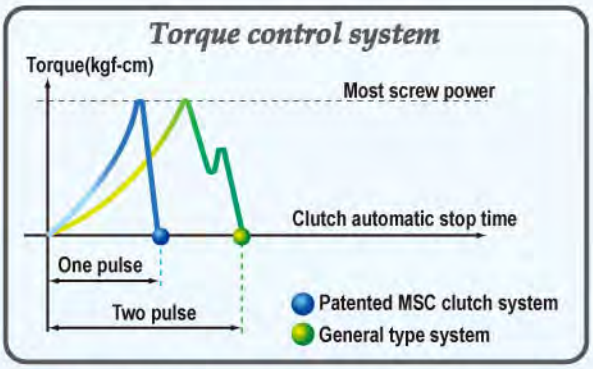
**5 User Friendly operation**
Easy to switch the direction(F/R) by single hand.

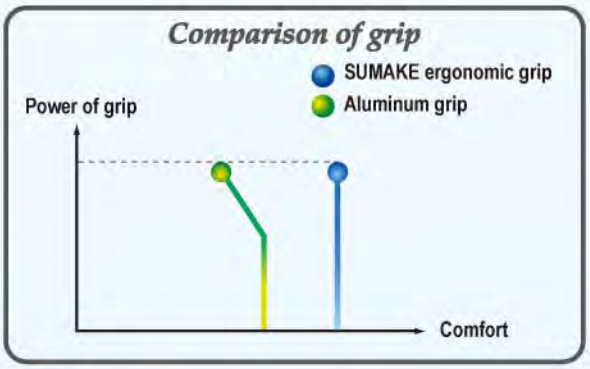
**9 Flexible inlet design feature**
The air inlet direction can be option for assembly line to get flexible space.

**6 Speediness**
Operator can change the bit rapidly by pulling the slide sleeve.

**7 Trigger auto lock feature**
World first proprietary auto lock feature(APP type only) with the choice of PUSH or PUSH To Start (to avoid any damage on surface and more safety for operator) can increase the quality of screwing.

