10002799-1

Preliminary datasheet, values may still change without notice.

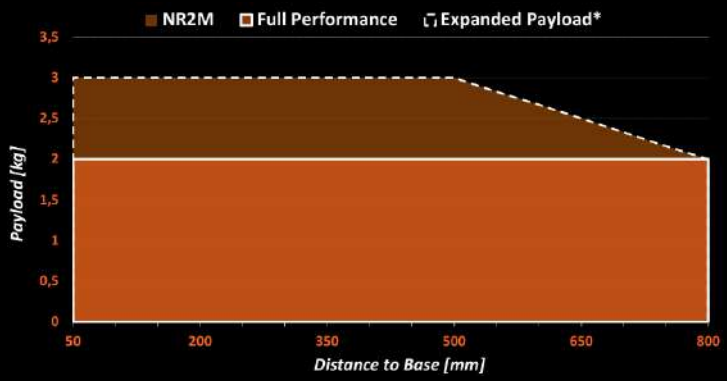
Nate.
NR2M
Robotic Arm for Industrial Automation

NR2 is a range of compact and robust robotic arms, designed and manufactured in France. It is intended for industrial companies, laboratories and integrators looking to rapidly deploy reliable and scalable robotic solutions.

General Specifications

Degrees of Freedom :	6
Payload, kg :	2
Reach, mm :	800
Pose Repeatability, mm : (ISO 9283)	±0,1
Interfaces :	Ethernet / USB / I/O
Programming :	App. NiryoStudio for Nate

Payload Diagram



Note : With specific motion parameters settings.

Kinematics & Motion Range

Max TCP speed, m/s :	3	
Axis Limits	Working Range	Maximum Speed
Joint 1 :	340 °	180 °/s
Joint 2 :	180 °	180 °/s
Joint 3 :	185 °	180 °/s
Joint 4 :	340 °	240 °/s
Joint 5 :	190 °	240 °/s
Joint 6 :	340 °	240 °/s

Environmental & Safety

IP Classification :	IP54
Operating Temperature, °C :	5-45
Noise, dB :	< 70
Humidity, % :	⩽ 75
Power Supply :	100-240 VAC, 50-60 Hz
Power Consumption, W :	300
Safety Standard :	ISO 10218-1
Certification :	CE

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59118 Wambrechies, France
www.niryo.com
contact@niryo.com

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Nate.

