

Checklist Force-Torque-Sensors

Customer no.	
Company	
Contact person	
Phone	
E-Mail	

Type of Application

Measure and/or Monitor Process Loads	☐
Polishing and Grinding	☐
Weigh Workpieces or Payload	☐
Monitor Payload Status	☐
Haptic Measurements	☐
Handling & Assembly	☐
Force-Controlled Robot Movement	☐
Other	☐ Please specify:

Description of the Application (Text, Picture, CAD, etc.)

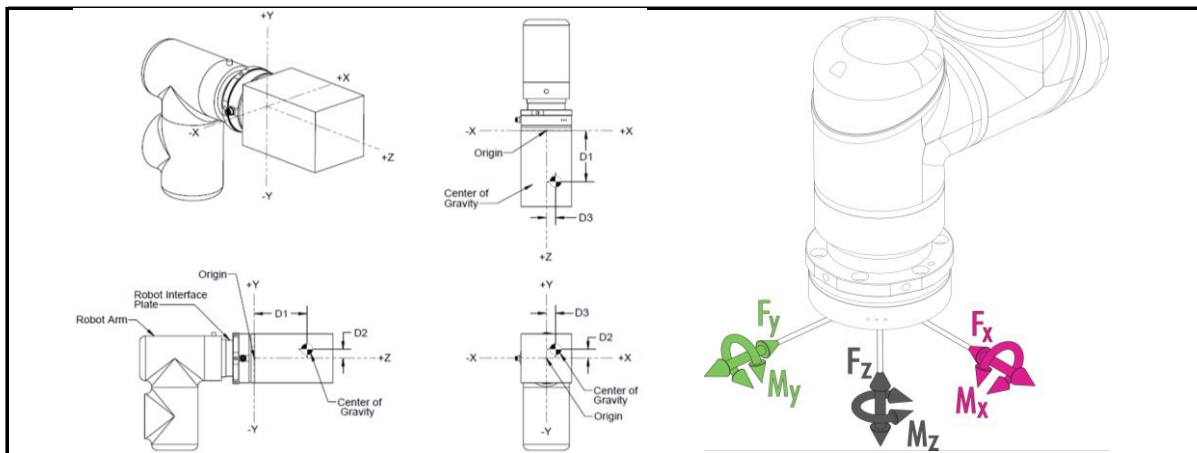
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Application Facts

Robot Brand, Model and Payload respectively Field of Application						
Integration in Robot Controller/ PLC/DAQ/etc.	☐ No	☐ Yes, please specify:				
Max. Robot/Operating Acceleration [G]*	☐ 1	☐ 2	☐ 3	☐ Absolute:	<i>[m/s²]</i>	
* (1: robot running at < 25-50%, 2: robot running at 50-75%, 3: robot running at >75%)						
Ambient Temperature [°C]	Min.			Max.		
IP Rating		☐ No	☐ IP 60	☐ IP 64	☐ IP 65	☐ IP 68

Communication Interface

Ethernet/IP	☐	DAQ	☐
Ethernet	☐	RS-232	☐
DeviceNET	☐	RS-485	☐
CAN Bus	☐	Analog Signal	☐
PROFINET	☐	Wireless LAN	☐
EtherCAT	☐	Other	☐ Please specify:



Center of Gravity (including Workpiece)

Total mass mounted on sensor [kg]	
D1 [mm]	
D2 [mm]	
D3 [mm]	

Measurement Forces & Torque (Pertinent for Measurement)

Process Step	1	Optional 2	Optional 3
Measurement Force Fxy [N]			
Measurement Force Fz [N]			
Measurement Torque Mxy [Nm]			
Measurement Torque Mz [Nm]			

Additional max. Operating Forces and Torques (Independent from Measurement)

Max. Operation Force Fxy [N]	
Max. Operation Force Fz [N]	
Max. Operation Torque Mxy [Nm]	
Max. Operation Torque Mz [Nm]	

Optional: Sensor Resolution & Accuracy

Resolution [N/%FS]	Fxy	Fz
Resolution [Nm/%FS]	Mxy	Mz
Accuracy [N/%FS]	Fxy	Fz
Accuracy [Nm/%FS]	Mxy	Mz

Optional: Further Information & Equipment

Favoured size of sensor	
Favoured Measurement Range [SI-...-...]	
Favoured Cable Length [m]	
Further requirements and/or questions	

[Weblink SCHUNK Force-Torque Sensors](#)

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