



**Yu: Technical Specification**

Maximum payload	7 kg
Reach	Maximum reach 850mm Maximum reach 1000mm (with 5kg payload)
Vision	Integrated 2D vision with two high-power LEDs Hochleistungs-LEDs
Sensitivity	Torque sensors in each axis
Machine learning and AI	Integrated neural processing unit (NPU)
Repeatability	0,05 mm
Typical velocity (TCP)	1,2 m/s
Maximum velocity (TCP)	2,0 m/s
Joint angle limits	Max.± 220° (depending on the robots configuration)
Maximum joint velocity	Joint 1: 141 °/s Joint 2: 141 °/s Joint 3: 169 °/s Joint 4: 180 °/s Joint 5: 180 °/s Joint 6: 180 °/s
Weight	29 kg
Protection class (robot and controller)	IP 54
Power supply	200-253 VAC, 47-63 Hz
Average power consumption	250 W
Maximum current	8 A @ 230 VAC
Environmental conditions	Temperature: 5–40 °C Humidity: 80 % RH (non-condensing)
User interface	Browser based programming interface Integrated python API with graphical UI-Builder

	Handguiding with 3 programmable Buttons
Safety functions (Certification will be based on EN ISO 10218-1, EN ISO 13849-1, PI d, Cat. 3)	<p>ES: Emergency Stop</p> <p>ED: Enabling Device</p> <p>OM: Operating Mode</p> <p>SLDS: Safely Limited Drive Speed</p> <p>SLDP: Safely Limited Drive Position</p> <p>SLDT: Safely Limited Drive Torque</p> <p>SLRP: Safely Limited Robot Power</p> <p>SLCP: Safely Limited Cartesian Position</p> <p>SLCO: Safely Limited Cartesian Orientation</p> <p>SLCS: Safely Limited Cartesian Speed</p> <p>PS: Protective Stop</p> <p>Configurable Safe I/Os</p>
Communication and protocols (Robot Control)	<p>16 DI, 16 DO, 4 AI, 4AO</p> <p>8 SafeDI, 4 SafeDO</p> <p>Ethernet , OPC UA based Gateway (SPS, Cloud, etc.)</p>
Communication and protocols (End of Arm)	<p>2 A max. power consumption (24V)</p> <p><b>M8-Interface (8 Pin):</b></p> <p>2 DI, 1 DO, 2 AI, 1DI/O</p> <p><b>Springprobe-Interface (wireless connection):</b></p> <p>2 DI, 3 DO, 2 AI, 1DI/O</p>
Hand controller	<p>Emergency stop</p> <p>Enabling Device</p> <p>Operation mode switch</p> <p>Power Button</p>