

DELTA RL4-TS1-ATS-2000-20kg

Article number: A_00846-TS1-ATS-FO

Lubricant variant: Food-grade lubricants (FO)



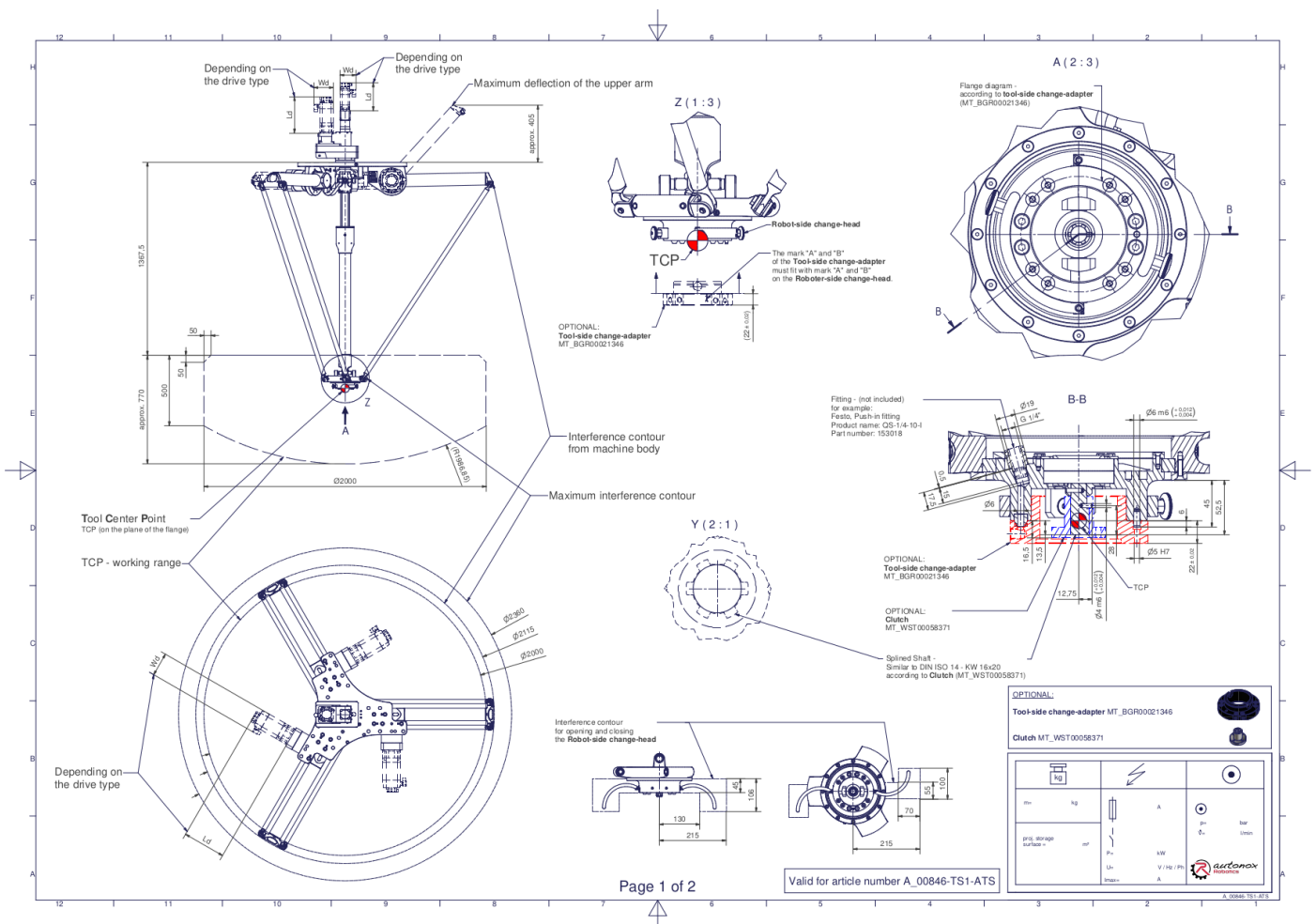
Description:

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,β,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
Output type of the tool actuation	Shaft (TS)
Number of the tool actuation (telescopic shaft(s))	1
Manual tool changing system ATS	Eightfold media transmission (Compressed air 6 bar 87.0 psi / vacuum -850 mbar -12.3 psi / min. inner- \varnothing : 6 mm 0.24 in)
Max. acceleration torque of the rotation γ around Z at the output [Nm in.lbs]	240 2124.2
Nominal torque of the rotation γ around Z at the output [Nm in.lbs]	240 2124.2
Max. speed of the rotation γ around Z at the output [1/min]	177
Nominal speed of the rotation γ 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 [$^{\circ}\text{C}$ $^{\circ}\text{F}$]	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.