

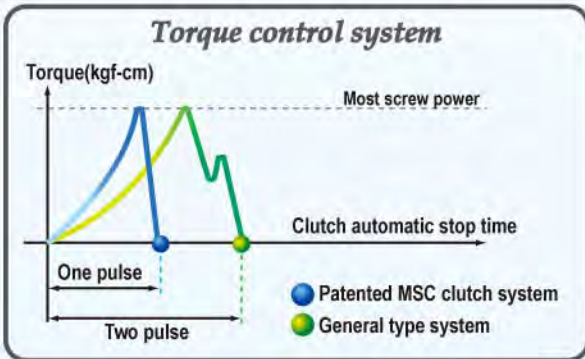
# The Appearance

# Auto Shut-off

SUMAKE engaging the design and manufacture of air screwdriver. From the user's point of view to plan the product map. From the owner's point of view to calculate the efficiency of tool. Furthermore, base on accuracy, environment, technology and quality, SUMAKE owns several patents and awards. An excellent air screwdriver tool can increase not only efficiency but the quality. A REAL industrial Air screwdriver with 2003 newest total design by the engineers of body, mechanic and ergonomics.

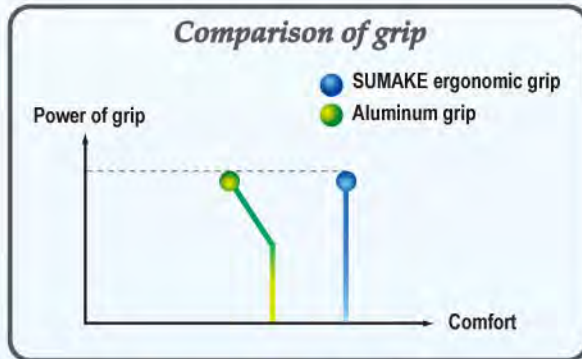
## SUMAKE® air screwdriver has following 18 features

- 1 **Accuracy** : SUMAKE provide patent clutch with 3% deviation of torque, assure the best quality.
- 2 **Meet ISO5393 Standard** : With patented cross-path MSC clutch and special mechanical structure, meet ISO5393 B class CPK value Torque deviation request (CPK value > 1.33).
- 3 **Economic** : Wide-ranging torque with many patent and longer life cycle of motor.
- 4 **Delicacy** : Combination of art, ergonomics and mechanical design.
- 5 **Technology** : Special mechanical structure and patent motor give you low noise, low vibration and high accuracy.
- 6 **Honorary** : Award "Excellent Tool" at Japan 2002 Osaka exhibition.



**SUMAKE** Patented MSC cross-path patent clutch system (Automatic start-off type)  
 The one pulse has the merits of low vibration (less than  $2.5m/s^2$ ) and low torque deviation ( $\pm 3\%$ ).

