

FANUC Robot TR-510iA



FEATURES

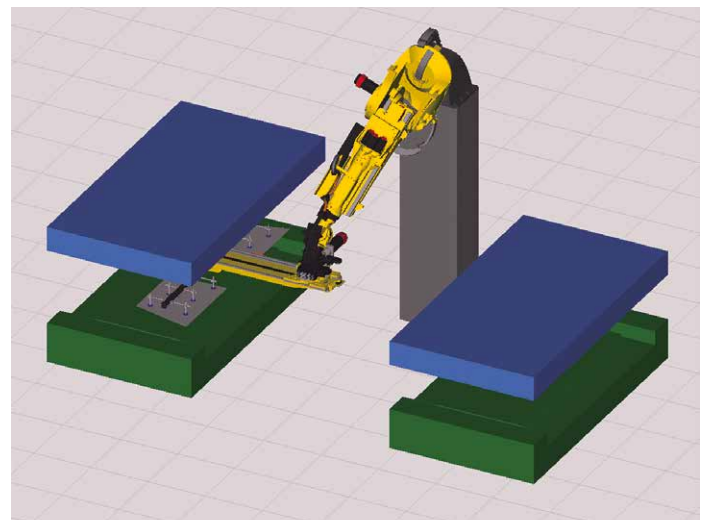
FANUC Robot TR-510iA is a high speed press tending robot.

- The combination of a 6-axis robot specially designed for press tending and a dedicated 2-axis tool, "Linear Press Tool" (LPT), achieves high-speed transferring.
- The LPT has a work tilting function at the tip, which contributes to increasing the degree of freedom in press-line and mold design.
- The LPT with 130kg payload capacity can handle the transferring of large size workpieces.
- Two types of LPT are available: standard stroke suitable for press to press transferring and short stroke suitable for front/end of line.
- With the same control/teaching interface and maintenance method as other FANUC robots, this robot can be smoothly introduced to customers familiar with FANUC robots.
- Rack mount installation does not require a large scale mounting equipment such as a ceiling mount.



Linear Press Tool (LPT)

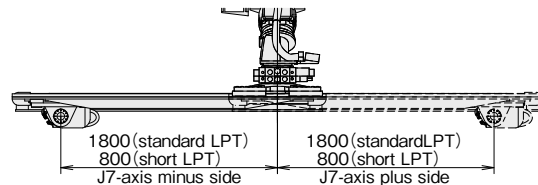
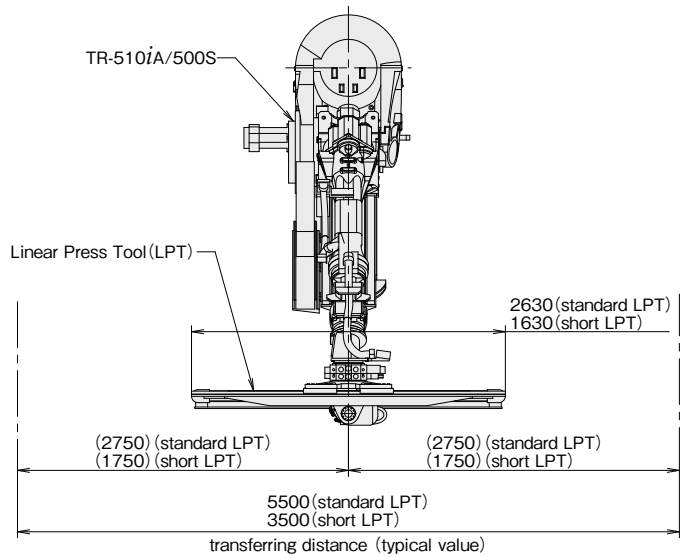
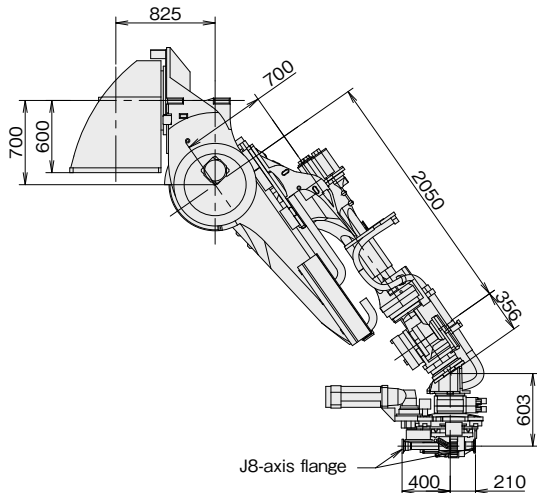
Application Example



Press to press transferring

Outer Dimension

TR-510iA/500S



Specifications

| Model | | TR-510iA/500S | | |
|--|---------|--|---------------------|--|
| Linear Press Tool (LPT) | | Standard | Short | |
| Controlled axes | | 6-axes robot + 2-axes LPT (J1, J2, J3, J4, J5, J6, J7, J8) | | |
| Transferring distance Note 1) | | 5500 mm | 3500 mm | |
| Installation | | Rack mount | | |
| Motion range (Maximum speed) Note 2) | J1 axis | 180° (92°/s) 3.14 rad (1.61 rad/s) | | |
| | J2 axis | 148° (30°/s) 2.58 rad (0.52 rad/s) | | |
| | J3 axis | 1050 mm (1300 mm/s) | | |
| | J4 axis | 720° (70°/s) 12.6 rad (1.22 rad/s) | | |
| | J5 axis | 230° (100°/s) 4.01 rad (1.75 rad/s) | | |
| | J6 axis | 720° (55°/s) 12.6 rad (0.96 rad/s) | | |
| | J7 axis | ±1800 mm (7000 mm/s) | ±800 mm (7000 mm/s) | |
| | J8 axis | 40° (120°/s) 0.70 rad (2.10 rad/s) | | |
| Max. load capacity of Linear Press Tool | | 130 kg | | |
| Max. load capacity on J3 casing | | 25 kg | | |
| Mass Note 3) | | 4350 kg | 4310 kg | |
| Installation environment | | Ambient temperature : 0 to 45°C Ambient humidity : Normally 75%RH or less (No dew, nor frost allowed) Short term 95%RH or less (within one month) Vibration acceleration : 4.9m/s ² (0.5G) or less | | |

Note 1) This is a typical value, and the applicable range changes depending on the load conditions.

Note 2) During short distance motions, the axis speed may not reach the maximum value stated.

Note 3) With LPT, without controller.

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