



MTB 500S / MHP 500S

Fronius International, Strategic Product Management Torches & Torch Periphery, 10.2022 Information Class: Confidential



Welding torch recommendation for gascooled steel applications

- Torch body MTB 500S
- With option TXM
- No torch ID



- Hose pack MHP 500S
- No electronic parts (no trigger)

MTB 500S

MTB 500S OVT

- 44,0350,4464,630 MTB 500S G R OVT/22°/L241/H50
- 44,0350,4465,630 MTB 500S G R OVT/36°/L224/H86
- 44,0350,4466,630 MTB 500S G R OVT/45°/L209/H107
- 44,0350,4467,630 MTB 500S G R OVT/22°/L383/H50
- 44,0350,4468,630 MTB 500S G R OVT/36°/L366/H86
- 44,0350,4471,630 MTB 500S G R OVT/45°/L321/H120
- 44,0350,4469,630 MTB 500S G R OVT/45°/L351/H107
- 44,0350,4470,630 MTB 500S G R OVT/45°/L332/H90
- 44,0350,4468,630 MTB 500S G R OVT/36°/L366/H86



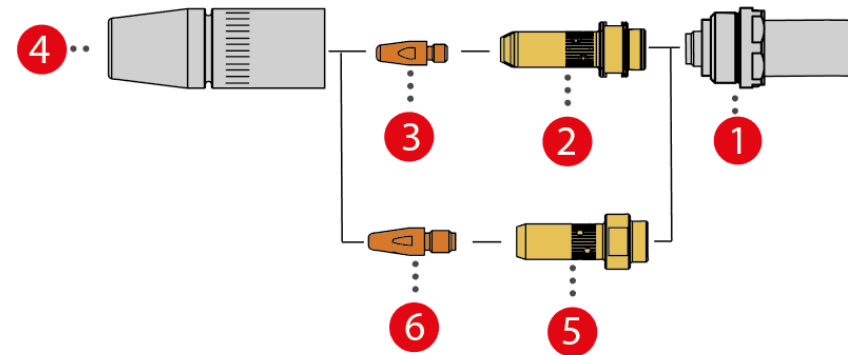
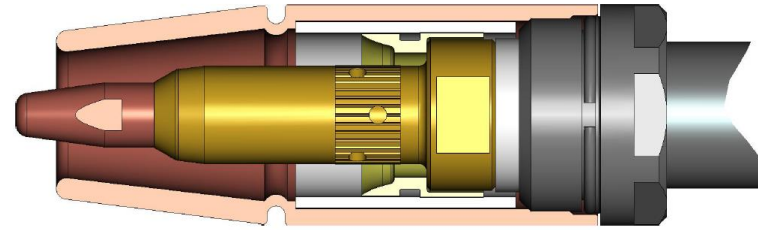
Consumables

Standard consumables

- 1) 44,0350,4306 gas nozzle holder (mounted on torch body)
- 2) 42,0001,0521,5 nozzle stock M6/SW16x48 brass
- 3) Contact tip M6
- 4) 44,0350,0222,5 gas nozzle $\varnothing 15/\varnothing 27 \times 66,5$ CT S

Alternative contact tip M8x1,5

- 5) 42,0001,0143,5 Nozzle stock M8x1,5/SW16x44,5
- 6) Contact tip M8x1,5

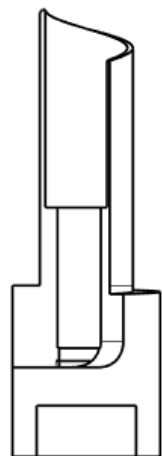


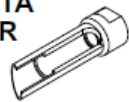
Alternative gas nozzles:

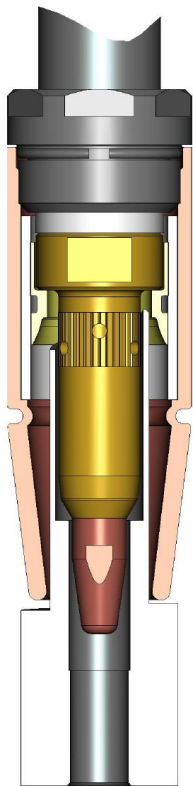
- 44,0350,2004,5 gas nozzle $\varnothing 15/\varnothing 27 \times 73,5$ CT S
- 44,0350,0752,5 gas nozzle $\varnothing 17/\varnothing 27 \times 73,5$ CT S
- 44,0350,0753,5 gas nozzle $\varnothing 17/\varnothing 27 \times 66,5$ CT S

