



# WK

## LET THE WELD BEGIN

Welding equipment and accessories for industry



[www.wkwelding.com](http://www.wkwelding.com)



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## About us

In constant communication with the **welding industry** and mainly with the end users of the WK has developed a full range of solutions that cover the main needs of their customers. Our goal is to listen to the industry so that we can understand the needs of welders and perfect our products **based on your experience**.

WK offers a full range of products, from **MMA welding** inverter to MIG MAG equipment with pulsed technology, as well as automated welding systems and all kinds of consumables and accessories of welding.

We want to create increasingly accurate and reliable teams based on the experience of the elderly experts in this field: **the welders**.

### LET THE WELD BEGIN

WK welding equipment is designed to provide easy handling to the welder while providing **excellent welding** quality thanks to its perfect regulation and arc concentration.

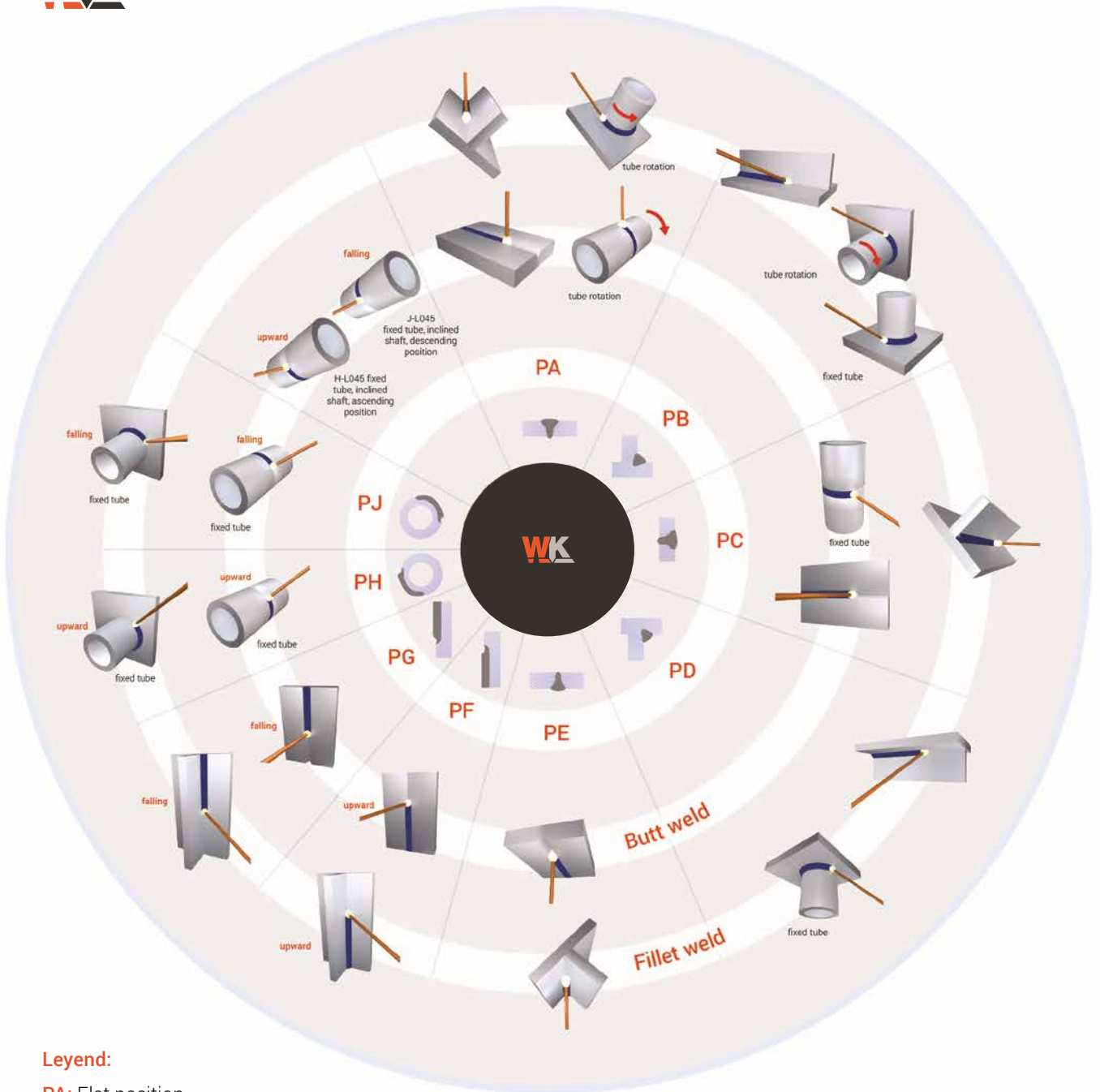
### DOMINATES THE STEEL

Having the right technology is the key to mastering and improving your production processes. WK puts state-of-the-art solutions to help you increase your productivity and ensure the quality of your their **welding processes**.





# WELDING POSITIONS ACCORDING TO DIN EN ISO 6947



**Legend:**

- PA: Flat position
- PB: Angel position
- PC: Transverse position
- PD: Ledge position.
- PE: Ceiling position / over head
- PF: Upright vertical position.
- PG: Vertical downward position.
- PH: Upward welding position for tube.
- PJ: Downward welding position for tube.

Depending on the welding task a different electrode positioning is recommende.





# ASTM CARBON STEEL TUBE

## ASME B36.10 welded and seamless pipe dimensions.

### Welded pipe / seamless

Dimensions according: ASME B36.10

Steel grades according to: ASTM A 106 Gr.B / API 5L Gr.B ISO 3183

■ Weight (kg/m)

Nominal Diameter [Pulg.]	External Diameter [mm.]	5	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
1/8"	10,3		1,24 0,28		1,45 0,32	1,73 0,37	1,73 0,37		2,41 0,47	2,41 0,47					
1/4"	13,7		1,65 0,49		1,85 0,54	2,24 0,63	2,24 0,63		3,02 0,80	3,02 0,80					
3/8"	17,1		1,65 0,63		1,85 0,70	2,31 0,84	2,31 0,84		3,20 1,10	3,20 1,10					
1/2"	21,3	1,65 0,80	2,11 1,00		2,41 1,12	2,77 1,27	2,77 1,27		3,73 1,62	3,73 1,62				4,78 1,95	7,47 2,55
3/4"	26,7	1,65 1,03	2,11 1,28		2,41 1,44	2,87 1,69	2,87 1,69		3,91 2,20	3,91 2,20				5,56 2,90	7,82 3,64
1"	33,4	1,65 1,29	2,77 2,09		2,90 2,18	3,38 2,50	3,38 2,50		4,55 3,24	4,55 3,24				6,35 4,24	9,09 5,45
1 1/4"	42,2	1,65 1,65	2,77 2,69		2,97 2,87	3,56 3,39	3,56 3,39		4,85 4,47	4,85 4,47				6,35 5,61	9,70 7,77
1 1/2"	48,3	1,65 1,90	2,77 3,11		3,18 3,53	3,68 4,05	3,68 4,05		5,08 5,41	5,08 5,41				7,14 7,25	10,15 9,55
2"	60,3	1,65 2,39	2,77 3,93		3,18 4,48	3,91 5,44	3,91 5,44		5,54 7,48	5,54 7,48				8,74 11,11	11,07 13,44
2 1/2"	73,0	2,11 3,69	3,05 5,26		4,78 8,04	5,16 8,63	5,16 8,63		7,01 11,41	7,01 11,41				9,53 14,92	14,02 20,39
3"	88,9	2,11 4,52	3,05 6,46		4,78 9,92	5,49 11,29	5,49 11,29		7,62 15,27	7,62 15,27				11,13 21,35	15,24 27,68
3 1/2"	101,6	2,11 5,18	3,05 7,41		4,78 11,41	5,74 13,57	5,74 13,57		8,08 18,64	8,08 18,64					
4"	114,3	2,11 5,84	3,05 8,37		4,78 12,91	6,02 16,08	6,02 16,08		8,56 22,32	8,56 22,32		11,13		13,49	
5"	141,3	2,77 9,46	3,40 11,56			6,55 21,77	6,55 21,77		9,53 30,97	9,53 30,97		12,70		15,88	19,05
6"	168,3	2,77 11,31	3,40 13,83			7,11 28,26	7,11 28,26		10,97 42,56	10,97 42,56		14,27		18,26	21,95
8"	219,1	2,77 14,78	3,76 19,97	6,35 33,32	7,04 36,82	8,18 42,55	8,18 42,55	10,31 53,09	12,70 64,64	12,70 64,64	15,09 75,92	18,26 90,44	20,62 100,93	23,01 111,27	22,23 107,93
10"	273,0	3,40 22,61	4,19 27,78	6,35 41,76	7,80 51,01	9,27 60,29	9,27 60,29	12,70 81,53	12,70 81,53	15,09 95,98	18,26 114,71	21,44 133,01	25,40 155,10	28,58 172,27	25,40 155,1
12"	323,8	3,96 31,24	4,57 35,98	6,35 49,71	8,38 65,19	9,53 73,86	9,53 73,86	14,27 79,71	14,27 108,93	17,48 97,44	21,44 132,05	25,40 159,87	28,58 186,92	33,32 208,08	25,40 238,69
14"	355,6	3,96 34,34	6,35 54,69	7,92 67,91	9,53 81,33	9,53 81,33	11,13 94,55	15,09 126,72	12,70 107,40	19,05 158,11	23,83 194,98	27,79 224,66	31,75 253,85	35,71 281,72	
16"	406,4	4,19 41,56	6,35 62,65	7,92 77,83	9,53 93,27	9,53 93,27	12,70 123,31	16,66 160,13	12,70 123,31	21,44 203,54	26,19 245,57	30,96 286,66	36,53 333,21	40,49 365,38	
18"	457	4,19 46,79	6,35 70,57	7,92 87,71	11,13 122,38	9,53 105,17	14,27 155,81	19,05 205,75	12,70 139,16	23,83 254,57	29,36 309,64	34,93 363,58	39,67 408,28	45,24 459,39	
20"	508	4,78 59,32	6,35 78,56	9,53 117,15	12,70 155,13	9,53 117,15	15,09 183,43	20,62 247,84	12,70 155,13	26,19 311,19	32,54 381,55	38,10 441,52	44,45 508,15	50,01 564,85	
22"	559	4,78 65,33	6,35 86,55	9,53 129,14	12,70 171,10	9,53 129,14		22,23 294,27	12,70 171,10	28,58 373,85	34,93 451,45	41,28 527,05	47,63 600,67	53,98 672,30	
24"	610	5,54 82,58	6,35 94,53	9,53 141,12	14,27 209,65	9,53 141,12	17,48 255,43	24,61 355,28	12,70 187,07	30,96 442,11	38,89 547,74	46,02 640,07	52,37 720,19	59,54 808,27	
26"	660		7,92 127,36	12,70 202,74		9,53 152,88			12,70 202,74						
28"	711		7,92 137,32	12,70 218,71	15,88 272,23	9,53 164,86			12,70 218,71						
30"	762	6,35 118,34	7,92 147,29	12,70 234,67	15,88 292,20	9,53 176,85			12,70 234,68						
32"	813		7,92 157,25	12,70 250,65	15,88 312,17	9,53 188,83	17,48 342,94		12,70 250,65						
34"	864		7,92 167,21	12,70 266,61	15,88 332,14	9,53 200,82	17,48 364,92		12,70 266,63						
36"	914		7,92 176,97	12,70 282,29	15,88 351,73	9,53 212,57	19,05 420,45		12,70 282,29						



