

# Product data sheet <a href="https://autonoxfinder.com/en/A\_00053">https://autonoxfinder.com/en/A\_00053</a>

Date of download: Dec 16, 2025 Time of download: 01:55 UTC

# **DELTA RL4-1300-6kg**

Article number: A 00053

Lubricant variant: Synthetic lubricants



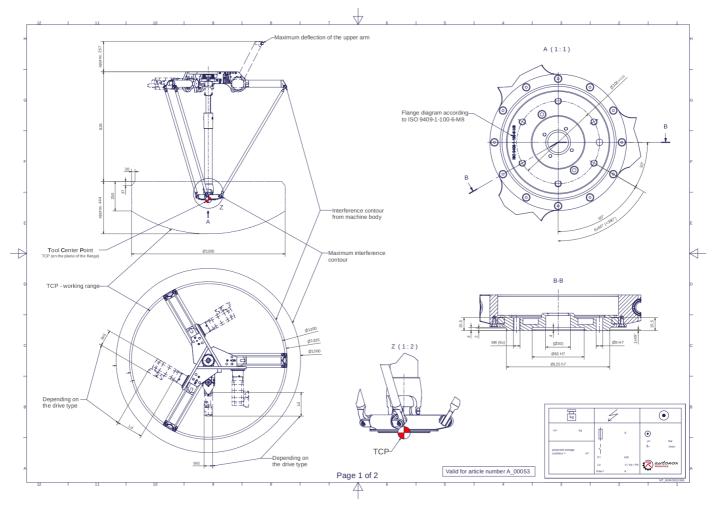
#### **Description:**

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,Y,z)     3       Rotational Degrees of Freedom (x,B,y)     1       Nominal payload (kg lbs)*     6   13.2       Working area-diameter [mm in]     1300   51.2       Working height outside [mm lin]     250   9.8       Working height center [mm in]     444   17.5       Max. acceleration torque of the rotation y around Z at the output (Nm in.lbs)     33   292.1       Nominal torque of the rotation y around Z at the output (I/min)     225       Nominal speed of the rotation y around Z 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 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)		
Translatory Degrees of Freedom (x,Y,Z)       3         Rotational Degrees of Freedom (x,B,y)       1         Nominal payload [kg lbs]*       6   13.2         Working area-diameter [mm in]       1300   51.2         Working height outside [mm in]       250   9.8         Morking height center [mm in]       444   17.5         Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs]       33   292.1         Max. speed of the rotation y around Z at the output [1/min]       225         Nominal speed of the rotation y around Z 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)	Field of application	Standard (not hygienic)
Rotational Degrees of Freedom (a,B,y)  Nominal payload [kg lbs]* 6   13.2  Working area-diameter [mm in] 1300   51.2  Working height outside [mm in] 250   9.8  Working height center [mm in] 444   17.5  Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] 31   292.1  Max. speed of the rotation y around Z at the output [1/min] 225  Nominal torque of the rotation y around Z at the output [1/min] 150  Bearing type of the elescopic shaft(s) Roller bearing Lubricants of the bearings Synthetic  Cleaning No high pressure Ambient temperature [*C *F] Relative humidity level [%] 9 5 (free of condensation)	Kinematics	Parallel
Nominal payload [kg   lbs] * 6   13.2  Working area-diameter [mm   in] 1300   51.2  Working height outside [mm   in] 250   9.8  Working height center [mm   in] 444   17.5  Max. acceleration torque of the rotation y around Z at the output [Nm   in.lbs] 33   292.1  Nominal torque of the rotation y around Z at the output [1/min] 225  Nominal speed of the rotation y around Z 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 bearings Synthetic  Cleaning No high pressure  Ambient temperature [*C *F] 0to +40   +32 to +104  Relative humidity level [%] 95 (free of condensation)	Translatory Degrees of Freedom (X,Y,Z)	3
Working area-diameter [mm in] 1300   51.2  Working height outside [mm in] 250   9.8  Working height center [mm in] 444   17.5  Max. acceleration torque of the rotation y around Z at the output [Nm in.lbs] 40   354.0  Nominal torque of the rotation y around Z at the output [Nm in.lbs] 31   292.1  Max. speed of the rotation y around Z at the output [1/min] 225  Nominal speed of the rotation y around Z 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 bearings Synthetic  Cleaning No high pressure  Ambient temperature [*C *F] 0to +40   +32 to +104  Relative humidity level [%] 95 (free of condensation)	Rotational Degrees of Freedom $(\alpha,\beta,\gamma)$	1
Working height outside [mm in]  Working height center [mm in]  444   17.5  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 [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 [%)  250   9.8  40   1954.0  40   354	Nominal payload [kg lbs] *	6   13.2
Working height center [mm]in]444   17.5Max. acceleration torque of the rotation y around Z at the output [Nm]in.lbs]40   354.0Nominal torque of the rotation y around Z at the output [Nm]in.lbs]33   292.1Max. speed of the rotation y around Z at the output [1/min]225Nominal speed of the rotation y around Z at the output [1/min]150Bearing type of the telescopic shaft(s)Roller bearingBearing type of the bearingsSyntheticLubricants of the bearingsSyntheticCleaningNo high pressureAmbient temperature [°C]°F]0 to +40   +32 to +104Relative humidity level [%]95 (free of condensation)	Working area-diameter [mm in]	1300   51.2
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  Roller bearing  Lubricants of the bearings  Synthetic  Lubricants of the gearboxes  Cleaning  Ambient temperature [°C °F]  No high pressure  Arbient temperature [%]  Relative humidity level [%]	Working height outside [mm in]	250   9.8
Nominal torque of the rotation y around Z at the output [Nm in.lbs]       33   292.1         Max. speed of the rotation y around Z at the output [1/min]       225         Nominal speed of the rotation y around Z 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 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)	Working height center [mm in]	444   17.5
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Nominal speed of the rotation y around Z 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 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)	Nominal torque of the rotation y around Z at the output [Nm in.lbs]	33   292.1
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 γ around Z at the output [1/min]	225
Bearing type of the arm joints Lubricants of the bearings Synthetic  Lubricants of the gearboxes Synthetic  Cleaning No high pressure  Ambient temperature [°C °F] O to +40   +32 to +104  Relative humidity level [%]	Nominal speed of the rotation y around Z at the output [1/min]	150
Lubricants of the bearingsSyntheticLubricants of the gearboxesSyntheticCleaningNo high pressureAmbient temperature [°C °F]0 to +40   +32 to +104Relative 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)

<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_BGR00013366-xx	Operating manual gearbox type 3 (PDF)
Drive of the telescopic shaft for rotation $\boldsymbol{\gamma}$ around $\boldsymbol{Z}$	MT_BGR00013360-xx	Operating manual gearbox type 1 (PDF)