




Panda

TECHNICAL DATA ^{1,2}

Arm	
degrees of freedom	7 DOF
payload	3 kg
sensitivity	torque sensors in all 7 axes
maximum reach	855 mm
joint position limits [°]	A1: -166/166, A2: -101/101, A3: -166/166, A4: -176/-4, A5: -166/166, A6: -1/215, A7: -166/166
joint velocity limits [°/s]	A1: 150, A2: 150, A3: 150, A4: 150, A5: 180, A6: 180, A7: 180
Cartesian velocity limits	Up to 2 m/s end effector speed limits
repeatability	+/- 0.1 mm (ISO 9283)
interfaces	<ul style="list-style-type: none"> ▪ Ethernet (TCP/IP) for visual intuitive programming with Desk ▪ input for external enabling device ▪ input for external activation device or a safeguard ▪ Control connector ▪ Hand connector
interaction	enabling and guiding button, selection of guiding mode, Pilot user interface
mounting flange	DIN ISO 9409-1-A50
installation position	upright
weight	~ 18 kg
protection rating	IP30
ambient temperature	<ul style="list-style-type: none"> ▪ +15°C to 25°C (typical) ▪ +5°C to + 45°C (extended) ³
air humidity	20% to 80% non-condensing
Control	
interfaces	<ul style="list-style-type: none"> ▪ Ethernet (TCP/IP) for Internet and/or shop-floor connection ▪ power connector IEC 60320-C14 (V-Lock) ▪ Arm connector
controller size (19")	355 x 483 x 89 mm (D x W x H)
supply voltage	100 V _{AC} - 240 V _{AC}
mains frequency	47- 63 Hz
power consumption	<ul style="list-style-type: none"> ▪ max. 600 W ▪ average ~ 300 W
active power factor correction (PFC)	yes
weight	~ 7 kg
protection rating	IP20
ambient temperature	<ul style="list-style-type: none"> ▪ +15°C to 25°C (typical) ▪ +5°C to + 45°C (extended) ³
air humidity	20% to 80% non-condensing

Hand	
parallel gripper	with exchangeable fingers
grasping force	continuous force: 70 N maximum force: 140 N
travel (travel speed)	80 mm (50 mm/s per finger)
weight	~ 0.7 kg
Desk	
platform	via modern web browser
programming	visual & intuitive, dialog-based
Apps	can be composed into complex workflows to create Tasks and Solutions
CE out of the box solutions	
	
Check www.franka.de to see if for your application a CE out of the box solution is available already. If so, you only have to go through an enclosed CE-checklist and you can start using Panda out of the box without performing an additional risk analysis.	

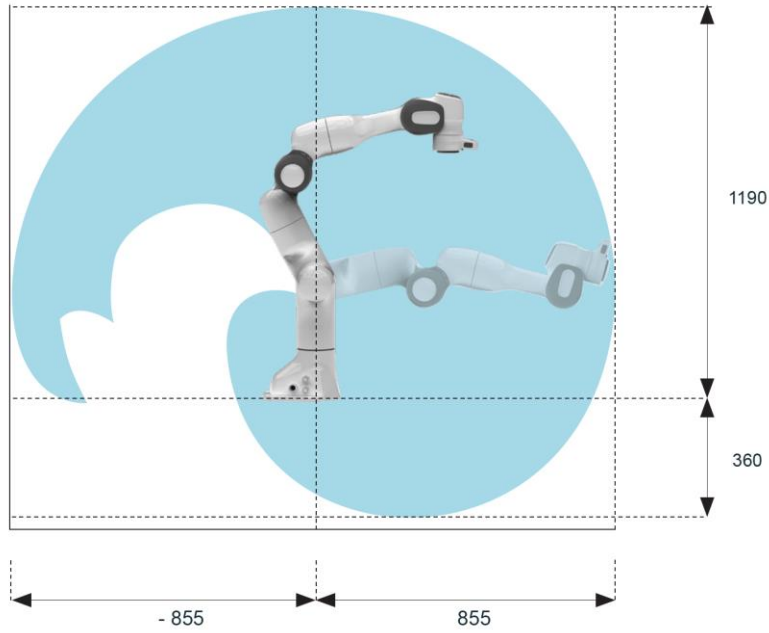
¹ technical data is subject to change

² if you have not purchased a Panda - CE out of the box solution, or don't comply with the CE-checklist the operator is responsible for the performance of a risk analysis and safe operation of the robot in accordance to its intended use and applicable standards and laws.

