好幫手® SAS Smart Pseudo Servos AI Mini Series

Repeatability: ±0.025 kgf·cm

- Compact Housing Design (Smallest Tool @ Highest Output) Offering Comfortable & Secured Tightening
- Contactless On/Off & Forward/Reverse Switches Ensuring Superior Long Life
- Optional Gyro Sensor to Ensure Vertical Tightening Meets or Exceeds High Quality Standard

Standard or Advanced Data Manager to Setup Devices or to Process Production Data

Industry 4.0

Compact & Highly Portable Standard Power Supply

Military Grade Connector & Cable to Ensure Secured Connection Under Any Use Condition

LCD to Display Torque/Tilt Angle/Result to Alarm User Error

Slotless High Efficiency BLDC & High Resolution Encoder for High Precision Torque Control

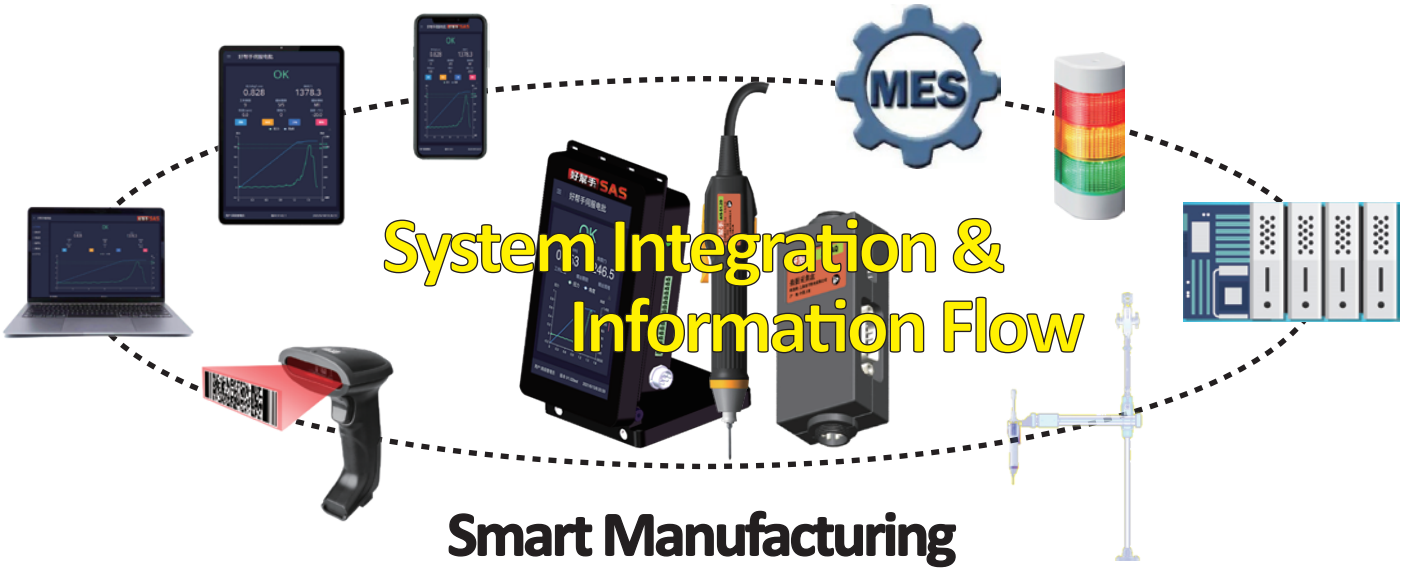
ESD Housing to Ensure Safe & Static-free Operations

Bearing Steel Design in All Key Parts Ensuring High Precision Tightening Being Maintained

Optional LED Can Be Added To Ensure Precise Tightening under Poor Visibility CConditions

TABLET PC PHONE PLC MES

Wired or Wireless (Wi-Fi) Communication to Connect w/ External &Upstream Devices to Access & Manage Device & Data



