

RH56F1



F1 Dexterous Hand: A Better Fit for Robots

The RH56F1 Series Dexterous Hand features an all-metal, integrated skeleton for superior rigidity. Its software deeply fuses multi sensors with algorithms, enabling multi-mode control. Delivering 1kHz real-time communication, 30kg passive payload, 15N fingertip force, and passing 20 stringent tests—it's a better fit for robots!

PRECISION CRAFTSMANSHIP

ALL-METAL BODY | INNOVATIVE CONCEALED WIRING

INTELLIGENT SENSING

24 SENSORS IN 4 TYPES
TACTILE, FORCE, POSITION, TEMPER

STABLE OPERATION

30KG PASSIVE PAYLOAD | 20-STAGE STRINGENT TESTS



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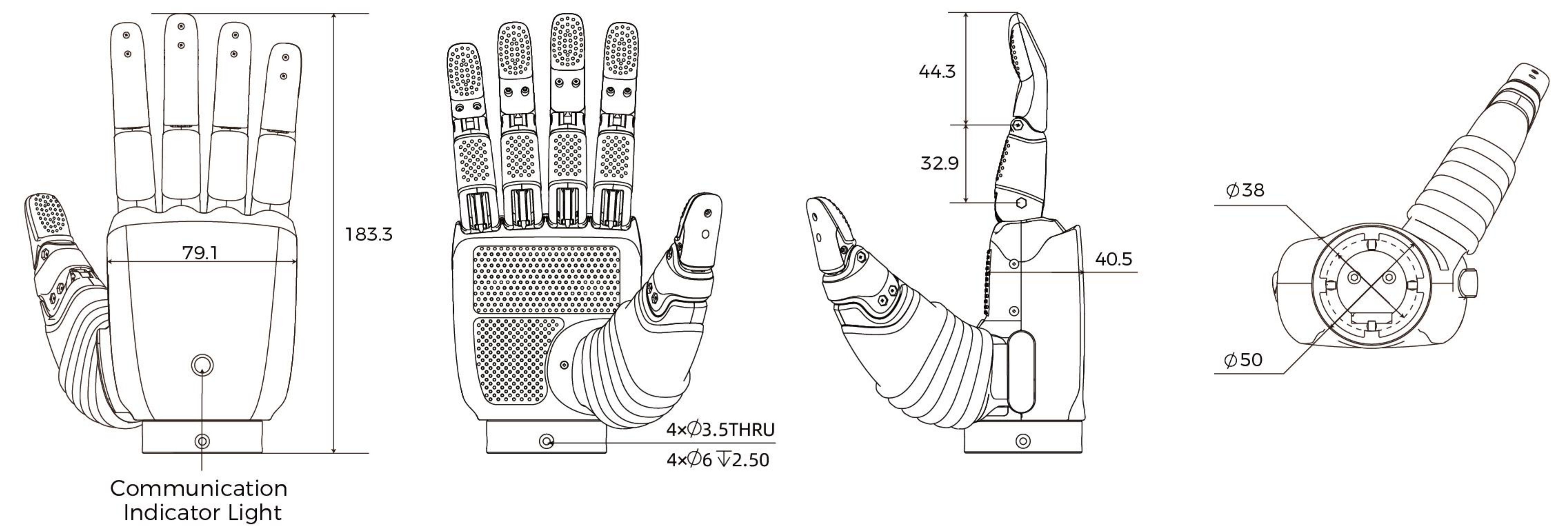
WHITE

SILVER

GREY

Model	RH56F1-E2	RH56F1-E4
Control interface	EtherCAT+RS485	EtherCAT+CAN FD
Degrees of freedom	6	6
Numbers of joints	12	12
Weight	620±10g	620±10g
Operating voltage	24V~48V	24V~48V
Quiescent current	RS485: 194±10mA (24V) EtherCAT: 210±10mA (24V)	RS485: 194±10mA (24V) EtherCAT: 210±10mA (24V)
Peak current	5A @24V	5A @24V
Repeatability	±0.2mm	±0.2mm
Fingertip Strength	≥15N	≥15N
Thumb Fingertip Strength	≥10N	≥10N
Force resolution	0.1N	0.1N
Lateral rotation range of thumb	60-180°	60-180°
Lateral rotation speed of thumb	>155°/s	>155°/s
Flexion speed of thumb	>37°/s	>37°/s
Flexion speed of four finger	>107°/s	>107°/s
Range of tactile sensor	30N	30N
Tactile sensor accuracy	5%FS	5%FS
Number of tactile sensors	8	8
Hand closing time	≤0.8s	≤0.8s

Dimensions



Generation ROBOTS

Brand of **NGX** ROBOTICS



+33 (0)5 56 39 37 05



contact@generationrobots.com



1 rue Pierre-Georges Latécoère 33700 Mérignac, France

www.generationrobots.com

