

COBOTARC | Collaborative Robot

S Series S-Pro

TORQUE SENSORS BUILT INTO ALL AXES, PERFORMANCE OF SAFETY AND MANUAL GUIDANCE IMPROVED COMPLETELY

More sensitive to collisions in all positions

Compliant hand guide

Supporting hand guide with fixed gestures

Easy programming by end display and customizable buttons, without teaching pendant.

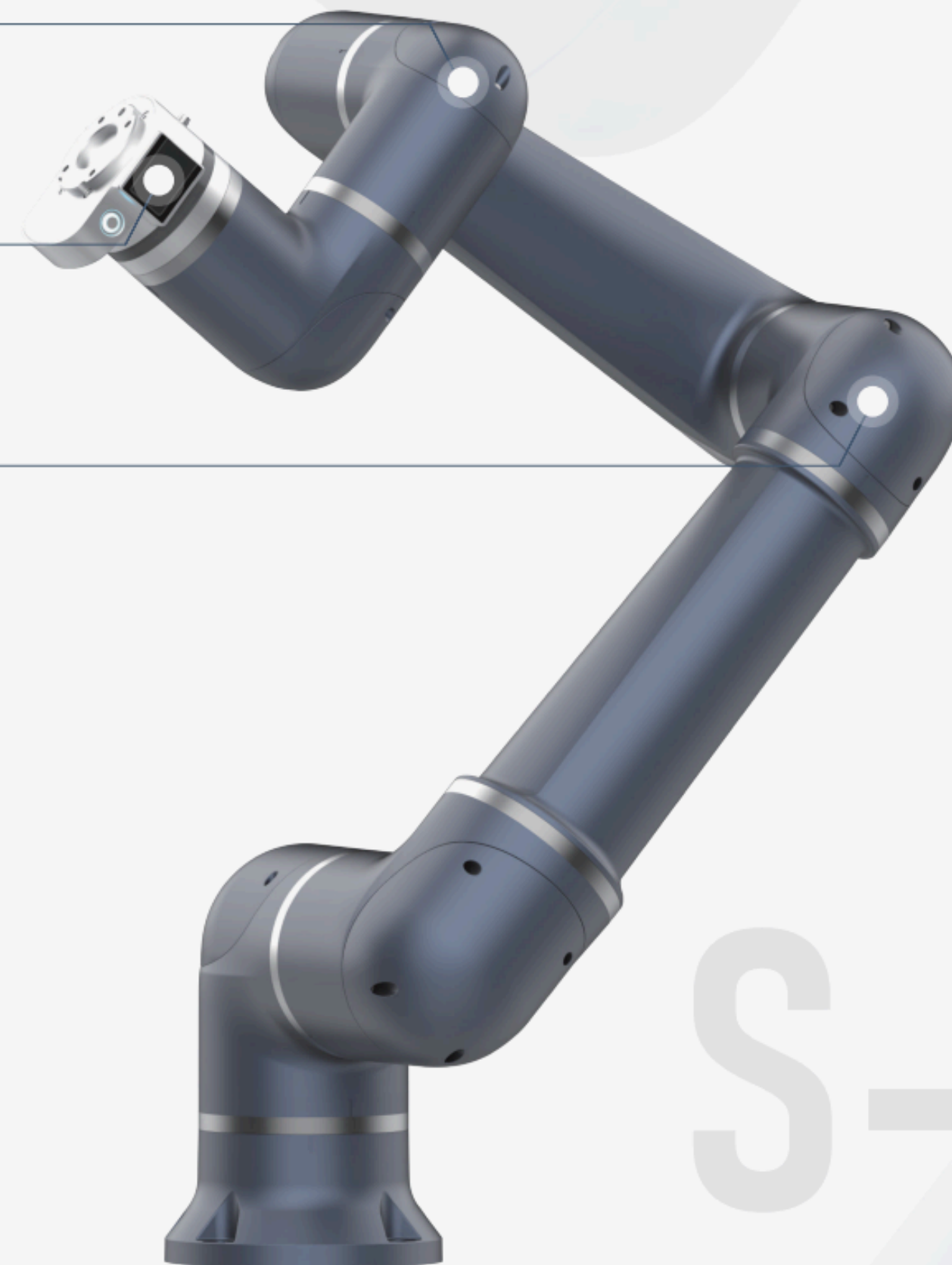
Encoder upgraded from 19-Bit ↗ 20-Bit
for more accurate position detection.

