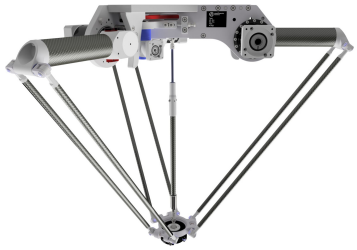
DELTA RL3-TS1-ATS-900-3kg



Article number: A_00033-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 degrees of freedom.

Scope of delivery:
Robot mechanics incl. gearbox, Servo motor adapter, Threaded protection caps , Transport and packing instructions

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] *	3 | 6.6
Working area-diameter [mm|in]	900 | 35.4
Working height outside [mm|in]	200 | 7.9
Working height center [mm|in]	317 | 12.5
Output type of the tool actuation	Shaft (TS)
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: 4 mm | 0.16 in)
Max. acceleration torque of the tool actuation T/TS1 at the output [Nm|in.lbs]	5,5 | 48.7
Nominal torque of the tool actuation T/TS1 at the output [Nm|in.lbs]	5,5 | 48.7
Max. speed of the tool actuation T/TS1 at the output [1/min]	500
Nominal speed of the tool actuation T/TS1 at the output [1/min]	320
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 [°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)
Robot weight without drive engineering (esp. drive) [kg|lbs]	35 | 77.2

* 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.