



**Approved as
workshop equipment for
Mercedes Benz Service companies**

/ Multiprocess MIG/MAG pulse welding machine

Phoenix 355 Progress puls MM TKM

– the highly versatile machine for vehicle body repair



MIG/MAG welding
and brazing

Vehicle body repair
companies

The multiprocess MIG/MAG pulse welding machine PHOENIX 355 PULS meets all requirements expected of a modern welding machine for vehicle body repair. The Phoenix 355 puls cuts repair times and improves quality thanks to its extremely simple operation and optimum welding characteristics.

All the necessary welding procedures in a single machine

/ MAG welding for all steel panels on vehicles

■ Fillet weld PA, PE ■ Butt weld PE, PF ■ Plug weld PA ■ Slot weld PA

/ MIG brazing for coated and uncoated steel panels

■ Butt weld PE ■ Fillet weld PE, PF ■ Slot weld PB, PC ■ Plug weld PB, PC

/ MIG aluminium welding

■ Fillet weld PE, PF ■ Butt weld PE ■ Pipe

/ MIG brazing can be used in place of most MAG welding tasks and offers advantages in its high corrosion resistance, low distortion, optimum joint strength and less finishing work

Extremely simple operation for short repair times

/ Optimally pre-defined, programmed welding tasks
/ Rapid welding task selection based on:
welding procedure, material type, gas type, wire electrode diameter and plate thickness

Future-oriented

/ Updates possible for aspects such as new characteristics or programs





- Compact inverter welding machine with single-knob Synergic control and integrated wire feed mechanism
- MAG welding for all steel panels on vehicles
- MIG brazing of coated and uncoated steel panels
- MIG aluminium welding
- MMA and TIG welding
- 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
- Powerful, high-precision EWM eFeed 4-roll wire feed mechanism to reliably feed all solid and flux cored wires
- Equipped with 1.0 and 1.2 mm steel wire
- Wire spool diameter up to 300 mm/D3, 200 mm/D2 possible with adapter
- Gas-cooled or optionally water-cooled with cool 50 cooling unit
- Energy-saving thanks to high efficiency and standby function
- Connection capability for remote control and function torch
- 6 m mains lead, Mains plug CEE 16A/400V

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Mains voltage (tolerances)	3 x 400 V (-25% to +20%)
Mains fuse (slow-blow)	3 x 16 A
Open circuit voltage	80 V
Setting range for welding current	5 A-350 A
Duty cycle 40 °C	350 A/40%; 300 A/60%; 270 A/100 %
cos φ	0.99
Efficiency	88%
Welding machine dimensions L x W x H in mm	625 x 300 x 480
Weight of welding machine	33 kg
Transport cart dimensions L x W x H in mm	1015 x 505 x 1105
Transport cart weight	35 kg

Ready-to-use welding machine

Type	Description	Item no.
Phoenix 355 Progress puls MM TKM	Multiprocess MIG/MAG pulse welding machine with MULTIMATRIX technology, compact, portable, modular, Euro torch connector	090-005403-59502
ON TC 55	Tool box for mounting to transport cart Trolley 55-5	092-002899-00000
MT301G PC2X M7 3M MIG/MAG	Welding torch, Powercontrol 2, gas-cooled, with X technology	094-500117-00700
WK50mm² 350A/60% 4m/K	Workpiece lead	092-000003-00000
GH 2x1/4" 2m	Gas hose	094-000010-00001
DMDIN TN 200B AR/MIX 32L, D	Pressure regulator with manometer	094-000009-00001
Trolley 55-5	Transport cart, assembled	090-008632-00000
SRP MT221G/MT301W ST/CR M7	Replacement parts set, steel/chromium nickel	092-013427-30000
SRP MT221G/MT301W AL M7	Replacement parts set, aluminium	092-013427-30001
LPA COMBI 1.5mm x 4.0mm 3m	Combined liner, PA	094-013687-00000
FE 4R 1.0-1.2 MM/0.04-0.045 INCH BLUE/RED	Drive roll set, 37 mm, 4 rolls, V-groove for steel, stainless steel, flux cored wire and brazing	092-002770-00011
AL 4R 1.0 MM/0.04 INCH BLUE/YELLOW	Drive roll set, 37 mm, 4 rolls, U-groove for aluminium	092-002771-00010
SW CuAl8 15kg/Spule 1.0mm	Solid wire electrode Ø mm: 1, packing drum: Spool B300, packing drum kg: 15.00	097-003486-30010
SW 70S G4 15kg/Spule 1.0mm	Solid wire electrode Ø mm: 1, packing drum: Spool B300, packing drum kg: 15.00	097-003451-30010
SW 5356 Mg5 7 KG/Spule 1.0mm	Solid wire electrode Ø mm: 1, packing drum: Spool BS300, packing drum kg: 7.00	097-003645-30010
KOS25	Customised configuration with assembly for portable and compact systems	092-002686-00001
KOS27	Commissioning	KOS-V00027-00000

Package price: 6.500,00 €

Work safety package

Type	Description	Item no.
Powershield II 5-13	Automatic EWM welding helmet	094-013727-00000
PS-PACK	Rucksack for POWERSHIELD helmet	098-003542-00000
FCL 5	Cover lens	094-011321-00001
ICL +/- 0	Inside cover lens, clear	094-013627-00000
SWEAT BAND	Head sweatband	094-011331-00001
SLEEVE	Safety sleeves	098-002279-00000
Lava Brown 107 x 80 cm	Grinding and welding aprons	098-004037-00001
Powershield migGuard XL	MIG/MAG welder's glove with heat protection lining	098-004529-00000
SD 1150°C 1000x1000x1.8mm	Welding safety blanket	098-004076-00000

Package price: 600,00 €