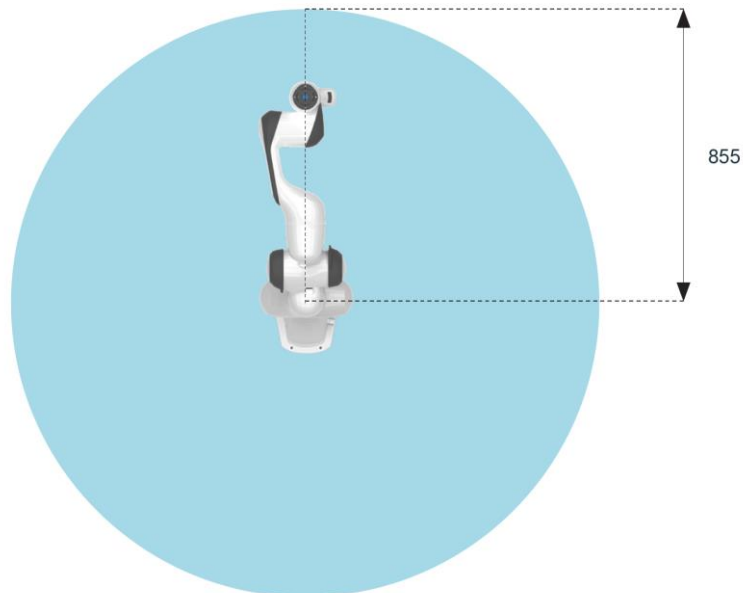
³ performance can be reduced when operating outside the typical temperature range

Panda
WORKSPACE¹

The following illustrations represent the workspace of the Arm. All dimensions in mm.



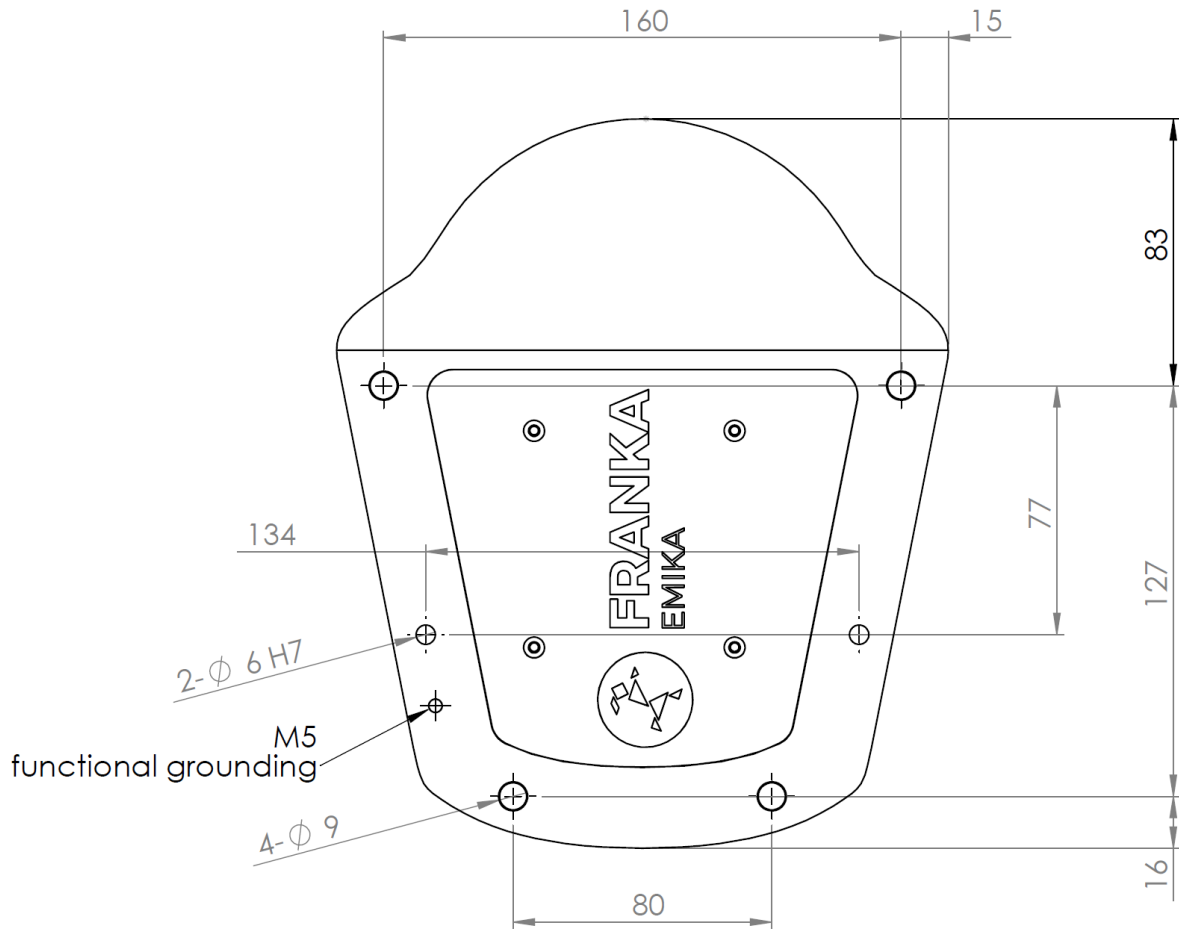
1. Arm workspace side view



2. Arm workspace top view

¹ technical data is subject to change

Panda
FOOTPRINT¹



3. Arm footprint

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