

For automated assembly of Pre-Fab building materials

Single Spindle Screwdriver for self-drilling screw

FEEDMAT FM530C



**Compact and High Thrust
Single-Spindle for Self-drilling
screws**

**High speed
& High quality**

Maximum 2000min⁻¹ high speed for drilling, and keep stable tightening control after drilling

**Low inertia
& High thrust**

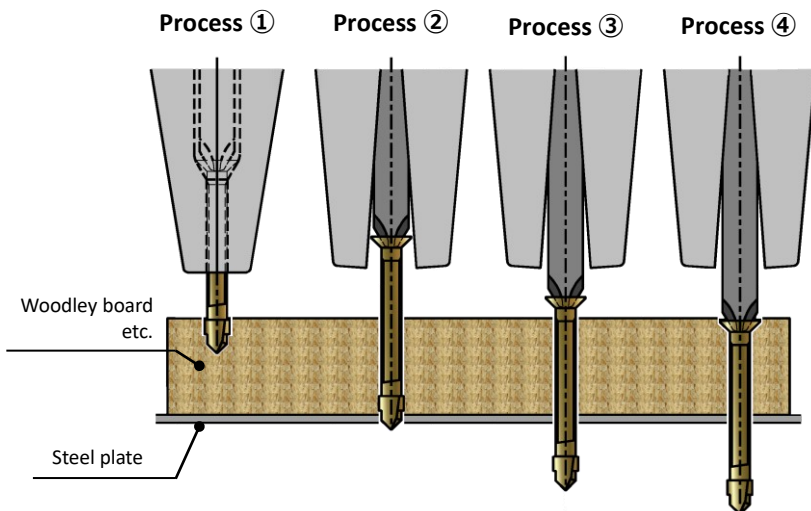
Cylinder mounted on a straight line of the bit. Impact force will be decreased.

Compact

Much compact body than existing model. Easy to make more flexible layout. Minimum pitch will be 110mm.

● **Tightening process for self-drilling screw**

- ① Drill through board
- ② Drill through steel plate
- ③ Tap steel plate
- ④ Completed



Application image



● Specifications tool unit

[] : Optional

Model		FM530C
Applicable Screw *1, *2	Category	Self-drilling
	Nom Dia.	4~5mm
	Length	25~50mm
Tightening torque		2.0~8.5Nm
Maximum speed for drilling		2,000min ⁻¹
Screw tightening thrust		appx. 500Nm (in case air pressure of moving down 0.4MPa)
Tightening stroke *3		50mm
How to verify tightening completion		Judged by screw height
Error detection	Screw height detection	
	Screw feeding detection	
Tool unit weight		Appx. 15.0kg
Power supply (Tool unit, Screw feeder)		Single phase AC200~300V 50or60Hz
Working air supply		0.4~0.5MPa
Screw feeder		FF801H (Basket capacity 2,000mL)

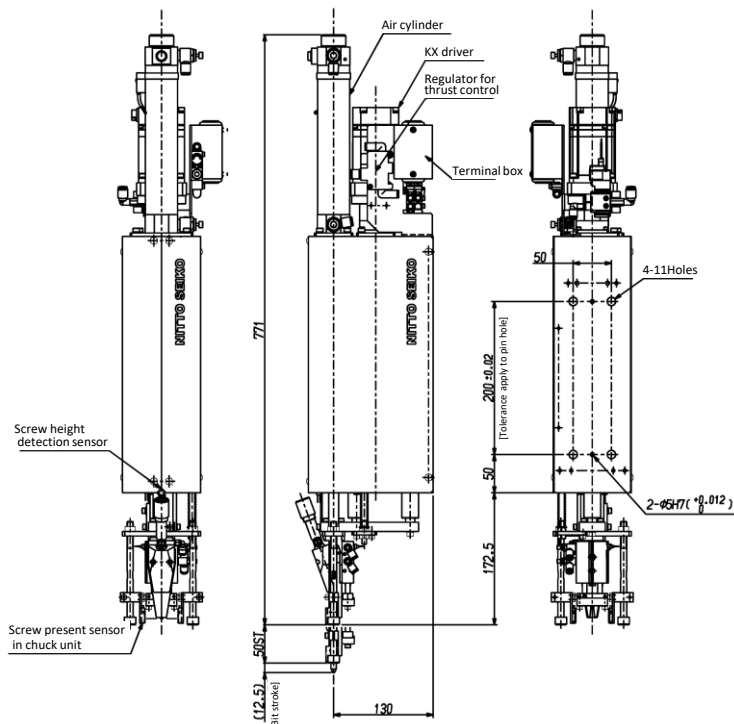
*1 Products will be built up based on specification of screws, therefore it can be used for one kind of screws only.

