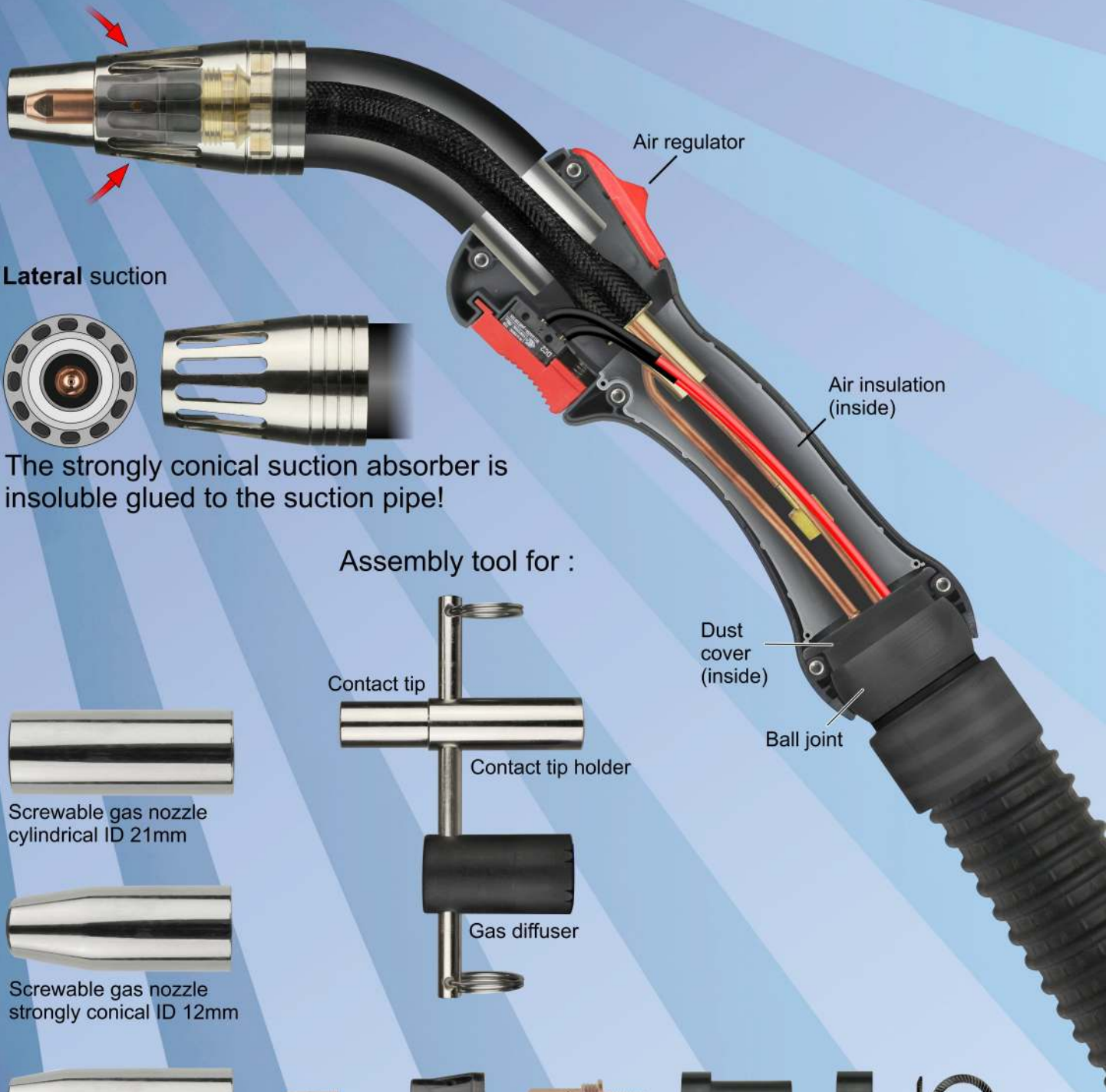
# MHS RAUCH-450-K

water-cooled **screwable**




**Lateral** suction

Frontal view



The strongly conical suction absorber is insoluble glued to the suction pipe!

