

# DELTA RLP4-300-0,5kg

Article number: A\_00602

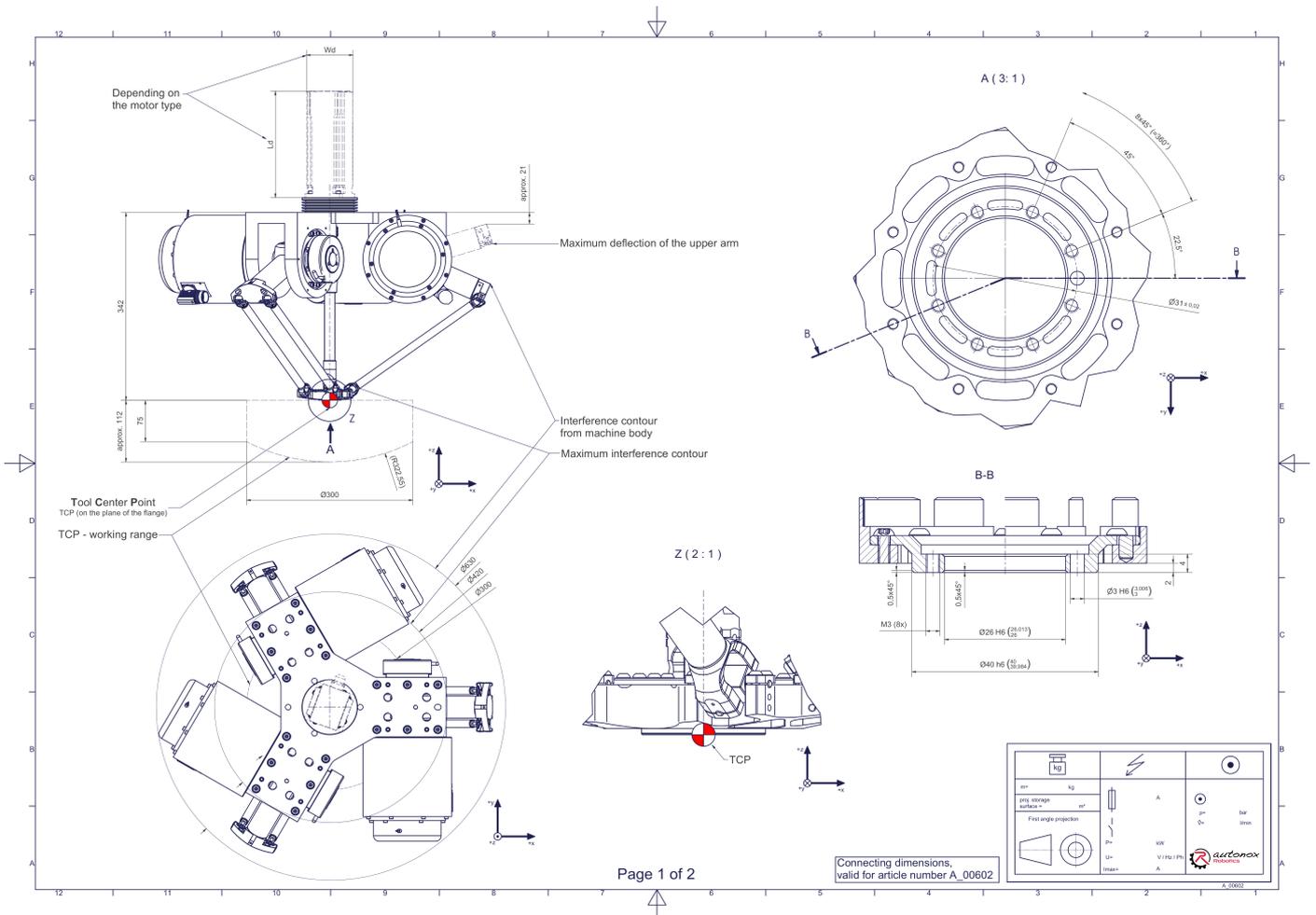


### Description:

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 \(PDF\)](#)

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## Technical specifications:

Field of application	Standard (not hygienic)
Kinematics	Parallel
Translatory Degrees of Freedom (X,Y,Z)	3
Rotational Degrees of Freedom ( $\alpha,\beta,\gamma$ )	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
Max. acceleration torque of the rotation $\gamma$ around Z at the output [Nm   in.lbs]	3   26.6
Nominal torque of the rotation $\gamma$ around Z at the output [Nm   in.lbs]	1,5   13.3
Max. speed of the rotation $\gamma$ around Z at the output [1/min]	800
Nominal speed of the rotation $\gamma$ 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
Lubricants of the bearings	Synthetic
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.