



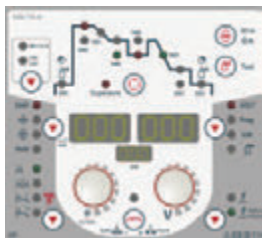
Phoenix 355 • 405 • 505 Progress puls MM TDM

MULTIMATRIX

/forceArc® /forceArc®puls
/rootArc® /rootArc®puls
/Pulse
/superPuls



drive HP



drive LP



| | | |
|---------------------|------|-----|
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- Modular MIG/MAG inverter welding machine, pulse, with separate wire feeder
- Synergic one-knob operation
- Excellent Multimatrix welding characteristics
- Adjustable start and end-crater functions
- Program operation with 16 programs per JOB
- Synergic or manual welding operation
- Equipped at no extra charge with EN 1090 certified Synergic characteristics for EWM forceArc, EWM forceArc puls, EWM rootArc, EWM rootArc puls and superPuls
- Equipped at no extra charge with EN 1090 certified Synergic characteristics for GMAW welding of steel/CrNi/aluminium
- Suitable for MMA welding, TIG welding and gouging at no extra charge
- Infinitely adjustable arc dynamics (choke effect)
- Large power reserves thanks to high duty cycle with all components heating up less as a result, guaranteeing a longer service life for machines when in use
- IP23 spray water protected
- High-precision, powerful EWM eFeed 4-roll wire feed mechanism for secure feeding of all solid and flux cored wires
- Equipped for 1.2 mm steel wire
- Excellent torch cooling, resulting in cost savings on consumables due to high-performance centrifugal pump and 5-litre water tank (cool50 cooling unit)
- Energy-saving thanks to high efficiency and standby function
- Easy, tool-free change of welding polarity
- Earth fault monitoring (PE protection)
- High mains voltage tolerances +20%/-25% and therefore fully generator-compatible
- Ideally suited for use with long hose packages
- Connection capability for remote control and function torch
- Option to network via LAN or WiFi thanks to Multimatrix technology, Xnet-compatible
- Trolley 55-5 trolley and cool50 cooling unit available
- Protective earth monitoring (PE)



| Phoenix | 355 | 405 | 505 |
|---|---------------------------|---------------|---------------|
| Mains voltage (tolerances) | 3 x 400 V (-25 % - +20 %) | | |
| Mains fuses (slow-blow) | 3 x 25 A | 3 x 32 A | |
| Open circuit voltage | 80 V | | |
| Setting range for welding current | 5 A - 350 A | 5 A - 400 A | 5 A - 500 A |
| Duty cycle 40 °C | 350 A / 60 % | – | 500 A / 60 % |
| | 300 A / 100 % | 400 A / 100 % | 430 A / 100 % |
| cos φ | 0.99 | | |
| Efficiency | 88 % | 90 % | |
| Dimensions LxWxH in mm | 625 x 300 x 535 | | |
| Weight | 41 kg | 45 kg | |
| Wire feeder, LxWxH in mm | 660 x 280 x 380 | | |
| Weight, wire feeder | 13 kg | | |
| Dimensions cooling unit in mm | 610 x 300 x 330 | | |
| Weight, cooling unit | 16.5 kg | | |
| Trolley dimensions L x W x H in mm | 1015 x 505 x 1105 | | |
| Transport cart weight | 35 kg | | |



