

2014

WELDING SOLUTIONS

Unitor – more than 100 years experience in the welding business



- > Long track record of innovation in welding solutions
- > Unitor range today consist of equipment adapted to the marine environment (durable, safe, easy to use)
- > Equipment designed to tackle a wide range of maintenance tasks – from pipe repair to cold repair. Or from hand rails repair to cutting.

Welding and hot repair work



- > Hot work (welding, cutting and brazing) is a vital part of a vessel's maintenance program
- > Hot work can cause accidents on board if necessary precautions are not taken
- > WSS supply a range of safe, durable and robust welding equipment that is standardised and easy to use
- > Support is available from one of the many WSS welding ambassadors

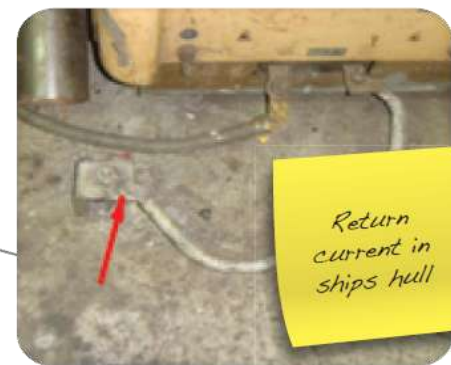
High performance. Improved safety. Controlled Cost. The Unitor welding solution




Why is safety important?

Safe welding, we believe, is effective welding, and effective welding leads to **greater cost control** - keeping downtime for repairs to an absolute minimum, and **reducing the risks** to crew, cargo and vessel.

We are introducing **welding safety inspection** service, a confidential assessment of the safety and operational conditions of welding and gas equipment onboard.



Welding Inspection Checklist

 **Wilhelmsen
Ships Service**

Vessel Name: _____
Vessel IMO #: _____
WSS Representative: _____
Location of Inspection: _____
Date of Inspection: _____
Location of Welding Equipment: _____
1 Machine Type: _____
Brand: _____
Model: _____



Unitor welding machine range

Compact and lightweight

for ease of use onboard, excellent performance-to-weight ratio

Easily Transportable

Dedicated trolleys and undercarriages to further improve mobility

TP Total Protection

To prevent machine faults and breakdowns, the machines are fitted with a Total Protection device that protects against voltage peaks and phase fall out

Voltage reduction device

To prevent accidents due to electric shock

THE ONLY WELDING MACHINES

IN THE MARKET

**DESIGNED
SPECIFICALLY**

FOR THE MARITIME INDUSTRY



Safety and quality. Always inseparable.



























The Unitor range today
represents the most

**DURABLE, SAFE
AND ROBUST**

equipment available.

What is unique with Unitor welding machines?

UNITOR		Wilhelmsen Ship Service AS Strandveien 20 - P O Box 33 N-1324 Lysaker NORWAY	
Model: UWI-500TP			
Product number:			
3~		EN 60974-1 EN 60974-10 Class A	
	---	5A/20.2V	500A/40.0V
	X	50%	60%
	U ₀ =66V	I ₂	500A
	U _r =9V	U ₂	40.0V
	---	5A/10.2V	500A/30.0V
	X	50%	60%
	U ₀ =66V	I ₂	500A
	U _r =9V	U ₂	30.0V
	---	5A/14.2V	500A/39.0V
	X	50%	60%
	U ₀ =66V	I ₂	500A
	U _r =9V	U ₂	39.0V
	3~	U ₁ =440V	36.3A
	50 / 60Hz	U ₁ =400V	38.2A
		U ₁ =380V	40.7A
COOLING AF	I.C.L.H. IP 23S	I _{1max}	I _{1eff}
			
WARNING: EXTERNAL FUSE			
			
T 2A 500V			



What is unique with Unitor welding machines?

UNITOR		Wilhelmsen Ship Service AS Strandveien 20 - P O Box 33 N-1324 Lysaker NORWAY			
Model: UWI-500TP					
Product number:					
3~		EN 60974-1 EN 60974-10 Class A			
	---	5A/20.2V		500A/40.0V	
	$U_0=66V$	X	50%	60%	100%
	$U_r=9V$	I_2	500A	450A	400A
	---	5A/10.2V		500A/30.0V	
	$U_0=66V$	X	50%	60%	100%
	$U_r=9V$	I_2	500A	460A	400A
		U_2	30.0V	28.4V	26.0V
	---	5A/14.2V		500A/39.0V	
	$U_0=66V$	X	50%	60%	100%
	$U_r=9V$	I_2	500A	450A	400A
		U_2	39.0V	36.5V	34.0V
	3~ 50 / 60Hz			I_{1max}	I_{1eff}
		$U_1=440V$		36.3A	27.4A
		$U_1=400V$		38.2A	29.5A
		$U_1=380V$		40.7A	30.5A
COOLING AF		I.CL.H.	IP 23S		
⚠ WARNING: EXTERNAL FUSE					
		 T 2A 500V			

All new Unitor welding machine range is fitted with:


























TP Total Protection function that prevents damage to the machine in the event of primary voltage too high or a phase fallout.

VRD Voltage Reduction Device gives Open Circuit Voltage OCV (touchable voltage) less than 10V for the entire machine range makes the machines safe to work with and in compliance to rules and regulations.

AS 1674.2-2007 Standard: All Unitor welding machines conform to AS 1674.2-2007 Safety in welding and allied processes (Australian Standard). The standard specifies DC only and Touchable voltage (arc sensing voltage) max. 35 Volt by the use of Voltage Reduction Device (VRD)



What is unique with UNITOR welding machines?

