DELTA RL5-1900-12kg

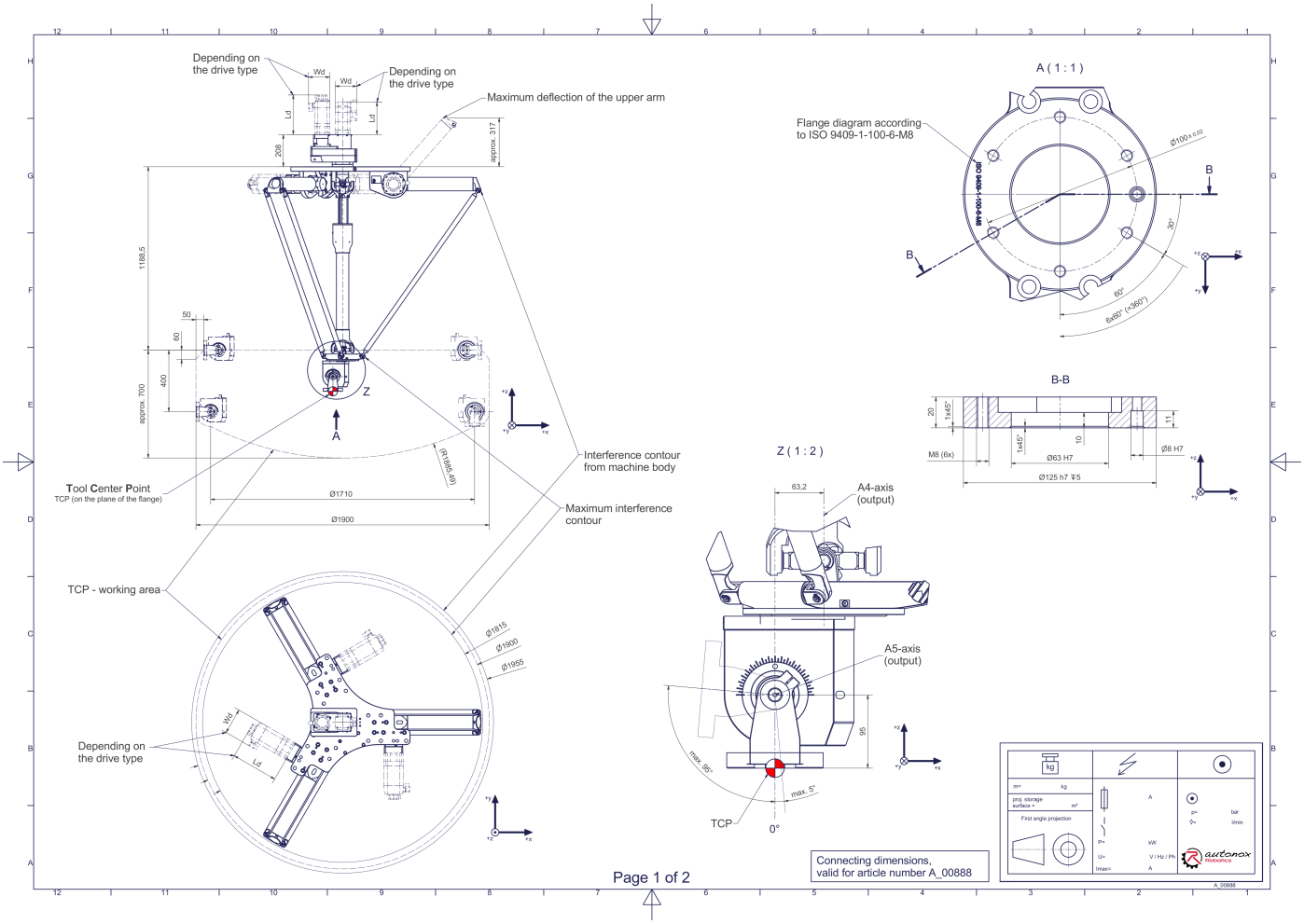
Article number: A_00888

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)

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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] *	12 | 26.5
Working area-diameter [mm|in]	1900 | 74.8
Working height outside [mm|in]	400 | 15.7
Working height center [mm|in]	700 | 27.6
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 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)

* 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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