DELTA RL4-600-3kg

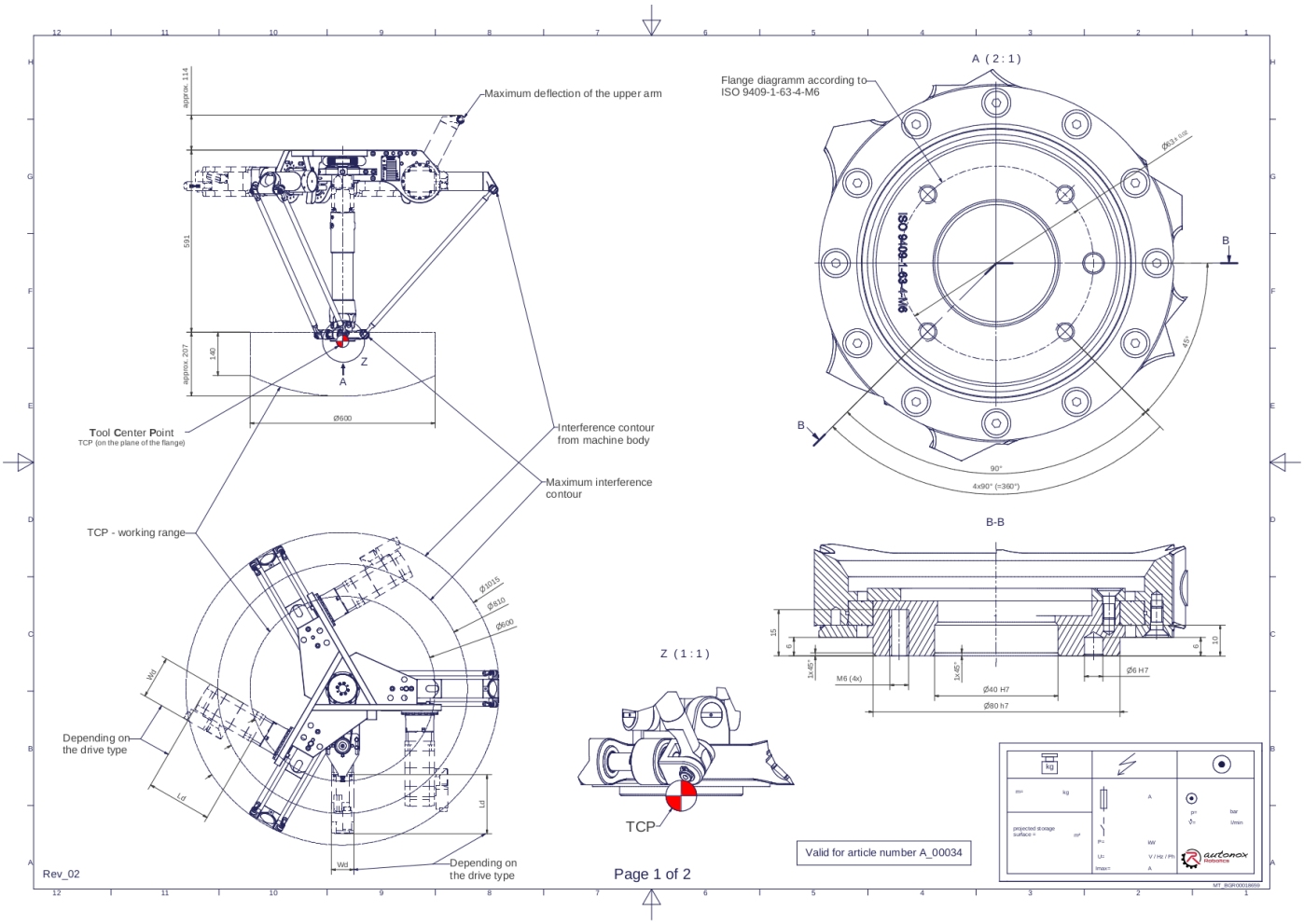
Article number: A_00034

Lubricant variant: Synthetic lubricants

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.

Scope of delivery:
Robot mechanics incl. gearbox, 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] *	3 | 6.6
Working area-diameter [mm|in]	600 | 23.6
Working height outside [mm|in]	140 | 5.5
Working height center [mm|in]	207 | 8.1
Max. acceleration torque of the rotation γ around Z at the output [Nm|in.lbs]	40 | 354.0
Nominal torque of the rotation γ around Z at the output [Nm|in.lbs]	36 | 318.6
Max. speed of the rotation γ around Z at the output [1/min]	321
Nominal speed of the rotation γ around Z at the output [1/min]	214
Bearing type of the telescopic shaft(s)	Roller bearing
Bearing type of the arm joints	Roller bearing
Lubricants of the gearboxes	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 without drive engineering (esp. drive) [kg|lbs]	39 | 86.0
Special features	All drives (gearbox, reduction gearing, ...) are located below the head plate. Increased torque is available for Z rotation.Advantages: Easily accessible, easy to maintain, compact, high accelerations/decelerations around Z

* 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.

Gearbox article number for this robot mechanics:

Function	Article number	Document
Drive of the upper arms	MT_BGR00013366-xx	Operating manual gearbox type 3 (PDF)
Drive of the telescopic shaft for rotation γ around Z	MT_BGR00018232-xx	Operating manual gearbox type 1 (PDF)