

Product data sheet https://autonoxfinder.com/en/A_00852

Date of download: Sep 15, 2025 Time of download: 21:28 UTC

DELTA RL4-1200-20kg

Article number: A_00852

Lubricant variant: Synthetic lubricants



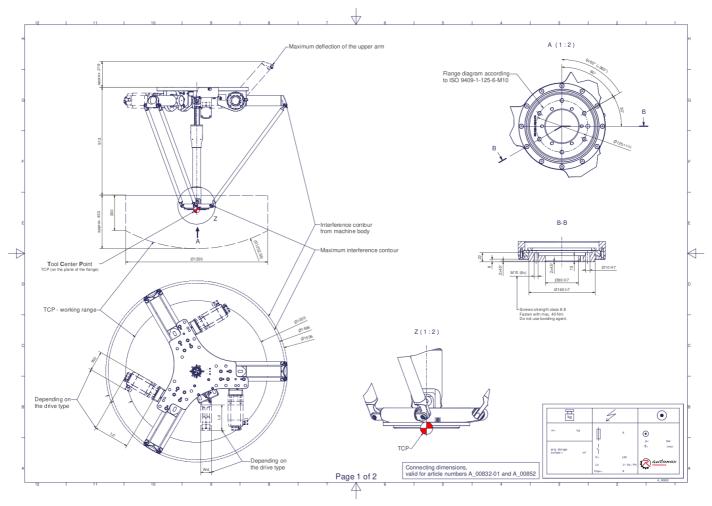
Description:

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:



<u>Downloads:</u> <u>Connecting dimensions (PDF)</u> <u>3D model (STP)</u> <u>3D model (PDF)</u>



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Technical specifications:

Field of application Standard (not tygienic) Kinematics Porallel Translatory Degrees of Freedom (x,X,yz) 3 Rotational Degrees of Freedom (x,B,y) 1 Nominal payload [kg lbs]* 20 41.1 Working area-diameter [mm in] 1200 47.2 Working height outside [mm in] 453 17.8 Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] 160 1416.1 Nominal torque of the rotation y around Z at the output [Nm in.lbs] 80 708.1 Max. speed of the rotation y around Z at the output [1/min] 200 Nominal speed of the rotation y around Z at the output [1/min] 135 Bearing type of the elescopic shaft(s) Roller bearing Bearing type of the arm joints Roller bearing Lubricants of the bearings Synthetic Cleaning No high pressure Ambient temperature [*C *F 0 to +40 +32 to +104 Relative humidity level [%] 95 (fee of condensation) Mounting position Floor, Ceiling, Wall (on request), Angle (on request)		
Translatory Degrees of Freedom (X,Y,Z) Rotational Degrees of Freedom (x,G,Y) Nominal payload [kg lbs]* Working area-diameter [mm in] Working height outside [mm in] Working height center [mm in] Working height center [mm in] Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] Max. speed of the rotation y around Z at the output [Nm in.lbs] Max. speed of the rotation y around Z at the output [I/min] Nominal speed of the rotation y around Z at the output [I/min] Bearing type of the telescopic shaft(s) Roller bearing Lubricants of the gearboxes Cleaning Mobient temperature [*C *F] Roller bear (output [*S]) No high pressure Roller bear (output [*S]) No high pressure Roller bear (output [*S]) Synthetic	Field of application	Standard (not hygienic)
Nominal payload [kg lbs] * 20 44.1 Working area-diameter [mm in] 1200 47.2 Working height outside [mm in] 300 11.8 Working height center [mm in] 453 17.8 Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] 160 1416.1 Nominal torque of the rotation y around Z at the output [Nm in.lbs] 80 708.1 Max. speed of the rotation y around Z at the output [1/min] 135 Bearing type of the arm joints Roller bearing Bearing type of the arm joints Roller bearing Lubricants of the gearboxes Synthetic Cleaning No high pressure Ambient temperature [*C *F] 0to 440 +32 to +104 Relative humidity level [%) 9 5 (free of condensation)	Kinematics	Parallel
Nominal payload [kg lbs]* 20 44.1 Working area-diameter [mm in] 1200 47.2 Working height outside [mm in] 300 11.8 Working height center [mm in] 453 17.8 Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] 160 1416.1 Nominal torque of the rotation y around Z at the output [1/min] 200 Max. speed of the rotation y around Z at the output [1/min] 135 Bearing type of the telescopic shaft(s) Roller bearing Bearing type of the arm joints Roller bearing Lubricants of the bearings Synthetic Cleaning No high pressure Ambient temperature [*C *F] 0 to +40 +32 to +104 Relative humidity level [%] 95 (free of condensation)	Translatory Degrees of Freedom (X,Y,Z)	3
Working area-diameter [mm in] 1200 47.2 Working height outside [mm in] 300 11.8 Working height center [mm in] 453 17.8 Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] 160 1416.1 Nominal torque of the rotation y around Z at the output [Nm in.lbs] 200 Nominal speed of the rotation y around Z at the output [1/min] 135 Bearing type of the telescopic shaft(s) Roller bearing Bearing type of the arm joints Roller bearing Lubricants of the bearings Synthetic Cleaning No high pressure Ambient temperature [°C °F] 0 to +40 +32 to +104 Relative humidity level [%] 95 (free of condensation)	Rotational Degrees of Freedom (α,β,γ)	1
Working height outside [mm in] Working height center [mm in] Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] Nominal torque of the rotation y around Z at the output [Nm in.lbs] Max. speed of the rotation y around Z at the output [1/min] Nominal speed of the rotation y around Z at the output [1/min] Bearing type of the telescopic shaft(s) Bearing type of the arm joints Lubricants of the bearings Lubricants of the gearboxes Cleaning Ambient temperature [°C °F] Relative humidity level [%] 300 11.8 453 17.8 601 1416.1 60 1416.1 60 200 80 708.1 80 708.1 80 Fos.1 80 Fos.1	Nominal payload [kg lbs] *	20 44.1
Working height center [mm]in]453 17.8Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs]160 1416.1Nominal torque of the rotation y around Z at the output [Nm in.lbs]80 708.1Max. speed of the rotation y around Z at the output [1/min]200Nominal speed of the rotation y around Z at the output [1/min]135Bearing type of the telescopic shaft(s)Roller bearingBearing type of the arm jointsRoller bearingLubricants of the bearingsSyntheticLubricants of the gearboxesSyntheticCleaningNo high pressureAmbient temperature [°C]°F]0 to +40 +32 to +104Relative humidity level [%]95 (free of condensation)	Working area-diameter [mm in]	1200 47.2
Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] Nominal torque of the rotation y around Z at the output [I/min] Max. speed of the rotation y around Z at the output [I/min] Nominal speed of the rotation y around Z at the output [I/min] Bearing type of the telescopic shaft(s) Roller bearing Bearing type of the arm joints Roller bearing Lubricants of the bearings Synthetic Cleaning Ambient temperature [°C °F] No high pressure Arelative humidity level [%] Possible of the output [1/min] Roller bearing Synthetic O to +40 +32 to +104 Possible of condensation)	Working height outside [mm in]	300 11.8
Nominal torque of the rotation y around Z at the output [Nm in.lbs] Max. speed of the rotation y around Z at the output [1/min] Nominal speed of the rotation y around Z at the output [1/min] Bearing type of the telescopic shaft(s) Roller bearing Roller bearing Lubricants of the bearings Synthetic Lubricants of the gearboxes Cleaning Ambient temperature [°C °F] Roller bear ing O to +40 +32 to +104 Relative humidity level [%]	Working height center [mm in]	453 17.8
Max. speed of the rotation y around Z at the output [1/min] Nominal speed of the rotation y around Z at the output [1/min] Bearing type of the telescopic shaft(s) Roller bearing Roller bearing Lubricants of the bearings Synthetic Lubricants of the gearboxes Cleaning No high pressure Ambient temperature [°C °F] 0 to +40 +32 to +104 Relative humidity level [%]	Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs]	160 1416.1
Nominal speed of the rotation y around Z at the output [1/min] Bearing type of the telescopic shaft(s) Roller bearing Roller bearing Lubricants of the bearings Synthetic Lubricants of the gearboxes Cleaning No high pressure Ambient temperature [°C °F] Roller bearing 135 Roller bearing Synthetic O to +40 +32 to +104 Relative humidity level [%]	Nominal torque of the rotation y around Z at the output [Nm in.lbs]	80 708.1
Bearing type of the telescopic shaft(s) Roller bearing Synthetic Synthetic Cleaning No high pressure Ambient temperature [°C °F] Oto +40 +32 to +104 Relative humidity level [%]	Max. speed of the rotation y around Z at the output [1/min]	200
Bearing type of the arm joints Lubricants of the bearings Synthetic Lubricants of the gearboxes Synthetic Cleaning No high pressure Ambient temperature [°C °F] Oto +40 +32 to +104 Relative humidity level [%]	Nominal speed of the rotation y around Z at the output [1/min]	135
Lubricants of the bearings Synthetic 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)	Bearing type of the telescopic shaft(s)	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)	Bearing type of the arm joints	Roller bearing
Cleaning No high pressure Ambient temperature [°C °F] 0 to +40 +32 to +104 Relative humidity level [%] 95 (free of condensation)	Lubricants of the bearings	Synthetic
Ambient temperature [°C °F] 0 to +40 +32 to +104 Relative humidity level [%] 95 (free of condensation)	Lubricants of the gearboxes	Synthetic
Relative humidity level [%] 95 (free of condensation)	Cleaning	No high pressure
	Ambient temperature [°C °F]	0 to +40 +32 to +104
Mounting position Floor, Ceiling, Wall (on request), Angle (on request)	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.

Gearbox article number for this robot mechanics:

Function	Article number	Document
Drive of the upper arms	MT_BGR00017292-U-xx	Operating manual gearbox type 3 (PDF)
Drive of the telescopic shaft for rotation y around Z	MT_BGR00018723-xx	Operating manual gearbox type 1 (PDF)