

Checklist for sizing a Rotary Unit

General Information:

Customer:	
Customer Number:	
Contact Person:	
Telephone Number:	
E-Mail:	

Application Data:

Rotation Angle [°]	
Cycle Time for 0°-180° [Sec.]	
Cycles per hour [^x /h] - 0°-180°-0°	
Operating Air Pressure [bar]	

Environmental Conditions, i.e. Temperature, Dirty, Oily, etc.

Is position sensing needed?

☐	No		
☐	Yes, via magnetic sensors	☐	Yes, via inductive sensors
Swivel Unit with Fluid Feed Through:		Swivel Unit with Electric Feed Through:	
☐	No	☐	No
☐	Yes	☐	Yes

Swivel Unit with a Middle Position 0° - 90° - 180°:

☐	No Middle Position	☐	Pneumatic Middle Position
		☐	Locked Middle Position
Are there any external forces on the applica		☐ Yes	☐ No

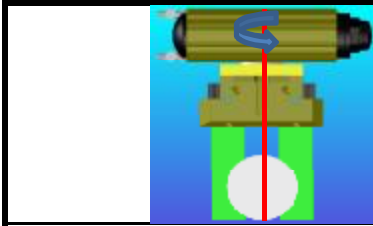
Explanation:

Are there any external accelerations acting on the application?

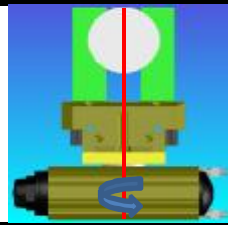
☐	No		
☐	Yes, from a robot	☐	Yes, from an axis handling system

_____ m/sec.²X-Axis = _____ m/sec.²Y-Axis = _____ m/sec.²Z-Axis = _____ m/sec.²

Oriention of the rotary axis ---> vertical:



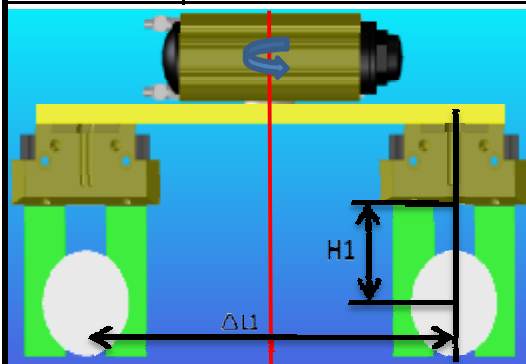
☐ Upside Down (hanging) Construction



☐ Right side up Construction

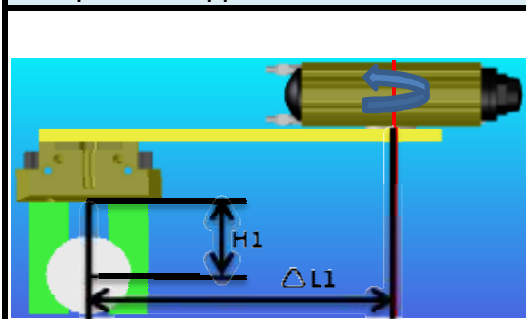
Example 1: 2 Gripper - Symmetrical Assembly

Payload: ☐ One side loaded ☐ Both sides loaded ☐ The loading varies



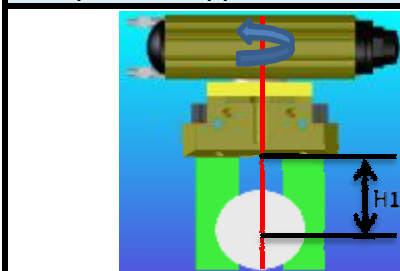
	Dimensions Length x Width x Height [mm]	Mass Kg
Adapter		
Gripper 1		
Gripper 2		
Gripper Finger set 1		
Gripper Finger set 2		
Workpiece		
Dimension L1		
Dimension H1		

Example 2: 1 Gripper - Eccentric Construction



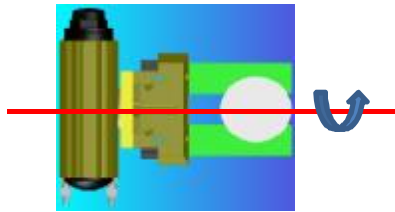
	Dimensions Length x Width x Height [mm]	Mass Kg
Adapter		
Gripper 1		
Gripper 2		
Gripper Finger 1		
Gripper Finger 2		
Workpiece		
Dimension L1		
Dimension H1		

Example 3: 1 Gripper - Centric Construction



	Dimensions Length x Width x Height [mm]	Mass Kg
Adapter		
Gripper 1		
Gripper Finger 1		
Gripper Finger 2		
Workpiece		
Dimension H1		

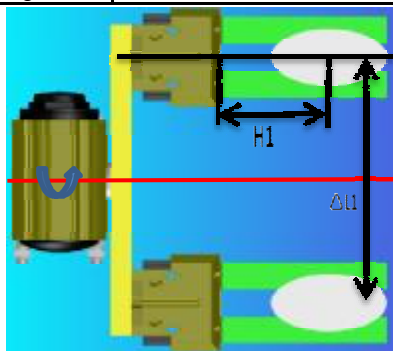
Orientation of the rotary axis ---> horizontal:



☐ Horizontal Mounting

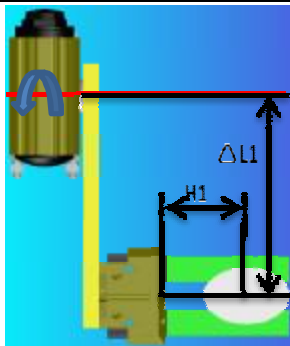
Example 1: 2 Gripper - symmetric construction