Drive performance improved again

▪ ↗ Rigidity 50% ▪ ↗ Lifespan 20%

New software architecture brings the latest achievements

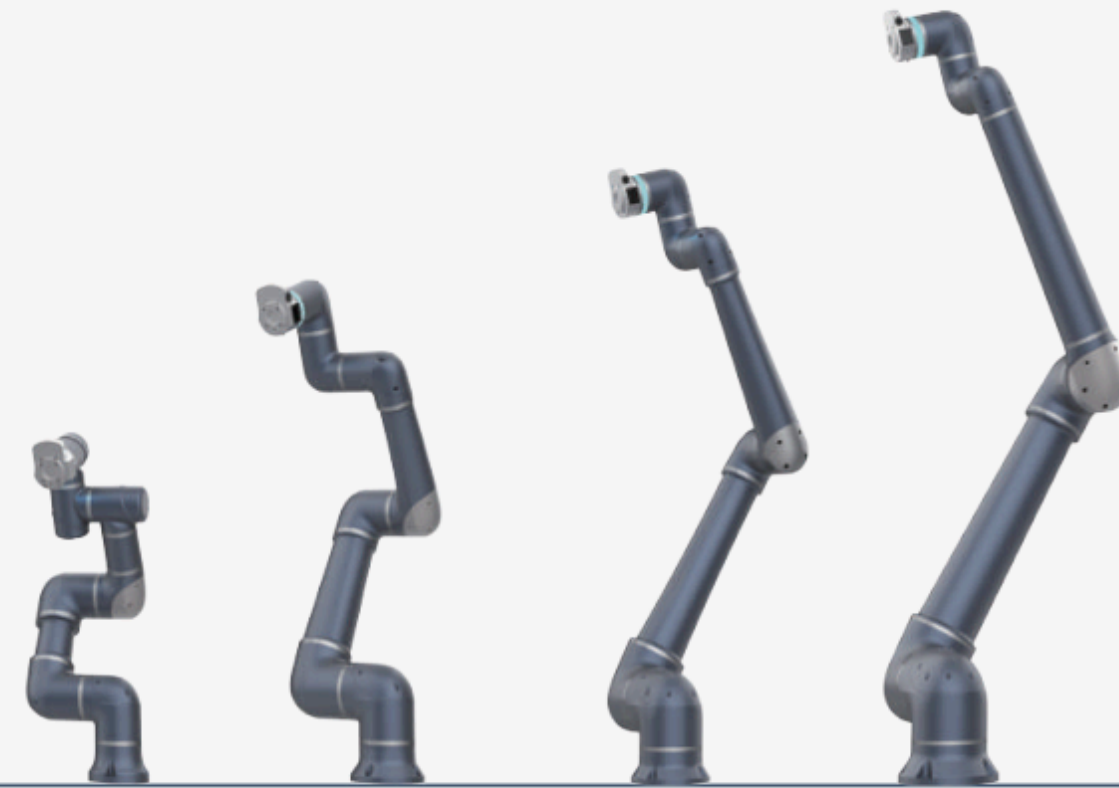
- Supporting extensions of force control kits
- New features added are accessible from updating



S-Pro

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Specifications



S-Pro

Model	S3-60 Pro	S5-90 Pro	S10-140 Pro	S20-180 Pro
DOF	6			
Payload (kg)	3	5	10	20
Reach of Arms (mm)	575.8	919	1400	1777.5
Repeatability (mm)	±0.03	±0.03	±0.03	±0.1
Dead Load (kg)	14	21	37	58
Torque Transducer Accuracy - Composition Error (F.S)	<2%			
Torque Sensor Accuracy - Repeatability Error (F.S)	<0.1%			
Safety	Adjustable collaborative drag mode and collision detection levels			
Certification	EN ISO 13849-1 PLd Cat.3 & EN ISO 10218-1			
IP Grade	IP54			
Max. Speed at Tool End (m/s)	2	2.5	2.5	3.2
Working Range	Axis1/2/4/5/6: ±360° Axis3: ±160°			
Max. Speed	[3、5、10kg] Axis1/2/3: 150 ° /s [20kg] Axis1/2: 110 ° /s Axis3: 150 ° /s Axis4/5/6: 180 ° /s			
Mounting	Mount at any angle			
Operating Temp.	0 – 50 ° C			
Operating Humidity	70% RH			
Flange Connector	ISO 9409-1-50-4-M6			
Flange Communication	2 DI, 2DO, 24VDC, MODBUS RTU, RS485			