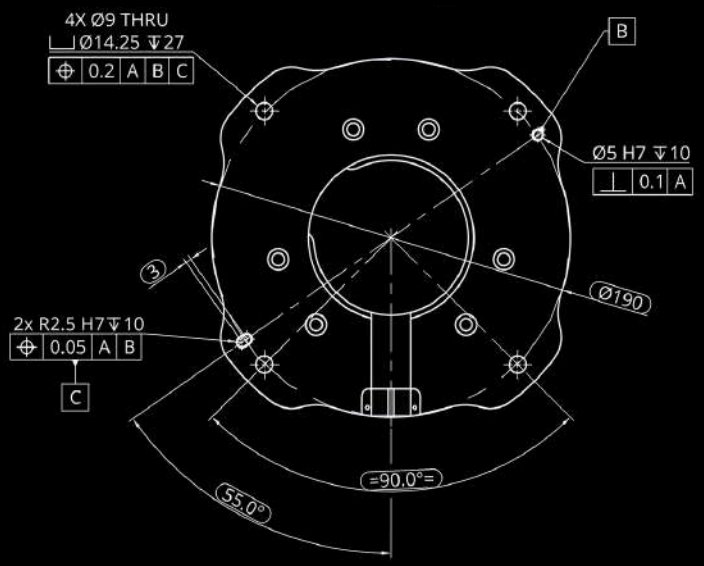
NR2M

Robotic Arm for Industrial Automation

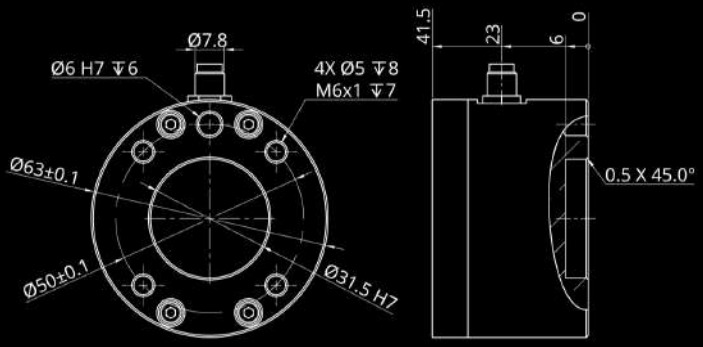
Physical Attributes

Footprint, mm :	Ø 190		
Materials :	Aluminium, Plastic, Steel		
Weight, kg :	17		
Tool Interface :	ISO 9409-1-50-4-M6		
I/O for Tool	Digital In	Digital Out	Analog in
	2	2	2
Connector Type :	M8 8-pin		
Tool Power Supply :	12V / 24V 600 mA		

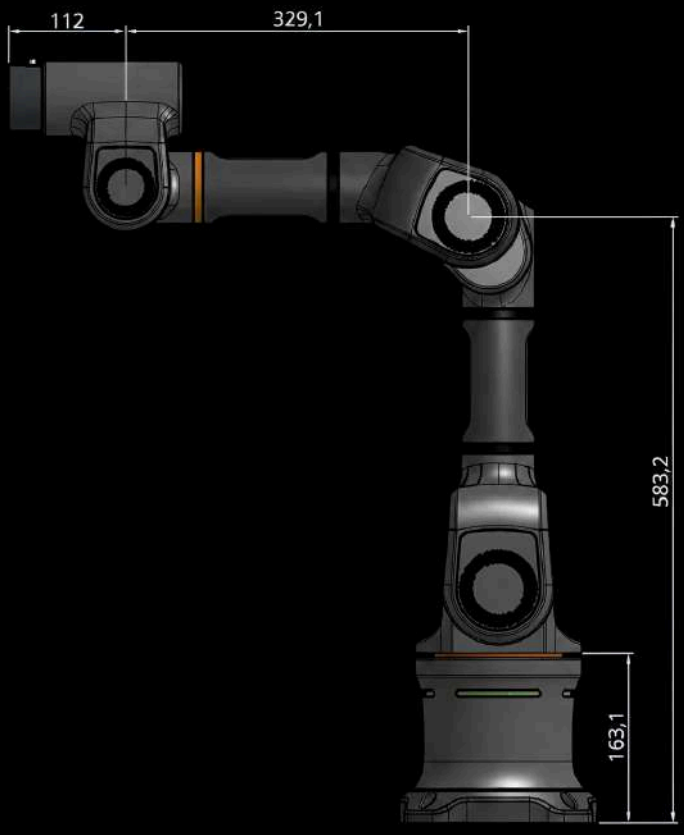
Base Mounting View



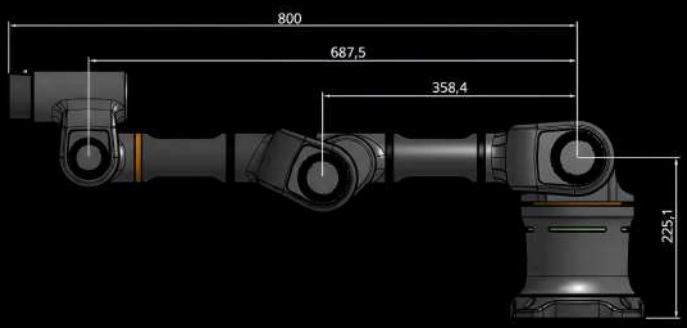
Tool Flange (ISO 9409-1)



Dimensions



Maximum Reach



10002905-1

Preliminary datasheet, values may still change without notice.

