

# DELTA RL4-1200-20kg

Article number: A\_00852

**Lubricant variant:** Synthetic lubricants



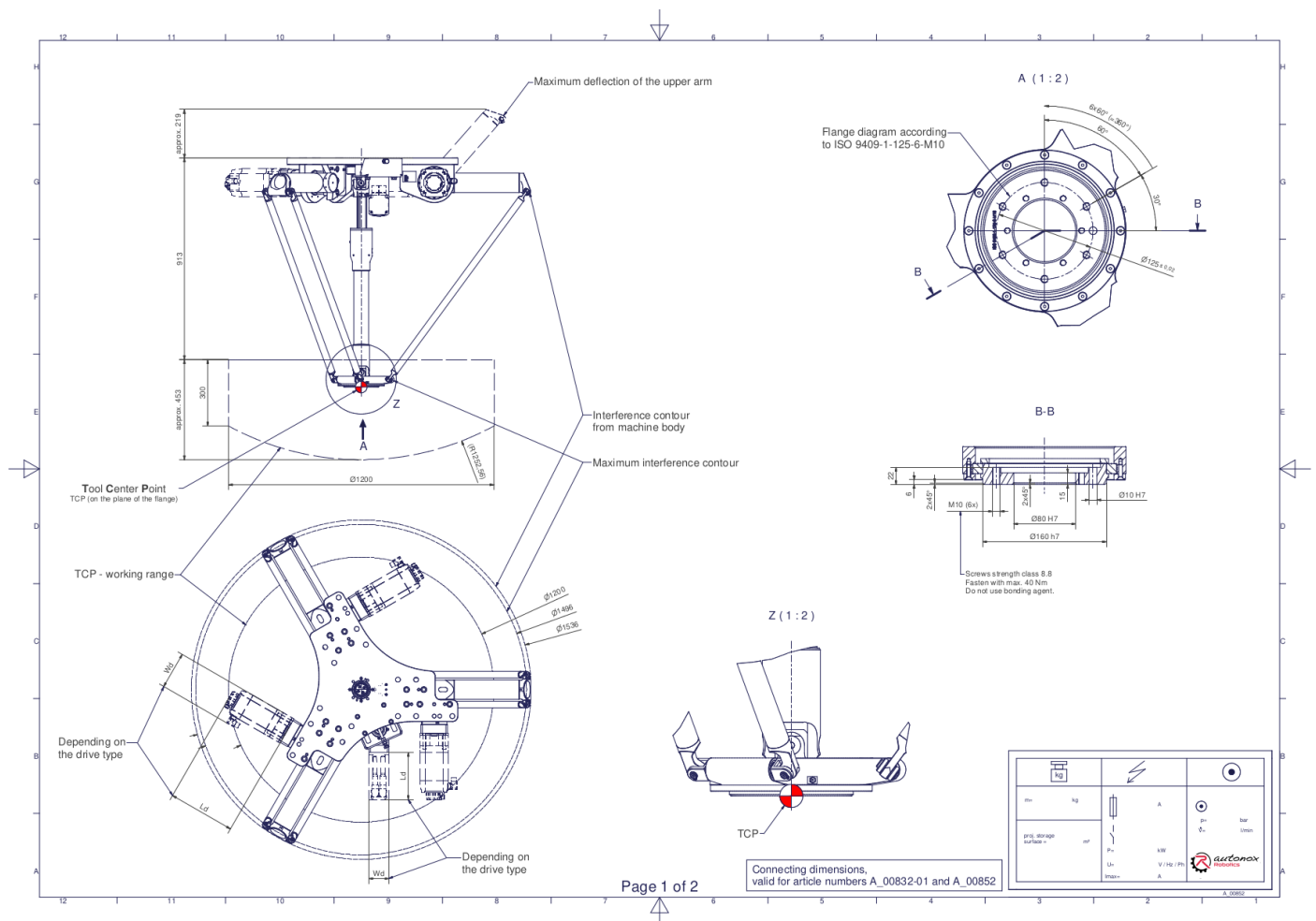
**Description:**

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] *   | 20   44.1   |
| Working area-diameter [mm   in]  | 1200   47.2   |
| Working height outside [mm   in]   | 300   11.8  |
| Working height center [mm   in]  | 453   17.8  |
| Max. acceleration torque of the rotation $\gamma$ around Z at the output [Nm   in.lbs] | 160   1416.1  |
| Nominal torque of the rotation $\gamma$ around Z at the output [Nm   in.lbs]           | 80   708.1  |
| Max. speed of the rotation $\gamma$ around Z at the output [1/min]                     | 200   |
| Nominal speed of the rotation $\gamma$ 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   | Synthetic   |
| Lubricants of the gearboxes  | Synthetic   |
| 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.

## Gearbox article number for this robot mechanics:

| Function   | Article number      | Document                              |
|--|---------------------|---------------------------------------|
| Drive of the upper arms                                      | MT_BGR00017292-U-xx | Operating manual gearbox type 3 (PDF) |
| Drive of the telescopic shaft for rotation $\gamma$ around Z | MT_BGR00018723-xx   | Operating manual gearbox type 1 (PDF) |

We refer to our [General Terms of Sale and Supply](#) and [Terms of use](#).

© 2025 autonox Robotics GmbH | [www.autonox.com](http://www.autonox.com)