## STEELS FOR SHIPBUILDING

### Equivalences and norms

	ABS	BV	DNV-GL	RINA	LR	NKK
Naval A	AB/A	BV-A	VL-A	Grade A	LR-A	KA
Naval B	AB/B	BV-B	VL-B	Grade B	LR-B	KB
Naval D	AB/D	BV-D	VL-D	Grade D	LR-D	KD
Naval E	AB/E	BV-E	VL-E	Grade E	LR-E	KE
AH-27 AM FCE	-	-	-	-	LR-AH27S	-
DH-27 AM FCE	-	-	-	-	LR-DH27S	-
EH-27 AM FCE	-	-	-	-	LR-EH27S	-
AH-32 AM FCE	AB/AH32	BV-AH32	VL-A32	AH32	LR-AH32	KA32
DH-32 AM FCE	AB/DH32	BV-DH32	VL-D32	DH32	LR-DH32	KD32
EH-32 AM FCE	AB/EH32	BV-EH32	VL-E32	EH32	LR-EH32	KE32
FH-32 AM FCE	AB/FH32	BV-FH32	VL-F32	-	LR-FH32	-
AH-36 AM FCE	AB/AH36	BV-AH36	VL-A36	AH36	LR-AH36	KA36
DH-36 AM FCE	AB/DH36	BV-DH36	VL-D36	DH36	LR-DH36	KD36
EH-36 AM FCE	AB/EH36	BV-EH36	VL-E36	EH36	LR-EH36	KE36
FH-36 AM FCE	AB/FH36	BV-FH36	VL-F36	-	LR-FH36	-
AH-40 AM FCE	AB/AH40	BV-AH40	VL-A40	-	LR-AH40	-
DH-40 AM FCE	AB/DH40	BV-DH40	VL-D40	-	LR-DH40	-
EH-40 AM FCE	AB/EH40	BV-EH40	VL-E40	-	LR-EH40	-
FH-40 AM FCE	AB/FH40	BV-FH40	VL-F40	-	LR-FH40	-

**STEELS FOR SHIPBUILDING**
**Mechanical characteristics**

	Sense	Thickness (mm)	R <sub>e</sub> (MPa)	R <sub>m</sub> (MPa)	A 5,65√S <sub>0</sub> (%)	KV 0°C (J)	KV -20°C (J)	KV -40°C (J)	KV -60°C (J)	
Naval A	T	5 - 100	≥ 235	400 - 520	≥ 22	-	-	-	-	
Naval B	L	5 - 50	-	-	-	≥ 27	-	-	-	
		50 - 70				≥ 34				
		70 - 100				≥ 41				
	T	5 - 50	≥ 235	400 - 520	≥ 22	≥ 20	-	-	-	
		50 - 70				≥ 24				
		70 - 100				≥ 27				
Naval D	L	5 - 50	-	-	-	-	≥ 27	-	-	
		50 - 70					≥ 34			
		70 - 100					≥ 41			
	T	5 - 50	≥ 235	400 - 520	≥ 22	-	≥ 20	-	-	
		50 - 70					≥ 24			
		70 - 100					≥ 27			
Naval E	L	5 - 50	-	-	-	-	≥ 27	-	-	
		50 - 70					≥ 34			
		70 - 100					≥ 41			
	T	5 - 50	≥ 235	400 - 520	≥ 22	-	-	≥ 20	-	-
		50 - 70						≥ 24		
		70 - 100						≥ 27		
AH-27 AM FCE	L	5 - 50	-	-	-	-	≥ 27	-	-	
		50 - 70					≥ 34			
		70 - 100					≥ 41			
	T	5 - 50	≥ 265	400 - 530	≥ 22	-	-	≥ 20	-	-
		50 - 70						≥ 24		
		70 - 100						≥ 27		
DH-27 AM FCE	L	5 - 50	-	-	-	-	≥ 27	-	-	
		50 - 70					≥ 34			
		70 - 100					≥ 41			
	T	5 - 50	≥ 265	400 - 530	≥ 22	-	-	≥ 20	-	-
		50 - 70						≥ 24		
		70 - 100						≥ 27		
DH-36 AM FCE	L	5 - 50	-	-	-	-	≥ 34	-	-	
		50 - 70					≥ 41			
		70 - 100					≥ 50			
	T	5 - 50	≥ 355	490 - 630	≥ 21	-	-	≥ 24	-	-
		50 - 70						≥ 27		
		70 - 100						≥ 34		

# STEELS FOR SHIPBUILDING

	Sense	Thickness (mm)	R <sub>e</sub> (MPa)	R <sub>m</sub> (MPa)	A 5,65√S <sub>0</sub> (%)	KV 0°C (J)	KV -20°C (J)	KV -40°C (J)	KV -60°C (J)
EH-36 AM FCE	L	5 - 50	-	-	-	-	-	≥ 34	-
		50 - 70						≥ 41	
		70 - 100						≥ 50	
	T	5 - 50	≥ 355	490 - 630	≥ 21	-	-	≥ 24	-
		50 - 70						≥ 27	
		70 - 100						≥ 34	
FH-36 AM FCE	L	5 - 50	-	-	-	-	-	≥ 34	-
		50 - 70						≥ 41	
		70 - 100						≥ 50	
	T	5 - 50	≥ 355	490 - 630	≥ 21	-	-	≥ 24	-
		50 - 70						≥ 27	
		70 - 100						≥ 34	
AH-40 AM FCE	L	5 - 50	-	-	-	-	-	≥ 39	-
		50 - 70						≥ 46	
		70 - 100						≥ 55	
	T	5 - 50	≥ 390	510 - 650	≥ 20	-	-	≥ 26	-
		50 - 70						≥ 31	
		70 - 100						≥ 37	
DH-40 AM FCE	L	5 - 50	-	-	-	-	-	≥ 39	-
		50 - 70						≥ 46	
		70 - 100						≥ 55	
	T	5 - 50	≥ 390	510 - 650	≥ 20	-	-	≥ 26	-
		50 - 70						≥ 31	
		70 - 100						≥ 37	
EH-40 AM FCE	L	5 - 50	-	-	-	-	-	≥ 39	-
		50 - 70						≥ 46	
		70 - 100						≥ 55	
	T	5 - 50	≥ 390	510 - 650	≥ 20	-	-	≥ 26	-
		50 - 70						≥ 31	
		70 - 100						≥ 37	
FH-40 AM FCE	L	5 - 50	-	-	-	-	-	≥ 39	-
		50 - 70						≥ 46	
		70 - 100						≥ 55	
	T	5 - 50	≥ 390	510 - 650	≥ 20	-	-	≥ 26	-
		50 - 70						≥ 31	
		70 - 100						≥ 37	