UNITOR		Wilhelmsen Ship Service AS Strandveien 20 - P O Box 33 N-1324 Lysaker NORWAY			
Model: UWI-500TP					
Product number:					
3~ 		EN 60974-1 EN 60974-10 Class A			
	 U ₀ =66V U _r =9V	5A/20.2V		500A/40.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/10.2V		500A/30.0V	
		X	50%	60%	100%
		I ₂	500A	460A	400A
	 U ₀ =66V U _r =9V	5A/14.2V		500A/39.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/10.2V		500A/30.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/14.2V		500A/39.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/10.2V		500A/30.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/14.2V		500A/39.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/10.2V		500A/30.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/14.2V		500A/39.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/10.2V		500A/30.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/14.2V		500A/39.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A
	 U ₀ =66V U _r =9V	5A/10.2V		500A/30.0V	
		X	50%	60%	100%
		I ₂	500A	450A	400A

CE Conformity European

Welding machine is built according to Directives & Standards

EN 60974-10 European Norm for electromagnetic compatibility.

EN 60974-1 European Norm for arc welding appliance.

Passport mark that allows goods to pass freely into and throughout Europe

















S Marking

Indicate that Unitor Welding machine are suitable for use in areas with increased electric shock hazard.

Important when work takes place in seawater environment and where ships hull is used as returned conductor



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Product number:					
3~ 		EN 60974-1 EN 60974-10 Class A			
	---	5A/20.2V		500A/40.0V	
	U ₀ =66V	X	50%	60%	100%
	U _r =9V	I ₂	500A	450A	400A
		U ₂	40.0V	38.0V	36.4V
	---	5A/10.2V		500A/30.0V	
	U ₀ =66V	X	50%	60%	100%
	U _r =9V	I ₂	500A	460A	400A
		U ₂	30.0V	28.4V	26.0V
	---	5A/14.2V		500A/39.0V	
	U ₀ =66V	X	50%	60%	100%
	U _r =9V	I ₂	500A	450A	400A
		U ₂	39.0V	36.5V	34.0V
	50 Hz			I _{1max}	I _{1eff}
		U ₁ =440V		36.3A	27.4A
		U ₁ =400V		38.2A	29.5A
		U ₁ =380V		40.7A	30.5A
COOLING AF		I.C.L.H.	IP 23S		
					
 WARNING: EXTERNAL FUSE					
			 T 2A 500V		

Ingress Protection IP23

The Unitor machines ability to protect against objects and liquid

Unitor welding machines are according to IP23 reg.

Protection degree of the casing according to EN 60529

2: Protection against object not greater than 80mm in length and 12mm in diameter

3: Protection from sprayed water at an angle of 60° from vertical

Thermal insulation class

I.CL.H= Thermal class of the insulating materials and insulation systems.

resistant up to 180°C.

IP Ingress Protection

EN 60529 outlines an international classification system for the sealing effectiveness of enclosures of electrical equipment against the intrusion into the equipment of foreign bodies (i.e. tools, dust, fingers) and moisture. This classification system utilizes the letters "IP" ("Ingress Protection") followed by two or three digits. (A third digit is sometimes used.

An "x" is used for one of the digits if there is only one class of protection; i.e. IPX4 which addresses moisture resistance only)



IP Ingress Protection

IP Solid Intrusion (Object Size)6

IP0X none

IP1X $\geq 50\text{mm}$ (approx. 2")

IP2X $\geq 12\text{mm}$ (approx. 1/2")

IP3X $\geq 2.5\text{mm}$ (approx. 1/10")

IP4X $\geq 1.0\text{mm}$ (approx. 1/25")

IP5X dust proof

IP6Xdust tight

IP Liquid Intrusion (Water Direction & Force)

IPX0 none

IPX1 vertical drops

IPX2 drops up to 15° to vertical

IPX3 spray up to 60° to vertical

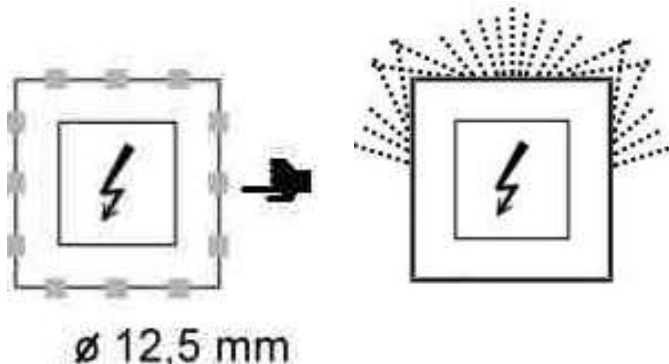
IPX4 splash proof in all directions

IPX5 jet-water proof in all directions

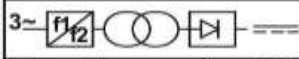

















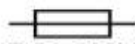
IPX6 powerful jet-water proof in all directions

IPX7 temporary immersion

IPX8 continuous immersion



What is unique with Unitor welding machines?

UNITOR Wilhelmsen Ship Service AS Strandveien 20 - P O Box 33 N-1324 Lysaker NORWAY			
Model: UWI-500TP			
Product number:			
		EN 60974-1 EN 60974-10 Class A	
		5A/20.2V	500A/40.0V
		X	50% 60% 100%
		I_2	500A 450A 400A
		U_2	40.0V 38.0V 36.4V
		5A/10.2V	500A/30.0V
		X	50% 60% 100%
		I_2	500A 460A 400A
		U_2	30.0V 28.4V 26.0V
		5A/14.2V	500A/39.0V
		X	50% 60% 100%
		I_2	500A 450A 400A
		U_2	39.0V 36.5V 34.0V
		I_{1max}	I_{1eff}
3~ 50 / 60Hz		$U_1=440V$	36.3A 27.4A
		$U_1=400V$	38.2A 29.5A
		$U_1=380V$	40.7A 30.5A
COOLING AF		I.C.L.H.	IP 23S
			
WARNING: EXTERNAL FUSE			
		 T 2A 500V	

Non Asbestos declaration

This confirm that no asbestos are used in the Unitor welding machines

Rohs declaration

Unitor Welding Machines conforms to RoHS2 directive restricts the use of specific hazardous or restricted substances in new electrical and electronic equipment put on the market in the European Union after July 1, 2006.

