

# DELTA RL4-1200-3kg

Article number: A\_00036-FO

**Lubricant variant:** Food-grade lubricants (FO)



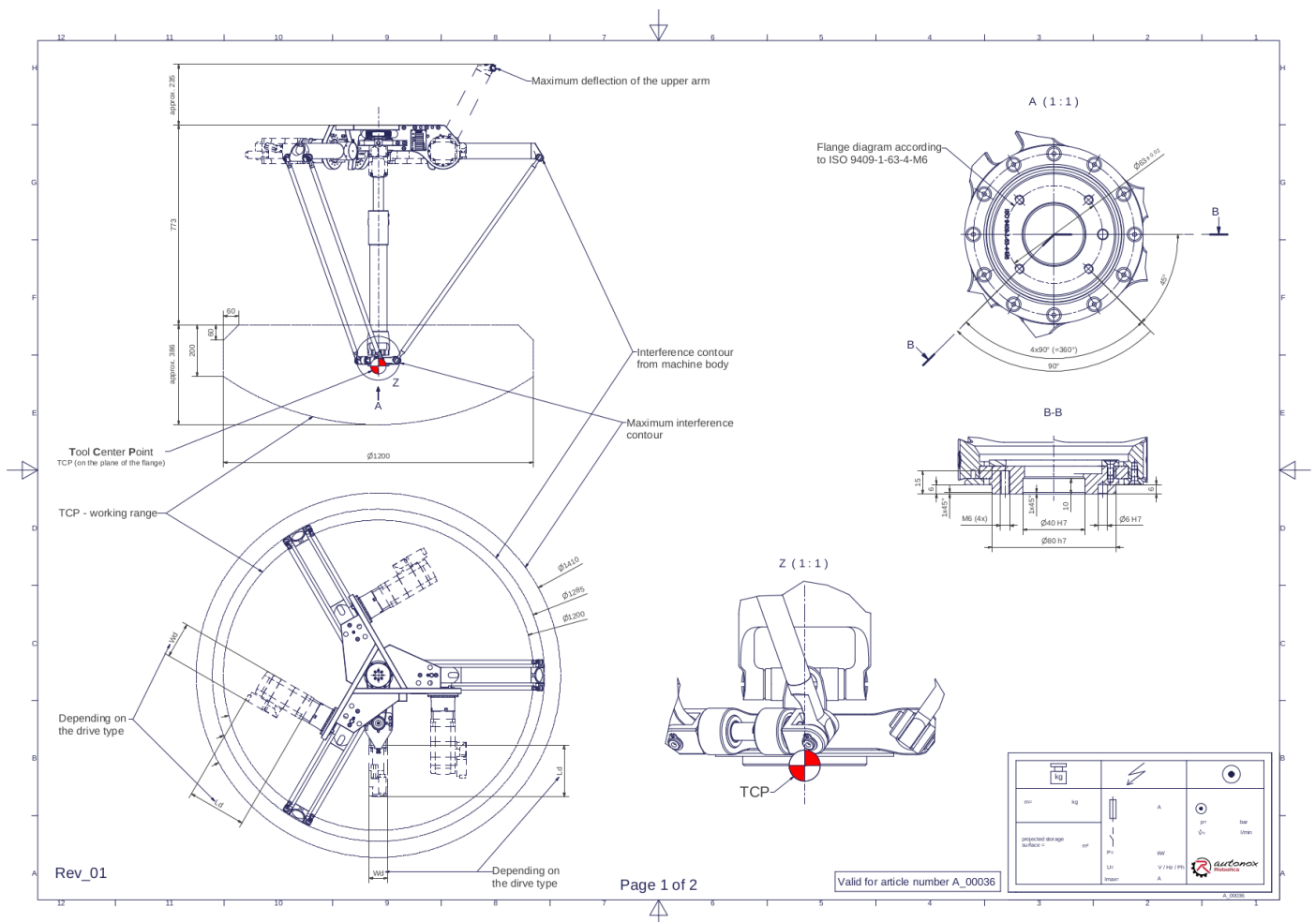
**Description:**

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 \(PDF\)](#).

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 ( $\alpha, \beta, \gamma$ )	1
Nominal payload [kg lbs] *	3   6.6
Working area-diameter [mm in]	1200   47.2
Working height outside [mm in]	200   7.9
Working height center [mm in]	386   15.2
Max. acceleration torque of the rotation $\gamma$ around Z at the output [Nm in.lbs]	40   354.0
Nominal torque of the rotation $\gamma$ around Z at the output [Nm in.lbs]	36   318.6
Max. speed of the rotation $\gamma$ around Z at the output [1/min]	321
Nominal speed of the rotation $\gamma$ 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 [°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]	41   90.4
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.