HELIX M45 WELD HEAD

THE LATEST TECHNOLOGY IN MULTI-PROCESS WELDING



ALL THE FEATURES AND FUNCTIONS IN A LOWER PROFILE HEAD

The HELIX® M45 is the second innovation in our mechanized HELIX M Series orbital weld heads. With a low radial clearance of 4.5 in. [114 mm], the HELIX M45 weld head allows for digitally controlled, precision welding in areas of limited space and physical constraints. The M45 weld head has a 5 in [127 mm] oscillation/steering stroke offering greater flexibility when setting up the track.

Designed on the Power Wave® platform for advanced, multi-process capabilities, this device also features a pivoting torch height assembly which provides perpendicular height control to the puddle face. Optional on-board wire feeders are also available for GMAW / FCAW and GTAW welding applications.

To optimize clearance, the handles on the machine were designed to rotate. The red color coding makes it easy for new operators to identify where adjustments to the weld head can be made. The weld head also incorporates an inclinometer permitting advanced repeatability and automatic weld parameter changes during the weld process.

The HELIX M45 weld head allows for 45 degrees of outward and inward adjustment. It can be quickly be clamped on to an orbital or flat track. In addition, the operator has multiple toolless torch adjustment options, giving greater control of the weld puddle for more complex welds.

rocesses »

GMAW/FCAW, GTAW, HOT WIRE GTAW

Applications »

Fabrication, Power Generation, Pressure Vessels, Process Pipe

Input »



K52224-1





PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Input Current	Travel Speed in/min [cm/min]	Clearance Radial in. (mm)	e - in (mm) Axial in. (mm)	Oscillation Stroke in (mm)	Motorized Height Control Stroke	Lead/Lag Range	Torc	h Tilt Out	Dimensions HxWxD in (mm)
HELIX M45 Weld Head	K52224-1	24V DC	9A max	0.10 - 120 (0.25 - 305)	4.50 (114.3)	14 (355.6)	5.00 (127)	1.96 [49.784]	+/- 45 °	45º max	45º max	5.08 x 16.63 x 19.70 [129.0 x 422.4 x 500.4]



HELIX M45 Weld Head shown with: K52248-1 Wire Feeder and K52250-25 Torch

RECOMMENDED ACCESSORIES

DESCRIPTION		PRODUCT NUMBER					
HELIX M45 WELD HEAD AND ACCESSORIES							
Weld Head Control Cable 15 ft (4.6 m)		K52107-15					
Weld Head Control Cable 25 ft (7.62 m)		K52107-25					
Weld Head Control Cable 50 ft (15.24 m)		K52107-50					
HELIX M45 Oscillation Arm Extension 6 in (152.4 mm)		K52251-06					
HELIX M45 Oscillation Arm Extension 12 in (304.8 mm)		K52251-12					
HELIX M45 Oscillation Arm Extension 18 in (457.2 mm)		K52251-18					
HELIX M45 Oscillation Arm Extension 24 in (609.6 mm)		K52251-24					
HELIX M45 TORCHES							
Magnum® PRO 550 LP8 Mechanized	GMAW/FLUX	K52250-25					
PTW-18MLP-500 Mechanized	GTAW	K52249-25					
HELIX M45 ONBOARD WIRE FEEDERS & WIRE MANIPULATOR KITS							
HELIX SF70C-1 M45 Onboard Wire Feeder	GMAW	K52248-1					
HELIX SF70C-2 M45 Onboard Wire Feeder	GMAW	K52248-2					
HELIX M45 SF70C-1 Onboard Wire Feeder & Wire Manipulator Kit	GTAW	K52268-1					
HELIX M45 SF70C-2 Onboard Wire Feeder & Wire Manipulator Kit	GTAW	K52268-2					



HELIX M45 Weld Head shown with: K52248-2 Wire Feeder and K52250-25 Torch



K52268-1, Onboard Wire Feeder & Wire Manipulator Kit K52249-25 Torch K52268-2 Onboard Wire Feeder & Wire Manipulator Kit

CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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