Loading: ☐ One side loaded ☐ Both sides loaded ☐ Loading varies



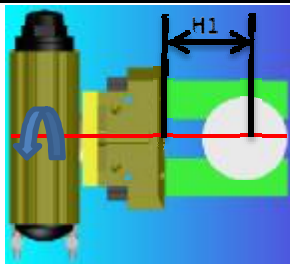
	Dimensions Length x Width x Height [mm]	Mass Kg
Adapter		
Gripper 1		
Gripper 2		
Gripper Finger Set 1		
Gripper Finger Set 2		
Workpiece		
Dimension L1		
Dimension H1		

Example 2: 1 Gripper - Eccentric Construction



	Dimensions Length x Width x Height [mm]	Mass Kg
Adapter		
Gripper 1		
Gripper 2		
Gripper Finger 1		
Gripper Finger 2		
Workpiece		
Dimension L1		
Dimension H1		

Beispiel 3: 1 Gripper - Centric Construction



	Dimensions Length x Width x Height [mm]	Mass Kg
Adapter		
Gripper 1		
Gripper Finger 1		
Gripper Finger 2		
Workpiece		
Dimension H1		

Rotation cycle with a horizontal rotary axis

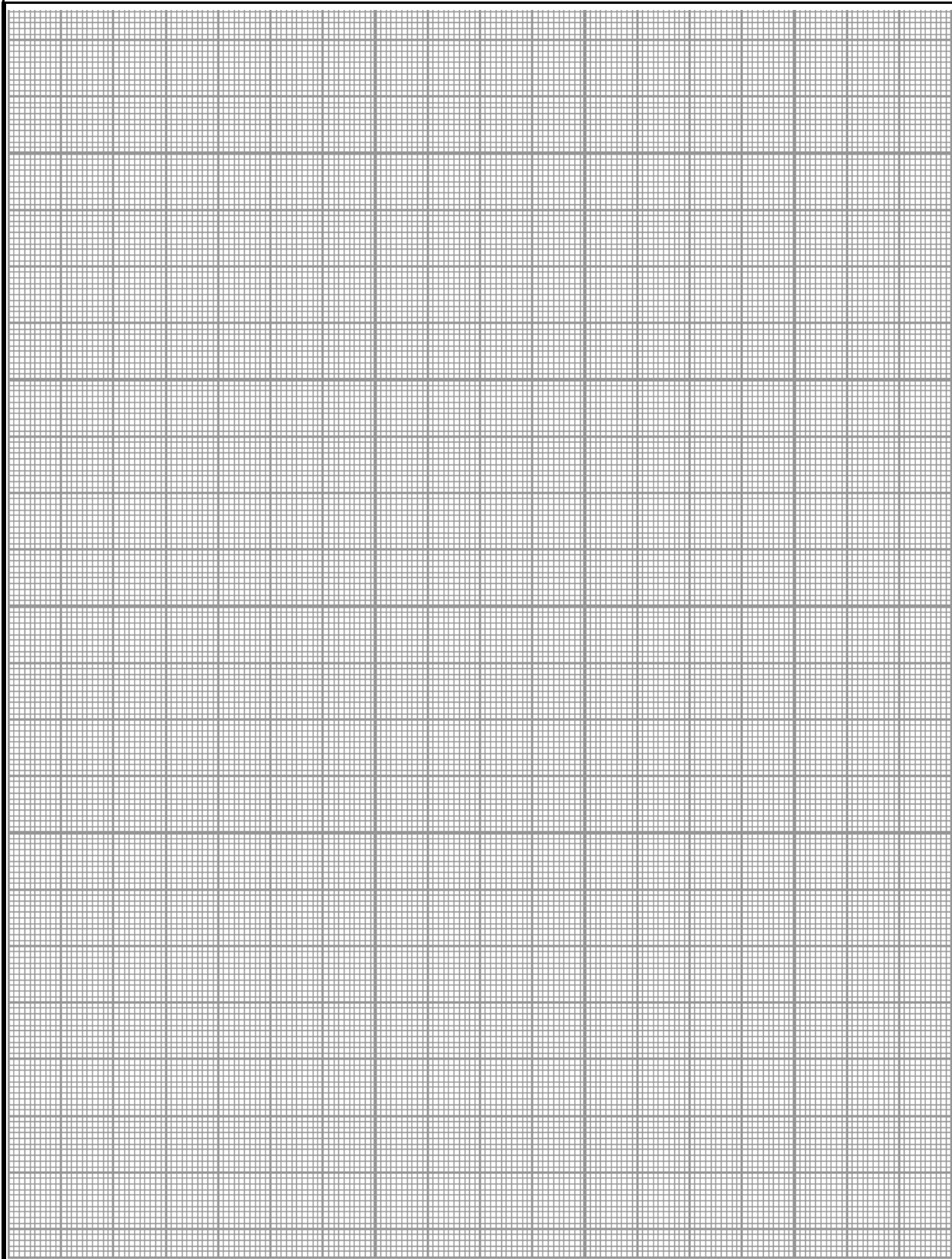


Please explain the rotation cycle using the example below

Example		
Start position 0° at ...	Rotate through ...	End position 180° at ...
3 o'clock	6 o'clock	9 o'clock
↓	↓	↓

Other Construction

For a different type of rotary application, please sketch your application including all individual pieces, dimensions and masses below.



A large rectangular area filled with a fine grid of squares, intended for sketching a rotary application. The grid is composed of small squares, with larger squares formed by groups of smaller ones, creating a hierarchical grid structure for technical drawing.