On July 1, 2011, the European Union Published the RoHS2 (Recast Directive)

Engineered quality



4,4 KG

STICK/
ELECTRODE
150A
1,6-3,2mm

TIG puls

REMOTE
CONTROL

12,2 KG

STICK/
ELECTRODE
150A
1,6-3,2mm

TIG

WIRE
WELDING
≤ 1mm

12,2 KG

STICK/
ELECTRODE
200A
1,6-4,0mm

TIG

18 KG

STICK/
ELECTRODE
320A
1,6-5,0mm

TIG

REMOTE
CONTROL

47 KG

STICK/
ELECTRODE
500A
1,6-6,0mm

TIG

REMOTE
CONTROL

WIRE
WELDING

ACA
GOUGING

15 KG

PLASMA
CUTTING
100A
≤ 40mm
GOUGING

17,4 KG

WIRE
WELDING
≤ 2mm

x 2



UWI-150TP



Key product information:

- ❑ Product no. 150150
- ❑ Replacing UWI-150 Autoline (product no. 709659)
- ❑ 150 A (3,2mm electrode)
- ❑ Electrode ,TIG welding, TIG pulse
- ❑ 230 V 1 phase 50/60Hz
- ❑ Weight : 4,4 kg
- ❑ Remote control output
- ❑ Comes with suitcase for electrode holder and return clamp



TIG Equipment for UWI-150 TP



TIG-Torch T-150 with DIX 25

150000

Remote Amp control 3m

150151

Argon Regulator w/ flow meter

510010

Gauge Gard

619379

Accessories kit for TIG welding

607810

Needle valve

597310

Flow control meter for torch

597328

TIG welding gloves 6 pairs

632794

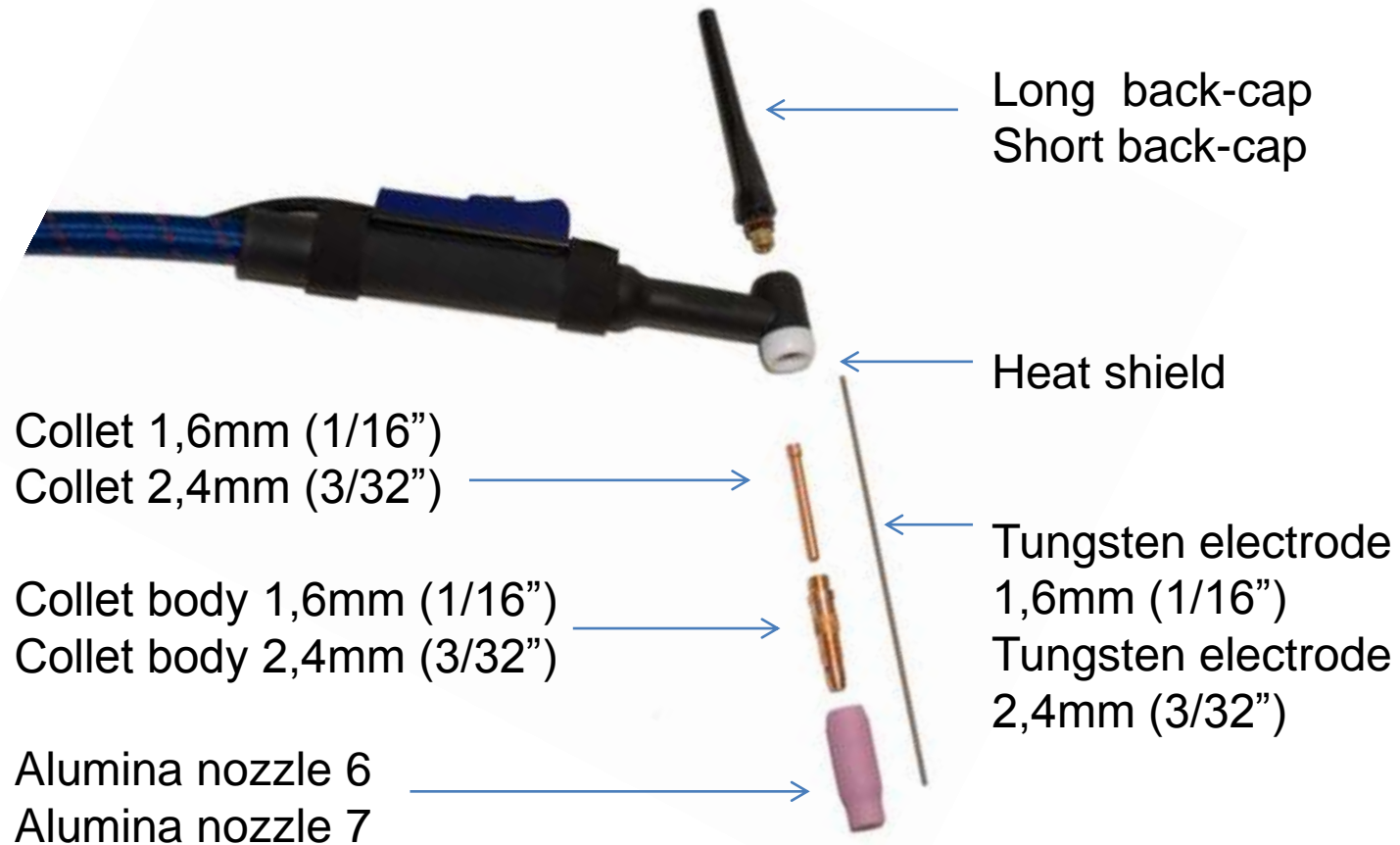


Dimensions: UWI 150 TP



Weight : 4,4 kg





Accessories



Gas hose black ¼" per m
Hose clips, one ear, bag of 10
Hose joint ¼" RH, screw type
Pincher tool for ear clamps

