DELTA RL5-1750-1kg



Article number: A_00048-FO

Lubricant variant: Food-grade lubricants (FO)

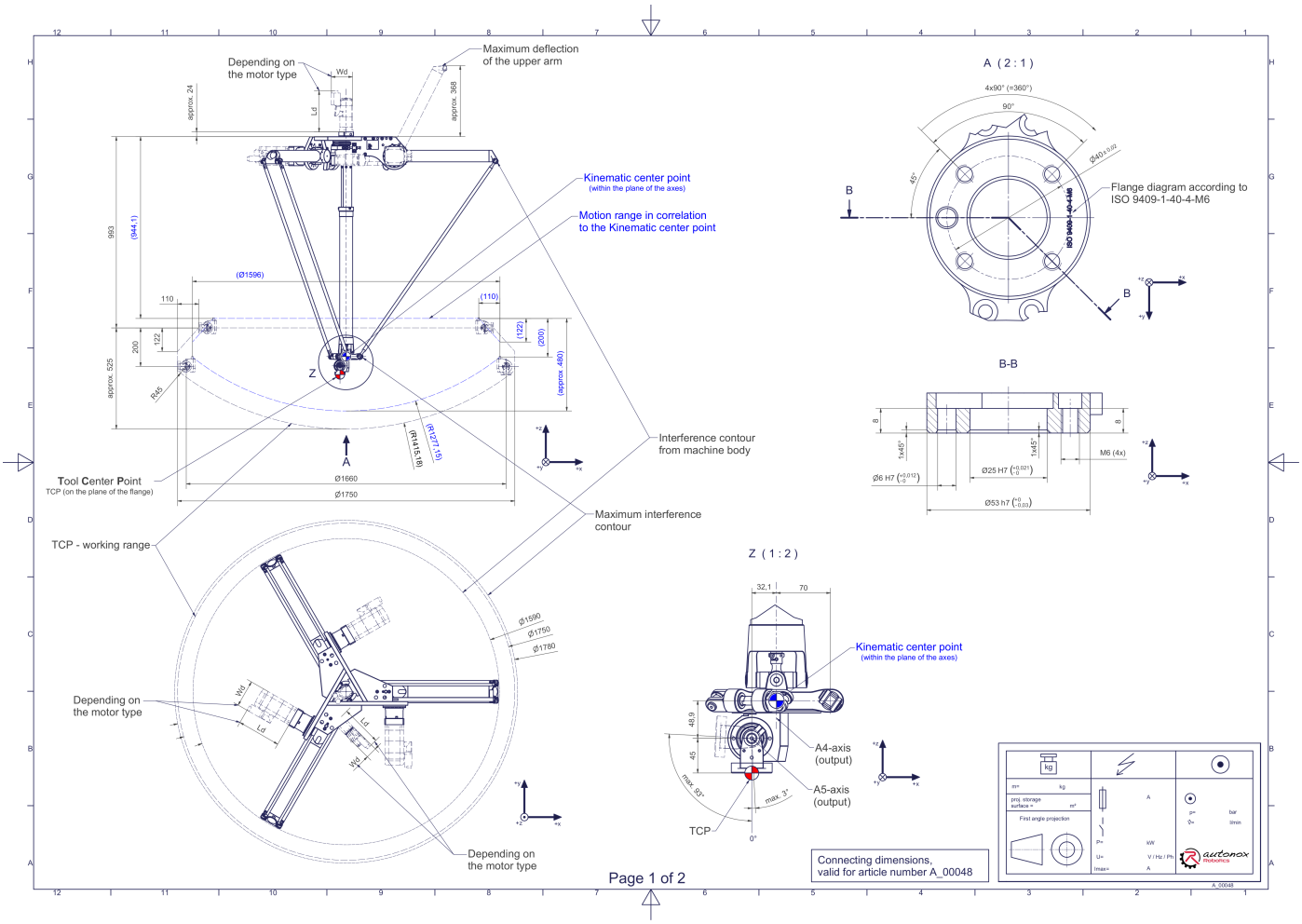
Description:

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 two (2) rotational degrees 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)

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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 (α,ß,γ)	2
Nominal payload [kg|lbs] *	1 | 2.2
Working area-diameter [mm|in]	1750 | 68.9
Working height outside [mm|in]	200 | 7.9
Working height center [mm|in]	525 | 20.7
Max. acceleration torque of the rotation α/β around X/Y at the output [Nm|in.lbs]	16 | 141.6
Nominal torque of the rotation α/β around X/Y at the output [Nm|in.lbs]	16 | 141.6
Max. speed of the rotation α/β around X/Y at the output [1/min]	124
Nominal speed of the rotation α/β around X/Y at the output [1/min]	124
Max. acceleration torque of the rotation γ around Z at the output [Nm|in.lbs]	13 | 115.1
Nominal torque of the rotation γ around Z at the output [Nm|in.lbs]	12,4 | 109.7
Max. speed of the rotation γ around Z at the output [1/min]	500
Nominal speed of the rotation γ around Z at the output [1/min]	380
Bearing type of the telescopic shaft(s)	Roller bearing: rotation α/β around X/Y; Journal bearing: rotation γ around Z
Bearing type of the arm joints	Roller bearing
Lubricants of the bearings	Food-grade (FO)
Lubricants of the gearboxes	Food-grade (FO)
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)

* 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.

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