INTRODUCTION TO THE PRODUCT

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Power - for TIG use

- Long useful life, even in heavy duty multi-shift mode
 - High duty cycle
 - High reserve capacity inverter unit
 - Stable, robust machine construction of metal
- Safe, reliable and low-maintenance machines
 - Protected against overload
 - High mains voltage tolerance
 - Noise reduction and electronics protected from contamination by temperature-controlled fans
 - Quick replacement with few manual operations without tools or skilled personnel thank to snap closures and plug connections
- Innovative welding machines thanks to digital microprocessor technology
 - Easiest operation
 - 100% reproducible welding results with maximum quality
 - Problem-free integration into mechanised systems
- Power savings
 - Innovative inverter technology





















TRITON 400,500 A





Remote

control

- RT1

COOL70 U40 oc COOL70 U41 (reinforced)





TIG torch - Standard

- Up / Down

- Poti



Remote control

- RTP1 - RTP2



Remote control

- RTF1





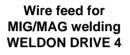


TRITON

400,500 A









TROLLY70-2



Remote control - Weldon R10



Remote control - Weldon R40



MIG torch - Standard

- 10 Programs / Up-Down
- Poti

Production and repair work

- Foodstuffs and chemicals industry
- Machine and vehicle construction
- Container, equipment and pipeline construction
- Deposit welding in tool construction

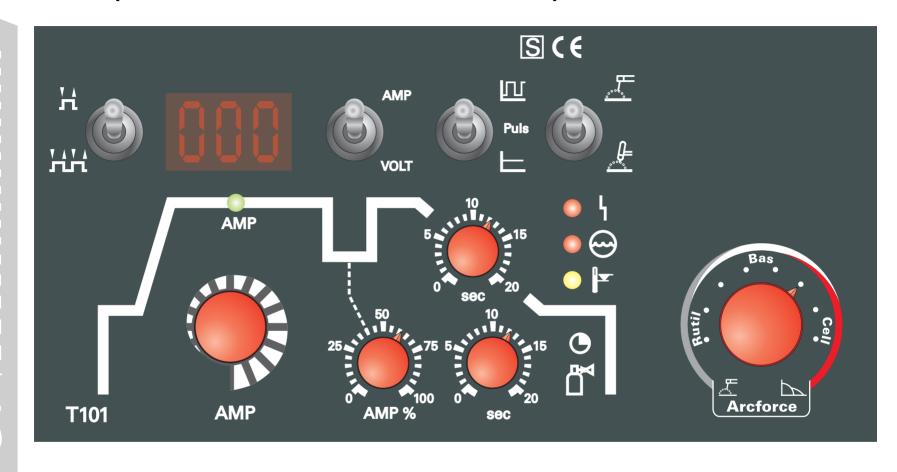


Materials

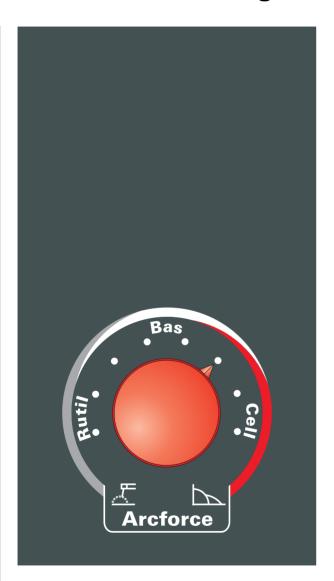
- Unalloyed and low- and high-alloy steels
- Copper
- Special Metals



T101 (TRITON 400/500 without MIG/MAG)