**STEELS FOR SHIPBUILDING**

	Sense	Thickness (mm)	R <sub>e</sub> (MPa)	R <sub>m</sub> (MPa)	A 5,65√S <sub>0</sub> (%)	KV 0°C (J)	KV -20°C (J)	KV -40°C (J)	KV -60°C (J)
EH-27 AM FCE	L	5 - 50	-	-	-	-	-	≥ 27	-
		50 - 70						≥ 34	
		70 - 100						≥ 41	
	T	5 - 50	≥ 265	400 - 530	≥ 22	-	-	≥ 20	-
		50 - 70						≥ 24	
		70 - 100						≥ 27	
AH-32 AM FCE	L	5 - 50	-	-	-	≥ 31	-	-	-
		50 - 70				≥ 38			
		70 - 100				≥ 46			
	T	5 - 50	≥ 315	440 - 570	≥ 22	-	-	≥ 22	-
		50 - 70						≥ 26	
		70 - 100						≥ 31	
DH-32 AM FCE	L	5 - 50	-	-	-	-	≥ 31	-	-
		50 - 70					≥ 38		
		70 - 100					≥ 46		
	T	5 - 50	≥ 315	440 - 570	≥ 22	-	-	≥ 22	-
		50 - 70						≥ 26	
		70 - 100						≥ 31	
EH-32 AM FCE	L	5 - 50	-	-	-	-	-	≥ 31	-
		50 - 70						≥ 38	
		70 - 100						≥ 46	
	T	5 - 50	≥ 315	440 - 570	≥ 22	-	-	≥ 22	-
		50 - 70						≥ 26	
		70 - 100						≥ 31	
FH-32 AM FCE	L	5 - 50	-	-	-	-	-	≥ 31	-
		50 - 70						≥ 38	
		70 - 100						≥ 46	
	T	5 - 50	≥ 315	440 - 570	≥ 22	-	-	≥ 22	-
		50 - 70						≥ 26	
		70 - 100						≥ 31	
AH-36 AM FCE	L	5 - 50	-	-	-	≥ 34	-	-	-
		50 - 70				≥ 41			
		70 - 100				≥ 50			
	T	5 - 50	≥ 355	490 - 630	≥ 21	-	-	≥ 24	-
		50 - 70						≥ 27	
		70 - 100						≥ 34	

# STEELS FOR SHIPBUILDING

## Chemical compositions

	C (%)	Mn (%)	P (%)	S (%)	Si (%)	Al (%)	Cu (%)	Cr (%)	Ni (%)	Mo (%)	Ceq (%)	N <sub>2</sub> (%)
Naval A	≤ 0,21	≥ 2,5*Cmin	≤ 0,035	≤ 0,035	≤ 0,50	-	≤ 0,30	≤ 0,20	≤ 0,40	≤ 0,08	-	-
Naval B	≤ 0,21	≥ 0,60	≤ 0,035	≤ 0,035	≤ 0,35	-	≤ 0,30	≤ 0,20	≤ 0,40	≤ 0,08	-	-
Naval D	≤ 0,21	≥ 0,60	≤ 0,035	≤ 0,035	0,10 - 0,35	≥ 0,020	≤ 0,30	≤ 0,20	≤ 0,40	≤ 0,08	-	-
Naval E	≤ 0,18	≥ 0,70	≤ 0,035	≤ 0,035	0,10 - 0,35	≥ 0,020	≤ 0,30	≤ 0,20	≤ 0,40	≤ 0,08	-	-
AH-27 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
DH-27 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
EH-27 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
AH-32 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
DH-32 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
EH-32 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
FH-32 AM FCE	≤ 0,16	0,9 - 1,60	≤ 0,025	≤ 0,025	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,36	≤ 0,012
AH-36 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,38	≤ 0,012
DH-36 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,38	≤ 0,012
EH-36 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,38	≤ 0,012
FH-36 AM FCE	≤ 0,16	0,9 - 1,60	≤ 0,025	≤ 0,025	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,38	≤ 0,012
AH-40 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,40	≤ 0,012
DH-40 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,40	≤ 0,012
EH-40 AM FCE	≤ 0,18	0,9 - 1,60	≤ 0,035	≤ 0,035	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,40	≤ 0,012
FH-40 AM FCE	≤ 0,16	0,9 - 1,60	≤ 0,025	≤ 0,025	≤ 0,50	≥ 0,020	≤ 0,35	≤ 0,20	≤ 0,40	≤ 0,08	≤ 0,40	≤ 0,012

In the case of A / B / D / E grades, the carbon + 1/6 of the manganese content must not exceed 0.40%. The steel must contain aluminum, niobium, vanadium or other elements that generate an adequate grain refinement, either individually or in combination with other elements. When used individually, the content of the grain refining element present in steel it must be the specified minimum (0.02% ≤ Nb ≤ 0.05%, 0.05% ≤ V ≤ 0.10%, Ti ≤ 0.02%). When used in combination with other elements, does not apply the minimum content specified for each element.

$$Nb + Ti + V \leq 0,12\%$$

In the case of \* H quality, the Ceq requirements only apply to TM lamination conditions and to thicknesses <50 mm.







## Symbology



Posibility of remote control on torch



High frequency



AC/DC technology



IGBT technology



Three-phase



Use with current generator



Synergistic



Power correction factor



High duty cycle



Up/down



Single phase



Push-pull torch



Wifi remote control



MCU control system



Voltage reduction device



Ø 300 mm (20kg)



Voltage spike protection



Phase loss protection



Wifi pedal control possibility



Pulse



N° Regulations



Thermostat



Preset on emote control



Measuring instruments



Forced cooling



"Lift Arc" activation



Generator on wheels



V<sub>1+X%</sub> Mains voltage compensation





# Welding Equipment

## MMA



# MMA 180A WELDING EQUIPMENT



## SWK 180



### Welding Equipment MMA

SWK series equipment is specially designed for electrode welding. Lightweight and capable of contact Tig welding, they are also prepared to work with generators avoiding possible failures due to voltage peaks. They have functions like ARC Force, Anti-Sticking and Hot Start and are equipped with voltage, current sensors and temperature for self-protection. The SWK series offers the welder perfect regulation of welding parameters and allows you to work smoothly comfortably and safely thanks to the reduced weight of the equipment.

## Main features

Tig mode  
Tig Lift mode welding capability

Additional functions  
Incorporates Hot Start, Anti-sticking and Arc Force function

Protection  
Equipped with temperature sensors, protection for loss of phase, voltage and current for a high self-protection of the equipment

Digital screen  
Weight

Lightweight and versatile equipment  
Use with current generator

Designed to absorb voltage spikes and work safely on generator power

## Technical data

• Model	SWK 180	• Efficiency	≥80%
• Power supply voltage (V)	160~275	• Net Weight (Kg)	3.8
• Fre. (HZ)	50/60	• Dimensions (mm)	296x132x260
• Rated input power (KW)	6.0	• Electrode type (mm)	Φ1.6~Φ5.0
• Nominal input current (A)	40	• Insulation class	6013,7018 etc.
• Duty cycle (40°C 10Min) 25% 180A / 60% 130A/ 100% 80A		• Protection class	H
• Vacuum voltage (V)	63	• Protection class	IP 23
• Welding voltage range (V)	10~180	• Cooling	AF
• Power factor	0.65		

## MMA SWK 200A WELDING EQUIPMENT



### SWK 200



#### Welding equipment MMA

SWK series equipment is specially designed for electrode welding. They are teams very lightweight and capable of contact Tig welding, they are also designed to work with generators avoiding possible failures due to voltage peaks.

They have functions such as ARC Force, Anti-Sticking and Hot Start and are equipped with voltage, current and temperature for the self-protection of the equipment.

The SWK series offers the welder perfect regulation of welding parameters and allows you to work seamlessly comfortable and safe thanks to the reduced weight of the equipment.

### Main features

#### Tig mode

Lift Tig welding capability .

#### Additional functions

Incorporates Hot Start, Anti-Sticking and Arc Force function.

#### Protections

Equipped with temperature sensors, phase, voltage and current loss protection for high self-protection of the equipment.

#### Digital screen

Control of amperage and voltage simultaneously by digital panel.

#### Weight

Lightweight and versatile equipment.

#### Use with current generator

Designed to absorb voltage spikes and work safely on generator power.

### Technical data

• Model	SWK 200	• Net weight (Kg)	3.8
• Power supply voltage (V)	160~275	• Dimensions (mm)	296x132x260
• Fre. (HZ)	50/60	• Electrode diameter (mm)	Φ1.6~Φ5.0
• Rated input power (KW)	6.8	• Tipo de electrodo	6013,7018 etc.
• Rated input current (A)	49	• Power factor	0.65
• Work cycle (40°C 10Min)		• Insulation class	H
30% 200A / 60% 145A / 100% 125A		• Protection class	IP 23
• Vaccum voltage (V)	63	• Cooling	AF
• Welding current range (A)	10~220		
• Efficiency	≥ 80%		



## MMA 200A WELDING EQUIPMENT



### SWK 200 CSO



#### Welding Equipment MMA

The SWK CSO is a series of light-weight inverter equipment, conceived for electrode welding and TIG by contact. Prepared to work with generators avoiding failures derived from voltage peaks.

High vacuum tension allows them to work with cellulosic electrode and achieve a perfect priming of the electrode in any working condition.

Included functions: ARC Force, Anti-sticking and Hot Start, sensors for voltage, current and temperature for equipment self-protection.

### Main features

#### Mode

Welding with Tig Lift possible

#### Additional functions

Incorporates Hot Start, Anti-sticking and Arc Force function

#### Protection

Equipped with temperature sensors, protection for loss of phase, voltage and current for a high self-protection of the equipment

#### Digital screen

#### Weight

Lightweight and versatile equipment

#### Use with current generator

Designed to absorb voltage peaks and work safely on generator power

#### High vacuum voltage

### Technical data

• Model	SWK 200 CSO	• Efficiency	≥ 80%
• Power supply voltage (V)	160~275	• Net weight (Kg)	4.5
• Fre. (HZ)	50/60	• Dimensions (mm)	316x132x260
• Rated input power (KW)	6.8	• Electrode diameter (mm)	Φ1.6~Φ5.0
• Rated input current (A)	49	• Power factor	0.65
• Work cycle (40°C 10Min)		• Insulation class	H
30% 200A / 60% 145A / 100% 125A		• Protection class	IP 23
• Vacuum voltage (V)	90	• Cooling	AF
• Welding current range (A)	10~200		
• Electrode type	6010,6011,6013,7018		

# MMA SWK 250 WELDING EQUIPMENT



## SWK 250



### Welding Equipment MMA

SWK series equipment is specially designed for electrode welding.