Assembly tool for :

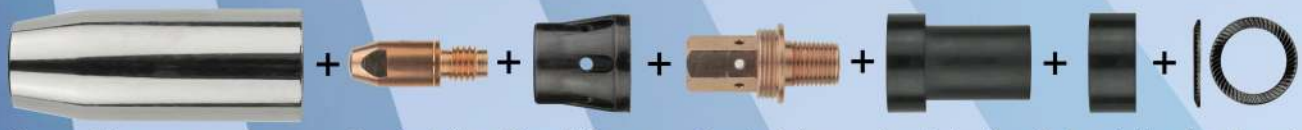





Screwable gas nozzle cylindrical ID 21mm



Screwable gas nozzle strongly conical ID 12mm



Screwable gas nozzle conical ID 16mm | Contact tip M8 x 30 | Gas diffuser "Black Power" | Contact tip holder | Insulated front part with long cylinder | Insulation back | Lock spring washer

550 Amp./100% duty cycle ($CO_2$)

510 Amp./100% duty cycle (mixed gas)

**Spare parts like:**

MHS RAUCH-350-K screwable air-cooled

HSN 870K

# MHS RAUCH-450-K screwable

water-cooled







RAUCH-handle with air regulator
part No. r9193801

Ball jointfits RAUCH - extraction hose
Ø 38mm part No.
r9193804



Contact tip M8 x 30
part No. 830 □ 401
(CuCrZr)
□ **Please fill in wire diameter**



