



OPTi

COMPACT • SYMMETRIC • PORTABLE

A welding-specialized collaborative robot
optimized for any site, moving easily,
in any direction, anywhere.

Collaborative Robot

A welding-focused collaborative robot designed for flexible deployment and efficient mobility

OPTi

OPTi is Neuromeka’s welding-specialized collaborative robot series, engineered for precision, portability, and ease of use in welding applications. Its compact design and symmetrical structure allow efficient operation in tight workspaces, while minimizing unnecessary movement and optimizing welding add space after period. The OPTi series is available in two models: OPTi3 and OPTi5. The OPTi3 features an ultra-lightweight design weighing less than 11 kg, combined with an ergonomic structure for easy transportation and quick setup. An optional 5-axis open structure further reduces overall weight while improving accessibility and maneuverability.

Built specifically for welding environments, OPTi incorporates welding-friendly materials and finishes to reduce contamination and discoloration. A dedicated tool mounting interface at the robot end allows for quick and secure torch installation and replacement.

With a design optimized for welding performance, mobility, and productivity, the OPTi series helps manufacturers deploy robotic welding automation faster and more efficiently.

Certification

 OPTi5

 OPTi5

 OPTi5



OPTi3

DOF	6(all revolute)
Payload	3 kg
Joint Motion Range	J1: ±360 deg, J2: ±150 deg, J3: ±150 deg, J4: ±360 deg, J5: ±130 deg, J6: ±360 deg
Maximum Joint Speed	J1, J2: 175 deg/s j3: 180 deg/s J4, j5, J6: 220 deg/s
Maximum Tool Speed	1 m/s
Reach(Maximum)	940 mm
IP Rating	IP54
Workspace	630 mm
Repeatability	0.1 mm
Weight	10.9 kg(TBD)



OPTi5

DOF	6(all revolute)
Payload	5 kg
Joint Motion Range	J1: ±360 deg, J2: ±160 deg, J3: ±160 deg, J4: ±360 deg, J5: ±180 deg, J6: ±360 deg
Maximum Joint Speed	J1, J2, J3: 150 deg/s J4, J5, J6: 180 deg/s
Maximum Tool Speed	1 m/s
Reach(Maximum)	1350 mm
IP Rating	IP54
Workspace	900 mm
Repeatability	0.1 mm
Weight	34 kg