576157
729442
175596
768507



New quick connectors for argon



Quick coupling argon
Hose to hose 6mm (1/4")
Black for argon, AR/CO2
Product no. 320201

Quick coupling argon
Hose to hose 6mm (1/4")
Black for argon, AR/CO2
Product no. 320202

Rods for TIG welding

IMS-210	2,0mm (5/64")	097-604850
Icromo-216	2,5mm (3/32")	097-305532
18/8 Mo-221	2,0mm (5/64")	097-602979
Iduplex-222	2,0mm (5/64")	097-725309
Icuni-30-239	2,5mm (3/32")	097-335547
Ialbro-237 MF	2,4mm (3/32")	097-519736
Iflux-238 PF		097-603092





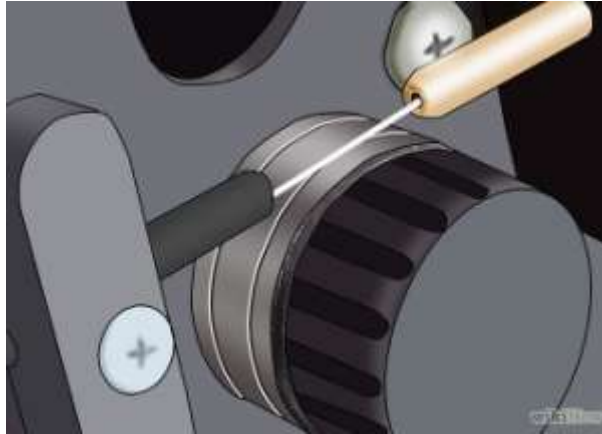
UWW-161TP






Key product information

- ❑ Product no. 161161
- ❑ Upgraded to TP version
- ❑ 160 A (3,2mm electrode)
- ❑ Wire Welding, Electrode, TIG
- ❑ 230 V 1 phase 50/60Hz
- ❑ Weight : 12,2 kg
- ❑ Comes with electrode holder and return clamp
- ❑ IP 23 S

Drive rolls



V-groove		Knurled groove		U-groove	
					
Size	Order no	Size	Order no	Size	Order no
0,6-0,8	160003	1,0-1,2	160005	0,8-1,0	160004

Outgoing wire drive tube Order no 161164

MIG Torch M-161



590075

613756

Teflon Liner
Steel Liner



Contact tip

Gas nozzle Product no. 160001

Product no. Contact tips

711986 10 tips 0,6mm

711994 10 tips 0,8mm

712000 10 tips 1,0mm

712018 10 tips 1,2mm



TIG Equipment for UWW-161 TP



TIG-Torch T-161w/Euro connector	160010
Argon Regulator w/ flow meter	510010
Gauge Gard	619379
Accessories kit for TIG welding	607810
Needle valve	597310
Flow control meter for torch	597328
TIG welding gloves 6 pairs	632794



UWI-203 TP



Key product information

- ☐ Product no. 203203
- ☐ Upgraded to TP version
- ☐ 200 A (4,0 mm electrode)
- ☐ Electrode, TIG
- ☐ 380-440 V 3 phase 50/60Hz
- ☐ Weight : 12,2 kg

- ☐ Comes with electrod holder and return clamp

UWI 203 TP - Dimensions



Weight : 12,2 kg



TIG Equipment for UWI-203 TP



TIG-Torch T-200 with DIX 70	200000
Argon Regulator w/ flow meter	510010
Gauge Gard	619379
Accessories kit for TIG welding	607810
Needle valve	597310
Flow control meter for torch	597328
TIG welding gloves 6 pairs	632794



UWI 320 TP



Key product information

- ❑ Product no 320320
- ❑ Replace UWR-303 (product no 670430)
- ❑ 320 A (5,0 mm electrode)
- ❑ Electrode ,TIG welding
- ❑ 380-440 V 3 phase 50/60Hz
- ❑ Weight : 18 kg
- ❑ Remote control output



UWI 320 TP - Technical features

Remote control output



Total protection function: Phase detector



Amp control

Arc Force



Dimensions



Weight : 18 kg



Basic accessories kit for UWI 320 TP



Product no.670406

Electrode holder assembly 400 A Dix 70,
3m cable 50mm²

Return clamp assembly 400A Dix to, 3m
cable 50mm²

Remote amp.control 8m

Welding gloves

Face shield with flip up front shade 11 glass

Chipping hammer steel

Wire brush

TIG Equipment for UWI-320 TP



TIG-Torch T-200 with DIX 70	200000
Argon Regulator w/ flow meter	510010
Gauge Gard	619379
Accessories kit for TIG welding	607810
Needle valve	597310
Flow control meter for torch	597328
TIG welding gloves 6 pairs	632794





Trolley and skid



Trolley E10/M10 for TIG/Wire welding

Key product information

- ❑ Transport trolley with lifting certificate for either UWW-161TP, UWI-203TP, UWI-320TP and up to 2 10L cylinders.
- ❑ Surface treatment: Spay coating
- ❑ Safe working load: 70 kg
- ❑ TuV Test Load: 140 kg
- ❑ Net weight: 25,5 kg