*2 Application range of screws will be changed by type of screw head, or size. Please contact us to make sure for it.

*3 Ensure adequate stiffness of driver unit mounting base

*4 Need screw tightening test

● Tool unit outside dimension drawing (Unit:mm)



● Specifications of controller

[] : Optional

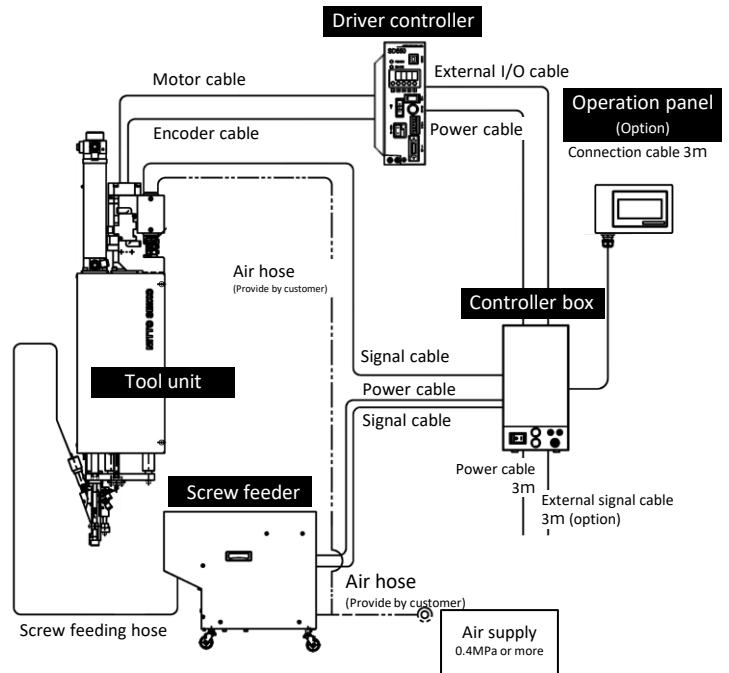
Model	SD75-T2
Supply voltage	Single phase AC200~230V 50/60Hz
Power capacity	Max 1.5kVA
Serial port	RS-422 (for operation panel)
Memory	EEPROM
External input *5, *6	Standard user port, 2-pos. [I/O addition possible]
External output *5, *6	Standard user port, 4-pos. [I/O addition possible]
Field network	[CC-Link]
PLC program	25K steps (including 5K steps used for the system)
Outside Dimensions (W×H×D)	110×210×270mm
Weight	Approximately 3.0 kg
Operation Panel	[Handy type touch panel]
PC software	[GX Developer or GX Works(Ver.2 or later)] *7

*5 External input/output may be used as a screw-driving system depending on the device configuration.

*6 PNP type also available. (Need to specify at order timing. NPN or PNP.)

*7 GX Developer and GX Works are products of Mitsubishi Electric.

● Device configuration



● Standard length of cable

Tool unit	↔	Screw driver controller	4m
Tool unit	↔	Controller box	4m
Controller box	↔	Screw feeder	3m
Controller box	↔	Screw driver controller	4m
Screw feeder	↔	Tool unit	3m

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