Gas nozzle milling tools

- Additional cleaning of gas nozzle end face



500S R		Gas nozzle		ROBACTA REAMER	
		 Ømm	 Øinch		Part No.
nozzle stock M6 +	44,0350,0222	15	0.591	44,0450,0010	+++
nozzle stock M8x1,5 +	44,0350,0222	15	0.591	44,0450,0011	+++
nozzle stock M6 +	44,0350,2004	15	0.591	44,0450,0019	+++
nozzle stock M8x1,5 +	44,0350,2004	15	0.591	44,0450,0025	+++
nozzle stock M6 +	44,0350,0753	17	0.669	44,0450,0027	+++
nozzle stock M8x1,5 +	44,0350,0753	17	0.669	44,0450,0028	+++
nozzle stock M6 +	44,0350,0752	17	0.669	44,0450,0029	+++
nozzle stock M8x1,5 +	44,0350,0752	17	0.699	44,0450,0032	+++

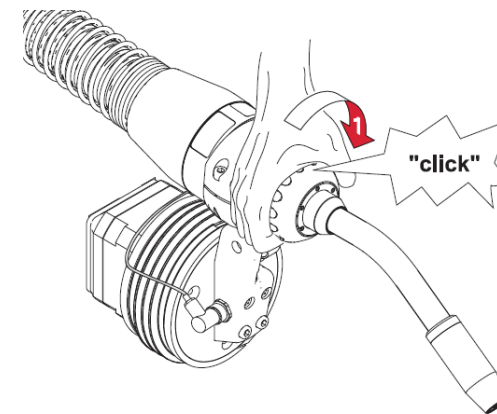


Torch body exchange system TXM

- Fast, manual change of the torch body
- No loosening of torch body
- Defined current and heat transfer
- Fast, manual change of the torch body
- It ensures, that the torch body is mounted on the coupling with the correct contact pressure (No torque wrench necessary)



Option Conversion kit TXM
44,0350,0044 BK TXM MTB R



MHP 500S PAP hose packs

Technical data:

- 500A 40% mixed gas, CO2, 360A 100% mixed gas, CO2
- Without torch ID
- **MHP 500S G R with standard Bajonett**
- Fixing with key for Hexagon and torque wrench
- **MHP 500S G R SM – screwed mounted**
- Fixing with 3 screws



NEW

MHP 500S G R

MHP 500S G R with Standard Bajonett

- 4,051,157 MHP 500 S R/G/PAP/FSC/0,96m
- 4,051,158 MHP 500 S R/G/PAP/FSC/1,04m
- 4,051,159 MHP 500 S R/G/PAP/FSC/1,06m
- 4,051,223 MHP 500 S R/G/PAP/FSC/1,09m
- 4,051,160 MHP 500 S R/G/PAP/FSC/1,12m
- 4,051,161 MHP 500 S R/G/PAP/FSC/1,13m
- 4,051,162 MHP 500 S R/G/PAP/FSC/1,15m
- 4,051,163 MHP 500 S R/G/PAP/FSC/1,18m
- 4,051,164 MHP 500 S R/G/PAP/FSC/1,19m
- 4,051,165 MHP 500 S R/G/PAP/FSC/1,20m
- 4,051,166 MHP 500 S R/G/PAP/FSC/1,22m
- 4,051,167 MHP 500 S R/G/PAP/FSC/1,31m
- 4,051,168 MHP 500 S R/G/PAP/FSC/1,35m
- 4,051,169 MHP 500 S R/G/PAP/FSC/1,37m
- 4,051,170 MHP 500 S R/G/PAP/FSC/1,40m
- 4,051,171 MHP 500 S R/G/PAP/FSC/1,43m
- 4,051,172 MHP 500 S R/G/PAP/FSC/1,51m
- 4,051,423 MHP 500S R/G/PAP/FSC/2,28m



