

MIMIC SANDER



The Mimic Sander consists of a Joystick and a Touch screen with integrated Mimic Controller.

The Mimic Sander Joystick has a force- torque sensor build-in.

IN THE BOX

1x Mimic Sander Interface

1x Mimic Sander Joystick

1x Converter box

1x Flange for UR robots

TECHNICAL SPECIFICATIONS

Mimic Sander Interface

Description	Metric
Screen size	17.3"
CPU	Intel® Core i5-7200U, dual core, 2.5GHz, fanless
RAM	8GB DDR4
Hard Drive Capacity	128G SSD
Graphics	CPU Integrated graphics card
Resolution	1920x1080 (16:9)
Interfaces	3xUSB 2.0, 1xUSB 3.0, 1xRJ45, 2xRS232, 1xVGA/HDMI/POWER DC/Power button
WIFI	Yes
Configurable buttons	1x emergency stop 2x push buttons 1x selector switches

Mimic Sander Joystick

Description	Metric
Configurable buttons	Can be mapped to inputs/outputs or Mimic functionality
Force Torque Sensor	See separate table on next page

Force Sensor (NRS-6050-D50)

Build into Sander Joystick

Description		Metric
Compatibility		Windows, Linux, UR & Codesys
Diameter, Ø		50 mm
Height, H		22 mm
Weight		100 g
Operating conditions, temperature		0° to 50°
Operating conditions, humidity		< 85%
Hysteresis		< 0,2 %
Crosstalk		< 5 %
Power requirement (CAN)		5 VDC @ 250 mA
Power requirement (Ethernet)		6-40 VDC @ 1000 mA
Sample rate		< 1000 Hz
Fx Fy	Max force	± 500 N
	Resolution*	0,015 N
	Overload	±700 N
	Signal noise**	0,025 N
	Noise-free resolution	0,1 N
	Full scale non-linearity	< 4%
	Axis deformation	30 µm
Fz	Max force	± 500 N
	Resolution*	0,015 N
	Overload	± 1200 N
	Signal noise**	0,032 N
	Noise-free resolution	0,15 N
	Full scale non-linearity	< 4%
Tx Ty	Max torque	± 10 Nm
	Resolution*	0,32*10 ⁻³ Nm
	Overload	± 15 Nm
	Signal noise**	0,35*10 ⁻³ Nm
	Noise-free resolution	1,5*10 ⁻³ Nm
	Axis deformation	0,2°
Tz	Max torque	± 5 Nm
	Resolution*	0,25*10 ⁻³ Nm
	Overload	± 15 Nm
	Signal noise**	0,4*10 ⁻³ Nm
	Axis deformation	0,05°

*The resolution describes the minimal increment of the different axis. The range and resolution of the sensor may vary depending on factory calibration. It can be expected that a calibrated sensor has a measuring deviation below 3% but is depending on the temperature and humidity of the environment.

**Signal noise is defined as the standard deviation of a one second signal without load

Datasheet

FT Tracker



Converter

Description	Metric
Model	NRS-ETH 2
Compatibility	Windows, Linux, UR & Codesys
Operating temperature	0° to 50°
Operating humidity	< 85 %
Power requirement (CAN)	5 VDC @ 100 mA
Power requirement (Ethernet)	6-40 VDC @ 500 mA