

# DELTA RL4-1600-3kg

Article number: A\_00805-FO Lubricant variant: Food-grade lubricants (FO)



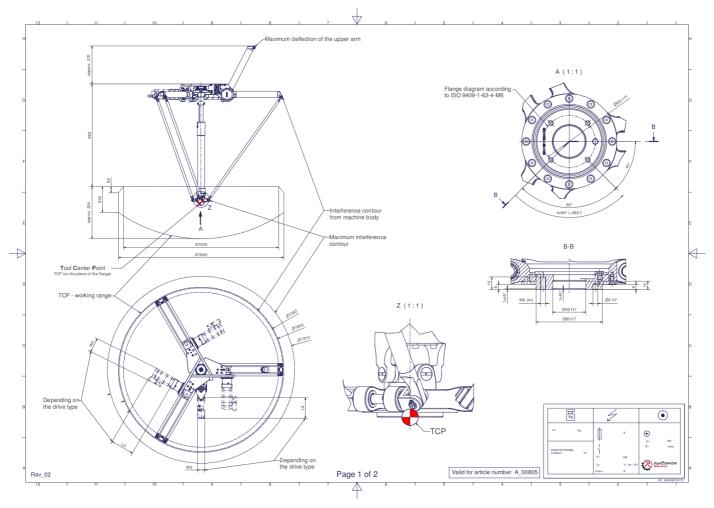
## **Description:**

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]	1600   63.0
Working height outside [mm in]	250   9.8
Working height center [mm in]	504   19.8
Max. acceleration torque of the rotation <b>y</b> around <b>Z</b> at the output [Nm in.lbs]	40   354.0
Nominal torque of the rotation <b>y</b> around <b>Z</b> at the output [Nm in.lbs]	33   292.1
Max. speed of the rotation y around Z at the output [1/min]	225
Nominal speed of the rotation <b>y</b> around <b>Z</b> at the output [1/min]	150
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 [°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]	43   94.8
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.

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