# DELTA RL4-2000-20kg

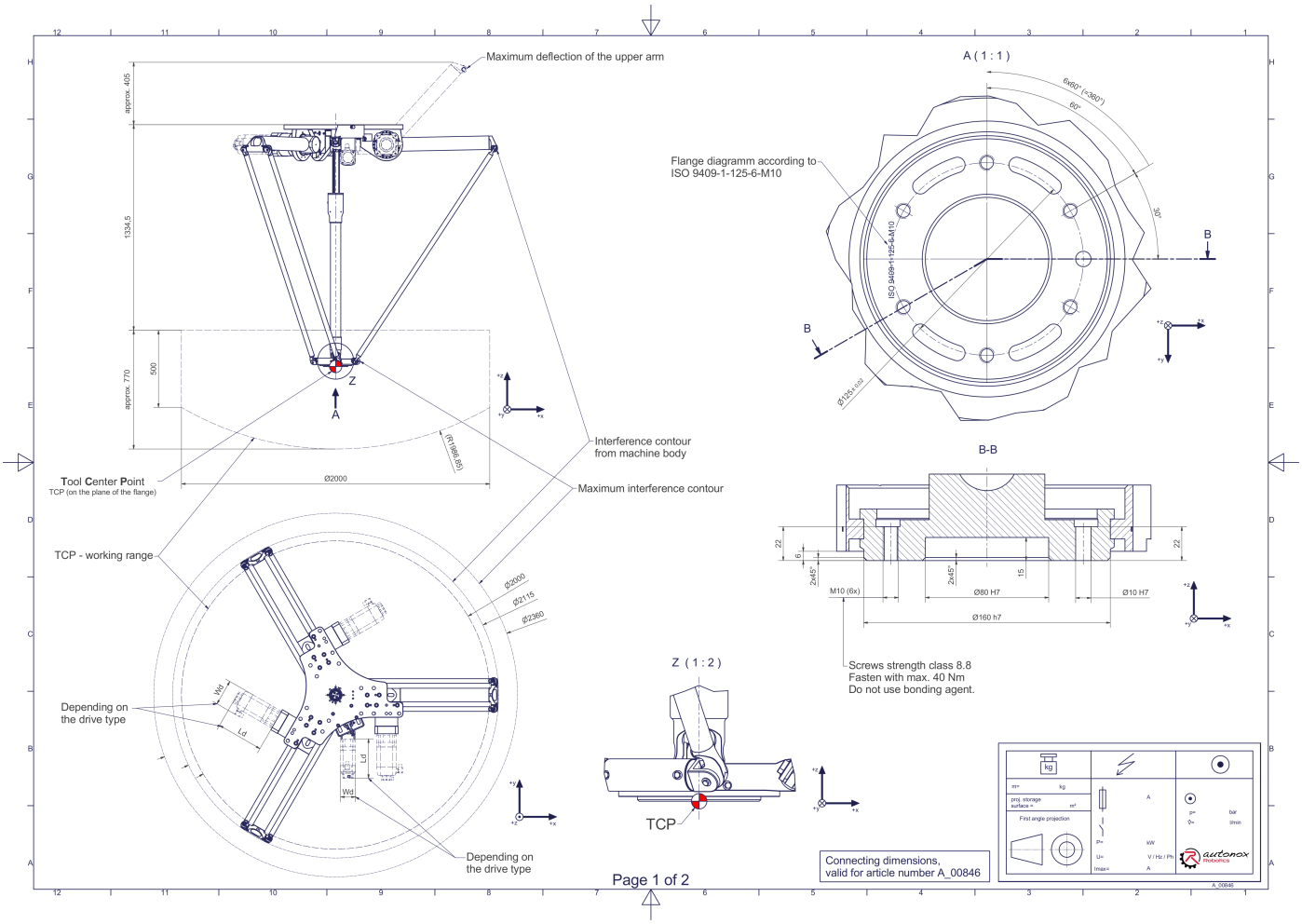
**Article number:** A_00846-FO

**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,ß,γ)** | 1 |
| **Nominal payload [kg\|lbs] *** | 20 \| 44.1 |
| **Working area-diameter [mm\|in]** | 2000 \| 78.7 |
| **Working height outside [mm\|in]** | 500 \| 19.7 |
| **Working height center [mm\|in]** | 770 \| 30.3 |
| **Max. acceleration torque of the rotation γ around Z at the output [Nm\|in.lbs]** | 160 \| 1416.1 |
| **Nominal torque of the rotation γ around Z at the output [Nm\|in.lbs]** | 80 \| 708.1 |
| **Max. speed of the rotation γ around Z at the output [1/min]** | 200 |
| **Nominal speed of the rotation γ around Z at the output [1/min]** | 135 |
| **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) |

* 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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