

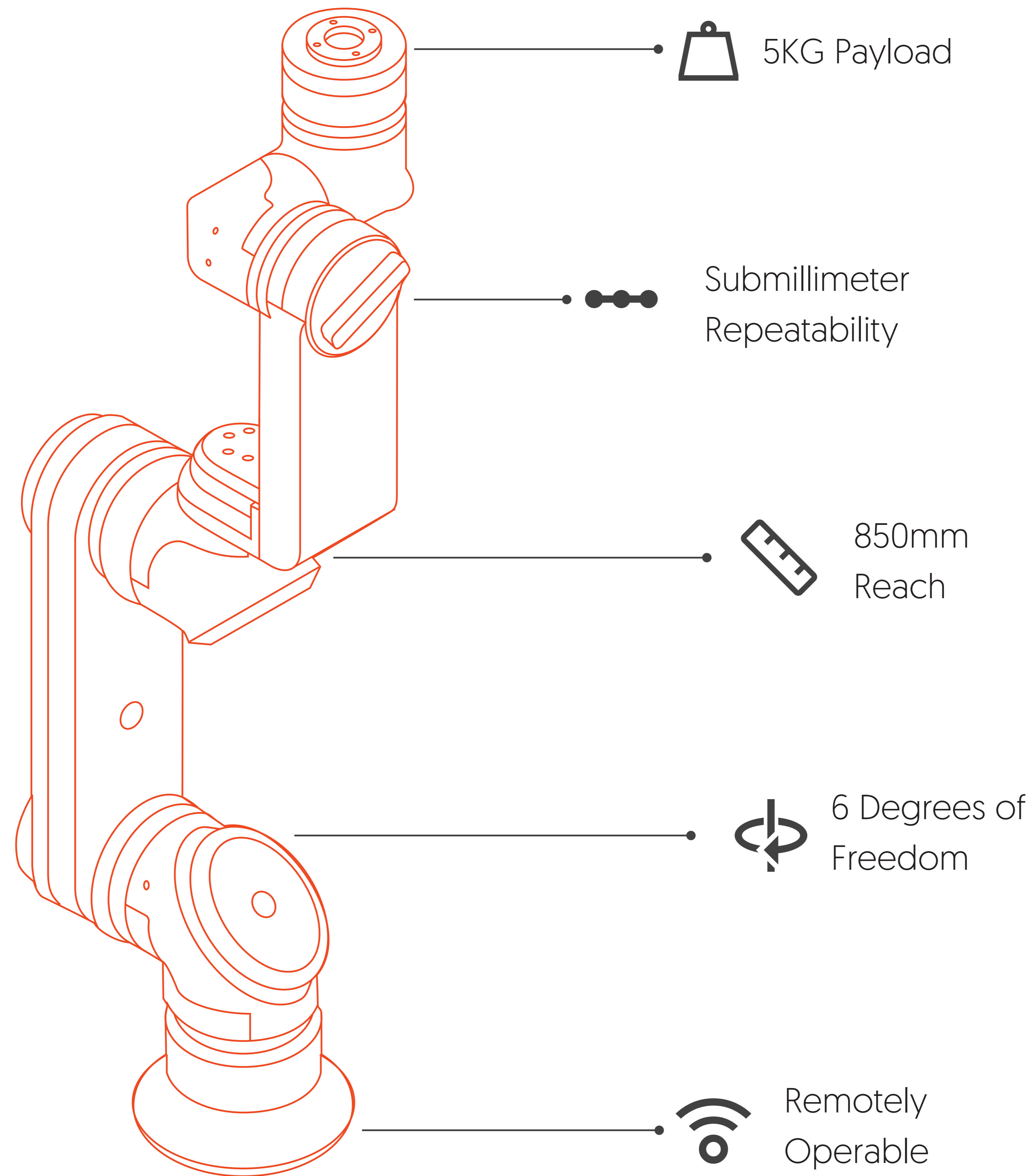
# into the future!

Presenting robotic arms from Orangewood Labs aimed to empower industries.

Running a factory is never easy & automation is the key to ensuring more production. So, we built an affordable automation solution.

Robots have been on factory floors for decades, but their speed and complexity make them dangerous for humans. Our collaborative robots work along with humans using the fastest connectivity to help make them **superhumans!**

At Orangewood Labs, we are making AI powered collaborative robots safe, affordable, and capable of coping with modern-day manufacturing challenges.