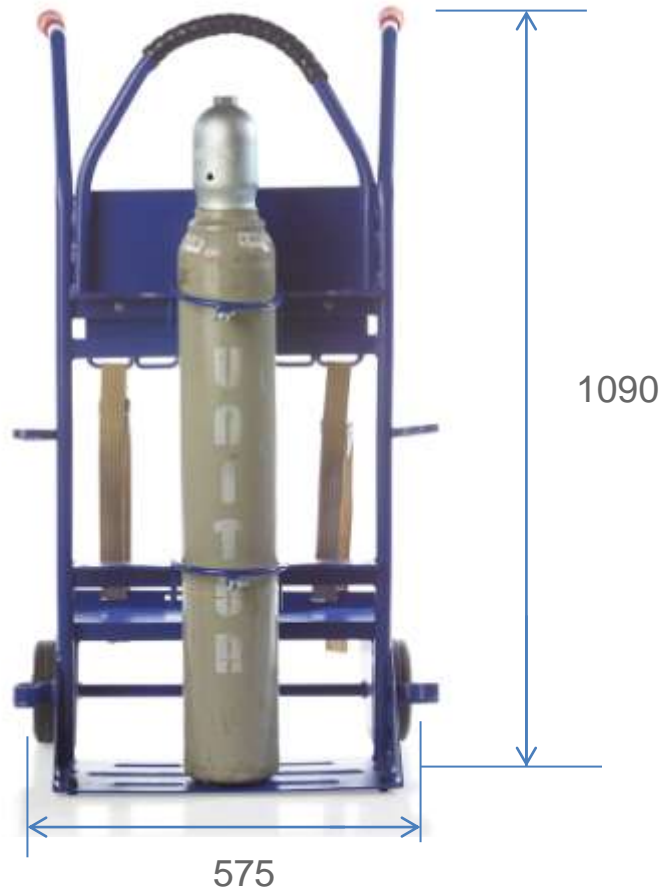
Skid for UWW-161TP, UWI-203TP and UWI-320TP

Key product information

- ❑ Product no.764489
- ❑ Protects the welding machine towards mechanical damage
- ❑ Net weight: 3 kg

Trolley - dimensions

Depth 617



Weight : 25,5 kg







UWW-161 TP



UWI-203 TP



UWI-320 TP

UWI 500 TP



Key product information

- ❑ Product no. 500500
- ❑ Replace UWI-400/UWR-852 (product no 670398/735860)
- ❑ 500 A (6,0 mm electrode)
- ❑ Electrode, cellulose electrode
- ❑ ACA, TIG, Wire Welding,
- ❑ 380-440 V 3 phase 50/60Hz
- ❑ Weight : 47kg
- ❑ Remote control output
- ❑ IP 23 S

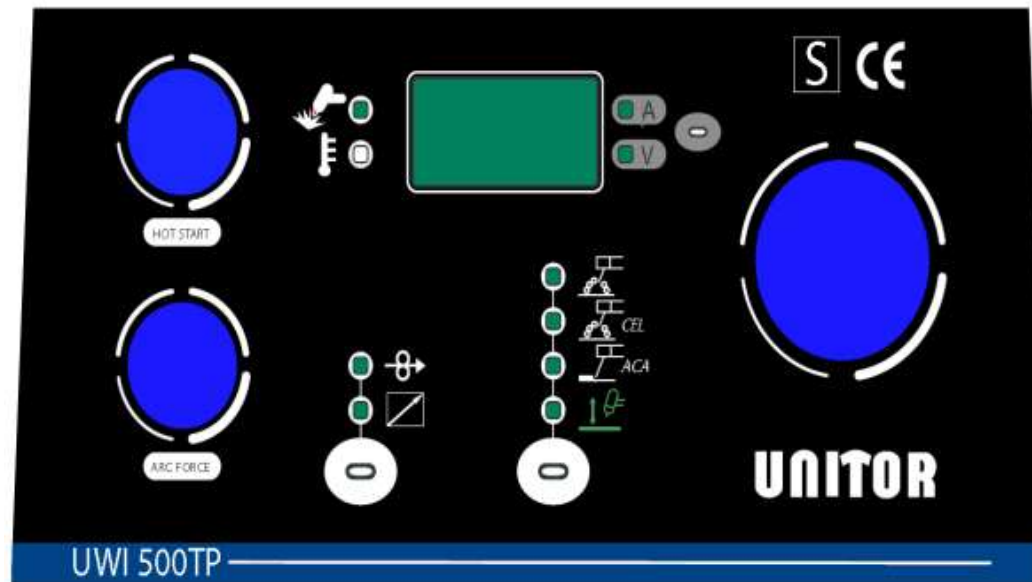
UWI 500 TP - dimensions



Weight : 47 kg



Special features – UWI 500 TP



Arc force

Arc force increases the short circuit amperage, allowing the welder to use very short arc without sticking the electrode in the melt pool.

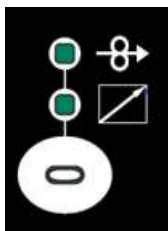
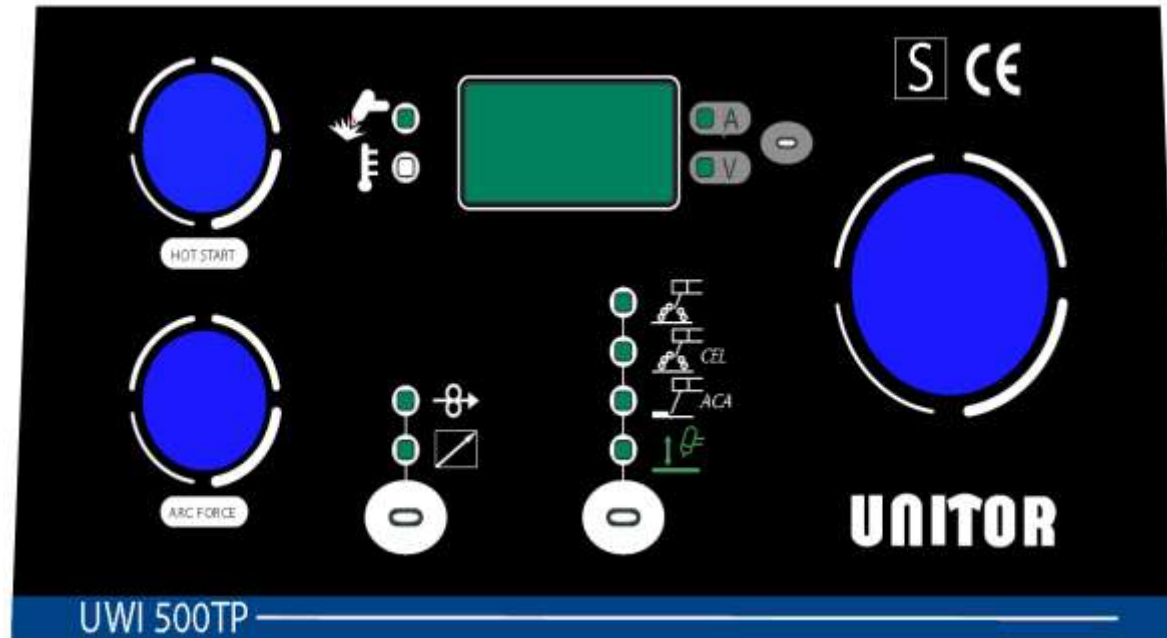
Useful when welding with stick electrodes at low amperages.

