

# DELTA RL4-T1-1400-12kg

Article number: A\_00829-T1-FO

Lubricant variant: Food-grade lubricants (FO)



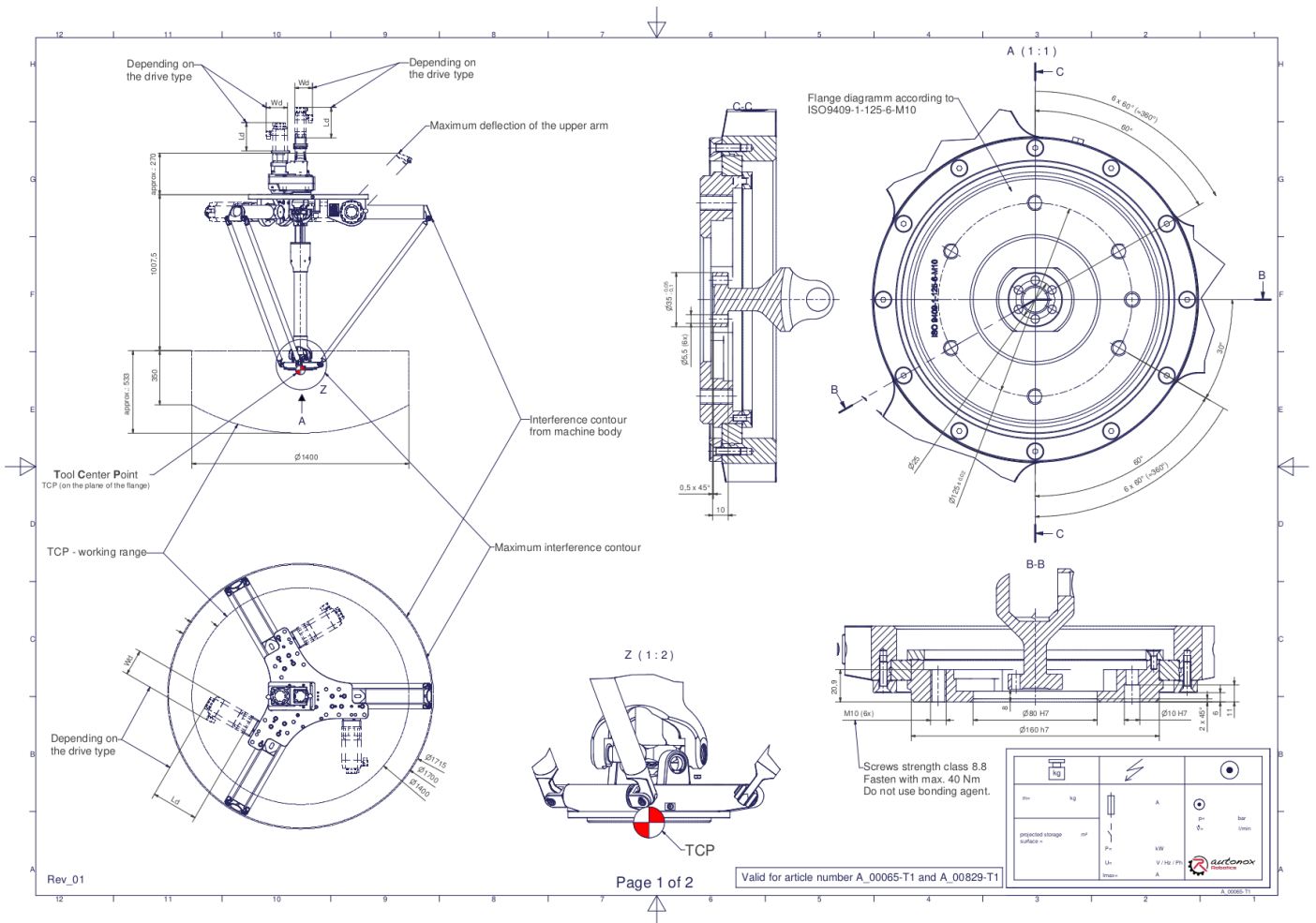
**Description:**

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] *   | 12   26.5   |
| Working area-diameter [mm   in]  | 1400   55.1   |
| Working height outside [mm   in]   | 350   13.8  |
| Working height center [mm   in]  | 533   21.0  |
| Output type of the tool actuation  | Flange (T)  |
| Number of the tool actuation (telescopic shaft(s))                                     | 1   |
| Max. acceleration torque of the rotation $\gamma$ around Z at the output [Nm   in.lbs] | 240   2124.2  |
| Nominal torque of the rotation $\gamma$ around Z at the output [Nm   in.lbs]           | 240   2124.2  |
| Max. speed of the rotation $\gamma$ around Z at the output [1/min]                     | 177   |
| Nominal speed of the rotation $\gamma$ around Z at the output [1/min]                  | 124   |
| Max. acceleration torque of the tool actuation T/TS1 at the output [Nm   in.lbs]       | 40   354.0  |
| Nominal torque of the tool actuation T/TS1 at the output [Nm   in.lbs]                 | 23   203.6  |
| Max. speed of the tool actuation T/TS1 at the output [1/min]                           | 171   |
| Nominal speed of the tool actuation T/TS1 at the output [1/min]                        | 114   |
| 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]                         | 125   275.6   |

\* 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.