# orangewood labs

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## Contact Us

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## notes

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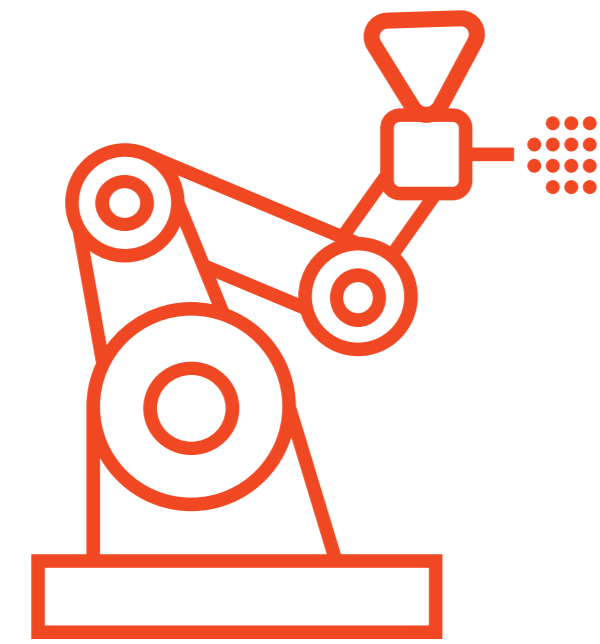
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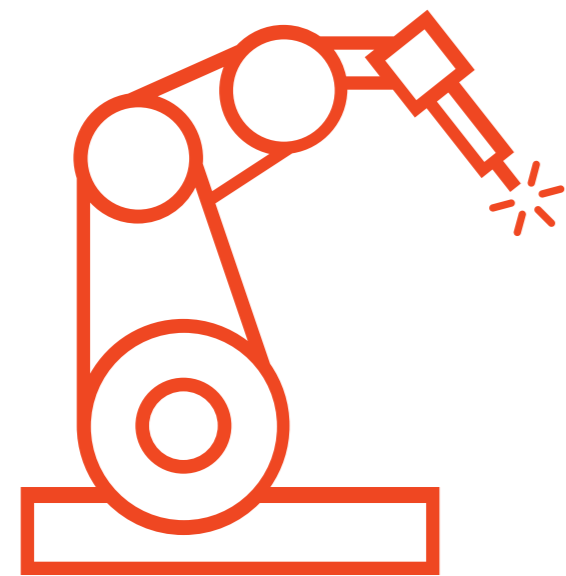
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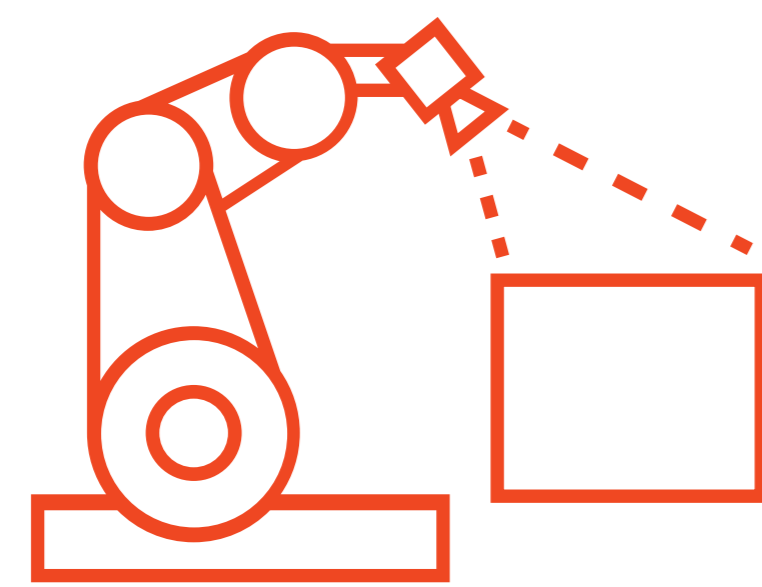
# applications