Lightweight and with capacity for contact Tig welding, they are also designed to work with generators avoiding possible failures due to voltage peaks.

## Main features

Tig mode  
Lift Tig welding capability.

Additional functions  
Incorporates Hot Start, Anti-sticking, Arc Force and VRD functions.

Protections  
Equipped with temperature sensors, protection for loss of phase, voltage and current for a high self-protection of the equipment.

Digital screen  
Control of amperage and voltage simultaneously by digital panel.

Weight. Lightweight and versatile equipment.

Use with current generator  
Designed to absorb voltage spikes and work safely with generator power.

## Technical data

• Model	SWK 250	• Electrode type	6013,7018 etc.
• Power supply voltage (V)	3~380 ±10%	• Efficiency	≥85%
• Fre. (HZ)	50/60	• Net Weight (Kg)	10
• Rated input power (KW))	8.5	• Dimensions (mm)	457x189x350
• Rated input current (A)	18	• Power factor	0.7
• Work cycle (40°C 10Min)		• Insulation class	H
60% 250A - 100% 200A		• Protection class	IP 23
• Vacuum voltage (V)	60	• Cooling	AF
• Welding current range	10~250		
• Electrode diameter (mm)	Φ1.6~Φ5.0		

# MMA SWK 320 WELDING EQUIPMENT



## SWK 320



### Welding equipment MMA

SWK CSO is a series of inverter light-weight equipment and capable of electrode welding and TIG by contact. They are designed to work with generators avoiding failures derived from voltage peaks.

Their high vacuum tension allows them to work with cellulosic electrode and achieve a perfect priming of the electrode in any working condition.

They have functions like ARC Force, Anti-sticking and Hot start and are equipped with voltage, current and temperature for self-protection of the equipment.

## Main features

Tig Mode

Lift Tig mode welding capability

Additional functions

Incorporates Hot Start, Anti-sticking, adjustable Arc Force and VRD

Protection

Equipped with temperature sensors, protection for loss of phase, voltage and current for high self-protection.

Digital screen

Control of amperage and voltage simultaneously by digital panel

Weight

Versatile and light.

Use with current generator

Designed to absorb voltage peaks and work safely on generator power.

High vacuum voltage

## Technical data

• Model	SWK 320	• Net weight (Kg)	17.6
• Power supply voltage (V)	3~380 ±10%	• Dimensions (mm)	485x240x445
• Fre. (HZ)	50/60	• Electrode diameter (mm)	Φ1.6~Φ6.0
• Rated input power (KW)	11.3	• Electrode type	6010,6011,6013,7018 etc..
• Rated input current (A)	30	• Power factor	0.7
• Work cycle (40 10Min)	60% 320A - 100% 250A	• Insulation class	H
• Vacuum voltage (V)	60	• Protection class	IP 23
• Welding current range (A)	10~320	• Cooling	AF
• Efficiency	≥ 90%		

# MMA 400A WELDING EQUIPMENT



## SWK 400 CSO



### Welding equipment MMA

SWK CSO is a series of light-weight inverter equipment, for electrode and TIG welding. They are prepared to work with generators avoiding failures derived from voltage peaks.

Their high vacuum tension allows them to work with cellulosic electrode and achieve a perfect priming of the electrode in any working condition.

They have functions like ARC Force, Anti-sticking and Hot Start and are equipped with voltage, current and temperature for equipment self-protection.

## Main features

Tig Mode

Tig Lift mode welding capability.

Additional functions

Incorporates Hot Start, Anti-sticking, Arc Force and VRD functions.

Protection

Equipped with temperature sensors, protection for loss of phase, voltage and current for a high self-protection of the equipment.

Digital screen

Use with current generator

Designed to absorb voltage peaks and work safely with generator power.

High vacuum voltage.

## Technical data

• Model	SWK 400 CSO	• Electrode diameter	Φ1.6~Φ6.0 mm.
• Power supply voltage (V)	3~380 ±10%	• Efficiency	≥90%
• Fre. (HZ)	50/60	• Net weight (Kg)	19
• Rated input power (KW)	16.0	• Dimensions (mm)	485x240x445
• Rated input current (A)	30	• Power factor	0.7
• Work cycle (40°C 10Min)		• Insulation class	H
60% 400A / 100% 325A		• Protection class	IP 23
• Vacuum voltage (V)	90	• Cooling	AF
• Welding voltage range (V)	20~400		
• Electrode type	6010,6011,6013,7018		





# Welding equipment

# TIG

# TIG 200A WELDING EQUIPMENT



## TWK 200



### Welding Equipment TIG

The TWK series are designed for TIG welding.

They have a high frequency arc ignition and optional Up / Down mode selection button. Welding mode in 2T / 4T. Ability to weld with Electrode, TIG Lift and TIG HF. They are inverter generators with superior arc dynamics and high welding performance.

With the possibility of being connected to current generators thanks to the equipment protection sensors that avoid possible failures derived from voltage peaks.

### Main features

HF mode  
HF high frequency priming

Descending ramp  
Adjustable down ramp time

Post gas  
Adjustable post-gas time

2T / 4T mode  
2T / 4T mode selection

Protection  
Equipped with temperature, voltage and current sensors for high equipment protection

Use with current generator  
Designed to work with generator power

Weight  
Extremely light and versatile

### Technical date

• Model	TWK 200	• Net Weight (Kg)	5.5
• Power supply voltage (V)	160~275	• Dimensions (mm)	410x146x278
• Fre. (HZ)	50/60	• Electrode diameter	Φ1.6~Φ5.0
• Rated input power (KW)	4.5(TIG)/7.0(MMA)	• Electrode type	6013,7018 etc
• Nominal input current (A)	32(TIG)/46(MMA)	• Insulation Class	H
• Duty cycle (40°C 10Min)	35% 200A / 60% 125A / 100% 100A	• Protection class	IP 23
• Vacuum voltage (V)	74	• Cooling	AF
• Welding current range (A)	10~200		
• Descent time	0~10		



# PULSE TIG 200A WELDING EQUIPMENT



## TWK 200 PULSE



### Welding Equipment Pulse TIG

The TWK Pulse series provides the welder with all the advantages of WK TIG technology including pulsed current mode that allows welding on thin materials with little or no deformation, when providing a perfect welding bead.

### Main features

Multiple welding modes  
MMA / LIFT TIG / HF TIG / TIG Pulsed

Up / down ramp  
Adjustable up and down ramp times

Pre / Post Gas  
Adjustable pre-gas and post-gas times

Pulse  
High performance of the equipment on thin surfaces. No deformation of the part

Protection  
Equipped with temperature, voltage and current sensors for greater equipment self-protection

Use with current generator  
Designed to work with generator power

### Technical data

• Model	TWK 200 PULSE	• Fre. Pulse (Hz)	0.5~200
• Power supply voltage (V)	1~220/230/240 ±10%	• Pulse width range	5~95 %
• Fre. (HZ)	50/60	• Efficiency	≥ 85%
• Rated input power (KW)	4.5(TIG)/7.0(MMA)	• Net Weight (Kg)	5.5
• Nominal input current (A)	32(TIG)/45(MMA)	• Dimensions (mm)	410x146x278
• Duty cycle (40°C 10Min)	35% 200A / 60% 125A / 100% 100A	• Power factor	0.75
• Vacuum voltage (V)	74	• Insulation Class	H
• Welding current range (V)	5~200	• Protection class	IP 23
• Ramp time up / down	0~10 (S)	• Cooling	AF
• Pre-gas / post-gas flow (S)	0~2/0~10		

# PULSED TIG 250A WELDING EQUIPMENT



## TWK 250 PULSE



### Welding equipment Pulsed TIG

The TWK Pulse series gives the welder all the advantages of WK TIG technology including pulsed current that allows welding thin materials with little or no deformation while providing a perfect welding bead.

## Main features

Multiple welding modes  
MMA / LIFT TIG / HF TIG / TIG Pulsed

Up / down ramp  
Adjustable up and down ramp times

Pre/Post Gas  
Adjustable pre-gas and post-gas times

Pulse  
High performance of the equipment on thin surfaces. No deformation

Protection  
Equipped with temperature, voltage and current sensors for greater equipment self-protection

Use with current generator  
Designed to work with generator power

## Technical data

• Model	TWK 250 PULSE
• Power supply voltage (V)	1~220/230/240 ±10%
• Fre. (HZ)	50/60
• Rated input power (KW)	5.9(TIG) / 8.8(MMA)
• Rated input current (A)	40(TIG) / 53(MMA)
• Work cycle (40°C 10Min) 40% 250A / 60% 200A / 100% 180A	
• Vacuum voltage (V)	66
• Welding current range (V)	5~250
• Up / Down Slope Time	0~10(S)
• Pre-gas / post-gas flux (S)	0~2/0~10
• Fre. Pulse (Hz)	0.5~200

• Pulse width range	5~95
• Efficiency	≥ 85%
• Net weight (Kg)	10
• Dimensions (mm)	447x189x350
• Power factor	0.75
• Insulation class	H
• Protection class	IP 23
• Cooling	AF

# PULSED TIG 320A WELDING EQUIPMENT



## TWK 320 PULSE



### Welding equipment Pulsed TIG

The TWK Pulse series provides the welder with all the advantages of WK TIG technology including pulsed current mode that allows welding thin materials with little or no deformation, while providing a perfect welding bead.