Gas diffuser
"Black Power"
part No.
r9120007



Contact tip
holder
part No.
r9800002



Insulated front
part with long
cylinder
part No.
r9121001



Insulation
back
part No.
r9121002



Lock spring
washer
part No.
r9120008



Screwable gas nozzle
strongly conical ID 12mm
part No. r9310001



Screwable gas nozzle
conical ID 16mm
part No. r9300001

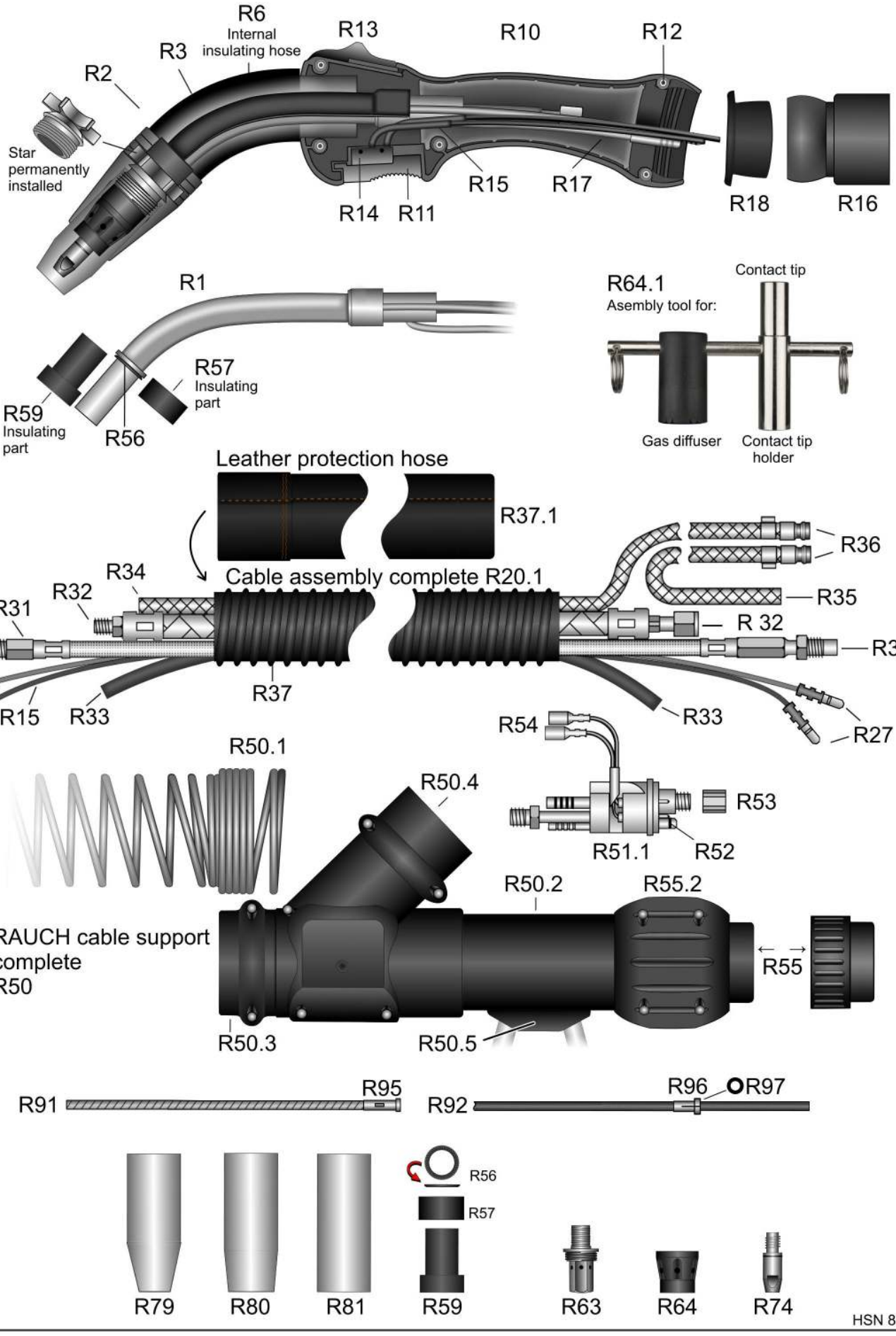


Screwable gas nozzle
cylindrical ID 21mm
part No. r9330001

HSN 871K

# MHS RAUCH-450-K water-cooled screwable

550 Ampere at 100% duty cycle ($CO_2$) - 510 Ampere at 100% duty cycle (mixed gas)



# MHS RAUCH-450-K screwable

## Welding-torch MIG-MAG water-cooled

## 550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)

| | Art.-No. | |
|---|---|---|
| | | **Spare parts as torch MHS RAUCH-350-K screwable gas-cooled** |
| | r4501311 | Torch MHS RAUCH-450-K screwable / 3m EURO central adapter exhaust hose ID38mm |
| | r4501411 | Torch MHS RAUCH-450-K screwable / 4m EURO central adapter exhaust hose ID38mm |
| | r4501511 | Torch MHS RAUCH-450-K screwable / 5m EURO central adapter exhaust hose ID38mm |
| | | **For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.** |
| | r4501301 | Torch MHS RAUCH-450-K screwable / 3m exhaust hose ID38mm |
| | r4501401 | Torch MHS RAUCH-450-K screwable / 4m exhaust hose ID38mm |
| | r4501501 | Torch MHS RAUCH-450-K screwable / 5m exhaust hose ID38mm |
| | | |
| R1 | r4509101 | Torch body MHS RAUCH-450-SC fits version screwable + pluggable |
| R2 | r4509107 | Fume extraction tube K fits torch body RAUCH-350-SC/450-SC screwable |
| R3 | r4509177 | Fume extraction tube K fits screwable gas nozzle with torch body, complete with all consumables (contact tip 1,2) |
| R6 | r2509121 | Section of silicone/glas insulating hose ID12,6-L125mm heat resistant up to 200°C Shorten to appropriate length if required |
| | | **RAUCH-handle complete with air-slider, switch and all sundries. Please order ball joint, dust cover and RAUCH air insulation separately.** |
| R10 | r9193801 | RAUCH-handle black |
| R11 | 91912439 | Push button red for Ratio handle also fits RAUCH handle |
| N.i. | 91912441 | Spring fits button Ratio grip handle and RAUCH grip handle |
| R12 | 91920703 | M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support |
| N.i. | 91920702 | Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support |
| R13 | r9193802 | RAUCH-air slider red |
| R14 | 91912538 | RAUCH microswitch DC2 fits RAUCH handle with 2 contacts (close only) |
| | | **Reel goods: Prices are per meter and only applicable if a complete reel is purchased.** |
| R15 | 91902424 | Meter control line 2x0,75mm² Polyolefin green up to 145°C (100m) |
| | | |
| R16 | r9193804 | RAUCH-ball joint fits hose ID38mm |
| R17 | r9193816 | RAUCH air insulation inlet, 2 halves, for optimal heat shielding in the handle area |
| R18 | r9193817 | RAUCH dust cover fits RAUCH handle |
| | | **Cable assembly for EURO central adapter consisting of: Exhaust hose, wire conduit, power/watercable, water hose, gas hose and control line.** |
| R20.1 | ven91311 | Spare cable assembly RAUCH-330 / RAUCH-450-SC 3m / without EURO central adapter, exhaust hose ID38mm, complete with ball joint and appr. 2,2m leather protection sleeve |
| R20.1 | ven91411 | Spare cable assembly RAUCH-330 / RAUCH-450-SC 4m / without EURO central adapter, exhaust hose ID38mm, complete with ball joint and appr. 2,2m leather protection sleeve |
| R20.1 | ven91511 | Spare cable assembly RAUCH-330 / RAUCH-450-SC 5m / without EURO central adapter, exhaust hose ID38mm, complete with ball joint and appr. 2,2m leather protection sleeve |
| | | |
| R27 | 91902901 | Male connector cable-plug for machine side EURO central adapter |
| | | |
| R31 | r950e311 | Wire conduit RAUCH / 3m EURO central adapter (PA) black (hard) |
| R31 | r950e411 | Wire conduit RAUCH / 4m EURO central adapter (PA) black (hard) |