Nate.
NR2L

Robotic Arm for Industrial Automation

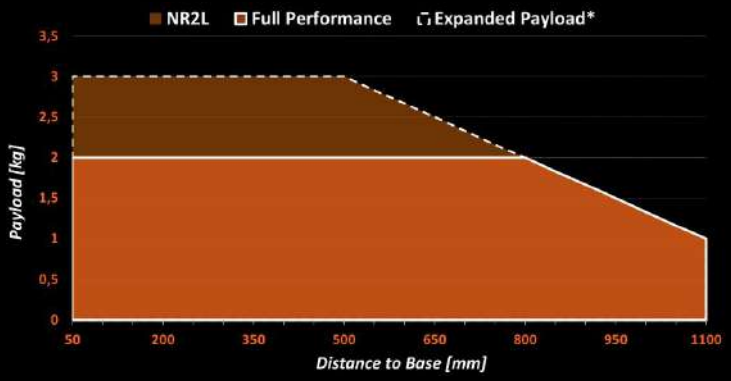
NR2 is a range of compact and robust robotic arms, designed and manufactured in France. It is intended for industrial companies, laboratories and integrators looking to rapidly deploy reliable and scalable robotic solutions.

General Specifications

Degrees of Freedom :	6
Payload, kg :	2*
Reach, mm :	1100
Pose Repeatability, mm : (ISO 9283)	±0,1
Interfaces :	Ethernet / USB / I/O
Programming :	App. NiryoStudio for Nate

Note : **Reach dependent. See Payload diagram for specific limits.*

Payload Diagram



**Note : With specific motion parameters settings.*

Kinematics & Motion Range

Max TCP speed, m/s :	3	
Axis Limits	Working Range	Maximum Speed
Joint 1 :	340 °	180 °/s
Joint 2 :	180 °	180 °/s
Joint 3 :	185 °	180 °/s
Joint 4 :	340 °	240 °/s
Joint 5 :	190 °	240 °/s
Joint 6 :	340 °	240 °/s

Environmental & Safety

IP Classification :	IP54
Operating Temperature, °C :	5-45
Noise, dB :	< 70
Humidity, % :	⩽ 75
Power Supply :	100-240 VAC, 50-60 Hz
Power Consumption, W :	300
Safety Standard :	ISO 10218-1
Certification :	CE

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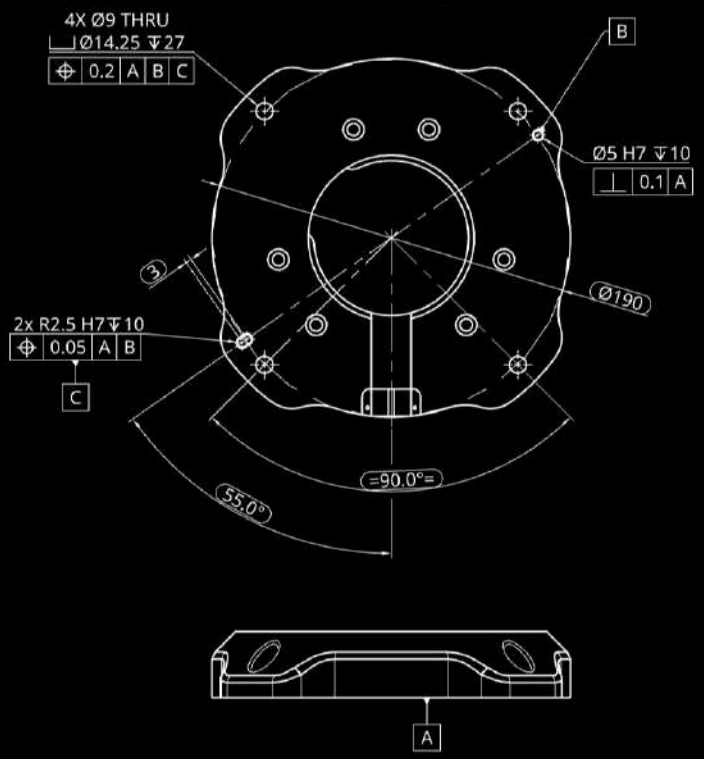
Nate.
NR2L

