

# ARTICULATED articc.o6-1720-20kg

Article number: AT\_00031



**Description:**

This type of robot is based on the principle of serial kinematics. All drives and motor cables are moved along. The robot has three (3) translational and three (3) rotational degrees of freedom. This robot mechanics was specially developed for grinding, polishing and deburring applications and is characterized by the offset wrist (angled hand). The robot has a compact, lightweight design. The use of carbon fiber components results in a slim and rigid arm construction. Abrasive dusts and liquids cannot penetrate the hand.

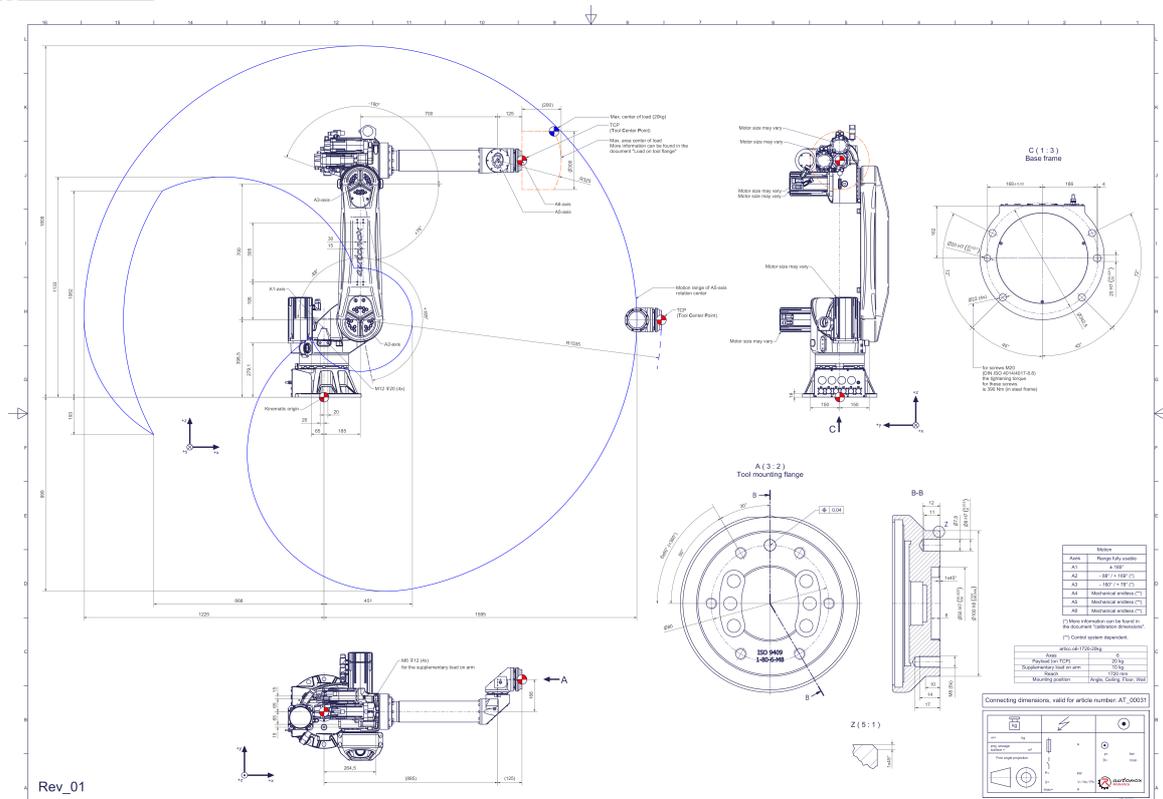
**Scope of delivery:**

Robot mechanics incl. gearbox, Free installation of drive technology provided (including incoming goods inspection), Multi-hour, logged test run as final quality inspection, Threaded protection caps, Transport and packing instructions

**Required accessories:**

Set of parts for installing the drive technology. This set consists of, for example, a servo motor adapter, servo motor cable, transmission input pinion, plug board (usually on the base frame).

**Connecting dimensions:**



**Downloads:** [Connecting dimensions \(PDF\)](#), [3D model \(STP\)](#), [3D model \(PDF\)](#)

We refer to our [General Terms of Sale and Supply](#) and [Terms of use](#).

## Technical specifications:

<b>Field of application</b>	Standard (not hygienic), Surface processing
<b>Kinematics</b>	Serial
<b>Translatory Degrees of Freedom (X,Y,Z)</b>	3
<b>Rotational Degrees of Freedom (<math>\alpha,\beta,\gamma</math>)</b>	3
<b>Nominal payload [kg   lbs] *</b>	20   44.1
<b>Supplementary load on the arm [kg   lbs]</b>	10   22.0
<b>Working area-reach [mm   in]</b>	1720   67.7
<b>Lubricants of the bearings</b>	Synthetic
<b>Lubricants of the gearboxes</b>	Synthetic
<b>Cleaning</b>	No high pressure
<b>Protection class</b>	Axis 1-4: IP65, from axis 5: IP67
<b>Ambient temperature [<math>^{\circ}</math>C   <math>^{\circ}</math>F]</b>	0 to +40   +32 to +104
<b>Relative humidity level [%]</b>	95 (free of condensation)
<b>Mounting position</b>	Floor, Ceiling, Wall, Angle
<b>Robot weight without drive engineering (esp. drive) [kg   lbs]</b>	135   297.6
<b>Special features</b>	Specially developed for grinding, polishing, and deburring applications. Characterized by an offset wrist (angled hand). Compact, lightweight design with a slim and rigid arm construction. Hand is sealed against abrasive dust and liquids. Please note that this robot mechanics is based on a different kinematic model than a standard central wrist. Please discuss this with your control partner.

\* 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.