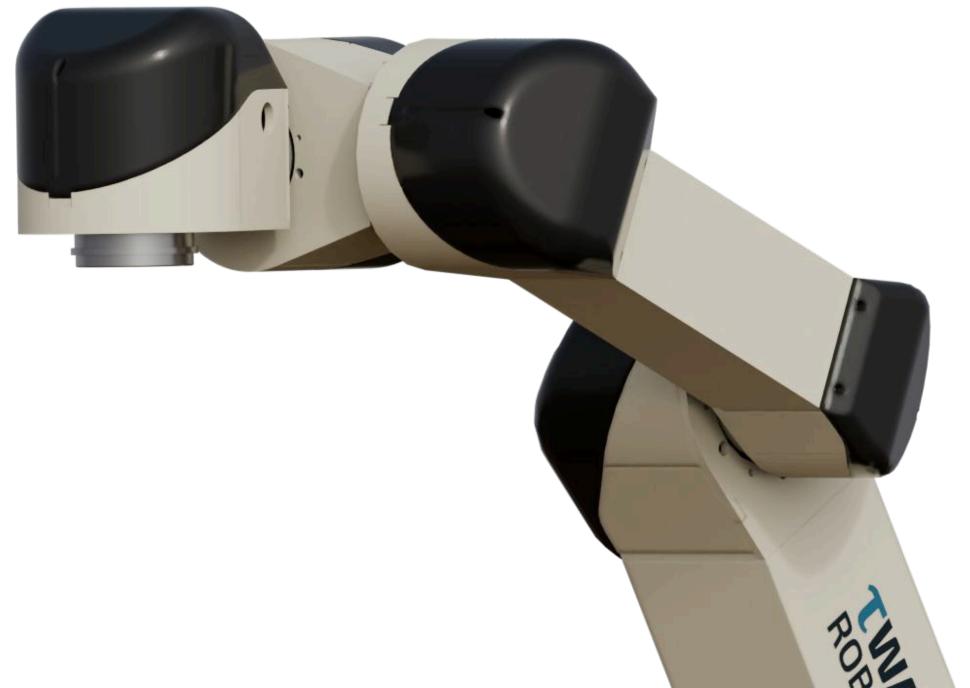
**TR5** Ruggedized 6 DOF Articulated Serial Robotic Manipulator







## **Robot specifications**

## **Technical data**

Description

Ruggedized 6 DOF Articulated Serial Robotic Manipulator

| Payload and Reach    | 5 Kg Payload Capacity at 700 - 1000 mm reach                                                                                                                 |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Weight        | 25-35 Kg                                                                                                                                                     |
| Reduction            | High precision Harmonic gearboxes                                                                                                                            |
| Safety               | Mechanical joint safety brakes for loss of power                                                                                                             |
| Voltage and Power    | 24V DC, 1000W                                                                                                                                                |
| Joint Rotation Range | Axis 1 - ±180°<br>Axis 2 - ±90°<br>Axis 3 - ±150°<br>Axis 4 - ±150°<br>Axis 5 - ±150°<br>Axis 6 - ±360°                                                      |
| Joint construction   | Brushless DC Motors controlled using FOC (field-oriented control) motor driver reduced by strain-wave gearboxes with solenoid actuated brake                 |
| Control system       | Hybrid (offline+online) programming, End-point<br>trajectory control and inherent collision avoidance,<br>User-friendly HMI with jogging mode, Job scheduler |
|                      |                                                                                                                                                              |



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