Robotic Arm for Industrial Automation

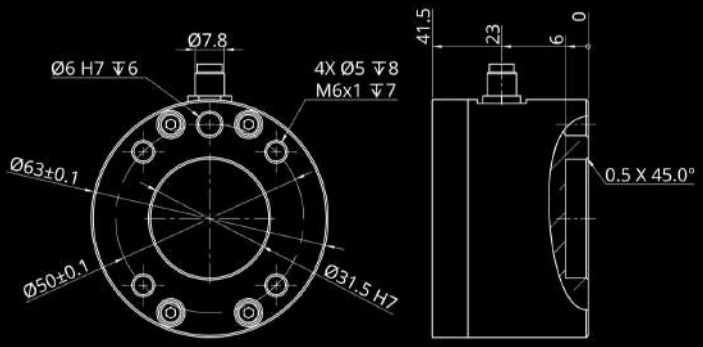
Physical Attributes

Footprint, mm :	Ø 190		
Materials :	Aluminium, Plastic, Steel		
Weight, kg :	19		
Tool Interface :	ISO 9409-1-50-4-M6		
I/O for Tool	Digital In	Digital Out	Analog in
	2	2	2
Connector Type :	M8 8-pin		
Tool Power Supply :	12V / 24V 600 mA		

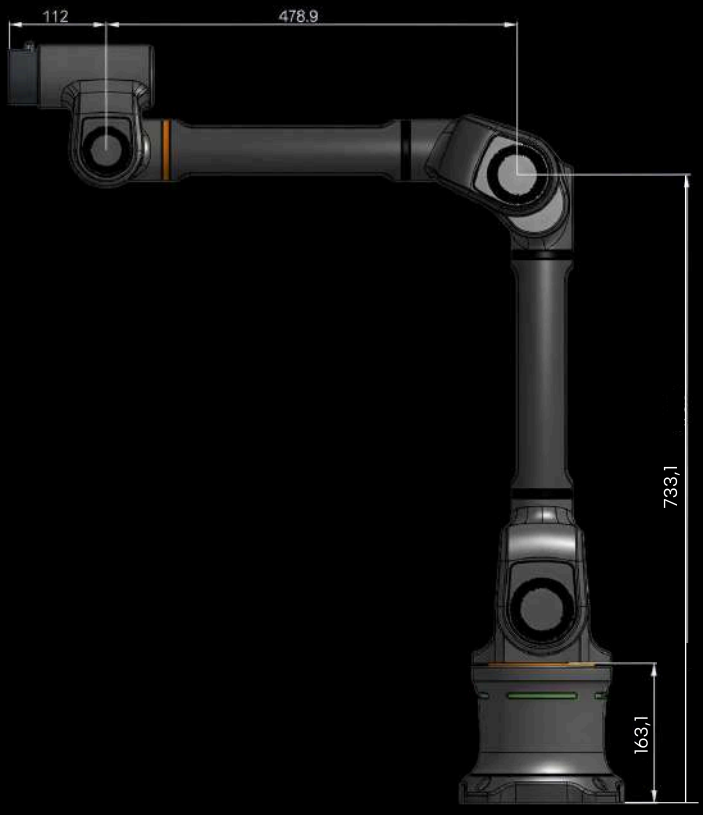
Base Mounting View



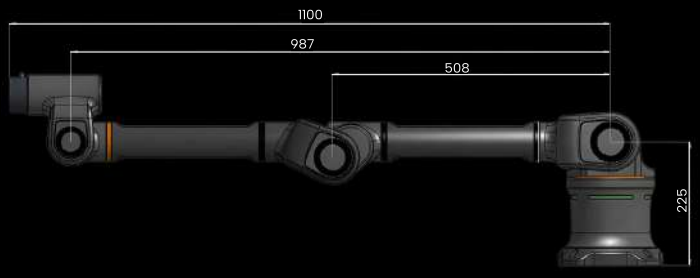
Tool Flange (ISO 9409-1)



Dimensions



Maximum Reach



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Preliminary datasheet, values may still change without notice.

