DELTA RLP4-300-0,5kg

Article number: A_00602



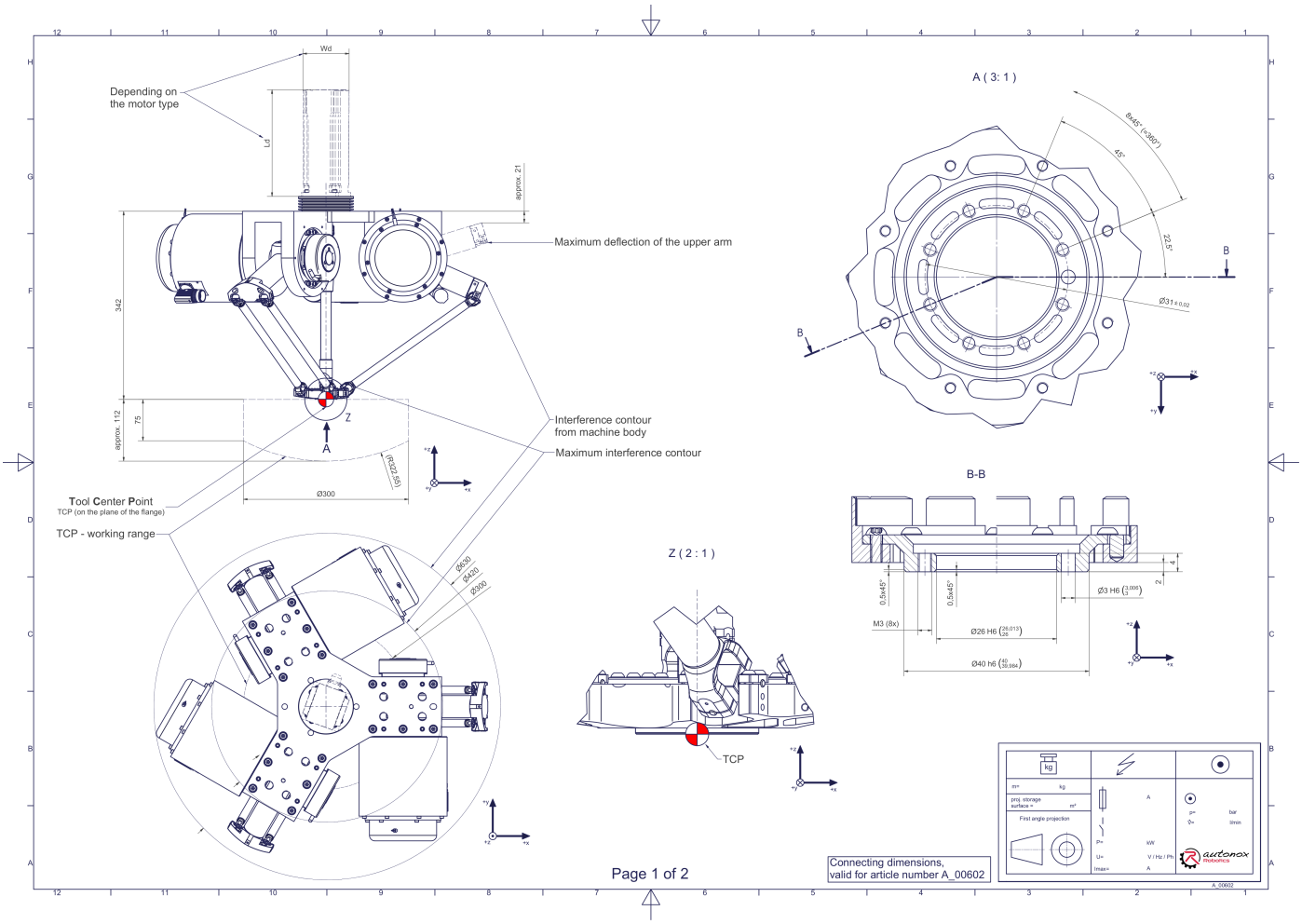
ULTRA PRECISION

Description:

This type of robot is based on the principle of parallel kinematics. All drives are mounted in a fixed position on the robot head. Motor cables are not moved. The robot has three (3) translational and one (1) rotational degree(s) of freedom. **Highlight** This robot mechanic is suitable for applications that require maximum repeatability, absolute accuracy and path accuracy in the 1/1000 mm range thanks to its high-end direct drives and high-precision joints. **Scope of delivery**

Robot mechanics incl. upper arm motors, Servo motor adapter, Threaded protection caps , Transport and packing instructions

Connecting dimensions:



Downloads: Connecting dimensions (PDF) 3D model (STP) 3D model (PDF)

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Technical specifications:

Field of application	Standard (not hygienic), Precision
Kinematics	Parallel
Translatory Degrees of Freedom (X,Y,Z)	3
Rotational Degrees of Freedom (α,ß,γ)	1
Nominal payload [kg|lbs] *	0,5 | 1.1
Working area-diameter [mm|in]	300 | 11.8
Working height outside [mm|in]	75 | 3.0
Working height center [mm|in]	112 | 4.4
Pose repeatability (RP) according to ISO 9283 [mm] **	+/- 0,005
Max. acceleration torque of the rotation γ around Z at the output [Nm|in.lbs]	3 | 26.6
Nominal torque of the rotation γ around Z at the output [Nm|in.lbs]	1,5 | 13.3
Max. speed of the rotation γ around Z at the output [1/min]	800
Nominal speed of the rotation γ around Z at the output [1/min]	800
Bearing type of the telescopic shaft(s)	Roller bearing
Bearing type of the arm joints	Roller bearing
Cleaning	No high pressure
Ambient temperature [°C|°F]	0 to +40 | +32 to +104
Relative humidity level [%]	95 (free of condensation)
Mounting position	Floor, Ceiling, Wall (on request), Angle (on request)
Robot weight incl. drive engineering of the upper arm [kg|lbs]	92 | 202.8
Special features	High-end direct drives and high-precision joints for maximum repeatability, absolute accuracy and path accuracy in the 1/1000 mm range

* All given values are nominal values (nominal payload referred to a nominal performance) and can vary under realworld conditions depending on the application (tool specifications, load distances, reduction (partly) of the nominal performance when using food-grade lubricants, ...). Please consider our technical data sheets regarding the load capacity.

** The accuracy achievable in practice depends, among other factors, on the control system used, as well as its parameter settings and control performance, and may therefore differ from the values stated here.

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