

Profi-Line Plasma

Plasma Cutting Unit Thermal Dynamics®

Cuts mild steel, stainless steel, aluminium

The A-60i from Thermal Dynamics is a light, handy plasma cutting system with high cutting performance and top cutting quality. Its low weight of only 15.9 kg makes it the ideal candidate for craft, workshop and industry.

For use as a CNC plasma cutting machine.

The A-60i can be used in even the most demanding environments with a duty cycle of 80 %.

Features

- Wide digital display for cutting current and state indication
- Mode selection
- Current regulation
- Replacement indicator for wear parts
- Gas pressure indication
- Display Torch type and cable length
- Fast change between auto and hand torch by torch status recognition.
- Workpiece cable with Dinse quick release
- CNC interface connection



Pic. A40i CNC / A60i CNC



Pic. A120



CNC interface connector on the rear of the power source

- 3, 4: Plasma-Start/Stop-Signal
- 5, 6: Divided arc voltage
- 10, 11, 13: Platinum contact for ohmic sensing
- 12, 14: OK for feed

Scope of delivery:

1 Machine torch 7,6

Model	A40i CNC	A60i CNC	A80	A120
Supply voltage	400 V, 50/60 Hz, 3-phase			
Output Range	10 - 40 A	10 - 60 A	30 - 80 A	30 - 120 A
Rated input current at max. output power	7,4A	12,3A	28 A	36 A
No-load voltage	300 VDC		260 VDC	
Output power	4,8 kW	7,9 kW	12 kW	15,4 kW
Duty cycle	80% 40A 100% 30A	80% 60A 100% 50A	80% 80A 100% 70A	80% 120A 100% 100A
Mild steel	≈ 5 mm 1345 mm/min.	≈ 12 mm 795 mm/min.	≈ 15 mm 610 mm/min.	≈ 20 mm 720 mm/min.
Stainless steel	≈ 5 mm 715 mm/min.	≈ 12 mm 580 mm/min.	≈ 12 mm 765 mm/min.	≈ 15 mm 1160 mm/min.
Aluminium	≈ 5 mm 1440 mm/min.	≈ 12 mm 845 mm/min.	≈ 15 mm 745 mm/min.	≈ 15 mm 610 mm/min.
Protection class	IP23C			
Insulation class	F			
Cooling	Air			
Measurement (H x W x L) mm	359 x 199 x 536		343 x 248 x 660	
Weight	15,9 kg		28,6 kg	

Plasma cutting torch

Thermal Dynamics®

suitable for Thermal Dynamics® A-Series

Machine torch replacement parts	Item no.
Positioning Tube, Fiberglass, 279 mm (11")	
Rack and Screw	
Torch Holder Sleeve	
Ohmic clip	
Torch Head replacement parts	
Torch Head, SL-100, 180°	
Torch consumables	
O-Ring	
O-Ring	
Electrode, Automation	02.13.03.38232
Heavy Duty Start Cartridge	02.13.03.38277
Cutting nozzle 40A	02.13.03.38208
Cutting nozzle 50/55A	
Cutting nozzle 60A	02.13.03.38210
Cutting nozzle 70A	
Cutting nozzle 80A	02.13.03.38211
Cutting nozzle 90/100A	02.13.03.38212
Cutting nozzle 120A HQ	02.13.03.38233
Protective cap	
External protective cap, MaximumLife®	02.13.03.38237
Shield cup, 40A Machine	02.13.03.38245
Shield cup, 50/60A Machine	02.13.03.38238
Shield cup, 70/100A Machine	02.13.03.38239
Shield cup, 120A Machine	
Shield cup, Deflector	02.13.03.38243
Ohmic clip	02.13.03.38224