Hot start

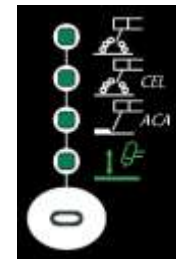
Increased hot start makes arc striking easier and reduces the possibility for electrode sticking.



Special features – UWI 500 TP



Wire feeder
remote control for
electrode holder or
TIG torch



Normal stick electrodes
Cellulosic stick electrodes
Air Carbon Arc Gouging
TIG welding

Undercarriage for UWI-500 TP



Key product information

- ❑ Product no 500103
- ❑ For fast and easy transport of welding machine to worksite.
- ❑ Foldable handles to avoid accidents.
- ❑ Shelf for storing welding electrodes and accessories.
- ❑ Safe and fast ways of getting all equipment to the work site in one go.
- ❑ Surface treatment: Spay coating
- ❑ Net weight: 20Kg



Basic accessories kit for UWI-500TP

Key product information

- ❑ Product no 670406
- ❑ Electrode holder assembly 400 A Dix 70, 3m cable 50mm²
- ❑ Return clamp assembly 400A Dix to, 3m cable 50mm²
- ❑ Remote amp control 8 m
- ❑ Welding gloves
- ❑ Face shield with flip up front shade 11 glass
- ❑ Chipping hammer steel
- ❑ Wire brush



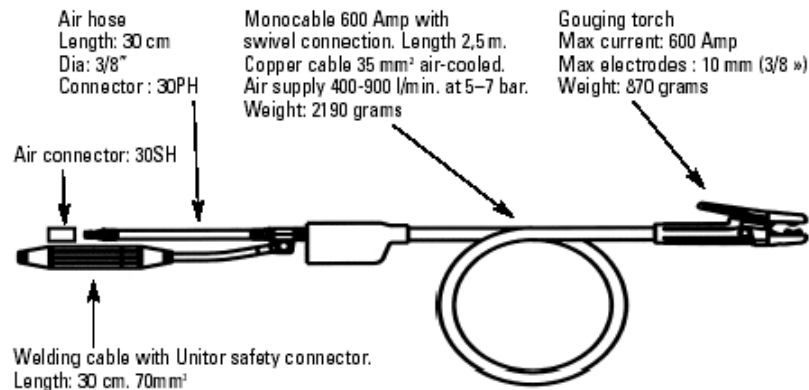
Torch for air carbon arc gouging



600Amp capacity Product no. 528703
1600Amp capacity Product no. 740969

ACA torch with 2,5m monocable fitted
with electric cable connector and air hose
connector.

Conversion Assembly
Product no. 634121
Safety-DIX 70 connector.



Tig equipment for UWI-500 TP

TIG-Torch T-200 with DIX 70	200000
Argon Regulator w/ flow meter	510010
Gauge Gard	619379
Accessories kit for TIG welding	607810
Flow control meter for torch	597328
TIG welding gloves 6 pairs	632794

Trolley for 50 l shielding gas cylinder

- ❑ Product no. 778147
- ❑ Transport trolley with lifting certificate for 1pc 40 or 50L cylinder.
- ❑ Safe and fast way of getting cylinder to the work site.
- ❑ Surface treatment: Spay coating
- ❑ Safe working load: 100Kg
- ❑ TuV Test Load: 200Kg
- ❑ Net weight: 13,5Kg



UWF-102 Wire Feeder



Key product information

- Connects to UWI-500 TP
- For all wire welding processes
 - Gas metal arc welding
 - Flux cored arc welding

