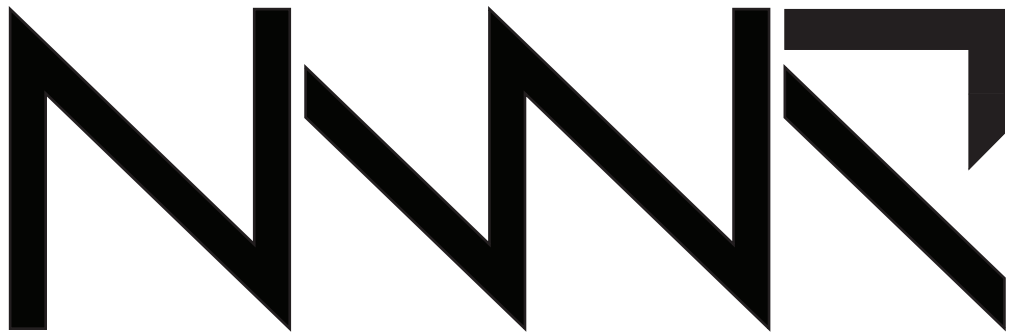


**NOWING**

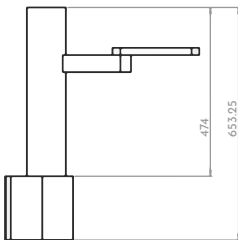
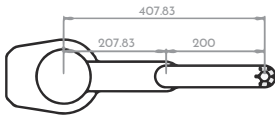
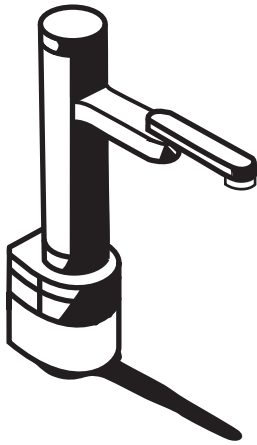
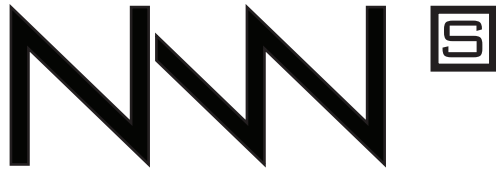
STATE OF THE ART ENGINEERING



robots ready for work

Visit us at [nowing.com](http://nowing.com)

Send us an email at [inquiry@nowing.com](mailto:inquiry@nowing.com)



Length measurements in millimeters

## Specification

Degrees of Freedom	3 rotating joints, 1 linear axis; 4 DOF	
Reach	407.8 mm / 16 in	
Envelope	h = 350 mm, r = 407.8 mm	
Payload	1.5 kg / 3 kg	
Repeatability	0.1 mm	
Range of Motion	Wrist joint	infinite
	Elbow joint	± 300 deg
	Shoulder joint	± 360 deg
	Z joint	± 350 mm
Resolution	Wrist joint	13.5 arcmin
	Elbow joint	66.3 arcsec / 0.06 mm linear distance
	Shoulder joint	48.3 arcsec / 0.05 mm linear distance
	Z joint	0.01 mm
Max operation speed	Wrist joint	360 deg / 0.1 s
	Elbow joint	360 deg / 0.73 s
	Shoulder joint	360 deg / 1 s
	Z joint	100 mm / 0.6 s
Mounting Type	Tabletop, AGV, Ceiling, etc.	
Footprint	inscribes 230 x 150 mm	
Temperature Range	0 - 50 C at average speed	
Materials	Aluminum, Steel, Plastic	
Tool Connection	M3 x 6	
I/O power supply	AC100-240V	
Communication	Socket-based API	through WiFi, Ethernet
	Serial-based API	through USB, optionally I2C, SPI or CAN
Control Box Size	270 x 270 x 200 mm	
Programming	3D user interface can be run on computers, tablets, and cellphones	
	Straightforward API allows entry-level developer to have full control of the robot	
	Supports C, C++, Javascript, Java, .NET etc.	
	Vision integration option (no programming required)	
Warranty	12 month	
Service	Integration, programming, maintenance, and onsite training available	

Start a new age of human-centered production

Expand the scope of human activities

## Vision:

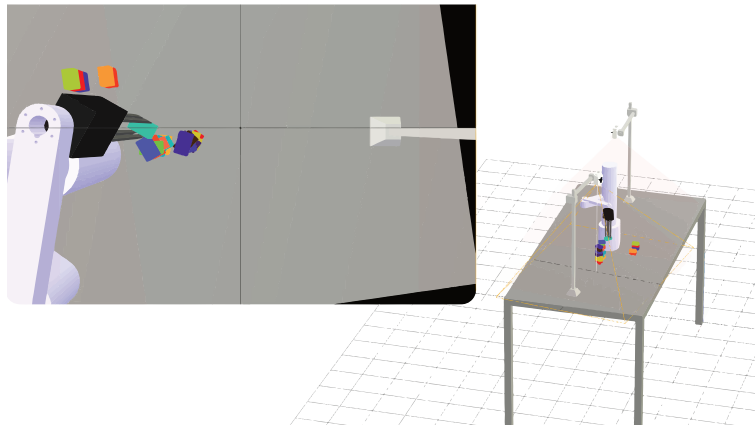
### NWR Sight

- \* Native image processing
- \* HDMI output for realtime monitoring
- \* USB for transfer of images and machine vision algorithms
- \* No programming & zero setup after inserting the detection algorithm
- \* 2D and 3D vision options
- \* On-demand machine learning algorithms

## Software:

### NWR Habitat

- \* 3D online control interface
- \* Vision integration: maps reality into virtual environment, calculates action commands to send back to reality
- \* Control your robot using preferred method:  
G-code entry, free drive mode, 3D virtual control, arm-sight coordination, & intelligent motion planning
- \* Customizable interface and straightforward API
- \* Supports C, C++, Javascript, Java, Net, etc.



## Grippers:

Custom grippers: pneumatic, mechanical,  
3D printerheads and hookups, engraving, welding

## Support:

NOWING 12 month warranty  
Integration and maintenance support  
Programming options include on-demand vision  
and machine learning algorithms

