



SYNERGIC MIG PULSE INVERTER

POWERMASTER 320SP

Air Cooled System

3ph 400v Input, 320A Digital Control Synergic MIG Compact System

Process	MIG	FCAW	MMAW		
Part Number	Duty Cycle @ Rated Output		Output Range	Dimensions (H x W x D)	Net Weight
W1000103	60% @ 320A 100% @ 280A		5 - 320 Amps	498 x 340 x 745 mm	35 kg

Part No.	Description
W1000103	320A PowerMaster Mobile Power Source complete with 1.0mm/1.2mm V drive rollers

OPTIONS AND ACCESSORIES

W4000000	Remote Control RC 20
W4001301	Water Recirculator
W4000300	Thermal Arc Inverter Cart
PML36004MD	Smart Torch 3600 4m Tiptronic Air Cooled
PML36003MD	Smart Torch 3600 3m Tiptronic Air Cooled
PMW53004MD	Smart Torch 5300 4m Tiptronic Water Cooled - suits up to 2mm thick material
PMW53003MD	Smart Torch 5300 3m Tiptronic Water Cooled - suits up to 2mm thick material
PMW58004MD	Smart Torch 5800 4m Tiptronic Water Cooled - suits 320SP/400SP/500SP
PMW58003MD	Smart Torch 5800 3m Tiptronic Water Cooled - suits 320SP/400SP/500SP

FEED ROLLS

7977729	0.6/0.8mm Hard Wire V Groove
7977344	0.8/1.0mm Hard Wire V Groove
7977345	1.0/1.2mm Hard Wire V Groove
7977346	1.2/1.6mm Hard Wire V Groove
7977733	0.8/0.9mm Soft Wire U Groove
7977730	1.0/1.2mm Soft Wire U Groove
7977348	1.2/1.6mm Soft Wire U Groove
7977734	0.8/0.9mm Cored Wire V Knurl
7977347	1.2/1.6mm Cored Wire V Knurl
7977372	1.6/2.4mm Cored Wire V Knurl

Machine Specifications

Mains Input Voltage	3ph. 400v
Fuse Rating - Delayed	32A
Arc Voltage Range	15.2 - 30v
Protection Class	IP23
Warranty Period	3 Years

Wire Feed System Specifications

Wire Feed Speed Range	0.1 - 25 m/min	
Wire Drive Type	4 Roll	
Wire Diameter Range	Hard Wire	0.6-1.6mm
	Soft Wire	0.8-1.6mm
	Cored Wire	0.8-2.4mm

Features

100 Programmes accessible from MIG torch Synergic One Knob Control
Twin Pulse (pulse on pulse) welding
Heavy Duty, Tough Case design
Micro processor control with digital display
High efficiency inverter design
Spatter free in majority of welding applications

Benefits

Ensuring fast and flexible control
Arc energy matched to wire feed speed to give excellent welding conditions
TIG quality welds at MIG speeds ideally suited to thin gauge material
Enabling machine to withstand rigor of every day use
User friendly with all parameters - programmes easily viewed
Giving precise arc characteristics at low running costs
Less clean up time, aesthetically pleasing weld appearance



SYNERGIC MIG PULSE INVERTER

POWERMASTER 400SP

Air Cooled System

3ph 400v Input, 400A Digital Control Synergic MIG Separate System

Process	MIG	FCAW	MMAW	Basic Package	
Duty Cycle @ Rated Output	Output Range	Dimensions (H x W x D)	Net Weight		
60% @ 400A 100% @ 350A	5 - 400 Amps	855 x 445 x 1116 mm	112 kg		

BASIC PACKAGE COMPONENTS

Part No.	Description
W1000303	400A PowerMaster Power Source Air Cooled
W3000103	4 Roll Workshop Wire Feeder Air Cooled complete with 1.0/1.2mm V drive rollers
W4000400	1m Air Cooled 70mm Interconnection

PTIONS AND ACCESSORIES

W4000100	Remote Control HR 911
W4001000	Swivel Unit
W4000401	10m air cooled 70mm Interconnection
PML36004MD	Smart Torch 3600 4m Tiptronic Air Cooled
PML36003MD	Smart Torch 3600 3m Tiptronic Air Cooled

FEED ROLLS

7977729	0.6/0.8mm Hard Wire V Groove
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7977345	1.0/1.2mm Hard Wire V Groove
7977346	1.2/1.6mm Hard Wire V Groove
7977733	0.8/0.9mm Soft Wire U Groove
7977730	1.0/1.2mm Soft Wire U Groove
7977348	1.2/1.6mm Soft Wire U Groove
7977734	0.8/0.9mm Cored Wire V Knurl
7977347	1.2/1.6mm Cored Wire V Knurl
7977372	1.6/2.4mm Cored Wire V Knurl

Machine Specifications

Mains Input Voltage	3ph. 400v
Fuse Rating - Delayed	32A
Arc Voltage Range	15.2 - 34v
Protection Class	IP23
Warranty Period	3 Years