Nate.
NC1000

Powerful and Robust Robot Controller

General Specifications

Power Source :	100-240 VAC, 50-60 Hz
Hardware interfaces :	RJ45 Ethernet Gb/s USB Type-C (Data) USB Type-C (Power & Data) Wi-Fi 6 (802.11ax) BLE (Bluetooth Low Energy)
Industrial Protocols :	ModBus TCP Ethernet/IP
Maximum Power, W :	400
Dimensions, mm (W x D x H) :	445 x 311 X 76
Weight, kg :	8
Robot Cable Length, m :	3
IP Classification :	IP20
Certification :	CE

I/O Panel

Safety I/O

Safety Input :	5
Safety Output :	2

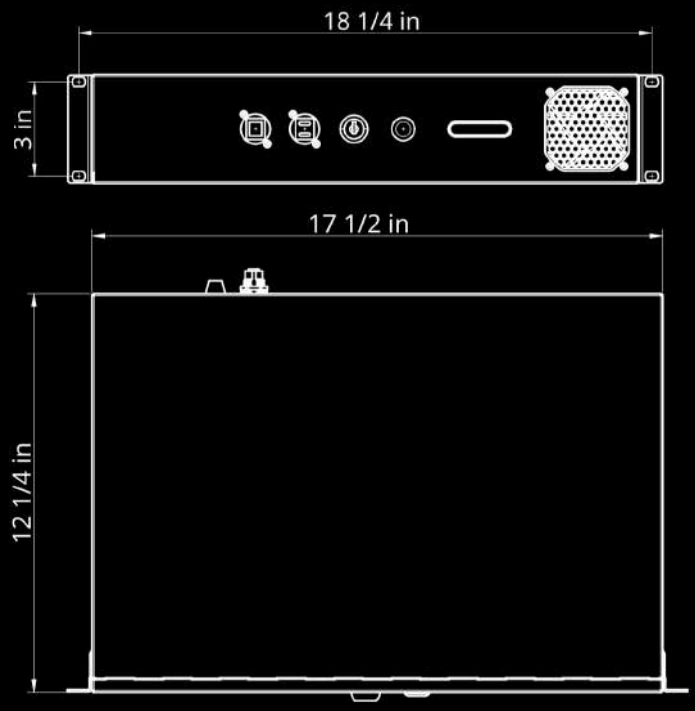
Standard I/O

Digital In :	8
Digital Out :	8
Analog In :	2
Analog Out :	2

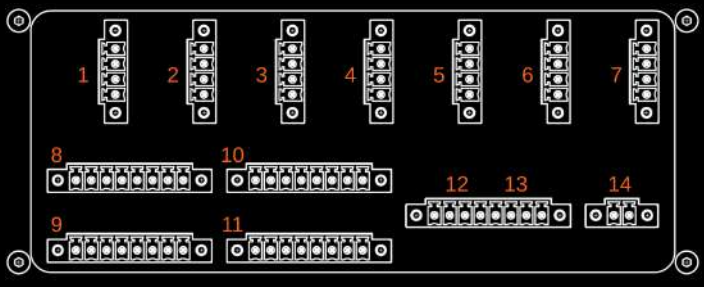
Others I/O

Auxiliary 24 V DCPower Outputs :	8
Remote Power Input :	1

Technical Drawings



Pinouts Detail



1 : Emergency Stop
2 : Reset
3 : Automatic Restart
4 : 3PEnabling Button
5 : Safety Stop
6 : Emergency Active
7 : Robot Initialized
8 : +24 V
9 : GND
10 : Digital Output
11 : Digital Input
12 : Analog Output
13 : Analog Input
14 : Remote Power

NIRYO

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