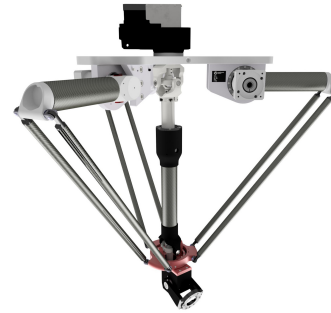


DELTA RL5-1450-6kg

Article number: A_00802

Lubricant variant: Synthetic lubricants



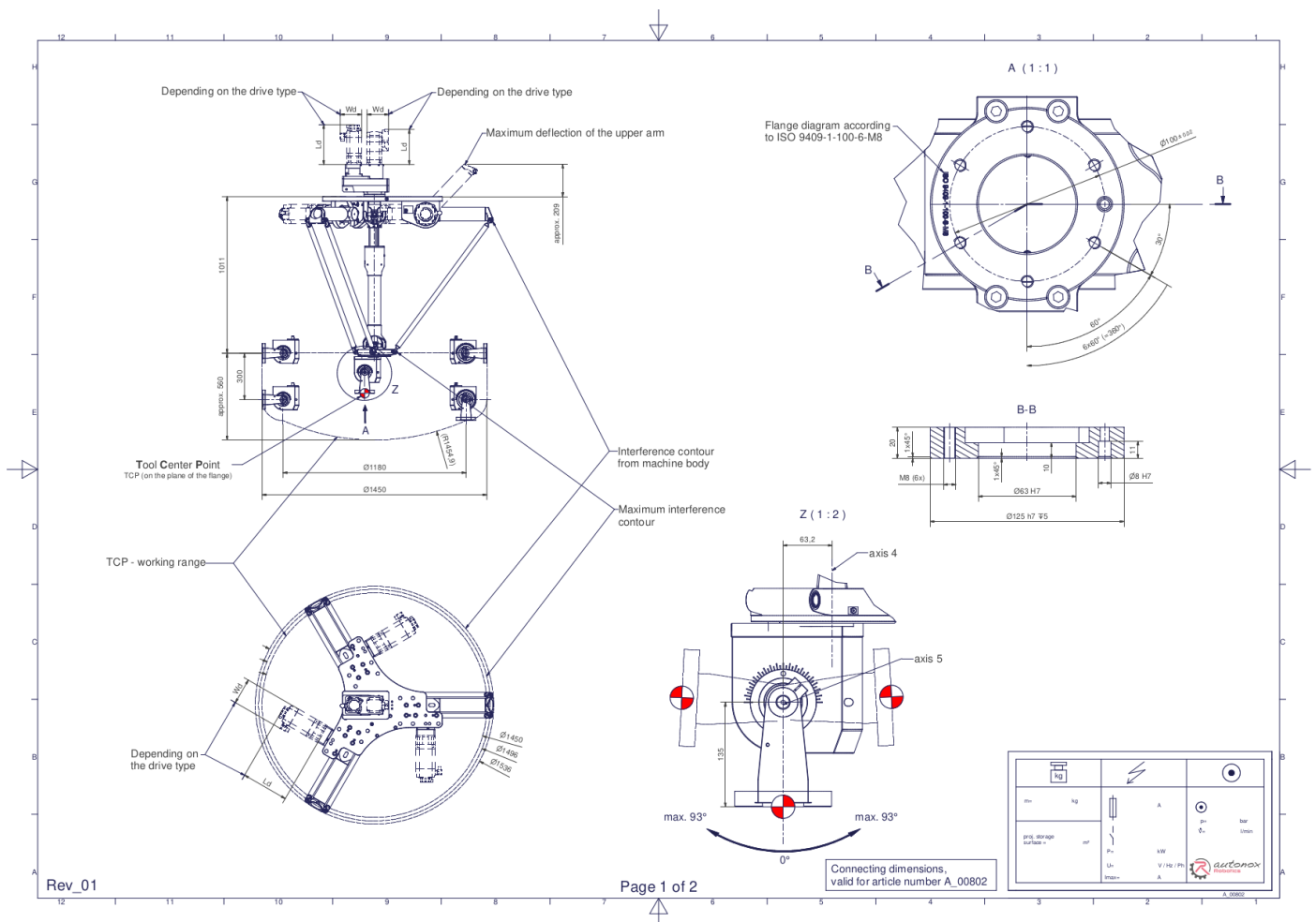
Description:

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 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 \(PDF\)](#).

We refer to our [General Terms of Sale and Supply](#) and [Terms of use](#).

Technical specifications:

Field of application	Standard (not hygienic)
Kinematics	Parallel
Translatory Degrees of Freedom (X,Y,Z)	3
Rotational Degrees of Freedom (α, β, γ)	2
Nominal payload [kg lbs] *	6 13.2
Working area-diameter [mm in]	1450 57.1
Working height outside [mm in]	300 11.8
Working height center [mm in]	560 22.0
Max. acceleration torque of the rotation α/β around X/Y at the output [Nm in.lbs]	135 1194.9
Nominal torque of the rotation α/β around X/Y at the output [Nm in.lbs]	135 1194.9
Max. speed of the rotation α/β around X/Y at the output [1/min]	77
Nominal speed of the rotation α/β around X/Y at the output [1/min]	77
Max. acceleration torque of the rotation γ around Z at the output [Nm in.lbs]	240 2124.2
Nominal torque of the rotation γ around Z at the output [Nm in.lbs]	240 2124.2
Max. speed of the rotation γ around Z at the output [1/min]	177
Nominal speed of the rotation γ around Z at the output [1/min]	124
Bearing type of the telescopic shaft(s)	Roller bearing
Bearing type of the arm joints	Roller bearing
Lubricants of the bearings	Synthetic
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]	130 286.6

* 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_BGR00017292-U-xx	Operating manual gearbox type 3 (PDF)
Drive of the telescopic shaft for rotation γ around Z	MT_BGR00018858-xx	Operating manual gearbox type 7 (PDF)

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