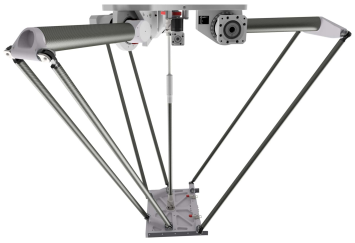
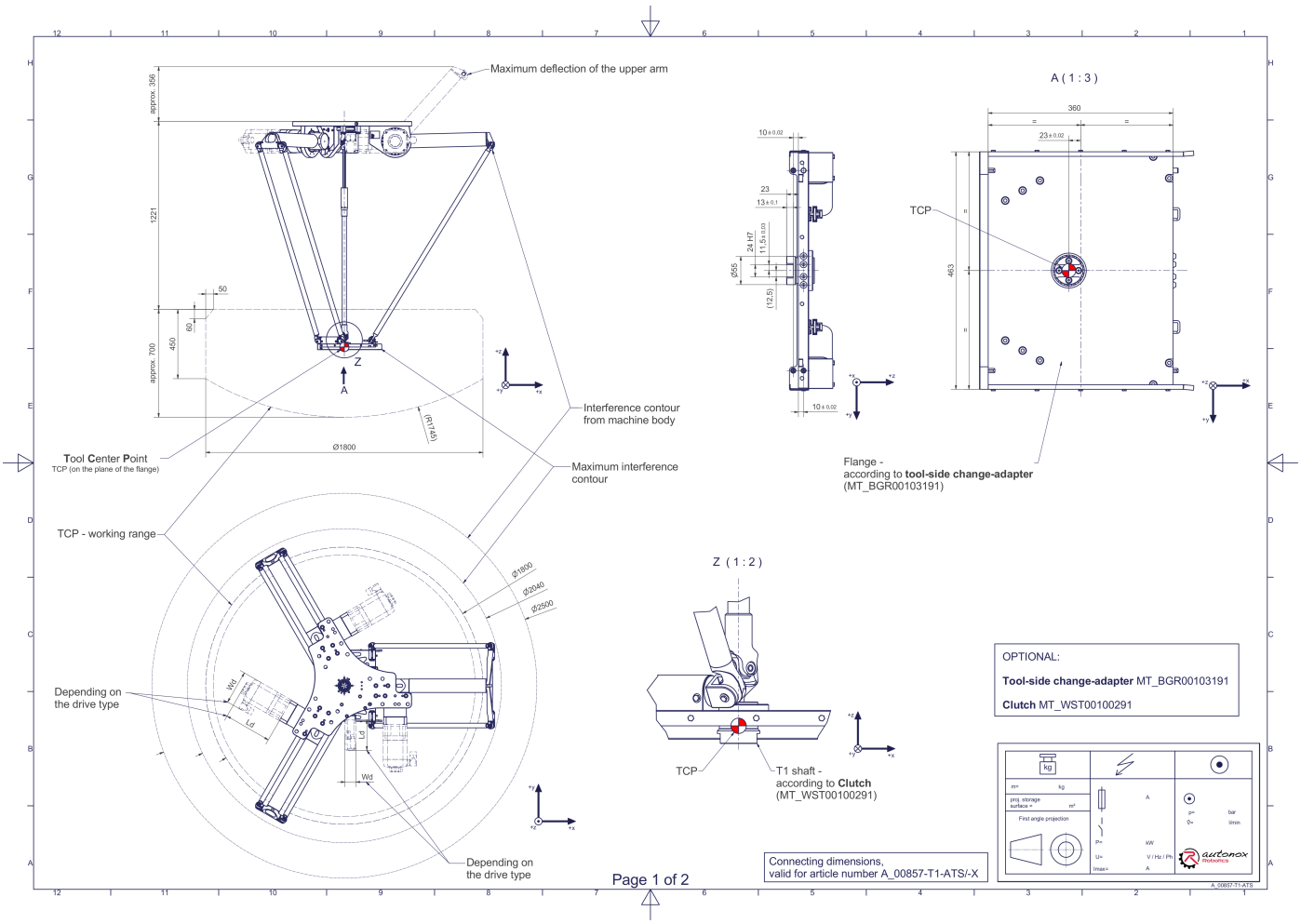
DELTA RL3-T1-ATS-1800-50kg

Article number: A_00857-T1-ATS/-X_base



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. The article number extension 'ATS/-X' indicates the fitting direction of the integrated tool changing system (see product pictures). **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)

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)	0
Nominal payload [kg|lbs] *	50 | 110.2
Working area-diameter [mm|in]	1800 | 70.9
Working height outside [mm|in]	450 | 17.7
Working height center [mm|in]	700 | 27.6
Output type of the tool actuation	Flange (T)
Number of the tool actuation (telescopic shaft(s))	1
Manual tool changing system ATS	Fourfold media transmission (Compressed air 6 bar | 87.0 psi / vacuum -850 mbar | -12.3 psi / min. inner-Ø: 6 mm | 0.24 in)
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]	33 | 292.1
Max. speed of the tool actuation T/TS1 at the output [1/min]	225
Nominal speed of the tool actuation T/TS1 at the output [1/min]	150
Bearing type of the telescopic shaft(s)	Roller bearing
Bearing type of the arm joints	Roller bearing
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.