Smart Manufacturing

LESS COSTS FOR HIGHER PRODUCTIVITY

www.sas-tool.com www.saspowertools.com info@saspowertools.com

TAIWAN 精品金质奖

0.15-25 kgf·cm

Smart Pseudo Servos AI Mini Series Model Specifications

Item / Series		Standard Series & Models[1]					Z-Axis Series & Models			
							Standrad Z-Axis w/o LED Extended Z-Axis w/o LED		Standard Z-Axis w/ LED Extended Z-Axis w/ LED	
Smart AI Pseudo Servos Type	AI w/ Standard Data Manager	AI-S1.2D	AI-S1.2	AI-S5.0	AI-S15	AI-S25	AI-S0.9DZ AI-S0.9DZ-1	AI-S0.9Z AI-S0.9Z-1	AI-S0.9DZL AI-S0.9DZL-1	AI-S0.9ZL AI-S0.9ZL-1
	AI + Gyro Sensor w/ Standard Data Manager	AIG-S1.2D	AIG-S1.2	AIG-S5.0	AIG-S15	AIG-S25	AIG-S0.9DZ AIG-S0.9DZ-1	AIG-S0.9Z AIG-S0.9Z-1	AIG-S0.9DZL AIG-S0.9DZL-1	AIG-S0.9ZL AIG-S0.9ZL-1
	AI w/ Advanced Data Manager	AIS-S1.2D	AIS-S1.2	AIS-S5.0	AIS-S15	AIS-S25				
	AI + Gyro Sensor w/ Advanced Data Manager	AISG-S1.2D	AISG-S1.2	AISG-S5.0	AISG-S15	AISG-S25				
Tool 	Torque Range (kgf·cm / in-lb)	0.15-1.2 0.13-1.05	0.15-1.2 0.13-1.05	0.5-5.0 0.45-4.5	3.0-15.0 2.6-13.0	1.0-25.0 0.9-22.0	0.15-0.90 0.13-0.80			
	Motor No Load Speed (RPM)	100-300	500-1000	1000-3000	1000-2000	500-1100	100-300	500-1000	100-300	500-1000
	Applicable Screw Size (mm)	0.7-1.8		1.0-2.6	1.0-4.0	1.8-5.0	0.7-1.8			
	Dimension (mm) @ Weight (g)	ϕ29.9 x 216 @ 320								
	Applicable Bits Size	ϕ4/5I/4			ϕ5/5I/4		ϕ2.49			
	Starting Method	Lever Start								
	Motor Control	FOC (Vector)								
	Tightening Accuracy (Repeatability Error)	≤ ±4%								
Power Adapter 	Model No.	APM-303A								
	Dimension (mm) @ Weight (g)	110 x 63 x 32 @ 500g								
	Input/Output @ Rated Power (W)	100-240 Vac 50-60Hz / 30 Vdc @ 75W								
PC Software (Optional)		AI-DA1.0								
Standard Data Manager 	Model Number	AI-DAQ								
	Dimension (mm) @ Weight (g)	172 x 84 x 61 mm @ 60 g								
	Communication	RS-232/485								
	I/O	n/a								
	Tightening Programmability	n/a								
	Signal Input	n/a								
	Signal Output	On-Tool LCD Display of Tightening Torque, Tightening Angle, Tightening Result and Screw Count								
Advanced Data Manager (Touch Panel) 	Model Number	TSC-1.0								
	Dimension (mm) @ Weight (g)	51 x 113 x221 mm @ 1190 g (Desktop Free Stand) 51 x 113 x221 mm @ 365 g (Balancer or Machine Mount)								
	Communication	Wi-Fi / Ethernet / RS-232/485								
	I/O	16 Total (DI: 7 / DO: 5 / Analog: 4)								
	Tightening Programmability	8 Steps/Program and 16 Programs (Screw Type)								
	Signal Input	Initial Power / Reset / CW / CCW / Program#								
	Signal Output	OK / NG / FL / SS / WC / SC / DO(Defined)[2]								

[1]

AI: Standard Pseudo Servo Tool w/ On-Tool LCD Display and In Use w/ Standard Data Manager AI-DAQ
AIG: Standard Pseudo Servo Tool w/ On-Tool LCD Display and Gyro Sensor Built-in (Set Tilt Angle During Operation and Alarm if Not Acceptable)
AIS: Standard Pseudo Servo Tool w/o On-Tool LCD Display and in Use w/ Advanced Data Manager TSC-1.0 (Touch Panel)
AISG: Standard Pseudo Servo Tool w/o On-Tool LCD Display and Gyro Sensor Built-in and in Use w/ Advanced Data Manager TSC-1.0 (Touch Panel)
Model No. w/ 'D' Stands for Low RPM Model
Model No. w/ 'Z' Stands for Standard Length Z-Axis Model while 'Z' w/ '-1' Stands for Extended Length Model and 'Z' w/ 'L' Stands for w/ LED Model

[2]

OK Stands for Tightening Result Meets All Defined Acceptable Conditions
NG Stands for Tightening Result Does Not Meet All Defined Acceptable Conditions
FL Stands for Actual Tightening Angle Was Less Than Defined Lowest Acceptable Tightening Angle Set
SS Stands for Actual Tightening Angle Was Larger Than Defined Highest Acceptable Tightening Angle Set
WC Stands for All Screws on a Workpiece Completes w/o Errors
SC Stands for Single Screw Completes w/o Errors
DO(Defined) Stands for Defined Output Signal Is Active