

## Product data sheet https://autonoxfinder.com/en/A\_00832-01

Date of download: Nov 30, 2025 Time of download: 07:00 UTC

### **DELTA RL4-1200-12kg**

Article number: A\_00832-01

Lubricant variant: Synthetic lubricants



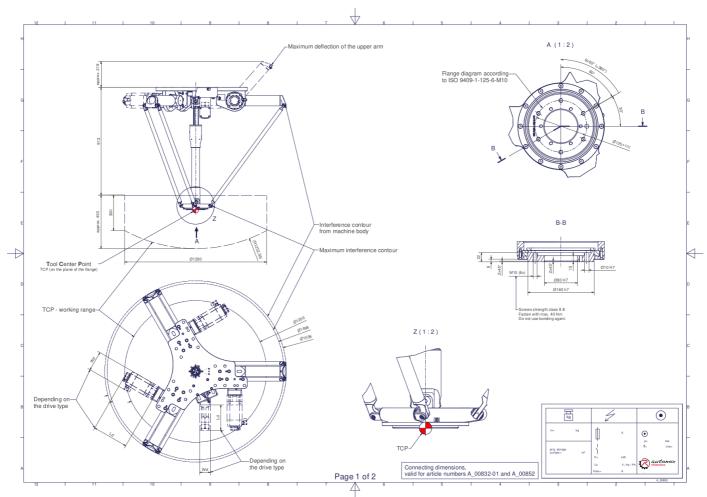
#### **Description:**

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 hygienic)       Kinematics     Parallel       Translatory Degrees of Freedom (x,X,z)     3       Rotational Degrees of Freedom (x,B,y)     1       Nominal payload [kg lbs]*     12   26.5       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 [I/min]     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       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, Celling, Wall (on request), Angle (on request)       Robot weight without drive engineering (esp. drive) [kg [lbs]     96   211.6		
Translatory Degrees of Freedom (x,Y,z)  Rotational Degrees of Freedom (x,B,y)  Nominal payload [kg lbs]*  12   26.5  Working area-diameter [mm in]  1200   47.2  Working height outside [mm in]  Working height center [mm in]  453   17.8  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]  Nominal torque of the rotation y around Z at the output [Nm in.lbs]  Nominal speed of the rotation y around Z at the output [1/min]  Bearing type of the telescopic shaft(s)  Bearing type of the telescopic shaft(s)  Synthetic  Lubricants of the gearboxes  Cleaning  Ambient temperature [*C *F   Relative humidity level [%]  Floor, Celling, Wall (on request), Angle (on request)	Field of application	Standard (not hygienic)
Rotational Degrees of Freedom (a,B,y)       1         Nominal payload [kg lbs]*       12   26.5         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 [l/min]       200         Nominal speed of the rotation y around Z at the output [l/min]       135         Bearing type of the telescopic shaft(s)       Roller bearing         Bearing type of the bearings       Synthetic         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)         Mounting position       Floor. Celling, Wall (on request), Angle (on request)	Kinematics	Parallel
Nominal payload [kg lbs] * 12   26.5  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 bearings Synthetic  Lubricants of the gearboxes Synthetic  Cleaning No high pressure  Ambient temperature [°C °F] 010 + 400   +32 to +104  Relative humidity level [%] 95 (free of condensation)  Mounting position Fig. (2018) Angle (on request), Angle (on request)	Translatory Degrees of Freedom (X,Y,Z)	3
Working area-diameter [mm in]  Working height outside [mm in]  Working height center [mm in]  453   17.8  Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs]  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 [l/min]  Max. speed of the rotation y around Z at the output [l/min]  Nominal speed of the rotation y around Z at the output [l/min]  Bearing type of the telescopic shaft(s)  Roller bearing  Bearing type of the arm joints  Lubricants of the bearings  Synthetic  Lubricants of the gearboxes  Cleaning  No high pressure  Ambient temperature [°C °F]  Roller bearing  Poor, Celling, Wall (on request), Angle (on request)	Rotational Degrees of Freedom $(\alpha,\beta,\gamma)$	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 telescopic shaft(s)  Roller bearing  Lubricants of the bearings  Synthetic  Lubricants of the gearboxes  Cleaning  No high pressure  Ambient temperature [*C *F]  Roller bear or ondensation)  Relative humidity level [%]  Roller bear or ondensation)  Floor, Ceiling, Wall (on request), Angle (on request)	Nominal payload [kg lbs] *	12   26.5
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 [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)  Bearing type of the telescopic shaft(s)  Roller bearing  Lubricants of the bearings  Lubricants of the gearboxes  Cleaning  Anbient temperature [°C °F]  Roller bearing  Po to +40   +32 to +104  Relative humidity level [%]  Mounting position  ### Application of the rotation y around Z at the output [I/min]  ### Application of the dear of the output [I/min]  ### Application of the output [I/min]  ### Application of the dear of the output [I/min]  ### Application of the dear of the output [I/min]  ### Application of the output [I/mi	Working area-diameter [mm in]	1200   47.2
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]       80   708.1         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)         Mounting position       Floor, Ceiling, Wall (on request), Angle (on request)	Working height outside [mm in]	300   11.8
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 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)         Mounting position       Floor, Ceiling, Wall (on request), Angle (on request)	Working height center [mm in]	453   17.8
Max. 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)Mounting positionFloor, Ceiling, Wall (on request), Angle (on request)	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  Roller bearing  Synthetic  Lubricants of the bearings  Synthetic  Cleaning  No high pressure  Ambient temperature [°C °F]  Relative humidity level [%]  Mounting position  135  Roller bearing  Roller bearing  Synthetic  5ynthetic  0 to +40   +32 to +104  Floor, Ceiling, Wall (on request), Angle (on request)	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]  O to +40   +32 to +104  Relative humidity level [%]  Mounting position  Roller bearing  Roller bearing  Roller bearing  Roller bearing  Floor, Ceiling, Wall (on request), Angle (on request)	Max. speed of the rotation γ 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 [%] Mounting position River in the pearing Synthetic	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)         Mounting position       Floor, Ceiling, Wall (on request), Angle (on request)	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)         Mounting position       Floor, Ceiling, Wall (on request), Angle (on request)	Bearing type of the arm joints	Roller bearing
Cleaning  Mo high pressure  O to +40   +32 to +104  Relative humidity level [%]  Mounting position  No high pressure  O to +40   +32 to +104  Ploor, Ceiling, Wall (on request), Angle (on request)	Lubricants of the bearings	Synthetic
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)	Lubricants of the gearboxes	Synthetic
Relative humidity level [%]       95 (free of condensation)         Mounting position       Floor, Ceiling, Wall (on request), Angle (on request)	Cleaning	No high pressure
Mounting position Floor, Ceiling, Wall (on request), Angle (on request)	Ambient temperature [°C °F]	0 to +40   +32 to +104
	Relative humidity level [%]	95 (free of condensation)
Robot weight without drive engineering (esp. drive) [kg lbs] 96   211.6	Mounting position	Floor, Ceiling, Wall (on request), Angle (on request)
	Robot weight without drive engineering (esp. drive) [kg lbs]	96   211.6

<sup>\*</sup> 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_BGR00020777-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)