MHP 500S G R

MHP 500S G R SM – screwed mounted

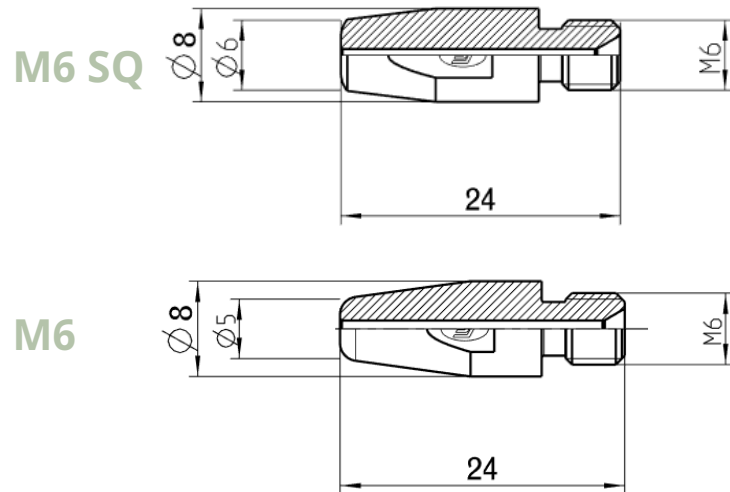
- 4,051,440 MHP 500S R/G/PAP/FSC/0,96m/SM
- 4,051,441 MHP 500S R/G/PAP/FSC/1,09m/SM
- 4,051,442 MHP 500S R/G/PAP/FSC/1,12m/SM
- 4,051,447 MHP 500S R/G/PAP/FSC/1,15m/SM
- 4,051,443 MHP 500S R/G/PAP/FSC/1,18m/SM
- 4,051,444 MHP 500S R/G/PAP/FSC/1,19m/SM
- 4,051,445 MHP 500S R/G/PAP/FSC/1,40m/SM



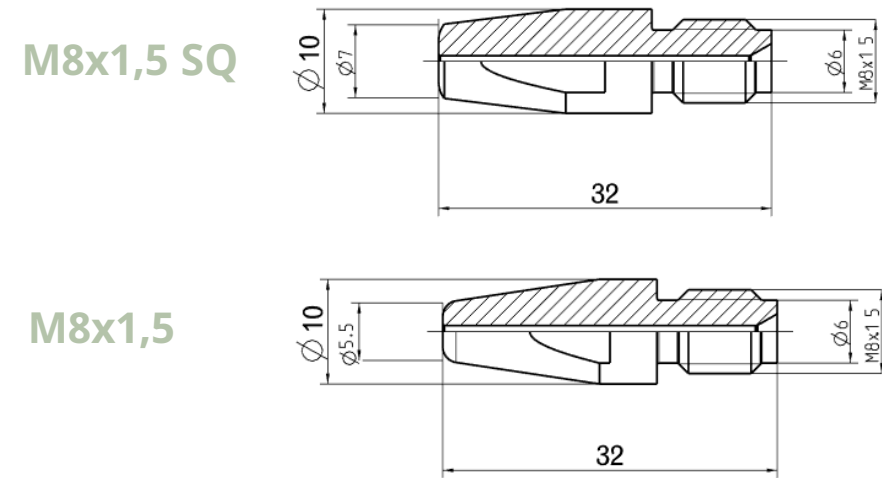
Contact tip SQ (=standard quality) for TPS/i