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

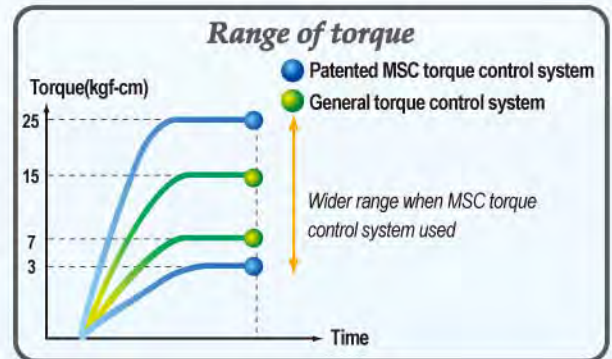
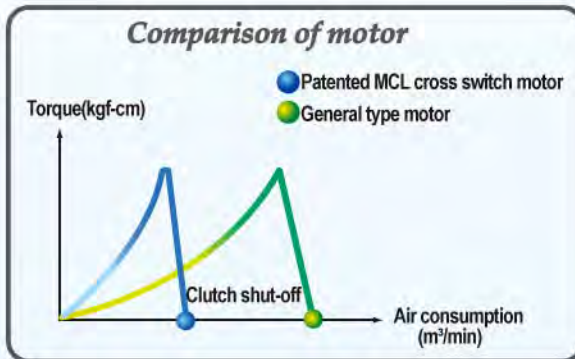
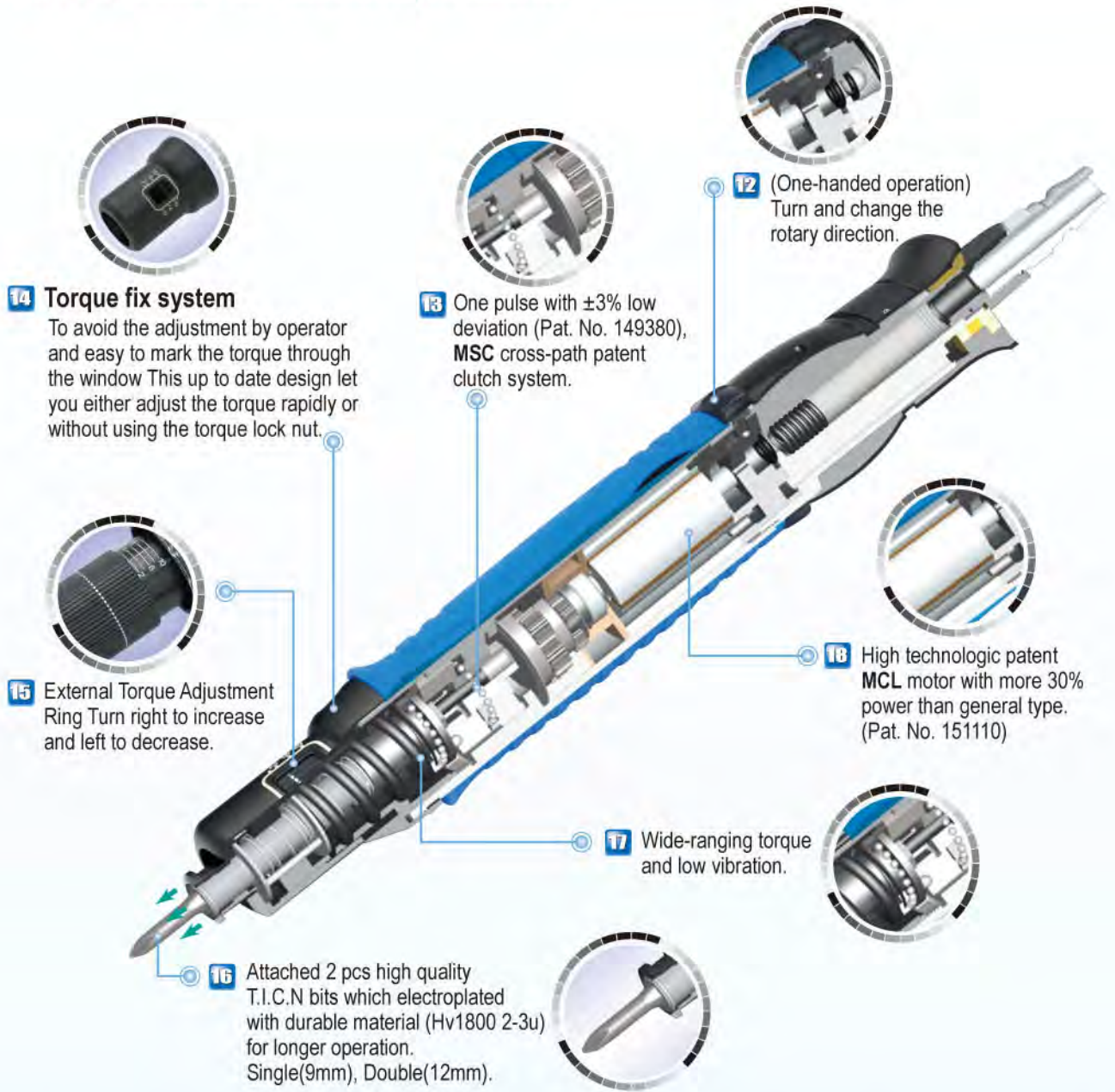


**SUMAKE** Patented SUMAKE ergonomic grip  
 More comfortable for operator to raise efficiency.

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

# Disassembly Chart

A New experience of less noise and easy maintenance.



- SUMAKE** **Patented MCL cross switch control system (Automatic start shut-off type)**  
MCL cross switch motor provide 40% more power and torque than general type.
- Others** **General type**  
Low power, higher air consumption with lower efficiency.

- SUMAKE** **Patented MSC clutch system.**  
More wider range of torque when patented motor used.  
\*When **SUMAKE** model FP025 used.
- Others** **General type**  
Limited torque range.

# INDUSTRIAL FULL AUTO SHUT-OFF AIR SCREWDRIVER

Meet ISO5393 Standard B class CPK value. Torque deviation request (CPK value > 1.33)

Economic : Wide-ranging torque with many patent and longer life cycle of motor

Accuracy: 3% deviation of torque, assure the best quality



# An Evolutionary Upgrade of Full Auto Shut-off Air Screwdriver



**Push Start**



**Lever Start**



\*Model FAW020 ~ 050  
With 1/4" Square  
(3/8" Square for Opt.)

