TROY TR Series

Composite Cobot

TR Series Composite Cobot, through the flexible coordina-tion of its "hand, eye, foot, and brain," achieves various functions such as movement, recognition, and grasping. It can be widely applied in scenarios like material handling, CNC machine loading/unloading, visual inspection, and equipment operation, efficiently completing various complex tasks or tasks between different workstations in the production and manufacturing process, building intelligent and flexi-ble production flows.



Machine Tool Processing



Semiconductor



Education

Product Introduction






Product Type	TR-CR-DS	TR-CR-DS-S	TR-CR-OS(R)	TR-CR-OS(S)
Dimensions	1100×700×780mm	1100×700×780mm	1200×700×800mm	1200×700×800mm
Chassis Weight	500kg	500kg	600kg	500kg
Max. Moving Speed	1.4m/s	1.4m/s	1.5m/s	1.4m/s
Travel Mode	Forward/Backward	Forward/Backward	Fwd/Bwd + Traverse	Fwd/Bwd + Traverse
Positioning Accuracy	±10mm, ±0.5°	±10mm, ±0.5°	±10mm, ±0.5°	±10mm, ±0.5°
Navigation Method	Laser SLAM 2, Front/Rear Diag.	Laser SLAM 2, Front/Rear Diag.	Laser SLAM 2, Front/Rear Diag.	Laser SLAM 2, Front/Rear Diag.
Operating Time	7h	7h	7h	7h
Battery Capacity	48V, 60AH	48V, 60AH	48V100AH(Main)+ 48V20AH(Sub)	48V100AH(Main)+ 48V5AH(Sub)
Charging Method	Charging	Charging	Charging + Swap	Charging + Swap
Payload*	12kg/20kg	12kg/20kg	12kg/20kg	12kg/20kg
Working Range	1413mm	1413mm	1413mm	1413mm

*Actual payload depends on the selected robot arm model.

Product Features

Adapts to Oily Environments

- Anti-slip tire design
- Reinforced support and suspension modifications
- ±10mm positioning accuracy on oily floors



Rapid Deployment

- Modular programs for easy replication
- Single machine tool debugging enables batch deployment



Flexibility and Agility

- Force control and mechanical accuracy compensation ensure end-effector precision
- Multiple 2D/3D engineered vision application solutions ensure accurate positioning
- Laser SLAM navigation technology enables automatic map building, requires no environmental modifications



High Protection Level

- End-effector IP67 rating, suitable for environments with oil splashing



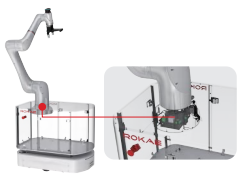
Safety and Reliability

- Real-time spatial obstacle detection
- 360° radar for all-around protection
- Robot collision detection
- Four-side emergency stop and anti-collision bumper protection



Open and Compatible

- No control cabinet design for enhanced overall flexibility
- Multi-sensor integration, adaptable to complex, highly dynamic work scenarios



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