Selcection Welding Task

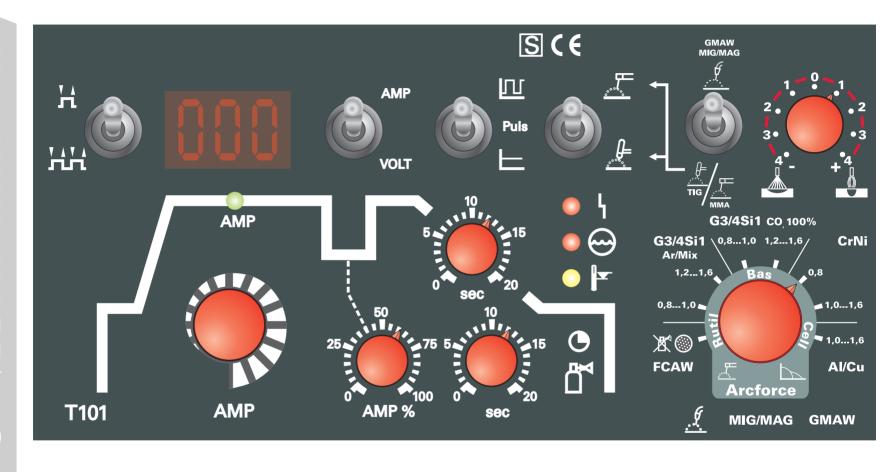


• MMA

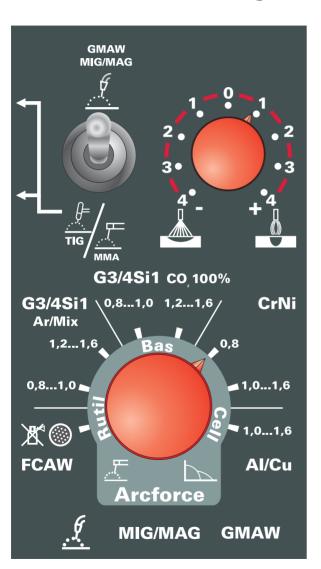
 Arcforcing adjustable in 8 steps from hard (cellulose) over medium (basic) up to soft arc (rutile), antistick function



T101 (TRITON 400/500 with MIG/MAG)



Selcection Welding Task



• TIG

concentrated - stable arc, good dynamics

• MMA

 Arcforcing adjustable in 8 steps from hard (cellulose) over medium (basic) up to soft arc (rutile), antistick function

MIG/MAG

- ⇒ stable arc
- adjustable arc characteristics in 8 steps for different applications: massive / solid wires, non-alloyed and alloyed steels as well as aluminium and its alloys
- potentiometer for correction of dynamics and choke effect



HIGHLIGHTS

- Effective working and even better results faster thanks to the few control elements and their clear arrangement:
 - Welding current
 - Secondary current
 - Down-slope time
 - Gas post-flow time other welding parameters preset to the optimum, but can be changed in-house
- Intelligent digital microprocessor control for
 - Reproducible welding results of high quality
 - Precise setting and reading of welding parameters
 - Ideal ignition properties for all welding procedures

Function specification

Rotary dials for

- Main current [AMP]
- Secondary welding current [AMP%]
- Down-slope time
- Gas post-flow time
- Selection of welding task (8 levels)
 MMA: Arcforcing
 (rutile / basic / cellulose)
 MIG/MAG: Material/ gas type

Toggle switch for

- Non-latched / latched operating mode
- MMA or TIG
- MMA/TIG or MIG/MAG
- TIG standard / TIG pulsed
- Display of switching of welding current or voltage
- Liftarc or HF ignition (rear of machine)

Signal lights for

- Excess temperature
- Collective interference,
- Open-circuit or welding voltage on,
- Coolant level low

• "Internal" settings

- Ignition current,
- Gas pre-flows,
- Up-slope time,
- Pulse and break times of TIG pulses

Digital display for welding voltage or current

Before and during welding.



TIG welding torch designs, operating variants

	Operating elements	plug	functions		
	Retrieval of secondary current (AMP%) with TIG standard torches				
	2 torch triggers (under rocker buttons)	5-pole	Welding On/Off Secundary Current On/Off		
••	2 torch triggers	5-pole	Welding On/Off Secundary Current		
•	1 torch trigger	5-pole	Welding On/Off Secundary Current, via tipping operating mode		
	Infinitely adjustable welding current (Up/Down function) with TIG standard torch or special TIG Up/Down torch				
•	1 torch trigger 1 rocker button	8-pole	Welding On/Off Up-/Down function		
	2 torch triggers (under rocker buttons)	5-pole	Welding On/Off Up-/Down function (without opening of unit programmable via torch trigger)		
••	2 torch triggers	5-pole	Welding On/Off Up-/Down function (without opening of unit programmable via torch trigger)		
	Infinitely adjustable welding current (Potentiometer function) with special TIG rotating wheel torch				
1	1 torch trigger 1 Potentiometer wheel	8-pole	Welding On/Off Potentiometer function (activate internally)		

TECHNICAL DATA

	TRITON 400	TRITON 500
Setting range: Welding current / voltage MMA MIG/MAG	5A/ 10,2V - 400A/ 26,0V 5A/ 20,2V - 400A/ 36,0V 5A/ 14,3V - 400A/ 34,0V	5A/ 10,1V – 500 A/ 30,0V 5A/ 20,1V – 500A/ 40,0V 5A/ 14,2V – 500A/ 39,0V
Max. welding current at 40°C ambient temperature: 40%ED 60%ED 100%ED Max. welding current at 20°C ambient temperature: 40%ED 45%ED 60%ED 65%ED	400A 360A 300A - 400A - 360A	500A 450A 340A 500A - 475A
100%ED	300A	390A
Open circuit voltage	92V	79V at 400V 91V at 460V
Mains voltage (tolerances)	3 x 400V (-25% - +20%) 3 x 415V (-25% - +15%)	3 x 400V (-25% - +20%) 3 x 415V (-25% - +15%) 3 x 460V (-25% - +10%)
Mains fuse (safety fuse – slow blow)	3 x 35A	
cosφ / Efficiency	0,99 / 89%	
Dimensions L/W/H [mm]	625 x 335 x 560	
Weight	55 kg	58 kg