\*Model FAW060 ~ 280  
With 3/8" Square



**Lever Start, Angle Type**

Recommend Air Pressure: 6.0 Kg/cm<sup>2</sup>

Model No.	Free Speed (r.p.m.)	Torque range ±3%		Weight (g)	O.A.L (mm)	Dia. (mm)	Noise (±3dB)	Min. air hose bore (mm)	Air Consumption (m <sup>3</sup> /min)	Fastening Capacity		
		Nm	Kgf-cm							Machine Screw Dia.	Tapping Screw Dia.	
<b>Push Start</b>												
FP010	1000	0.1-1	1-10	600	250	35	68	5.0	0.20	M1.7-M3.7	M1.3-M2.9	
FP020	2200	0.3-2	3-20	600	250	35	72	5.0	0.28	M2.2-M4.5	M1.7-M3.5	
FP025	1800	0.3-2.5	3-25	600	250	35	72	5.0	0.28	M2.2-M4.7	M1.7-M3.8	
FP035	1000	0.5-3.5	5-35	600	250	35	72	5.0	0.28	M2.8-M5.0	M2.2-M4.0	
FP045	800	0.8-4.5	8-45	600	250	35	72	5.0	0.30	M3.3-M5.8	M2.7-M4.7	
FP050	550	1-5	10-50	600	250	35	72	5.0	0.30	M3.5-M6.0	M2.8-M4.9	
FP060	2200	2-6	20-60	880	285	43	76	8.0	0.55	M3.5-M6.4	M2.8-M5.4	
FP075	1000	1.2-7.5	12-75	880	285	43	76	8.0	0.55	M4.1-M6.9	M3.1-M5.9	
FP110	550	3-11	30-110	880	285	43	76	8.0	0.55	M5.0-M7.8	M4.0-M6.3	
FP180	300	3-18	30-180	900	285	43	76	8.0	0.55	M5.0-M9.3	M4.0-M7.2	
FP280	250	5-28	50-280	900	285	43	76	8.0	0.55	M6.0-M11.0	M4.9-M8.7	
<b>Lever Start</b>												
FL010	1000	0.1-1	1-10	630	250	35	68	5.0	0.20	M1.7-M3.7	M1.3-M2.9	
FL020	2200	0.3-2	3-20	630	250	35	72	5.0	0.28	M2.2-M4.5	M1.7-M3.5	
FL025	1800	0.3-2.5	3-25	630	250	35	72	5.0	0.28	M2.2-M4.7	M1.7-M3.8	
FL035	1000	0.5-3.5	5-35	630	250	35	72	5.0	0.28	M2.8-M5.0	M2.2-M4.0	
FL045	800	0.8-4.5	8-45	630	250	35	72	5.0	0.30	M3.3-M5.8	M2.7-M4.7	
FL050	550	1-5	10-50	630	250	35	72	5.0	0.30	M3.5-M6.0	M2.8-M4.9	
FL060	2200	2-6	20-60	900	285	43	76	8.0	0.55	M3.5-M6.4	M2.8-M5.4	
FL075	1000	1.2-7.5	12-75	900	285	43	76	8.0	0.55	M4.1-M6.9	M3.1-M5.9	
FL110	550	3-11	30-110	900	285	43	76	8.0	0.55	M5.0-M7.8	M4.0-M6.3	
FL180	300	3-18	30-180	920	285	43	76	8.0	0.55	M5.0-M9.3	M4.0-M7.2	
FL280	250	5-28	50-280	920	285	43	76	8.0	0.55	M6.0-M11.0	M4.9-M8.7	
<b>Lever Start, Angle Type</b>												
FA020	2200	0.3-2	3-20	770	310	35	70	5.0	0.28	M2.2-M4.5	M1.7-M3.5	
FA035	1000	0.5-3.5	5-35	770	310	35	74	5.0	0.28	M2.8-M5.0	M2.2-M4.0	
FA045	800	0.8-4.5	8-45	770	310	35	74	5.0	0.30	M3.3-M5.8	M2.7-M4.7	
FA050	550	1-5	10-50	770	310	35	74	5.0	0.30	M3.5-M6.0	M2.8-M4.9	
FA060	2200	2-6	20-60	1350	345	43	74	8.0	0.55	M3.5-M6.4	M2.8-M5.4	
FA075	1000	1.2-7.5	12-75	1350	345	43	78	8.0	0.55	M4.1-M6.9	M3.1-M5.9	
FA110	550	3-11	30-110	1350	345	43	78	8.0	0.55	M5.0-M7.8	M4.0-M6.3	
FA180	300	3-18	30-180	1450	345	43	78	8.0	0.55	M5.0-M9.3	M4.0-M7.2	
FA280	250	5-28	50-280	1450	345	43	78	8.0	0.55	M6.0-M11.0	M4.9-M8.7	

\*The standard bit is 1/4", if φ 5mm, put "A" in the end Ex. FP010A