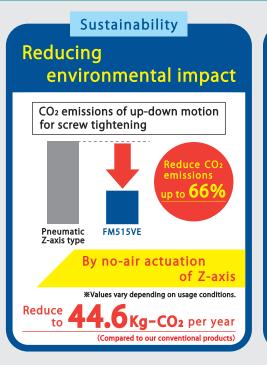


FM515VE

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.







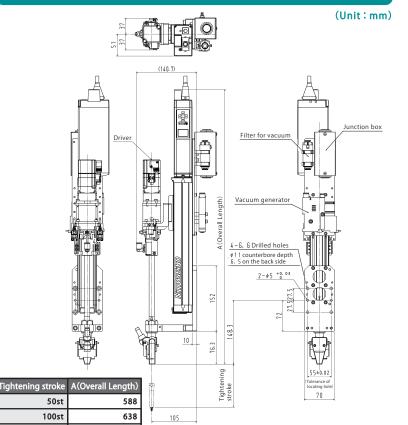
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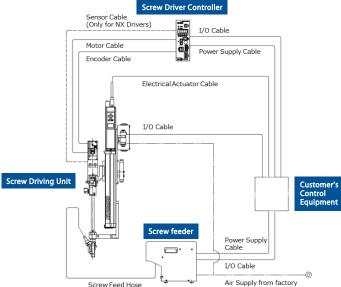








System Diagram



| 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 | | Ve type (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 W | eight (*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.

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