### Main features

Multiple welding modes  
Pulsed MMA / LIFT TIG / HF TIG / TIG

Up / down ramp  
Adjustable up and down ramp times.

Pre/Post Gas  
Adjustable pre-gas and post-gas times.

Pulse  
High performance of the equipment on thin surfaces. No deformation of the part.

Protection  
Equipped with temperature, voltage and current sensors for greater equipment self-protection.

Use with current generator  
Designed to work with generator power.

### Accessories

Optional cooling unit.  
Optional transport trolley.



### OPTIONAL WIRELESS CONTROLLER



### Technical data

• Model	TWK 320 PULSE	• Pulse width range	5~95 (%)
• Power supply voltage (V)	3~380 ±10%	• Pulse Fre. (HZ)	0.5~200
• Fre. (HZ)	50/60	• Efficiency	≥ 85%
• Rated input power (KW)	9.5(TIG)/11.5(MMA)	• Net weight (Kg)	20
• Rated input current (A)	19(TIG)/23(MMA)	• Dimensions (mm)	530x240x445
• Work cycle (40°C 10Min)	60% 320A / 100% 250A	• Power factor	0.75
• Vacuum voltage (V)	68	• Insulation class	H
• Welding current range (A)	5~320	• Protection class	IP 23
• Up / Down Slope Time	0~10 (S)	• Cooling	AF
• Pre / post flow (S)	0~2/0~10		

# PULSED AC / DC 200A TIG WELDING EQUIPMENT



## TWK 200 AC/DC PULSE



### Welding equipment TIG AC/DC

WK AC / DC TIG units offer outstanding performance in alternating current welding. The control AC balance (50 ~ 85%) monitors aluminum oxide and helps better cleaning during welding. They are prepared for high work regimes given their high duty cycle and are equipped with sensors voltage, current and temperature for self-protection of the team.

## Main features

### Mode

TIG HF/ TIG Pulse/ TIG AC/DC

### AC balance control

AC balance control (50 ~ 85%) monitors rust and helps better cleaning when welding aluminum

### Protection

Equipped with temperature, voltage and current sensors for greater equipment self-protection

### Weight

Extremely light and versatile

## Technical data

• Model	TWK 200 AC/DC PULSE	• Vacuum voltage (V)	52
• Power supply voltage (V)	1~220/230/240 ±10%	• Pre / post flux (S)	1/10
• Fre. (HZ)	50/60	• Pulse Fre. (HZ)	0.5~200
• Rated input power (KW)	4.3(ACTIG) 3.8(DCTIG) 5.7(MMA)	• Pulse width range	5~95(%)
• Rated input current (A)	30(AC TIG)27(DC TIG)36.6(MMA)	• AC Fre. (Hz)	60
• Work cycle (40°C 10Min)	35%200A / 60%155A / 100%120A (AC TIG) 40%170A / 60%140A / 100%110A (MMA&DC TIG)	• Cleaning balance (Hz)	15~50
• Welding current range (A)	10~200(AC TIG) 10~170(MMA&DC TIG)	• Efficiency	≥ 85%
• Ramp up / down time	0~10(S)	• Net weight (Kg)	7.0
		• Dimensions (mm)	410x146x278
		• Insulation class	H
		• Protection class	IP 23
		• Cooling	AF

# PULSED AC / DC 320A TIG WELDING EQUIPMENT



## TWK 320 AC/DC PULSE



### Welding equipment TIG AC/DC

WK AC / DC TIG units offer outstanding performance in alternating current welding. They offer the possibility of multiple waveform selection in the output current, from a square wave format, sine wave or triangular. Balance control AC (50 ~ 85%) monitors aluminum oxide and helps to better cleaning during welding. They are prepared for demanding work regimes given its high factor gear and are equipped with voltage sensors, current and temperature for equipment self-protection.

## Main features

Mode: TIG HF/ TIG Pulsed/ TIG AC/DC

### Accessories

- Pedal control option.
- Wireless remote control option.
- Wireless pedal control option.
- Up/Down torch option.
- Remote control torch option.
- Optional transport trolley.
- Optional cooling unit.

### Multiple wave output.

AC waveforms include square wave, sine wave, triangle wave.

### AC Balance control

AC balance control (50 ~ 85%) monitors rust and helps better cleaning when welding aluminum.

## Protection

Equipped with temperature, voltage and current sensors for greater self-protection of the team.



### OPTIONAL WIRELESS CONTROLLER



## Technical data

• Model	TWK 320 AC/DCPULSE	• Pulse width range	5~95(%)
• Power supply voltage (V)	3~380 ±10%	• AC Fre.(Hz)	50-250
• Rated input power (KW)	9.5(TIG) / 12(MMA)	• Efficiency	≥85%
• Rated input current (A)	15.5(TIG) / 24(MMA)	• Net weight (Kg)	25.5
• Work cycle (40°C 10Min)	100% 250 60% 320	• Dimensions (mm)	550x240x445
• Vacuum voltage (V)	50	• Power factor	0.75
• Welding current range (A)	10~320	• Insulation class	H
• Ramp up / down time	0-10(S)	• Protection class	IP 23
• Pre-gas/post-gas flux (S)	0-2/0-10	• Cooling	AF
• Fre. Pulse (HZ)	0.5~200		

# PULSE AC / DC 400A TIG WELDING EQUIPMENT



## TWK 400 AC/DC PULSE



### Welding equipment TIG AC/DC

WK AC / DC TIG units offer outstanding performance in alternating current welding. They include optional multiple waveform selection in the output current, including square wave format, sine wave or triangular. AC balance control (50 ~ 85%) monitors aluminum oxide and helps better cleaning during welding. They are prepared for intensive work regimes given their high gear factor and are equipped with voltage, current and temperature sensors for equipment self-protection.

## Main features

Mode: TIG HF/ Pulse TIG/ TIG AC/DC

### Accessories

- Optional pedal control.
- Wireless remote control optional.
- Wireless footswitch control optional.
- Up / Down torch possibility.
- Remote control torch possible.
- Optional transport trolley.
- Optional cooling unit.

### Multiple wave output

AC waveforms include square wave, sine wave, triangle wave.

### AC balance control

AC balance control (50 ~ 85%) monitors rust and helps better cleaning during aluminum welding.

## Protection

Equipped with temperature, voltage and current sensors for greater equipment self-protection.



### OPTIONAL WIRELESS CONTROLLER



## Technical data

• Model	TWK 400 AC/DC PULSE	• Fre. Pulse (Hz)	0.5~200
• Power supply voltage (V)	3~380 ±10%	• Pulse width range	5~95 (%)
• Fre. (HZ)	50/60	• AC Fre.(Hz)	50-250
• Rated input power (KW)	12.1(TIG) / 18.5(MMA)	• Efficiency	≥85%
• Rated input current (A)	24.5(TIG) / 33(MMA)	• Net weight (Kg)	27
• Work cycle (40°C 10Min)	100% 400A 60% 310A	• Dimensions (mm)	550x240x445
• Vacuum voltage (V)	50	• Power factor	0.75
• Welding current range (A)	10~400	• Insulation class	H
• Up / Down Slope Time	0-10 (S)	• Protection class	IP 23
• Pre-gas / post-gas Flux (S)	0-2/0-10	• Cooling	AF







# Welding equipment

# **MIG/MAG**



# COMPACT MIG-MAG EQUIPMENT 200A



## GWK 200 LCD



### Welding equipment MIG-MAG

200A compact MIG-MAG equipment for coils of 5 kg thread. It has a new LCD display for a perfect display of settings of the machine. Its reduced weight makes it a highly versatile equipment for jobs that require continuous movement of welding equipment.

### Main features

- LCD screen
- 300.000 colors
- Multifunction
- MIG / TIG / MMA
- PFC technology
- Power factor of more than 0.99. Energy saving and possibility of working with voltages 110V - 220V input
- Loading capacity of 5 Kgs coils
- Waveform control for increased arc stability even at low amperage
- Protection
- Equipped with temperature, voltage and current sensors for added self-protection

### Technical data

• Model	GWK 200 LCD	• Wire diameter (mm)	
• Power supply voltage (V)	90~275	Fe:	0.6/0.9/1.0
• Fre. (HZ)	50/60	Ss:	0.8/0.9/1.0
• Rated input power (KW)		Flux-Cored:	0.6/0.8/0.9/1.0
1~110/120/130 ±10%	3.7(MIG) 4.1(MMA) 2.8(TIG)	• Fre. Pulse (HZ)	0.5~200
1~220/230/240 ±10%	6.0(MIG) 6.2(MMA) 4.2(TIG)	• Pulse width range	5~95(%)
• Work cycle (40°C 10Min)		• Efficiency	≥85%
35% 200A / 60% 155A / 100% 120A		• Net weight (Kg)	12
• Vacuum voltage (V)	65	• Dimensions (mm)	511x213x400
• Welding current range	(A) 40~200	• Power factor	0.99
• Welding voltage range (V)	14~24	• Insulation class	H
• Pre / post flow (S)	0~2/0~10	• Protection class	IP 23
		• Cooling	AF

# COMPACT MIG-MAG 250A



## GWK 250



### Welding equipment MIG-MAG

The GWK series are compact MIG-MAG equipment, they can incorporate coils from 5kg to 20kgs. Shape control wave for perfect arc stability even at low amperage.

Designed to work in adverse conditions and high work rates. Available in two versions single phase and three phase.

