

DELTA RL4-900-3kg

Article number: A_00037-FO

Lubricant variant: Food-grade lubricants (FO)



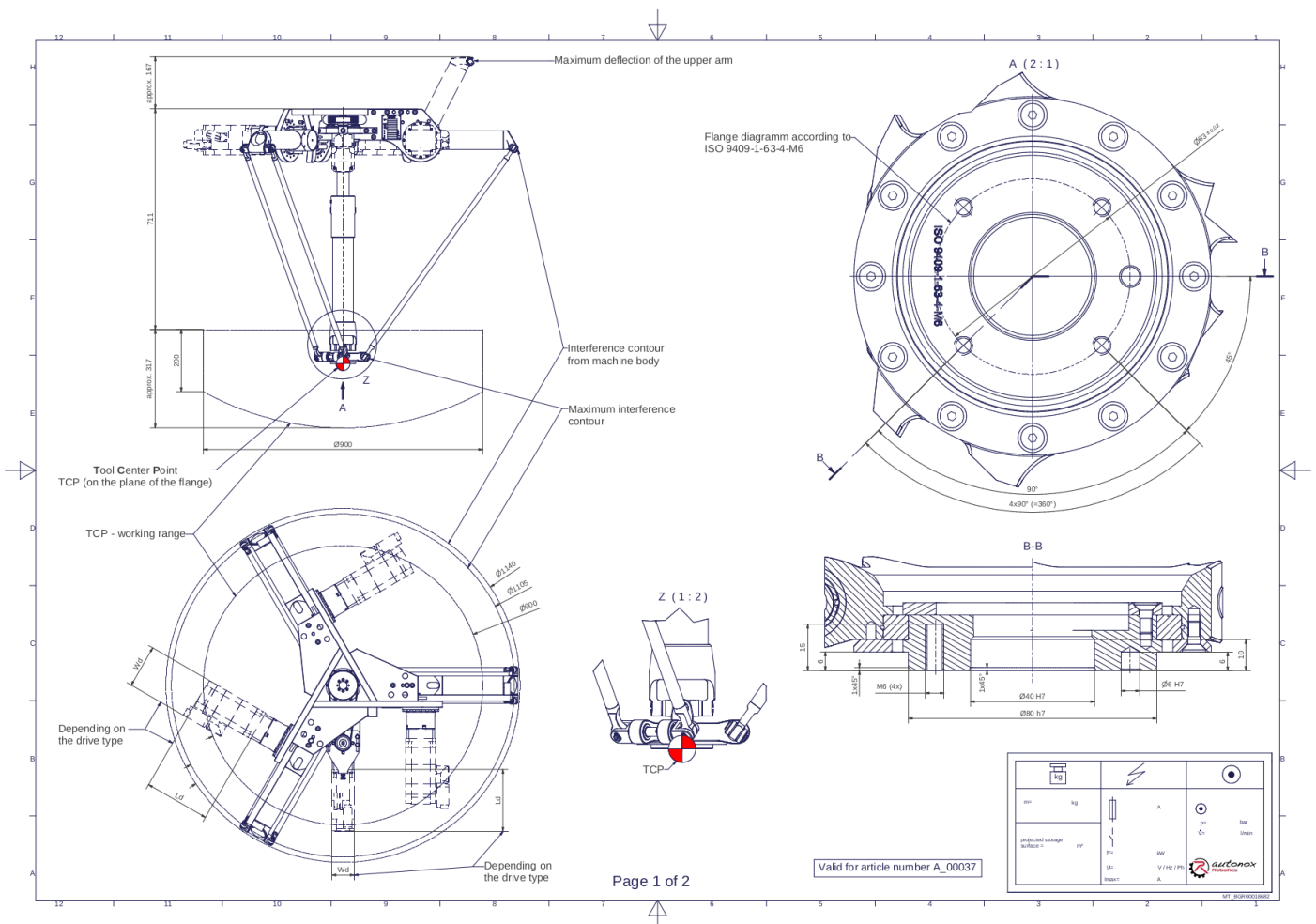
Description:

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 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 \(PDF\)](#)

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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, β, γ)	1
Nominal payload [kg lbs] *	3 6.6
Working area-diameter [mm in]	900 35.4
Working height outside [mm in]	200 7.9
Working height center [mm in]	317 12.5
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 bearings	Food-grade (FO)
Lubricants of the gearboxes	Food-grade (FO)
Cleaning	No high pressure
Ambient temperature [$^{\circ}\text{C}$ $^{\circ}\text{F}$]	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_BGR00015703-xx-FO	Operating manual gearbox type 3 (PDF)
Drive of the telescopic shaft for rotation γ around Z	MT_WST00121001-xx-FO	Operating manual gearbox type 1 (PDF)

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