**8 Comfort**
Uniquely sharped ergonomic design with anti-slip to provide best balance and comfort in operation.



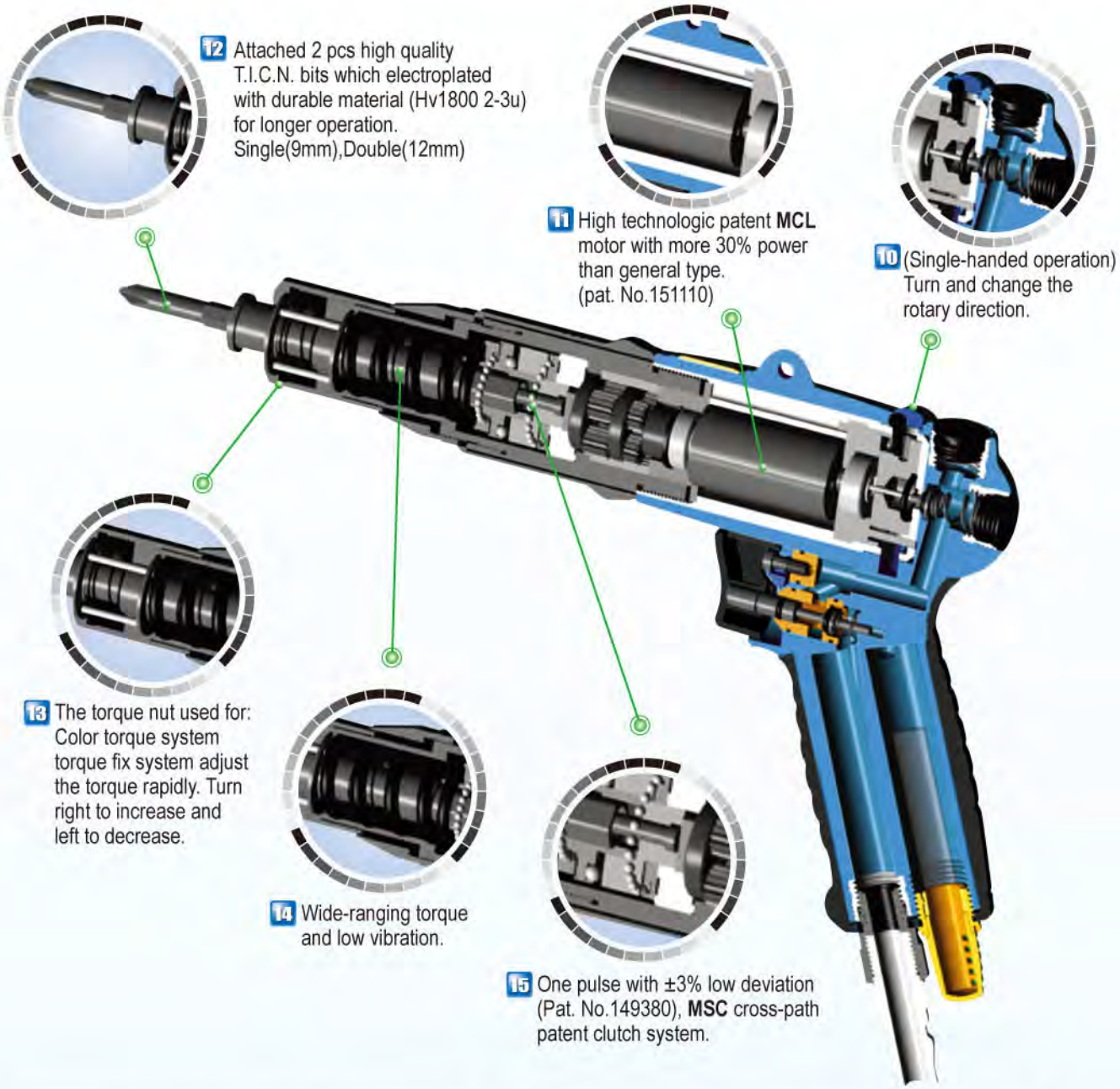

**Panted MSC cross-path patent clutch system (Automatic start-off type)**
The one pulse has the merits of low vibration (less than 2.5m/s²) and low torque deviation (±3%).

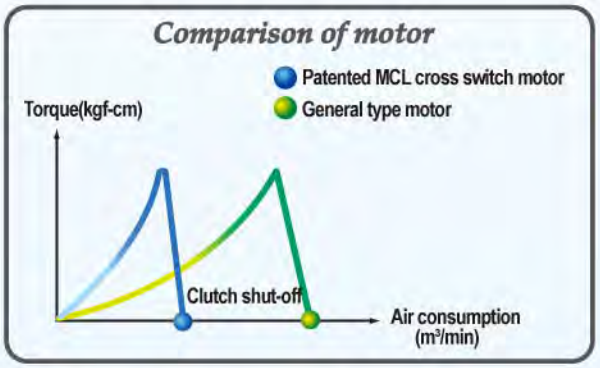
**General type**
2-3 times vibration (over 2.5m/s²) when pulse with higher torque deviation.

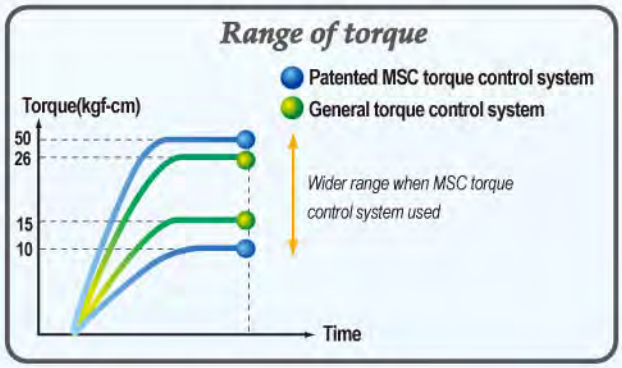
**Panted SUMAKE ergonomic grip**
More comfortable for operator to raise efficency.

**General type**
To feel uncomfortable when grip long time.

# Disassembly Chart




**Panted MCL cross switch control system (Automatic start shut-off type)**
MCL cross switch motor provide 30% more power and torque than general type.