## Main features

- Wave control for increased arc stability even at low amperage.
- Equipped with temperature, voltage and current sensors for added self-protection.
- 20kgs coil load capacity.
- 4 roller drive train.
- Two options available: Single Phase and Three Phase.

## Technical data

• Model	GWK 250	• Efficiency	≥85%
• Power supply voltage (V)	1~230±10%	• Net weight (Kg)	23 - 25
	3~380±10%	• Dimensions (mm)	618x240x445
• Fre. (HZ)	50/60 - 50/60	• Power factor	0.70
• Rated input power (KW)	7.3 - 11	• Insulation class	H
• Rated input current (A)	50 - 21	• Protection class	IP 23
• Work cycle (40°C 10Min)	60% 250A - 100% 200A	• Cooling	AF
• Vacuum voltage (V)	47 - 48		
• Welding current range (A)	50~250		
• Welding voltage range	13.5~26.5		

# COMPACT MIG-MAG 250A



## GWK 250 MPS



### Welding equipment MIG-MAG

The GWK MPS series are multifunction devices with the possibility of the 3 usual processes in a single computer (MMA-MIG AND TIG). It is a synergistic item that can incorporate coils from 5kg to 20 kg.

Designed for all maintenance work due to its versatility and easy handling.

## Main features

Waveform control for greater arc stability even at low amperage.

Multifunction:  
MIG/TIG/MMA.

Synergistic.

Coil load capacity of 20 Kgs.

4 roller drive train.

## Technical data

• Model	GWK 250 MPS			• Wire diameter (mm)	
• Power supply voltage (V)	1~110/120/130 +- 10%			Fe:	0.6/0.8/0.9/1.0
	1~220/230/240+-10%			Ss:	0.8/0.9/1.0
• Fre. (HZ)	50/60			Flux-Cored:	0.6/0.8/0.9/1.0
• Rated input power (KW)	MIG 8.3 - MMA 9.2 - TIG 6.4			• Efficiency	≥80%
• Rated input current I (A)	MIG 37 - MMA41 - TIG 28			• Net Weight (Kg)	23
• Duty cycle (40°C 10Min)				• Dimensions (mm)	618x240x445
	TIG	MMA	TIG	• Power factor	0.99
35%	250	250	250	• Insulation Class	H
60%	195	180	195	• Protection class	IP 23
100%	150	140	150	• Cooling	AF
• Vacuum voltage (V)	68 (MIG) 48 (MMA/TIG)				
• Welding current range (A)	40-250				
• Welding voltage range (V)	14~26.5				

# COMPACT PULSED MIG-MAG EQUIPMENT 250A



## GWK 250 PULSE



### Welding equipment MIG-MAG Pulsed

The GWK PULSE series is made up of synergistic equipment with Pulsed and Double Pulsed MIG-MAG Technology in compact design for easy portability.

The pulse technology allows remarkable advantages for welding, reducing deformations and thermal effects in different types of materials and thicknesses. It can house coils from 5kg to 20 kg.

## Main features

- Synergistic.
- Multifunction
- MIG/TIG/MMA
- PFC Technology
- Power factor above 0,99.
- Pulsed arc and double pulsed function.
- Wave control for increased arc stability even at low amperage.
- Digital screen.
- Equipped with temperature, voltage and current sensors for added self-protection.

## Technical data

• Model	GWK 250 PULSE	• Welding current range (A)	15~250
• Power supply voltage (V)	1~220/230/240±10%	• Welding voltage range (V)	16~26.5
• Fre. (HZ)	50/60	• Wire diameter (mm)	
• Rated input power (KW)		Fe: 0.6/0.9/1.0/1.2	
1~110/120/130±10%	4.5 (MIG) 4.2 (MMA) 3.3 (TIG)	Ss: 0.8/0.9/1.0/1.2	
1~220/230/240±10%	8.0 (MIG) 9.0 (MMA) 6.3 (TIG)	Flux-Cored: 0.6/0.8/0.9/1.0/1.2	
• Rated input current (A)	MIG MMA TIG	Al: 1.0/1.2	
	35 40 27	• Pulse Fre (HZ)	0.5-3.0HZ
• Work cycle (40°C 10Min)	30% 250A	• Pulse width range	10-90%
	60% 180A	• Efficiency	≥80%
	100% 140A	• Net Weight (Kg)	27
• Vacuum voltage (V)	15	• Dimensions (mm)	690x240x450
		• Power factor	0.99
		• Insulation class	H
		• Protection class	IP 23
		• Cooling	AF

## COMPACT PULSED MIG-MAG EQUIPMENT 250A



### GWK 250-3 PULSE



#### Welding equipment MIG-MAG Pulsed

The GWK PULSE series is made up of synergistic equipment with Pulsed and Double Pulsed MIG-MAG Technology in compact design for easy portability.

Pulsed technology allows remarkable advantages of welding of different types of materials and thicknesses. It can house coils from 5kg to 20 kg. This is the three-phase version.

### Main features

- Synergistic.
- Multifunction
- MIG/TIG/MMA
- High power factor
- Pulsed arc and double pulsed function.
- Digital screen.
- Equipped with temperature, voltage and current sensors for added self-protection.
- 4 roller drive train.

### Technical data

• Model	GWK 250-3 PULSE	• Pulse Fre (HZ)	0.5-3.0HZ
• Power supply voltage (V)	3~400±10%	• Pulse width range	10-90%
• Fre. (HZ)	50/60	• Efficiency	≥80%
• Rated input power (KW)	7.2 (MIG) 8.0 (MMA) 6.4 (TIG)	• Net weight (Kg)	26
• Rated input current (A)	MIG: 18 MMA: 20 TIG: 16	• Dimensions (mm)	670x240x450
• Work cycle (40°C 10Min)	60% 250 - 100% 195	• Power factor	0.70
• Vacuum voltage (V)	80 (MIG) 16 (MMA) 16(TIG)	• Insulation class	H
• Welding current range (A)	15~250	• Protection class	IP 23
• Welding voltage range (V)	14.8~26.5	• AF Refrigeration	AF
• Wire diameter (mm)			
Fe:	0.6/0.9/1.0/1.2		
Ss:	0.8/0.9/1.0/1.2		
Flux-Cored:	0.6/0.8/0.9/1.0/1.2		
Al:	1.0/1.2		

## COMPACT MIG-MAG EQUIPMENT 315A



### GWK 315 COMPACT



#### Welding equipment MIG-MAG

The GWK series are compact MIG-MAG devices with the possibility to incorporate coils of 5 to 20 kgs. The generators are equipped with inverter technology with shape control waveform for perfect arc stability even at low amperage. They are designed to work in adverse conditions and high work rates.

### Main features

Waveform control for increased arc stability even at low amperage.

Equipped with temperature, voltage and current sensors for added self-protection.

Coil load capacity of 20 Kgs.

4 roller drive train.

### Technical data

• Model	GWK 315 COMPACT	• Wire diameter (mm)	
• Power supply voltage (V)	3~380±10%	Fe:	0.6/0.8/0.9/1.0/1.2
• Fre. (HZ)	50/60	Ss:	0.8/0.9/1.0/1.2
• Rated input power (KW)	11	Flux-Cored:	0.6/0.8/0.9/1.0/1.2
• Rated input current (A)	23	• Efficiency	≥85%
• Work cycle (40°C 10Min)		• Net weight (Kg)	25
	40% 315A / 60% 250A/ 100% 200A	• Dimensions (mm)	618x240x445
• Vacuum voltage (V)	53	• Power factor	0.72
• Welding current range (A)	50~315	• Insulation class	H
• Welding voltage range (V)	13.5~30	• Protection class	IP 23
		• Refrigeration	AF

# SYNERGIC MIG-MAG EQUIPMENT 500A



## WK 500



### Welding equipment MIG-MAG

The welding machines of the WK series are MIG-MAG equipment with specially designed digital technology for steel welding. Control is based on MCU technology. It is a device with the possibility of synergistic regulation and memories for recording welding parameters.

## Main features

- Slow wire feed.
- Easy arc starting.
- Precise arc control.
- Digital display for perfect regulation.
- Lower projections due to advanced waveform control.
- Cored and solid wire.
- High power factor.
- Optional transport cart and refrigerator.

## Technical data

• Model	WK 500	• Wire diameter (mm)	1.0/1.2/1.6
• Power supply voltage (V)	3~380 ±10%	• Net weight (Kg)	50
• Fre. (HZ)	50/60	• Dimensions (mm)	655x324x546
• Rated input power (KVA)	23	• Insulation class	H
• Rated input current (A)	35	• Protection class	IP 23
• Work cycle (40°C 10Min)	60% 500A		
• Vacuum voltage (V)	82		
• Welding current range (A)	60~500		
• Welding voltage range (V)	14~50		
• Mode	2T/4T		



# MIG-MAG 500A EQUIPMENT



## WK STAR 500



### Welding equipment MIG-MAG

The WK STAR series of equipment has been designed for jobs that require robust, powerful equipment. Based on rectification technology by thyristors, although electronically regulated, the WK STAR is the choice of those in need of powerful equipment that withstands the most adverse working conditions.

New generation coaxial cable can be installed, which means less weight and therefore greater maneuverability in the work area.

The WK STAR enables installing an auxiliary device drag (push-pull) that allows the welder to work comfortably and safely by adjusting the parameters without having to move the drag head.