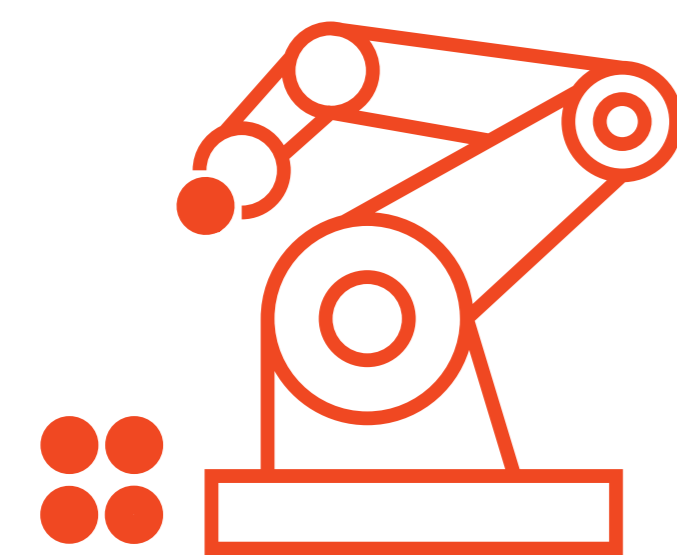
**Powder Coating**



**Welding**



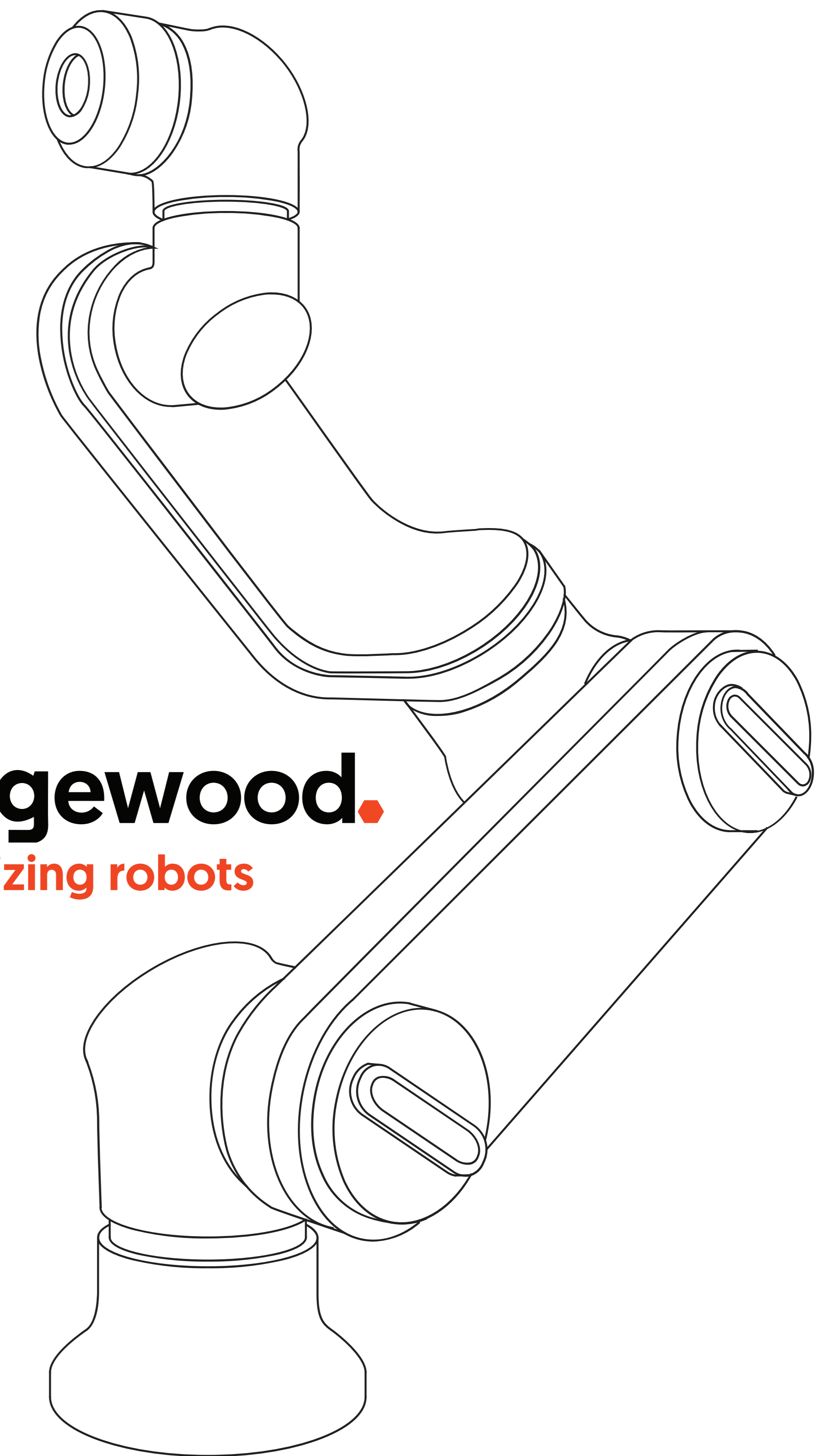
**Quality Inspection**



**Pick and Place**

Weight	28 Kg
Payload	5 Kg
Reach	750 mm
Joint Ranges	Base, Shoulder Elbow, Wrist 2: 180° /sec, wrist 3: 360° /sec
Tool Speed	Tool: 1 m/s
Repeatability	± 0.03 mm*
Footprint	Ø270 mm
Degree of Freedom	6 Rotating Joints
Control box size (WxHxD)	650 mm x 410 mm x 260 mm
I/O Ports	Digital IN: 6, Digital Out: 8, Analog IN: 2 (Extendable with PLC standard I/O cards)
I/O power supply	24V 2A in control box
Communication	TCP/IP 100 Mbit: IEEE 802.3u, 100BASE-TX Ethernet socket & Modbus (OPC compatible)
Programming	Graphical user interface on 7" touchscreen with mounting
Noise	Comparatively noiseless
Power Consumption	Approx. 80 watts
Materials	Aluminium, Plastic, Steel
Temperature	The robot can work in a temperature range of 0-50° C*
Power Supply	100-240 VAC, 50-60 Hzf
Cabling	Cable between robot and control box (7 m)

\* At high continuous joint speed, ambient temperature is reduced  
\* The repeatability mentioned above is achieved during our trials at Orangewood Lab facility



**Orangewood.**  
democratizing robots