**General type**
Low power, higher air consumption with lower efficiency.

**Patented MSC clutch system.**
More wider range of torque when patented motor used.
*When SUMAKE model APP47 used.

**General type**
Limited torque range.

# Push start or Push & Trigger start shut off

*Air Inlet could be 3 way option

**APP38**
**APP41**
**APP47**
<Small Body> -Light Weight-

**APP48 APP60**
**APP50 APP65**
**APP55 APP68**
<Standard Body>

*Option:*
** APPT is for push-trigger to start (w/o lock pin) Ex. APPT38.*

| Model No. | Drive | Free Speed (r.p.m.) | Torque Range±3% N.m | Torque Range±3% Kgf-cm | Weight (g) | Dimension (Øx L x H) (mm) | Air Pressure (Kg/cm²) | Noise Level (±3dB) | Min. air hose bore (mm) | Air Consumption (m³/min) | Fastening Capacity Machine Screw Dia. T | Fastening Capacity Tapping Screw Dia. 2T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| APP38 | ◯F1/4" | 1800 | 0.3-2.5 | 3-25 | 690 | 33 x 195 x 150 | 6.0 | 72 | 5.0 | 0.28 | M2.2-M4.7 | M1.7-M3.8 |
| APP41 | ◯F1/4" | 1000 | 0.5-3.5 | 5-35 | 690 | 33 x 195 x 150 | 6.0 | 72 | 5.0 | 0.28 | M2.8-M5.2 | M2.2-M4.2 |
| APP47 | ◯F1/4" | 550 | 1-5 | 10-50 | 690 | 33 x 195 x 150 | 6.0 | 72 | 5.0 | 0.28 | M3.6-M6.0 | M2.8-M4.7 |
| APP48 | ◯F1/4" | 2200 | 1-6 | 10-60 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M2.9-M6.0 | M2.6-M4.9 |
| APP50 | ◯F1/4" | 1400 | 1-6 | 10-60 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M3.6-M6.2 | M2.8-M5.1 |
| APP55 | ◯F1/4" | 1000 | 1.2-7.5 | 12-75 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M3.8-M6.6 | M3.0-M5.6 |
| APP60 | ◯F1/4" | 550 | 3-11 | 30-110 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M5.0-M7.3 | M4.0-M6.2 |
| APP65 | ◯F1/4" | 300 | 3-18 | 30-180 | 1150 | 39 x 235 x 160 | 6.0 | 76 | 8.0 | 0.55 | M5.0-M9.3 | M4.0-M7.2 |
| APP68 | ◯F1/4" | 250 | 5-28 | 50-280 | 1150 | 39 x 235 x 160 | 6.0 | 76 | 8.0 | 0.55 | M6.0-M11.0 | M4.9-M8.7 |

** If Ø5mm, put "A" in the end Ex. APP38A*
** Standard air inlet direction up bottom only. If need three-direction air inlet up bottom rear, put "T" in the end Ex. APP38T.*

# Trigger start-shut off

*Air Inlet could be 3 way option

**ABP38**
**ABP41**
**ABP47**
<Small Body> -Light Weight-

**ABP48 ABP60**
**ABP50 ABP65**
**ABP55 ABP68**
<Standard Body>

*Option:*
** ASP is push start Ex. ASP38. Standard air inlet is from rear only. (w/o lock pin) Other air inlet direction please specify.*

| Model No. | Drive | Free Speed (r.p.m) | Torque Range±3% N.m | Torque Range±3% Kgf-cm | Weight (g) | Dimension (Ø x L x H) (mm) | Air Pressure (Kg/cm²) | Noise Level (±3dB) | Min. air hose bore (mm) | Air Consumption (m³/min) | Fastening Capacity Machine Screw Dia. T | Fastening Capacity Tapping Screw Dia. 2T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ABP38 | ◯F1/4" | 1800 | 0.3-2.5 | 3-25 | 690 | 33 x 195 x 150 | 6.0 | 72 | 5.0 | 0.28 | M2.2-M4.7 | M1.7-M3.8 |
| ABP41 | ◯F1/4" | 1000 | 0.5-3.5 | 5-35 | 690 | 33 x 195 x 150 | 6.0 | 72 | 5.0 | 0.28 | M2.8-M5.2 | M2.2-M4.2 |
| ABP47 | ◯F1/4" | 550 | 1-5 | 10-50 | 690 | 33 x 195 x 150 | 6.0 | 72 | 5.0 | 0.28 | M3.6-M6.0 | M2.8-M4.7 |
| ABP48 | ◯F1/4" | 2200 | 1-6 | 10-60 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M2.9-M6.0 | M2.6-M4.9 |
| ABP50 | ◯F1/4" | 1400 | 1-6 | 10-60 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M3.6-M6.2 | M2.8-M5.1 |
| ABP55 | ◯F1/4" | 1000 | 1.2-7.5 | 12-75 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M3.8-M6.6 | M3.0-M5.6 |
| ABP60 | ◯F1/4" | 550 | 3-11 | 30-110 | 1030 | 39 x 230 x 160 | 6.0 | 76 | 8.0 | 0.55 | M5.0-M7.3 | M4.0-M6.2 |
| ABP65 | ◯F1/4" | 300 | 3-18 | 30-180 | 1150 | 39 x 235 x 160 | 6.0 | 76 | 8.0 | 0.55 | M5.0-M9.3 | M4.0-M7.2 |
| ABP68 | ◯F1/4" | 250 | 5-28 | 50-280 | 1150 | 39 x 235 x 160 | 6.0 | 76 | 8.0 | 0.55 | M6.0-M11.0 | M4.9-M8.7 |

