

# DELTA RL3-TS1-1600-20kg

**Article number:** A\_00066-TS1-FO

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



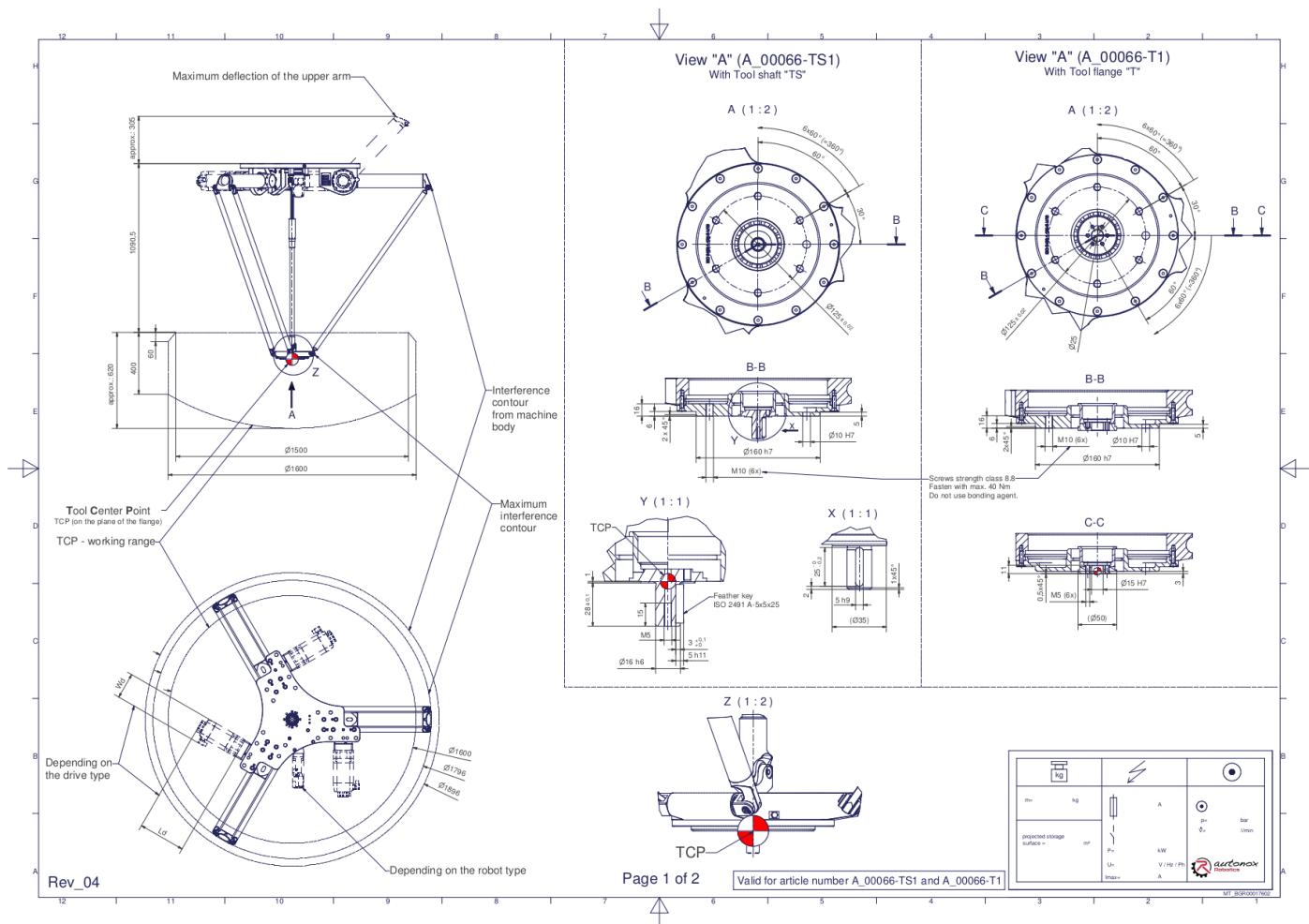
## Description:

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 degrees 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:

<b>Field of application</b>	Standard (not hygienic)
<b>Kinematics</b>	Parallel
<b>Translatory Degrees of Freedom (X,Y,Z)</b>	3
<b>Rotational Degrees of Freedom (α,β,γ)</b>	0
<b>Nominal payload [kg lbs] *</b>	20   44.1
<b>Working area-diameter [mm in]</b>	1600   63.0
<b>Working height outside [mm in]</b>	400   15.7
<b>Working height center [mm in]</b>	620   24.4
<b>Output type of the tool actuation</b>	Shaft (TS)
<b>Number of the tool actuation (telescopic shaft(s))</b>	1
<b>Max. acceleration torque of the tool actuation T/TS1 at the output [Nm in.lbs]</b>	40   354.0
<b>Nominal torque of the tool actuation T/TS1 at the output [Nm in.lbs]</b>	33   292.1
<b>Max. speed of the tool actuation T/TS1 at the output [1/min]</b>	225
<b>Nominal speed of the tool actuation T/TS1 at the output [1/min]</b>	150
<b>Bearing type of the telescopic shaft(s)</b>	Roller bearing
<b>Bearing type of the arm joints</b>	Roller bearing
<b>Lubricants of the bearings</b>	Food-grade (FO)
<b>Lubricants of the gearboxes</b>	Food-grade (FO)
<b>Cleaning</b>	No high pressure
<b>Ambient temperature [°C °F]</b>	0 to +40   +32 to +104
<b>Relative humidity level [%]</b>	95 (free of condensation)
<b>Mounting position</b>	Floor, Ceiling, Wall (on request), Angle (on request)
<b>Robot weight without drive engineering (esp. drive) [kg lbs]</b>	83   183.0

\* 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.