

Technical specifications:

Field of application	Standard (not hygienic)
Kinematics	Parallel
Translatory Degrees of Freedom (X,Y,Z)	3
Rotational Degrees of Freedom (α, β, γ)	1
Nominal payload [kg lbs] *	50 110.2
Working area-diameter [mm in]	1600 63.0
Working height outside [mm in]	400 15.7
Working height center [mm in]	620 24.4
Max. acceleration torque of the rotation γ around Z at the output [Nm in.lbs]	160 1416.1
Nominal torque of the rotation γ around Z at the output [Nm in.lbs]	80 708.1
Max. speed of the rotation γ around Z at the output [1/min]	200
Nominal speed of the rotation γ 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	Food-grade (FO)
Lubricants of the gearboxes	Food-grade (FO)
Cleaning	No high pressure
Ambient temperature [$^{\circ}\text{C}$ $^{\circ}\text{F}$]	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]	130 286.6

* 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_BGR00109956-xx-FO	Operating manual gearbox type 3 (PDF)
Drive of the telescopic shaft for rotation γ around Z	MT_BGR00102751-xx-FO	Operating manual gearbox type 1 (PDF)