Wire Feed System Specifications

Wire Feed Speed Range	0.1 - 25 m/min
Wire Drive Type	4 Roll
Wire Diameter Range	Hard Wire 0.6-1.6mm Soft Wire 0.8-1.6mm Cored Wire 0.8-2.4mm

Features

100 Programmes accessible from MIG torch
Synergic One Knob Control
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Micro processor control with digital display
High efficiency inverter design
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SYNERGIC MIG PULSE INVERTER

POWERMASTER 400SP

Water Cooled System

3ph 400v Input, 400A Digital Control Synergic MIG Separate System

Process	MIG	FCAW	MMAW	Basic Package	
Duty Cycle @ Rated Output			Output Range	Dimensions (H x W x D)	Net Weight
60% @ 400A			5 - 400 Amps	855 x 445 x 1116 mm	112 kg
100% @ 350A					

BASIC PACKAGE COMPONENTS

Part No.	Description
W1000203	400A PowerMaster Power Source with Integrated Water Cooler
W3000203	4 Roll Workshop Wire Feeder Air Cooled complete with 1.0/1.2mm V drive rollers
W4000500	1m 70mm Interconnection

OPTIONS AND ACCESSORIES

W4000100	Remote Control HR 911
W4001000	Swivel Unit
W4000501	10m 70mm Interconnection
PMW53004MD	Smart Torch 5300 4m Tiptronic Water Cooled - suits up to 2mm thick material
PMW53003MD	Smart Torch 5300 3m Tiptronic Water Cooled - suits up to 2mm thick material
PMW58004MD	Smart Torch 5800 4m Tiptronic Water Cooled - suits 320SP/400SP/500SP
PMW58003MD	Smart Torch 5800 3m Tiptronic Water Cooled - suits 320SP/400SP/500SP

FEED ROLLS

7977729	0.6/0.8mm Hard Wire V Groove
7977344	0.8/1.0mm Hard Wire V Groove
7977345	1.0/1.2mm Hard Wire V Groove
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7977348	1.2/1.6mm Soft Wire U Groove
7977734	0.8/0.9mm Cored Wire V Knurl
7977347	1.2/1.6mm Cored Wire V Knurl
7977372	1.6/2.4mm Cored Wire V Knurl

Machine Specifications

Mains Input Voltage	3ph. 400v
Fuse Rating - Delayed	32A
Arc Voltage Range	15.2 - 34v
Protection Class	IP23
Warranty Period	3 Years

Wire Feed System Specifications

Wire Feed Speed Range	0.1 - 25 m/min		
Wire Drive Type	4 Roll		
Wire Diameter Range	Hard Wire	0.6-1.6mm	
	Soft Wire	0.8-1.6mm	
	Cored Wire	0.8-2.4mm	

Features

100 Programmes accessible from MIG torch
Synergic One Knob Control
Twin Pulse (pulse on pulse) welding
Heavy Duty, Tough Case design
Micro processor control with digital display
High efficiency inverter design
Spatter free in majority of welding applications

Benefits

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Enabling machine to withstand rigor of every day use
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SYNERGIC MIG PULSE INVERTER

POWERMASTER 500SP

Water Cooled System

3ph 400v Input, 500A Digital Control Synergic MIG Separate System

Process	MIG	FCAW	MMAW	Basic Package	
Duty Cycle @ Rated Output		Output Range	Dimensions (H x W x D)	Net Weight	
100% @ 500A		5 - 500 Amps	855 x 445 x 1116 mm	121 kg	

BASIC PACKAGE COMPONENTS

Part No.	Description
W1000503	500A PowerMaster Power Source with Integrated Water Cooled
W3000203	4 Roll Workshop Wire Feeder Air Cooled complete with 1.0/1.2mm V drive rollers
W4000600	1m 95mm Interconnection

OPTIONS AND ACCESSORIES

W4000100	Remote Control HR 911
W4001000	Swivel Unit
W4000601	10m 95mm Interconnection
PMW53004MD	Smart Torch 5300 4m Tiptronic Water Cooled - suits up to 2mm thick material
PMW53003MD	Smart Torch 5300 3m Tiptronic Water Cooled - suits up to 2mm thick material
PMW58004MD	Smart Torch 5800 4m Tiptronic Water Cooled - suits 320SP/400SP/500SP
PMW58003MD	Smart Torch 5800 3m Tiptronic Water Cooled - suits 320SP/400SP/500SP

FEED ROLLS

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7977347	1.2/1.6mm Cored Wire V Knurl
7977372	1.6/2.4mm Cored Wire V Knurl

Machine Specifications

Mains Input Voltage	3ph. 400v
Fuse Rating - Delayed	63A
Arc Voltage Range	15.2 - 39v
Protection Class	IP23
Warranty Period	3 Years

Wire Feed System Specifications

Wire Feed Speed Range	0.1 - 25 m/min	
Wire Drive Type	4 Roll	
Wire Diameter Range	Hard Wire	0.6-1.6mm
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