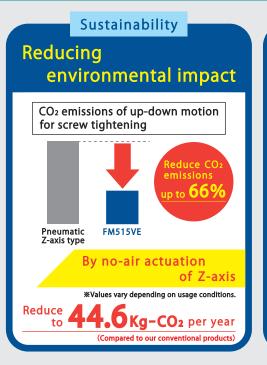
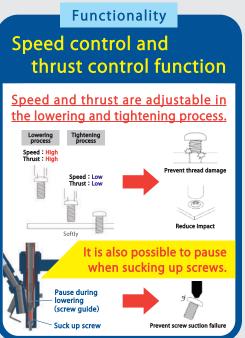


# FM515VE

## For those seeking balance

Screw Driving Unit with Eelectric Actuator on Z-AXIS.
Well-balanced combination of sustainability, screw tightening quality, and ease in handling.





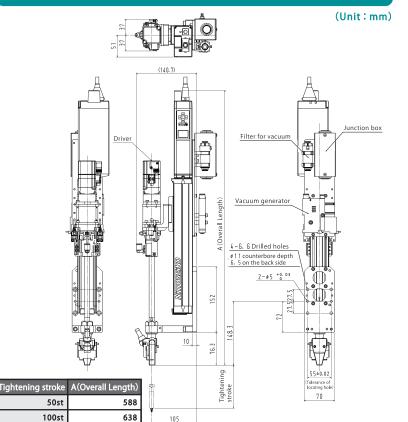


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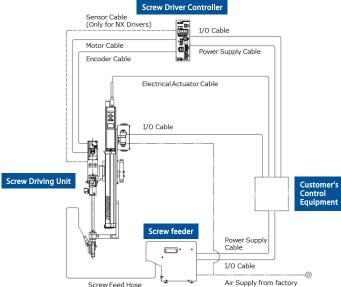
688



#### Outside dimensions of screw tightening unit



#### System Diagram



Unit name	Distance	
Screw Driving Unit ⇔ Driver Controller	4 m	
Screw Driving Unit ⇔ Customer's Control Equipment 3 m		
Screw Driving Unit ⇔ Screw Feeder	3 m	
Customer's Control Equipment ⇔ Driver Controller 4 m		
Customer's Control Equipment ⇔ Screw Feeder	3 m	

#### Specifications of tool unit

[ ]: Option

Model		FM515VE	
Screw holding system		Vacuum type screw guide	
Slide drive type		IAI electric actuator (*1) (Settable coordinates: backward end, intermediate position, push start position and push end position	
Torque range (N·m) (*2)		0.3 ~ 3.8	
Driver		KX Driver [NX Driver]	
Tightening stroke (mm)		50, 100, 150 [200, 250, 300, 350, 400]	
Applicable screws (*3, *4)	Screw type	Machine screw, Selftapping screw etc.	
	Nominal Dia (mm)	2~5	
	Maximum Head Dia (mm)	φ10.5	
	Length (mm)	18	
Error detection		Torque failure (Thread stripping)	
		Screw shortage (Screw feeder)	
		Screw height fault (Photoelectric sensor) (*5)	
Air supply (MPa)		0.4~0.5	
Power supply	Tool Unit	DC24V±10%	
	Driver Controller	Single phase 200 $\sim$ 230VAC $\pm$ 10% 50/60Hz [Single phase 100 $\sim$ 115VAC $\pm$ 10% 50/60Hz]	
	Screw feeder	Single phase 100∼240VAC±10% 50/60Hz	
Tool Unit Weight (*6)		Approx. 4.3kg (Main body: approx. 3.8kg Air equipment and relay box: approx. 0.5kg)	
Screw feeder		FF311DR/FF503H	

- (%1) Product of IAI Co., Ltd. Some specifications are different from general sale items.
- (※2) Driver type varies depending on target torque.(※3) The unit will be designed basing on the screw spec, to be used and can support only one type screw.
- (\*4) Applicable screw range will be changed depending on screw head type or screw norminal size. Please contact us for details.
   (\*5) Approx. more than 2mm of screw floating can be detected. More precise sensor is available as option.
   (\*6) Not including piping and wiring. This weight is based on KX050T2 driver installed and screw guide stroke 100mm.
- NITTOSEIKO CO.,LTD.

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