## MHS RAUCH-450-K screwable

### Welding-torch MIG-MAG water-cooled

### 550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)

| | Art.-No. | |
|---|---|---|
| R31 | r950e511 | Wire conduit RAUCH / 5m EURO central adapter (PA) black (hard) |
| | | **HT 130 TPE heat-resistant special fabric hose,<br>especially resistant against welding spatters and fume** |
| R32 | r9400315 | HT 130 TPE power/water cable RAUCH / 3m EURO central adapter blue |
| R32 | r9400415 | HT 130 TPE power/water cable RAUCH / 4m EURO central adapter blue |
| R32 | r9400515 | HT 130 TPE power/water cable RAUCH / 5m EURO central adapter blue |
| | | **Reel goods:<br>Prices are per meter and only applicable if a complete reel is purchased.** |
| N.i. | r3800001 | Meter exhaust hose ID38mm (18m) |
| R33 | 41500005 | Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m) |
| R34 | 50172005 | Meter HT 130 TPE fabric hose ID5,0-W1,7mm blue for water "RAUCH" (100m) |
| R35 | 50171005 | Meter HT 130 TPE fabric hose ID5,0-W1,7mm red for water "RAUCH" (100m) |
| N.i. | 81000001 | Meter PUR protection hose ID8,5-W1mm fits water hoses OD8,4mm (200m) |
| N.i. | s5080001 | Meter shrinking hose, heatresistant 2:1, ID50,8mm (5m) |
| | | |
| R36 | 91901001 | Cooling liquid plug nipples EURO |
| N.i. | 91901008 | Closing cap blue fits cooling liquid plug nipples EURO |
| N.i. | 91901009 | Closing cap red fits cooling liquid plug nipples EURO |
| | | |
| R37 | r3800311 | Section of exhaust hose 2,4m ID38mm / for 3m RAUCH torch |
| R37 | r3800411 | Section of exhaust hose 3,4m ID38mm / for 4m RAUCH torch |
| R37 | r3800511 | Section of exhaust hose 4,4m ID38mm / for 5m RAUCH torch |
| R37.1 | r3800011 | Leather-sleeve ID50mm appr. 2,2m long, for fume extraction hose ID-38mm |
| | | |
| N.i. | r3800313 | Fume extraction hose (section) ID38mm for RAUCH torch 3m/EURO central adapter<br>complete with ball joint, appr. 2,2m leather attached with shrinking hose |
| N.i. | r3800413 | Fume extraction hose (section) ID38mm for RAUCH torch 4m/EURO central adapter<br>complete with ball joint, appr. 2,2m leather attached with shrinking hose |
| N.i. | r3800513 | Fume extraction hose (section) ID38mm for RAUCH torch 5m/EURO central adapter<br>complete with ball joint, appr. 2,2m leather attached with shrinking hose |
| R50 | 91700001 | Fume central adapter connection-system for water-cooled torches complete. Consisting of:<br>91700061 + 91700011 + 91700021 + 91700031 + 91700051 + 91700041 + 91900702 |
| R50.1 | 91912611 | Cable support spring machine side fits RAUCH Holch cable support |
| R50.2 | 91700061 | Fume central adapter / fume protected area to connect support lines,<br>lateral mouth for rubber grommet, 2 halves complete with bushing<br>and screws and 1 red O-ring ID33-W2mm (red) |
| R50.3 | 91700011 | Fume central adapter chamber rotatable 360°. 2 halves complete with bushing,<br>screws and 2 O-rings ID46-W2mm (red). Fits to genuine Holch extraction connection adapter 45°<br>and central adapter connection chamber |
| R50.4 | 91700021 | Fume central adapter extraction connection 45°, 2 half pieces complete with bushes and<br>screws. Only for genuine Holch central adapter rotatable extraction chamber |
| N.i. | 91700031 | Fume central adapter membrane OD35-8mm thick for the genuine Holch fume protected<br>central adapter connection chamber for water-cooled RAUCH fume extraction torch |
| N.i. | 91920702 | Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support |
| N.i. | 91920703 | M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support |
| N.i. | 91900601 | Attachment screw M4x6mm fits cable support EURO central adapter |
| R50.5 | 91700051 | Fume central adapter rubber grommet with 2 inlets for water lines<br>for the genuine Holch fume protected central adapter connection chamber |
| N.i. | r9131002 | Special high heat resistant O-ring ID33mm-W2mm for fume extraction connection chamber |