** If Ø5mm, put "A" in the end Ex. ABP38A* ** 3/8" square available from ABP48~68, and code change to AWP48~68*
** Standard air inlet direction up bottom only. If need three-direction air inlet up bottom rear, put "T" in the end Ex. ABP38T.*

# Trigger Start Air Screwdriver Direct Driven Type

*(Without Clutch)*

| Model No. | Drive | Bolt Capacity (mm) | Max. Torque Soft Joint | | No Load Speed (r.p.m.) | Dimension (Ø x L x H) (mm) | Avg. Air Consumption | | Weight (g) | Noise Level (±3dB) | Min. Air Hose Bore (I.D.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | N-m | Ft-lb | | | cfm | m³/min | | | |
| **ADPN39** | ⬡ F1/4" | 3 ~ 5 | 5.0 | 3.7 | 1600 | 36 x 140 x 142 | 10 | 0.28 | 550 | 72 | 5mm |
| **ADPN45** | ⬡ F1/4" | 3 ~ 6 | 7.0 | 5.0 | 750 | 36 x 146 x 142 | 10 | 0.28 | 550 | 72 | 5mm |
| **ADPN48** | ⬡ F1/4" | 3 ~ 6 | 7.0 | 5.0 | 1700 | 45 x 159 x 154 | 19 | 0.55 | 780 | 76 | 8mm |
| **ADPN58** | ⬡ F1/4" | 3 ~ 7 | 13.0 | 9.6 | 750 | 45 x 159 x 154 | 19 | 0.55 | 780 | 76 | 8mm |

**With "N" : Trigger start only.*

**W/O "N" (ADP39) : Two way operations. (One is trigger locked up with pin and works by push-down; the other works by trigger-on & push-down together.)*

# Trigger Start Air Drill Direct Driven Type

*(Without Clutch)*

| Model No. | Drilling Cap | | Bolt Capacity (mm) | Max. Torque Soft Joint | | No Load Speed (r.p.m.) | Dimension (Ø x L x H) (mm) | Avg. Air Consumption | | Weight (g) | Noise Level (±3dB) | Min. Air Hose Bore (I.D.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | inch | | N-m | Ft-lb | | | cfm | m³/min | | | |
| **ADDN26** | 6 | 1/4 | 3 ~ 5 | 3.5 | 2.6 | 2900 | 36 x140 x 142 | 10 | 0.28 | 630 | 72 | 5mm |
| **ADDN39** | 10 | 3/8 | 3 ~ 5 | 5.0 | 3.7 | 1600 | 36 x140 x 142 | 10 | 0.28 | 630 | 72 | 5mm |
| **ADDN48** | 10 | 3/8 | 3 ~ 6 | 7.0 | 5.0 | 1700 | 45 x159 x 150 | 19 | 0.55 | 970 | 76 | 8mm |
| **ADDN58** | 10 | 3/8 | 3 ~ 6 | 13.0 | 9.6 | 750 | 45 x159 x 150 | 19 | 0.55 | 970 | 76 | 8mm |
| **ADDN458** | 13 | 1/2 | 3 ~ 6 | 13.0 | 9.6 | 750 | 45 x159 x 150 | 19 | 0.55 | 1060 | 76 | 8mm |