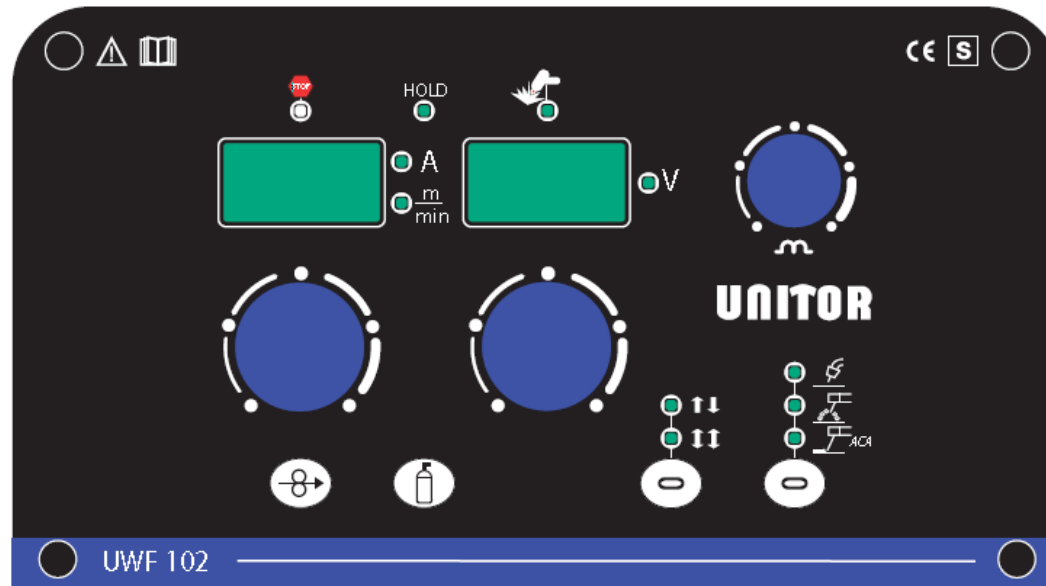


UWF-102 Wire Feeder

Comes with skid and 4m welding cable
4m shielding gas hose
4m control cable



UWF-102 Wire Feeder



Adjust inductance

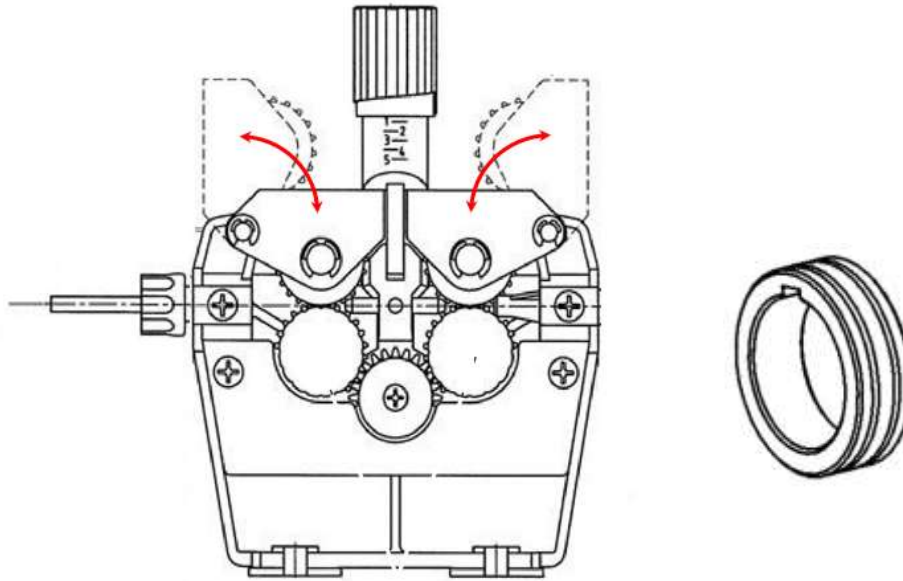
Welding with a short arc lower inductance will give crisper arc and easier arc start. The bead will become taller and narrower.




More inductance will give a softer arc and flatter wider bead appearance.

Too much inductance will give difficult arc starts. Low thermal conductivity materials like stainless steel need more inductance to get acceptable wetting with short arc.



Drive rolls



V-groove		Knurled groove		U-groove	
					
Size	Order no	Size	Order no	Size	Order no
0,8 - 1,0mm	778192	0,8 - 1,0mm	778195	0,8 - 1,0mm	778197
1,2 - 1,6mm	778194	1,2 - 1,6mm	778196	1,2 - 1,6mm	778198

Mig torch T-400

Product no 607451



594606

Teflon Liner

594614

Steel Liner 0,8-1,2mm

607457

Steel Liner 1,4-2,0mm



Gas diffuser 5 pcs.Product no. 613763

Contact tip

Gas nozzle Product no. 613765

Product no. Contact tips

594622 10 tips 0,8mm

594630 10 tips 1,0-1,2mm

607455 10 tips 1,2-1,4mm

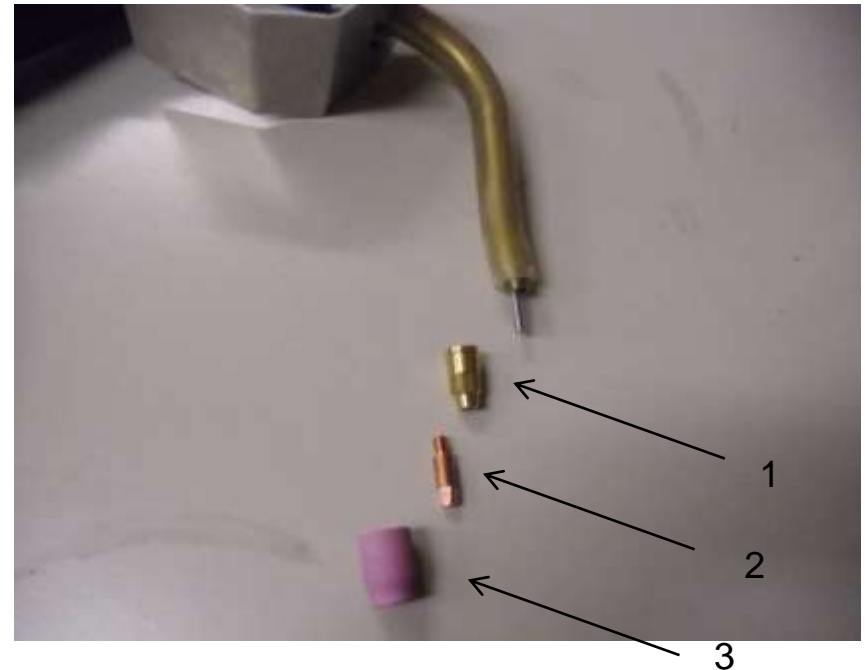
607456 10 tips 1,6-2,0mm

Contact tips must be according to wire size. They need to be replaced regularly



Self shield torch T-350 w/3 m cable

Product no. 750179



- 1) Tip Adapter for T-350 Torch
- 2) Contact tip 1mm for T-350 Torch
- 2) Contact tip 1,6mm for T-350 Torch
- 3) Ceramic nozzle for T-350 Torch

