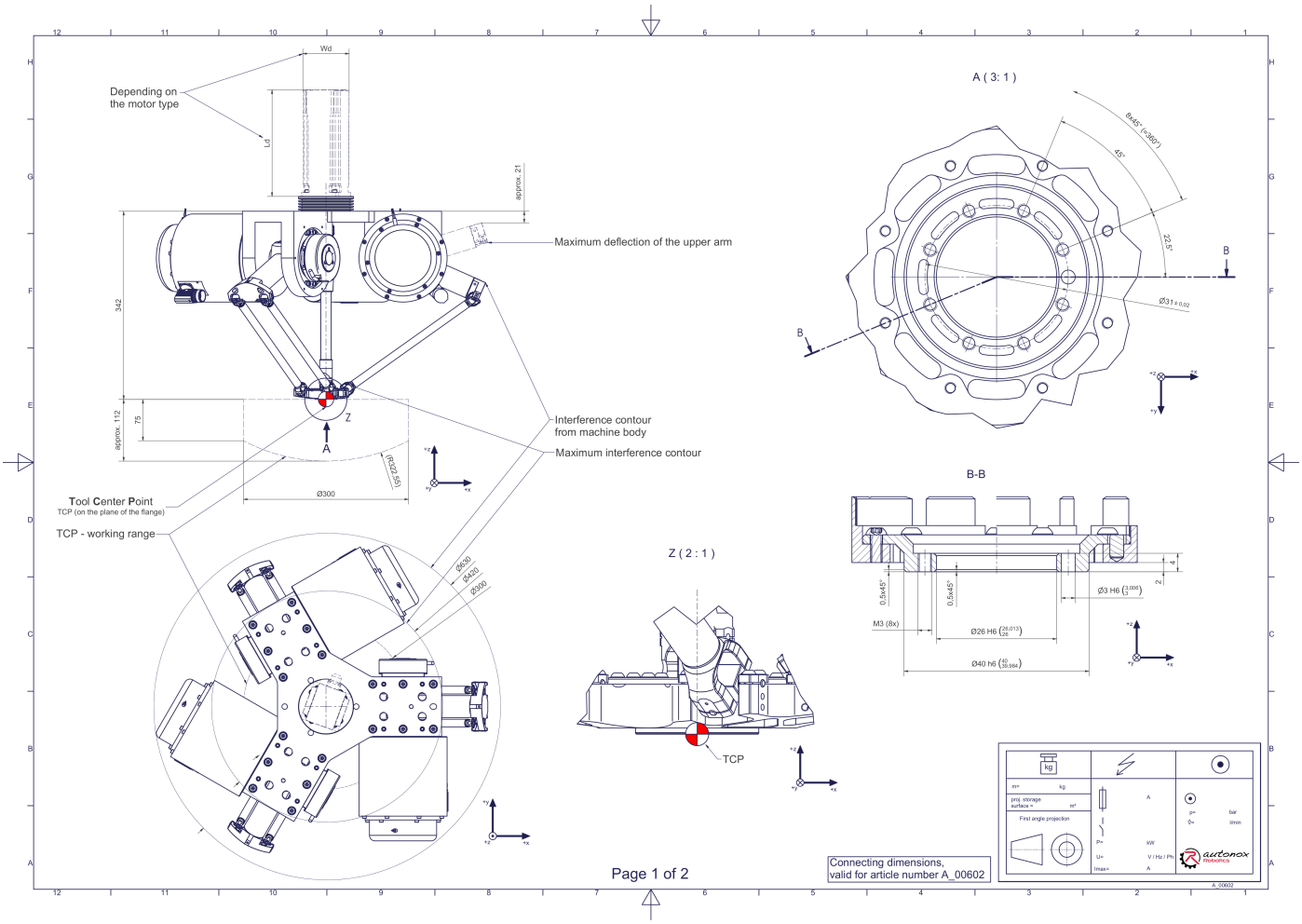
DELTA RLP4-300-0,5kg

Article number: A_00602

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)

Technical specifications:

Field of application	Standard (not hygienic)
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.