# MHS RAUCH-450-K screwable

## Welding-torch MIG-MAG water-cooled

## 550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)

| | Art.-No. | |
|---|---|---|
| N.i. | 91700111 | Special high heat resistant O-ring ID46mm-W2mm fits fume extraction chamber |
| | | |
| R51.1 | 91900206 | Central adapter spring contact-pins EURO central adapter |
| R51.1 | 91900201 | Central adapter fixed contact-pins EURO central adapter |
| R52 | 91900801 | O-ring ID4-W1mm fits gas-nipple EURO central adapter |
| R53 | 91900901 | Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter |
| R54 | 91903001 | Female connector cable-plug fits machine side EURO central adapter |
| | | |
| R55 | 91900702 | Terminal nut insulated fits EURO central adapter (widened fits RAUCH) |
| R55.2 | 91700041 | Strengthening for terminal nut EURO central adapter<br>2 halves complete with bushing and screws (black) |
| | | |
| R56 | r9120008 | Lock spring washer for RAUCH-350-SC / RAUCH-450-SC |
| R57 | r9121002 | HT-insulation black power fits RAUCH-350 / RAUCH-450 (at the rear)<br>with lock spring washer |
| R59 | r9121001 | HT-insulation black power fits RAUCH-350-SC / RAUCH-450-SC (front)<br>with long cylinder |
| R63 | r9800002 | Contact tip holder M8 with OT-M16x1 fits gas diffusor |
| R64 | r9120007 | HT gas-diffusor black power with rib-like gas conduit, IT-M16x1, 18mm tapped |
| R64.1 | 91917213 | RAUCH-350/450 wrench for contact tip(SW8) / contact tip holder(SW11) / gas-diffusor |
| | | |
| R74 | 83008401 | Contact tip M8-L30-D10 CuCrZr 0,8 |
| R74 | 83010401 | Contact tip M8-L30-D10 CuCrZr 1,0 |
| R74 | 83012401 | Contact tip M8-L30-D10 CuCrZr 1,2 |
| R74 | 83014401 | Contact tip M8-L30-D10 CuCrZr 1,4 |
| R74 | 83016401 | Contact tip M8-L30-D10 CuCrZr 1,6 |
| R74 | 83020401 | Contact tip M8-L30-D10 CuCrZr 2,0 |
| | | |
| R74 | 83008a01 | Contact tip M8-L30-D10 0,8-A for aluminium wire |
| R74 | 83010a01 | Contact tip M8-L30-D10 1,0-A for aluminium wire |
| R74 | 83012a01 | Contact tip M8-L30-D10 1,2-A for aluminium wire |
| R74 | 83016a01 | Contact tip M8-L30-D10 1,6-A for aluminium wire |
| | | |
| R79 | r9310001 | Screwable gas nozzle conical-ID12mm (long cone) |
| R80 | r9300001 | Screwable gas nozzle conical-ID16mm |
| R81 | r9330001 | Screwable gas nozzle cylindric ID21mm |
| | | **Spirals and liners also available in other sizes on inquiry!** |
| R91 | 19390311 | Guide spiral-liner ID1,9-AD3,9 fits 3m / EURO central adapter |
| R91 | 19390411 | Guide spiral-liner ID1,9-AD3,9 fits 4m / EURO central adapter |
| R91 | 19390511 | Guide spiral-liner ID1,9-AD3,9 fits 5m / EURO central adapter |
| | | |
| R91 | 20450311 | Guide spiral-liner ID2,0-AD4,5 fits 3m / EURO central adapter |
| R91 | 20450411 | Guide spiral-liner ID2,0-AD4,5 fits 4m / EURO central adapter |
| R91 | 20450511 | Guide spiral-liner ID2,0-AD4,5 fits 5m / EURO central adapter |
| | | |
| R91 | 25450311 | Guide spiral-liner ID2,5-AD4,5 fits 3m / EURO central adapter |
| R91 | 25450411 | Guide spiral-liner ID2,5-AD4,5 fits 4m / EURO central adapter |
| R91 | 25450511 | Guide spiral-liner ID2,5-AD4,5 fits 5m / EURO central adapter |

