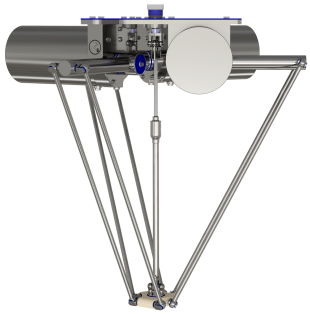
HHD DELTA RL4-1120-3kg



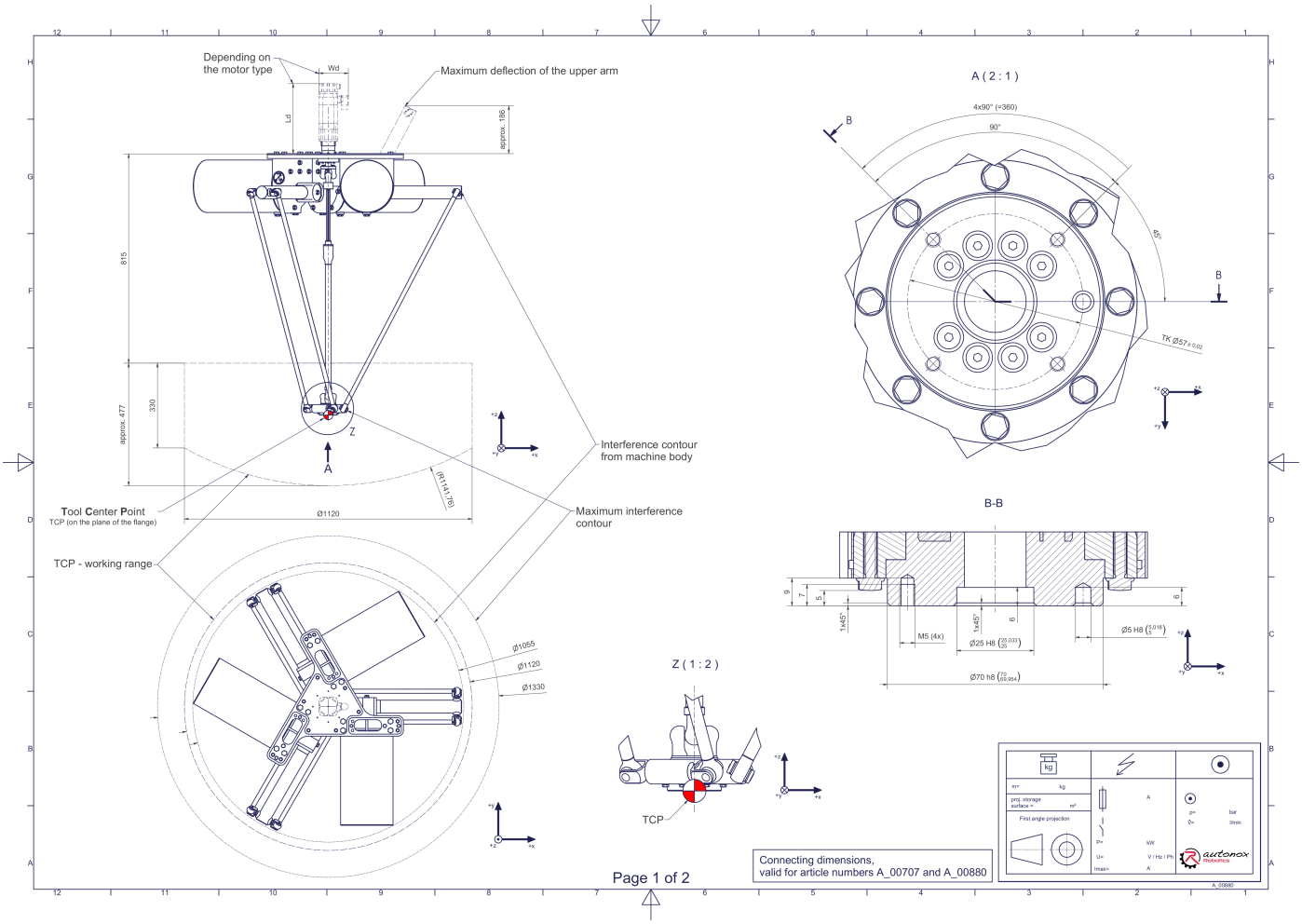
Article number: A_00880

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, 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	Hygienic 'HHD'
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]	1120 | 44.1
Working height outside [mm|in]	330 | 13.0
Working height center [mm|in]	477 | 18.8
Max. acceleration torque of the rotation γ around Z at the output [Nm|in.lbs]	6 | 53.1
Nominal torque of the rotation γ around Z at the output [Nm|in.lbs]	4,8 | 42.5
Max. speed of the rotation γ around Z at the output [1/min]	800
Nominal speed of the rotation γ around Z at the output [1/min]	460
Bearing type of the telescopic shaft(s)	Roller bearing
Bearing type of the arm joints	Roller bearing
Lubricants of the bearings	Food-grade (FO)
Lubricants of the gearboxes	Gearbox of the upper arms: Synthetic; gearbox of the telescopic shaft: Food-grade (FO)
Cleaning	Up to 28 bar | 406 psi high pressure
Protection class	IP69K
Ambient temperature [°C|°F]	0 to +40 | +32 to +104
Relative humidity level [%]	95 (free of condensation)
Mounting position	Ceiling, Wall (on request), Angle (on request)
Robot weight without drive engineering (esp. motors) [kg|lbs]	85 | 187.4

* 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_WST00104439-xx-FO	Operating manual gearbox type 1 (PDF)

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