750185

750181

750182

750184

Wire welding equipment for UWF-102



Key product information

- ☐ Product no. 778147 (replaces 176008)
- ☐ Transport trolley with lifting certificate for 1pc 40 or 50L cylinder.
- ☐ Safe and fast way of getting cylinder to the work site. Surface treatment: Spay coating
- ☐ Safe working load: 100Kg
- ☐ TuV Test Load: 200Kg
- ☐ Net weight: 13,5Kg

Wire Torch T-400 w/3m cable	607451
Self shield Torch T-350 w/3m cable	750179
Argon Regulator w/ flow meter	510010
CO2 Regulator w/flow meter	510012
Flow control meter for torch	597328
TIG welding gloves 6 pairs	632794
Control cable 25m	500104

Accessories for extension between UWI-500 TP and UWF-102



Control cable 25m for UWI-500TP	500104
Welding Cable 50mm ² per m	175844
Cable connector DIX 70 Male/Female	632893
Gas Hose 1/4" Black for shielding gas per.m	576157
Quick Coupling shielding gas hose to hose	320201
Ear clamp 1/4" hose, set of 10 pcs	768416
Pincher tool for ear clamps	768507



Wires for SMAW & FCAW

GPS-W-200	0,8 mm (0,030")	090-590117
MS-W-201	0,8 mm (0,030")	090-160100
Coreshield 8	1,6 mm (0,063")	090-750187
S-316-M-GF-221	0,9 mm (0,035")	090-597518
S-309-M-GF-222	0,9 mm (0,035")	090-309000*
lалbro-W-237	0,8 mm (0,030")	090-590091
lcuni-W-239	0,8 mm (0,030")	090-590109
Alumag-W-235	1,0 mm (0,040")	090-590083
Abratech-W-230	1,6 mm (0,060")	090-230230



* 309000 Replace 606041





UPC-1041



Key product information

- ❑ Product no. 404100
- ❑ Updated with new features
- ❑ Cutting and Gouging up to 40mm
- ❑ Supply pressure 6-7 bar
- ❑ Air consumption 190 L/min
- ❑ 440/ 380 V 3 phase 50/60Hz
- ❑ Weight : 15 kg



Plasma cutting advantages UPC-1041



Cutting and gouging all types of metals using the available compressed air onboard. Superior to gas cutting as it also cuts stainless steel, cast iron, copper and aluminum. Reduced consumption of oxygen and acetylene

Best performance to weight ratio on the market. Compact and lightweight to move around onboard.

User friendly and easy to operate

Cutting capacity up to 40mm steel

UPC-1041



Direct torch connection (no quick connection) eliminating problems with twisting the torch connection on the machine side leading to short circuit.

Power switch with built in 32 A fuse, eliminating problems due to connecting to wrong size fuse

Active fan control (fan only running when there is a need) that reduce amount of dust and dirt inside the plasma cutter thereby eliminating the risk of short circuiting.

Double coated electronics further improving reliability

Sturdy cover plate cabinet that also protects the filter regulator. Robust metal pressure regulator with automatic water trap.

New ergonomic plasma torch with safety switch

Safety equipment



A welder must protect himself against the danger of electric shocks, fume inhalation, burns, ultra-violet rays and bits of welding slag in the eyes.

He must also protect the work environment towards fire or explosions

Safety equipment

Protective clothing

Pos.	Product	Pcs/set	Product no.
A	Welders gloves for electric arc welding	6 pairs.	196-632786
B	TIG and gas welding gloves	6 pairs.	196-632794
	Working gloves	12 pairs	196-633057
C	Leather jacket, Large for welding	pcs	196-510438
C	Leather jacket, Extra large for welding	pcs	196-510446
D	Leather trousers with belt	pcs	196-633016
E	Leather cuffs	pair	196-175935
F	Arm protector	pair	196-184184
G	Leather apron	pcs	196-510420
H	Leather spats	pair	196-510453
I	Electrode quiver for max 2 kg electrodes	pcs	196-633040



Safety equipment



EN 12477:2001 Protective gloves for welders

Safety equipment



TIG Gloves



Working Gloves



Safety equipment

Fresh Air Face Shield with Auto Vision with Adjustable Shade 9-13, and head band

Product no. 196-767000

89/686/EEC category 3 EN 12941:2009

Auto Vision Face Shield with Adjustable Shade 9-13, and head band

Product no. 196-767001

89/686/EEC category 2 EN 175:1997-08

Safety Helmet with Flip Vision Face Shield with Flip up frame, head band and filter shade 11 glass

Product no. 619114

According to standard EN175:1997

Flip Vision Face Shield with Flip up frame, head band and filter shade 11 glass

Product no. 709485

According to standard EN175:1997

Face Shield with handle and filter shade 11 glass

Product no. 709485

According to standard EN175:1997



Safety equipment

Guide to arc welding glasses

Amperage	Filter Shade	Quantity in Unit	Product number unit
< 20 A	8–9	5 sets	196-633230
20–40 A	9–10	5 sets	196-633248
40–80 A	10	5 sets	196-633255
80–175 A	11	5 sets	196-633263
175–300 A	12	5 sets	196-633271
300–500 A	13	5 sets	196-633289
Safety Glass		10 pcs	196-633222
Protection Glass		10 pcs	196-633214



Higher amperage require darker filter shade



Work site protection



Welder Spatter Blanket
Product no.646067
EN-ISO 25980: 2012



Welding Curtain
Product no.735878
EN 1598



Fume Clean 230
Welding Fume Extractor,
Product no.735878



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