## MHS RAUCH-450-K screwable

### Welding-torch MIG-MAG water-cooled

### 550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)

| | Art.-No. | |
|---|---|---|
| R92 | 20393311 | PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter |
| R92 | 20393411 | PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter |
| R92 | 20393511 | PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter |
| | | |
| R92 | 27473311 | PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter |
| R92 | 27473411 | PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter |
| R92 | 27473511 | PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter |
| | | |
| R92 | 20406311 | Carbon-PA core liner ID2,0-AD4,0 fits 3m / EURO central adapter |
| R92 | 20406411 | Carbon-PA core liner ID2,0-AD4,0 fits 4m / EURO central adapter |
| R92 | 20406511 | Carbon-PA core liner ID2,0-AD4,0 fits 5m / EURO central adapter |
| | | |
| R92 | 23476311 | Carbon-PA core liner ID2,3-AD4,7 fits 3m / EURO central adapter |
| R92 | 23476411 | Carbon-PA core liner ID2,3-AD4,7 fits 4m / EURO central adapter |
| R92 | 23476511 | Carbon-PA core liner ID2,3-AD4,7 fits 5m / EURO central adapter |
| | | |
| R92 | 20404311 | ULTRA-liner (brown) ID2,0-OD4,0 fits 3m / EURO central adapter |
| R92 | 20404411 | ULTRA-liner (brown) ID2,0-OD4,0 fits 4m / EURO central adapter |
| R92 | 20404511 | ULTRA-liner (brown) ID2,0-OD4,0 fits 5m / EURO central adapter |
| | | |
| R92 | 23474311 | ULTRA-liner (brown) ID2,3-OD4,7 fits 3m / EURO central adapter |
| R92 | 23474411 | ULTRA-liner (brown) ID2,3-OD4,7 fits 4m / EURO central adapter |
| R92 | 23474511 | ULTRA-liner (brown) ID2,3-OD4,7 fits 5m / EURO central adapter |
| | | |
| N.i. | 20405002 | Brass spiral liner (marked blue) ID2,0-OD4,0mm L300mm fits liner OD3,9/4,0mm |
| N.i. | 20405001 | Brass spiral liner (marked green) ID2,0-OD4,0mm L300mm fits liner OD4,7mm |
| N.i. | 25405002 | Bronze spiral liner (marked blue) ID2,5-OD4,0mm L300mm fits liner OD3,9/4,0mm |
| N.i. | 25405001 | Bronze spiral liner (marked green) ID2,5-OD4,0mm L300mm fits liner OD4,7mm |
| | | |
| R95 | 91905721 | Nipple (brass L-30mm) fits spiral liner EURO central adapter AD4,5mm |
| R96 | 91906111 | Nipple fits core liner EURO central adapter AD3,9/4,0mm |
| R96 | 91906121 | Nipple fits core liner EURO central adapter AD 4,7mm |
| R97 | 91906131 | O-ring ID3,5-W1,5mm fits core liners |
| | | |
| N.i. | 91906112 | Support tube, brass ID4,4 - AD5,0 - L200mm |