- Different contour as distinctive feature

M6 has a outer diameter of 8mm



M8x1,5 has a outer diameter of 10mm

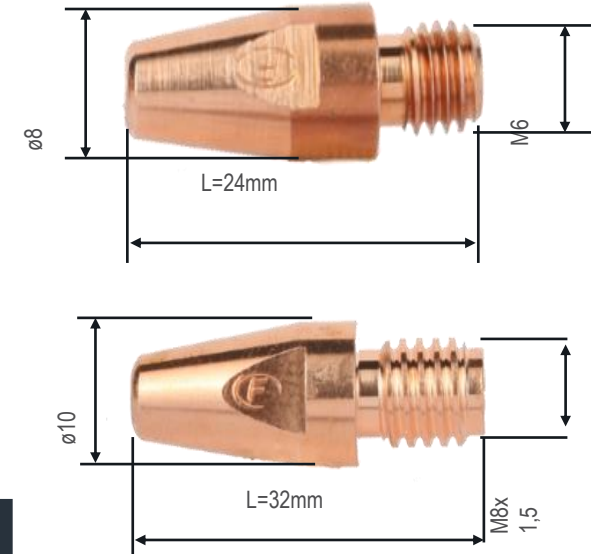


- **Consider when comparing prices with contact tips of competitors:**
 - M6 contact tips usually have $\varnothing 6$
 - M8 contact tips usually have $\varnothing 8$



Contact tips SQ (=standard quality) for TPS/i

- Cheaper contact tip compared to CuCrZr
- For price sensitive customers which change the contact tip after a specific period, independent of the condition.
- Realised owing to cheaper material **E-Cu**
- Production in China

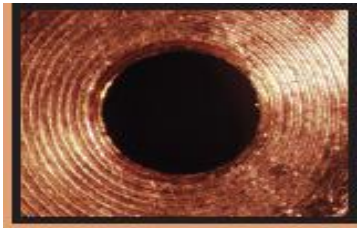


	CuCrZr Gross selling price / pc. PG 20	E-Cu Gross selling price/ pc. PG 10
Contact tip M6 ø8	From 10 pc. - gross selling price: € 1,53 From 100 pc. - gross selling price: € 1,38 From 1000 pc. - gross selling price: € 1,24	From 10 pc. - gross selling price: € 1,05 From 100 pc. - gross selling price: € 0,94 From 1000 pc. - gross selling price: € 0,85 -31%
Contact tip M8x1,5 ø10	From 10 pc. - gross selling price: € 2,15 From 100 pc - gross selling price: € 1,94 From 1000 pc. - gross selling price: € 1,75	From 10 pc. - gross selling price: € 1,62 From 100 pc. - gross selling price: € 1,46 From 1000 pc. - gross selling price: € 1,31 -25%

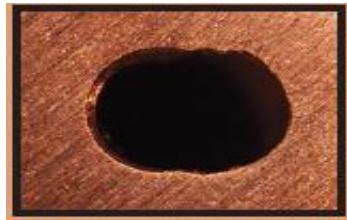
Contact tips SQ (=standard quality) for TPS/i

- Recommendation of Fronius is the utilization of CuCrZr contact tips
- Reason: faster grinding of SQ contact tip and consequently shorter service life

CuCrZr

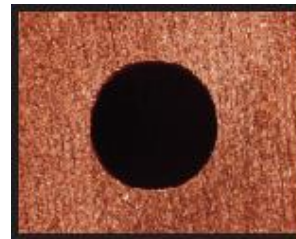


Original condition

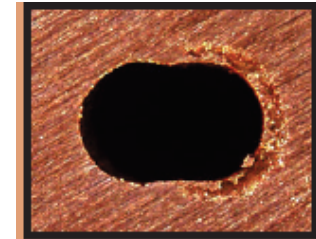


120 minutes welding
time, about 250A,
ø1,2mm steel wire

E-Cu



Original condition



120 minutes welding
time, about 250A,
ø1,2mm steel wire

Contact tips SQ (=standard quality) for TPS/i

Article numbers:

42,0001,7025,10 contact tip ø0,9/M6/ø8x24/SQ 10 pc.

42,0001,7026,10 contact tip ø1,0/M6/ø8x24/SQ 10 pc.

42,0001,7027,10 contact tip ø1,2/M6/ø8x24/SQ 10 pc.

42,0001,7028,10 contact tip 0,9/M8x1,5/ø10x32/SQ 10 pc.

42,0001,7029,10 contact tip 1,0/M8x1,5/ø10x32/SQ 10 pc.

42,0001,7030,10 contact tip 1,2/M8x1,5/ø10x32/SQ 10 pc.

Available



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