

# DELTA RL4-TS1-ATS-900-3kg

Article number: A\_00037-TS1-ATS

Lubricant variant: Synthetic lubricants



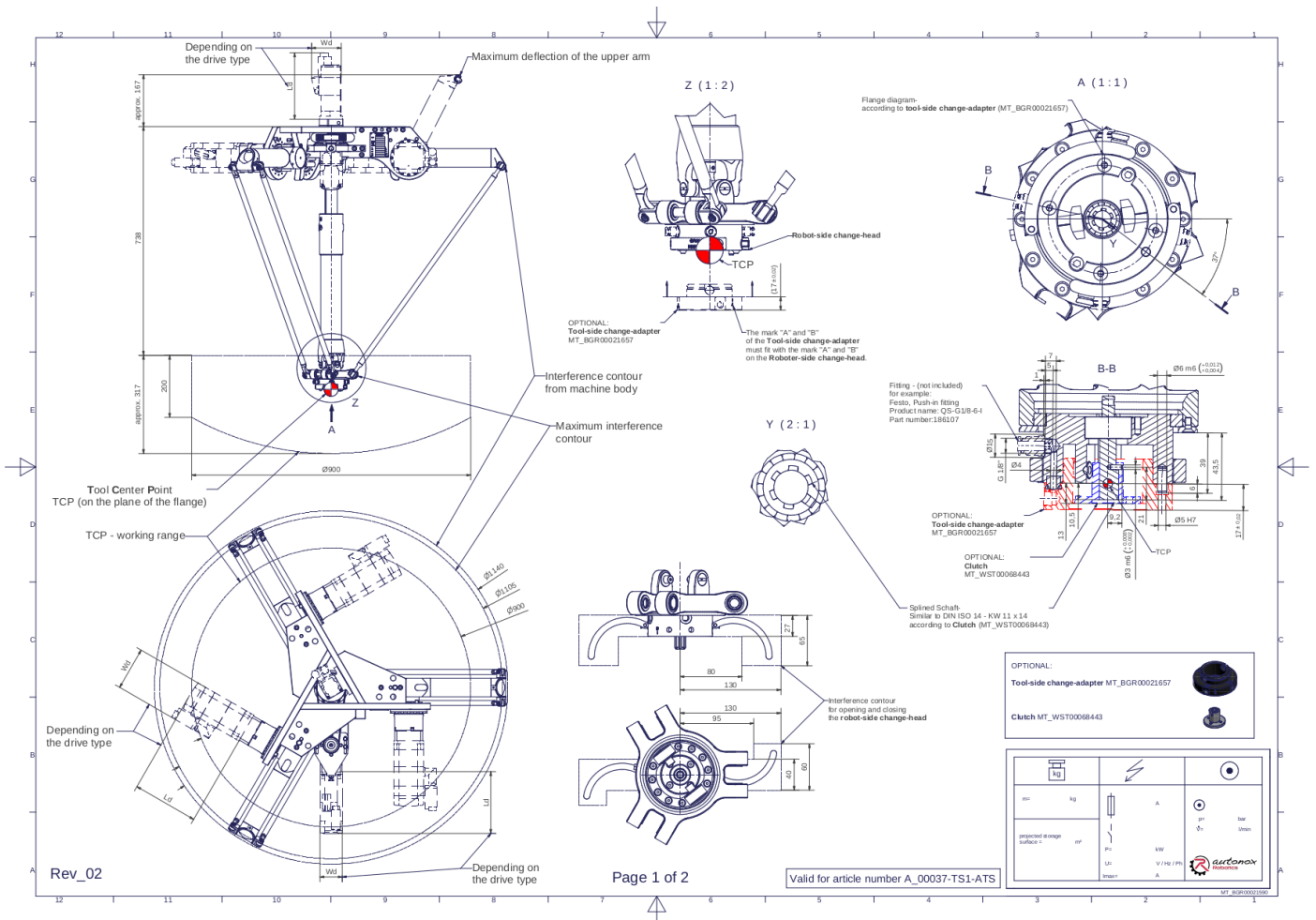
### Description:

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:

<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 (<math>\alpha,\beta,\gamma</math>)</b>	1
<b>Nominal payload [kg   lbs] *</b>	3   6.6
<b>Working area-diameter [mm   in]</b>	900   35.4
<b>Working height outside [mm   in]</b>	200   7.9
<b>Working height center [mm   in]</b>	317   12.5
<b>Output type of the tool actuation</b>	Shaft (TS)
<b>Number of the tool actuation (telescopic shaft(s))</b>	1
<b>Manual tool changing system ATS</b>	Fourfold media transmission (Compressed air 6 bar   87.0 psi / vacuum -850 mbar   -12.3 psi / min. inner-Ø: 4 mm   0.16 in)
<b>Max. acceleration torque of the rotation <math>\gamma</math> around Z at the output [Nm   in.lbs]</b>	40   354.0
<b>Nominal torque of the rotation <math>\gamma</math> around Z at the output [Nm   in.lbs]</b>	36   318.6
<b>Max. speed of the rotation <math>\gamma</math> around Z at the output [1/min]</b>	321
<b>Nominal speed of the rotation <math>\gamma</math> around Z at the output [1/min]</b>	214
<b>Max. acceleration torque of the tool actuation T/TS1 at the output [Nm   in.lbs]</b>	5,5   48.7
<b>Nominal torque of the tool actuation T/TS1 at the output [Nm   in.lbs]</b>	5,5   48.7
<b>Max. speed of the tool actuation T/TS1 at the output [1/min]</b>	800
<b>Nominal speed of the tool actuation T/TS1 at the output [1/min]</b>	800
<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 gearboxes</b>	Synthetic
<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)

\* 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.