## Main features

- Robust
- High power factor
- Digital regulation of welding parameters
- Specially designed for shipbuilding and offshore
- Optional interconnection via coaxial cable
- Optional use of push-pull device (AWF)



## Technical data

• Model	WK STAR 500	• Wire diameter (mm)	0.8-2.0
• Power supply voltage (V)	400	• Net Weight (Kg)	158
• Fre. (HZ)	50/60	• Dimensions (mm)	890x500x860
• Rated input power (KVA)	31,5	• Insulation class	H
• Work cycle (40°C 10Min)	60% 500 / 100% 400	• Protection class	IP 23
• Vacuum voltage (V)	60		
• Welding current range (A)	50~500		



## MIG-MAG 500A EQUIPMENT



### WK 500 FR



#### Welding machines MIG-MAG

The FR series is MIGMAG welding equipment with independent thread winder. The FR series yarn winder is extremely light and has reduced dimensions, a great advantage in those activities in which constant movement of the welding equipment is necessary. It enables good regulation of the welding parameters, as well as a perfect stability and arc concentration.

### Main features

Waveform control for increased arc stability even at low amperage.

Equipped with temperature, voltage and current sensors for added self-protection.

High power factor.

Optional transport trolley and cooler.

Digital screen.

### Technical data

• Model	WK 500 FR	• Wire diameter (mm)	
• Power supply voltage (V)	3~380 ±10%	Fe:	0.6/0.9/1.0/1.2/1.6
• Fre. (HZ)	50/60	Ss:	0.8/0.9/1.0/1.2/1.6
• Rated input power (KVA)	26	Flux-Cored:	0.6/0.8/0.9/1.0/1.2/1.6
• Rated input current (A)	41	• Net weight (Kg)	30
• Work cycle (40°C)	60% 500A/100% 390A	• Dimensions (mm)	555x240x445
• Vacuum voltage (V)	65	• Insulation class	H
• Welding current range (A)	35~500	• Protection class	IP 23
• Welding voltage range (V)	13.5~50		
• Efficiency	≥85%		
• Power factor	0.95		

## PULSED MIG-MAG EQUIPMENT 500A



### WK 500 PULSE



#### Welding equipment Pulse MIG-MAG

The WK Pulse series is made up of synergistic machines with pulsed and double pulsed MIG-MAG technology, in 400 and 500 amp versions. Pulsed technology allows remarkable advantages in welding different types of material and thicknesses. Precision and reliability of WK WK Pulse equipment has proven itself as one of the highest performance solutions.

### Main features

- Synergistic equipment.
- Pulsed arc and double pulsed function.
- Allows activation of synergic curves for aluminum, steel, CuSi3 and stainless steel.
- High power factor.
- Waveform control for increased arc stability even at low amperage.
- Equipped with temperature, voltage and current sensors for added self-protection.
- Digital screen.
- Optional transport cart and cooler.

### Technical data

• Model	WK 500 PULSE	• Wire diameter (mm)	1.0,1.2,1.6
• Power supply voltage (V)	3~380 ±10%	• Net weight (Kg)	32,5
• Fre. (HZ)	50/60	• Dimensions (mm)	605x240x445
• Rated input power (KW)	MIG 23 /TIG 18/MMA 23	• Insulation class	H
• Rated input current (A)	35	• Protection class	IP 23
• Work cycle (40°C) 60% 500A / 100% 400A		• Cooling	AF
• Vacuum voltage (V)	68		
• Welding current range (A)	10~500		
• Welding voltage range (V)	14 – 50		





# Cutting equipment **Plasma**

# PLASMA CUTTING EQUIPMENT 65A



## PW-65 CNC



### Cutting equipment Plasma

PW plasma cutting equipment are very user-friendly and allow several types of materials to be cut (Aluminum, Carbon steel, Stainless steel and copper).

The pilot arc increases the cutting capacity and the speed as well as consumables useful life.

### Main features

- Pilot bow.
- High power factor.
- Max cut in Carbon Steel 35mm.
- Possibility of connection to a CNC table.

### Technical data

• Model	PW-65 CNC	• Net weight (Kg)	24
• Power supply voltage (V)	3~400	• Dimensions (mm)	640x240x445
• Fre. (HZ)	50/60	• Power factor	0.72
• Rated input power (KW)	7.8	• Insulation class	H
• Rated input current (A)	18	• Protection class	IP 23
• Work cycle (40°C 10Min)	90% 65A - 100% 61A	• Cooling	AF
• Vacuum voltage (V)	450		
• Cut-off voltage (V)	20~65		
• Cutting capacities (manufacturing):			
Carbon acid	25 mm		
Stainless	25 mm		
Aluminium	20 mm		
Copper	14 mm		





# Submerged Arc welding equipment

## SUBMERGED ARC GENERATOR 1250A



### WK SAW 1000



#### Welding equipment Submerged arc

WK SAW series are highly efficient submerged arc welding equipment with reduced weight and dimensions. They include inverter technology and a 100% gear factor. They offer digital control of the welding parameters both from the power source and from the module tractor. Possibility of selecting the arc function of air. Equipped with a self-diagnosis and communication system between the source and the tractor module, they include of self-protection systems due to overheating and short circuit.

### Main features

WK SAW series are highly efficient submerged arc welding equipment with reduced weight and dimensions.

They include inverter technology and a 100% gear factor.

They offer digital control of the welding parameters both from the power source and from the module tractor.

Possibility of selecting the arc function of air.

Equipped with a self-diagnosis and communication system between the source and the tractor module, they include of self-protection systems due to overheating and short circuit.

### Technical data

• Model	WK SAW 1000	• Wire diameter (mm)	2.0-6.0
• Power supply voltage (V)	3~380 ±10%	• Efficiency	≥85%
• Fre. (HZ)	50/60	• Net weight (Kg)	95
• Rated input power (KVA)	55	• Dimensions (mm)	788x366x815
• Rated input current (A)	83	• Insulation class	H
• Work cycle (40°C 10Min)	100% 1000A	• Protection class	IP 23S
• Vacuum voltage (V)	84		
• Welding current range (A)	60~1000		
• Welding voltage range (V)	20~50		



## SUBMERGED ARC GENERATOR 1250A



### WK SAW 1250



#### Welding Equipment Submerged Arc

WK SAW series are highly efficient submerged arc welding equipment with reduced weight and dimensions. They include inverter technology and 100% gear factor.

Digital control of the welding parameters both from the power source and from the module tractor. Possibility of selecting the air arc function.

Equipped with self-diagnosis and communication system between the source and the tractor module. Self-protection systems due to overheating and short circuit.

### Main features

- Short circuit equipment self-protection
- 100% duty cycle
- Digital communication between power supply and tractor module
- Activation of self-controlled cooling
- Self-diagnosis function with on-screen error coding
- Light and compact
- Air arc function
- High welding efficiency and reduced voltage fluctuations

### Technical data

• Model	WK SAW 1250	• Wire diameter (mm)	2.0-6.0
• Power supply voltage (V)	3~380 ±10%	• Net Weight (Kg)	100
• Fre. (HZ)	50/60	• Dimensions (mm)	788x366x846
• Rated input power (KVA)	75.7	• Insulation class	H
• Rated input current (A)	115.0	• Protection class	IP 23S
• Work cycle (40°C 10Min)	100% 1250A		
• Vacuum voltage (V)	92		
• Welding current range (A)	60~1250		
• Welding voltage range (V)	20~50		

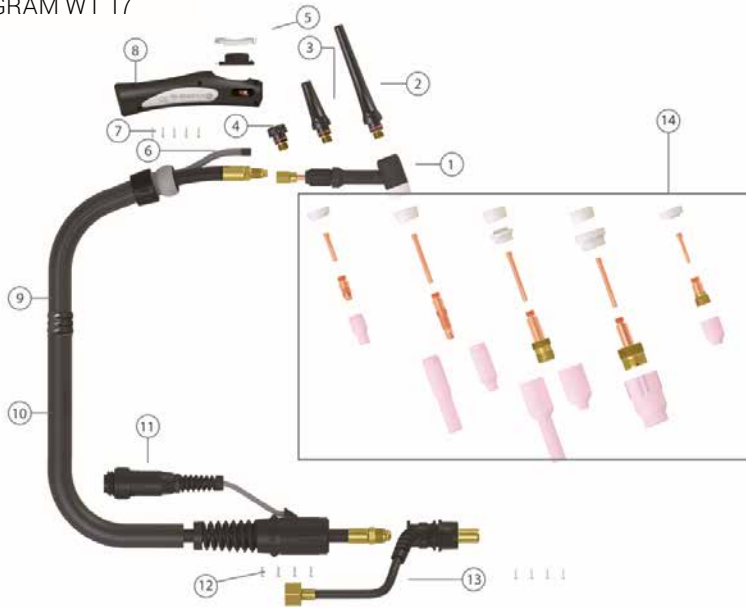




# Torches

# TIG WT 17 TORCH

DIAGRAM WT 17



## WT 17

### Welding torches Tig Torches

The WT series of TIG torches provide excellent welding dynamics as a result of increased cable flexibility and ergonomic grip. There are versions with push button, valve, as well as cooled versions intended for high demand.

