



TBA

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TBA
THE BEST ACTUATOR



TBA is a powerful and light **actuator** with torque-control designed to be employed as a joint for **collaborative robots**.

TBA makes CoBots able to **overcome the conventional payload capabilities** and provides **excellent torque sensitives, thanks to the custom-made torque sensor**.

TBA is completely adaptable for high precise applications as for example **Medical, Robotics and Industrial ones**.

The reliability and performances of TBA are guaranteed by **high-quality lightweight materials and precise finishing**.

TBA is extremely **robust** and completely **maintenance-free**.

Ultra-light and compact

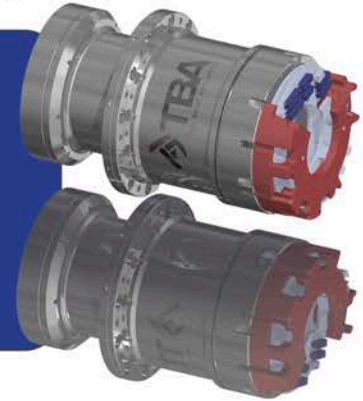
Size and weight are reduced to a minimum thanks to the perfect integration of all mechatronics components.

Highly precise

The custom developed torques sensor ensures an accurate motion and enable a very sensitive collision detection.

Powerful and safety oriented

The actuator chain includes powerful electric motors and is designed to be compliant with the highest safety standards.



Technical specifications

Joint Type	TBA - 32	TBA - 25
Gearbox type	Harmonic Reducer	Harmonic Reducer
Ratio available	160	120
Motor	BLDC	BLDC
Motor controller	Synapticon Circulo 9	Synapticon Circulo 9
Rated motor speed [rpm]	2805	2805
Max motor speed [rpm]	3500	3500
Power [Watt]	1400	1400
Reted Torque [Nm]	180	140
Peak Torque [Nm]	550	420
Encoder on motor axis or on both gearbox axes	Absolute 20 Bit + Absolute 19 Bit	Absolute 20 Bit + Absolute 19 Bit
Brake system	Clutch	Clutch
Torque Sensor	fully integrated	fully integrated
Weight [Kg]	2,4	2,2
Length [mm]	175	175
Diameter [mm]	110	110
Hollow shaft diameter	40	40
Supply Voltage	48	48
Fieldbus	EtherCAT - CiA 402	EtherCAT - CiA 402
Motor control board Safety Function	STO/SBC according to SIL 3, PL e	STO/SBC according to SIL 3, PL e