| Type | Designation | Item no. |
|--|--|------------------|
| Phoenix 355 Progress puls MM TDM | Multiprocess MIG/MAG pulse welding machine with MULTIMATRIX technology, decompact, portable, modular | 090-005320-00502 |
| drive 4X HP | Wire feeder, water-cooled, Euro torch connector | 090-005392-00502 |
| drive 4X LP | | 090-005412-00502 |
| MIG W 7POL 70qmm 450A 1m | Intermediate hose package, water-cooled, 7-pole | 094-000406-00000 |
| MIG W 7POL 70qmm 450A 5m | | 094-000406-00001 |
| MIG W 7POL 70qmm 450A 10m | | 094-000406-00002 |
| MIG W 7POL 70qmm 450A 15m | | 094-000406-00004 |
| cool50-2 U40 | Cooling unit with centrifugal pump | 090-008603-00502 |
| MT451W M9 3m | MIG/MAG welding torch, water-cooled | 094-500059-00000 |
| MT451W M9 4m | | 094-500059-00004 |
| MT451W M9 5m | | 094-500059-00005 |
| WK70mm²-4m/Z | Welding lead | 092-000013-00000 |
| DM 842 Ar/CO₂ 230bar 30l D | Pressure regulator with manometer | 394-002910-00030 |
| Trolley 55-5 | Trolley for power source, 1 module, 10 l–50 l shielding gas cylinder, mounted | 090-008632-00000 |
| ON TR Trolley 55-5 | Cross arm and holder for wire feeder | 092-002700-00000 |
| KF 23E-10, -10 | Coolant (-10 °C), 9.3 l | 094-000530-00000 |
| OW CEE 32A | Factory-fit option, mains plug including fitting | 092-008215-00000 |
| KOS26 | Customised configuration with assembly for decompact systems | 092-002685-00001 |
| KOS27 | Commissioning: 1 hour | KOS-V00027-00000 |
| Phoenix 405 Progress puls MM TDM | Multiprocess MIG/MAG pulse welding machine with MULTIMATRIX technology, decompact, portable, modular | 090-005321-00502 |
| drive 4X HP | Wire feeder, water-cooled, Euro torch connector | 090-005392-00502 |
| drive 4X LP | | 090-005412-00502 |
| MIG W 7POL 70qmm 450A 1m | Intermediate hose package, water-cooled, 7-pole | 094-000406-00000 |
| MIG W 7POL 70qmm 450A 5m | | 094-000406-00001 |
| MIG W 7POL 70qmm 450A 10m | | 094-000406-00002 |
| MIG W 7POL 70qmm 450A 15m | | 094-000406-00004 |
| cool50-2 U40 | Cooling unit with centrifugal pump | 090-008603-00502 |
| MT451W M9 3m | MIG/MAG welding torch, water-cooled | 094-500059-00000 |
| MT451W M9 4m | | 094-500059-00004 |
| MT451W M9 5m | | 094-500059-00005 |
| WK70mm²-4m/Z | Welding lead | 092-000013-00000 |
| DM 842 Ar/CO₂ 230bar 30l D | Pressure regulator with manometer | 394-002910-00030 |
| Trolley 55-5 | Trolley for power source, 1 module, 10 l–50 l shielding gas cylinder, mounted | 090-008632-00000 |
| ON TR Trolley 55-5 | Cross arm and holder for wire feeder | 092-002700-00000 |
| KF 23E-10, -10 | Coolant (-10 °C), 9.3 l | 094-000530-00000 |
| OW CEE 32A | Factory-fit option, mains plug including fitting | 092-008215-00000 |
| KOS26 | Customised configuration with assembly for decompact systems | 092-002685-00001 |
| KOS27 | Commissioning: 1 hour | KOS-V00027-00000 |



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|---|--|------------------------------------|
| Phoenix 505 Progress puls MM TDM | Multiprocess MIG/MAG pulse welding machine with MULTIMATRIX technology, decompact, portable, modular | 090-005322-00502 |
| drive 4X HP | Wire feeder, water-cooled, Euro torch connector | 090-005392-00502 |
| drive 4X LP | | 090-005412-00502 |
| MIG W 7POL 95qmm 550A 1m | | 094-000407-00000 |
| MIG W 7POL 95qmm 550A 5m | Intermediate hose package, water-cooled, 7-pole | 094-000407-00001 |
| MIG W 7POL 95qmm 550A 10m | | 094-000407-00002 |
| MIG W 7POL 95qmm 550A 15m | | 094-000407-00006 |
| cool50-2 U40 | | Cooling unit with centrifugal pump |
| MT551W M9 3m | | 094-500060-00000 |
| MT551W M9 4m | MIG/MAG welding torch, water-cooled | 094-500060-00004 |
| MT551W M9 5m | | 094-500060-00005 |
| WK95mm²-4m/Z | Welding lead | 092-000171-00000 |
| DM 842 Ar/CO2 230bar 30l D | Pressure regulator with manometer | 394-002910-00030 |
| Trolley 55-5 | Trolley for power source, 1 module, 10 l-50 l shielding gas cylinder, mounted | 090-008632-00000 |
| ON TR Trolley 55-5 | Cross arm and holder for wire feeder | 092-002700-00000 |
| KF 23E-10, -10 | Coolant (-10 °C), 9.3 l | 094-000530-00000 |
| OW CEE 32A | Factory-fit option, mains plug including fitting | 092-008215-00000 |
| KOS26 | Customised configuration with assembly for decompact systems | 092-002685-00001 |
| KOS27 | Commissioning: 1 hour | KOS-V00027-00000 |

► * Alternative, not included in the final total