### Exploded

- |    |                |    |                             |
|----|----------------|----|-----------------------------|
| 1  | Neck           | 11 | Connection plug             |
| 2  | Long cap       | 12 | Screws                      |
| 3  | Medium cap     | 13 | Gas pipe                    |
| 4  | Short plug     | 14 | See spare parts page. 60-62 |
| 5  | Micro set      |    |                             |
| 6  | Control cable  |    |                             |
| 7  | Screws         |    |                             |
| 8  | Handle         |    |                             |
| 9  | Leather case   |    |                             |
| 10 | Neoprene cover |    |                             |

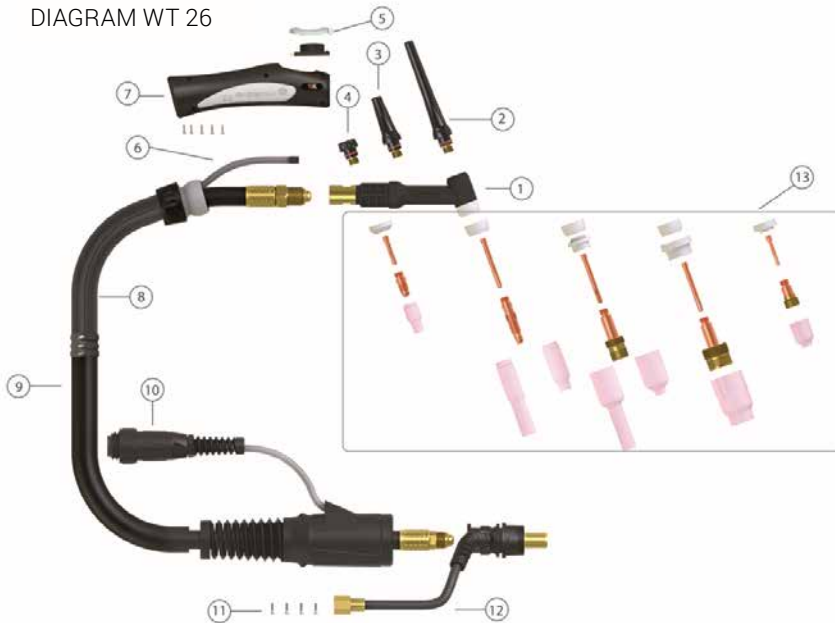
### Main features

- 150A DC
- 105A AC
- 35% Duty cycle
- Ergonomic grip
- 4m and 8m of cable
- Version with WT 17V valve



# TIG WT 26 TORCH

DIAGRAM WT 26



## WT 26

### Welding torches Tig torches

The WT series of TIG torches offer excellent welding dynamics thanks to increased cable flexibility and ergonomic grip. There are versions with push button, valve, as well as cooled versions for highly demanding jobs.

### Exploded

- |    |                 |    |                             |
|----|-----------------|----|-----------------------------|
| 1  | Neck            | 11 | Screws                      |
| 2  | Long cap        | 12 | Gas cable                   |
| 3  | Medium cap      | 13 | See spare parts page. 60-62 |
| 4  | Short plug      |    |                             |
| 5  | Micro set       |    |                             |
| 6  | Control cable   |    |                             |
| 7  | Handle          |    |                             |
| 8  | Leather case    |    |                             |
| 9  | Neoprene cover  |    |                             |
| 10 | Connection plug |    |                             |

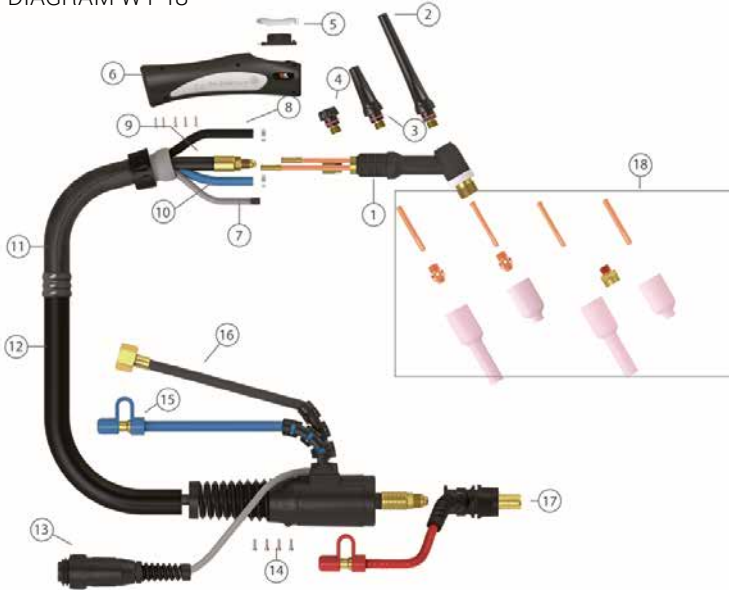
### Main features

- 180A DC
- 125A AC
- 35% Duty cycle
- Ergonomic grip
- 4m and 8m of cable
- Version with WT 26V valve



# REFRIGERATED TIG TORCH WT 18

DIAGRAM WT 18



## WT 18

### Welding torches Cooled Tig torch

The WT series of TIG torches offer excellent welding dynamics thanks to the flexibility of the cable and its ergonomic grip.

There are versions with push button, valve, as well as cooled versions for high demand.

### Exploded

- |    |                     |    |                             |
|----|---------------------|----|-----------------------------|
| 1  | Neck                | 13 | Connection plug             |
| 2  | Long cap            | 14 | Screws                      |
| 3  | Medium cap          | 15 | Water pipe                  |
| 4  | Short plug          | 16 | Gas pipe                    |
| 5  | Micro set           | 17 | Connector                   |
| 6  | Handle              | 18 | See spare parts page. 60-62 |
| 7  | Control cable       |    |                             |
| 8  | Gas pipe            |    |                             |
| 9  | Running water cable |    |                             |
| 10 | Water pipe          |    |                             |
| 11 | Leather case        |    |                             |
| 12 | Neoprene cover      |    |                             |

### Main features

- 380A DC
- 270A AC
- 100% Duty Cycle
- Ergonomic grip
- 4m and 8m of cable



## CONSUMABLES TIG TORCH (WT)

### STANDAR COLLETS

PART. N°	DESCRIPTION	MOUTH
WT 10N22	COLLET 10N22 - 1,0 MM	1.0 MM
WT 10N23	COLLET 10N23 - 1,6 MM	1.6 MM
WT 10N23M	COLLET 10N23M - 2,0 MM	2.0 MM
WT 10N24	COLLET 10N24 - 2,4 MM	2.4 MM
WT 10N25	COLLET 10N25 - 3,2 MM	3.2 MM
WT 54N20	COLLET 54N20 - 4,0 MM	4.0 MM



### SHORT COLLETS

PART. N°	DESCRIPTION	MOUTH
WT 13N21	SHORT COLLET 13N21 - 1.0MM	1.0 MM
WT 13N22	SHORT COLLET 13N22 - 1.6MM	1.6 MM
WT 13N22M	SHORT COLLET 13N22M - 2.0MM	2.0 MM
WT 13N23	SHORT COLLET 13N23 - 2.4MM	2.4 MM
WT 13N24	SHORT COLLET 13N24 - 3.2MM	3.2 MM



### WT DIFFUSER

PART. N°	DESCRIPTION	MOUTH
WT 10N28	DIFFUSER 10N28 - 3.2MM	3.2 MM
WT 10N30	DIFFUSER 10N30 - 1.0MM	1.0 MM
WT 10N31	DIFFUSER 10N31 - 1.6MM	1.6 MM
WT 10N31M	DIFFUSER 10N31M - 2.0MM	2.0 MM
WT 10N32	DIFFUSER 10N32 - 2.4MM	2.4 MM
WT 406488	DIFFUSER 406488 - 4.0MM	4.0 MM



### WT DIFFUSER

PART. N°	DESCRIPTION	MOUTH
WT 13N27	DIFFUSER WT 13N27 1,6MM	1.6MM
WT13N27M	DIFFUSER 13N29 - 3.2MM	2.0MM
WT 13N28	DIFFUSER WT 13N27M 2,0MM	2.4MM
WT 13N29	DIFFUSER WT 13N28 2,4MM	3.2 MM



### GAS LENS WT

PART. N°	DESCRIPTION	MOUTH
WT 45V25	GAS LENS DIFFUSER45V25 - 1.6MM	1.6 MM
WT 45V25M	GAS LENS DIFFUSER 45V25M - 2.0MM	2.0 MM
WT 45V26	GAS LENS DIFFUSER45V26 - 2.4MM	2.4 MM
WT 45V27	GAS LENS DIFFUSER 45V27 - 3.2MM	3.2 MM
WT 45V28	GAS LENS DIFFUSER45V28 - 4.0MM	4.0 MM

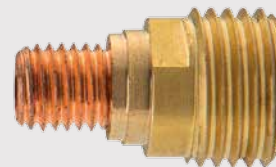




## CONSUMABLES TIG TORCH (WT)

### SHORT GAS LENS DIFFUSER

PART. N°	DESCRIPTION	NUMBER
WT 45V43	SHORT GAS LENS DIFFUSER 45V43 - 1.6MM	1.6 MM
WT 45V43M	SHORT GAS LENS DIFFUSER 45V43M - 2.0MM	2.0 MM
WT 45V44	SHORT GAS LENS DIFFUSER 45V44 - 2.4MM	2.4 MM



### TOBERAS CERÁMICAS WT

PART. N°	DESCRIPTION	MOUTH	NUMBER
WT 10N44	CERAMIC NOZZLE 10N44 N°12 - 19MM	19 MM	12
WT 10N45	CERAMIC NOZZLE 10N45 N°10 - 16MM	16 MM	10
WT 10N46	CERAMIC NOZZLE 10N46 N°8 - 12.5MM	12.5 MM	8
WT 10N47	CERAMIC NOZZLE 10N47 N°7 - 11MM	11 MM	7
WT 10N48	CERAMIC NOZZLE 10N48 N°6 - 10MM	10 MM	6
WT 10N49	CERAMIC NOZZLE 10N49 N°5 - 8MM	8 MM	5
WT 10N50	CERAMIC NOZZLE 10N50 N°4 - 6MM	6 MM	4



### CERAMIC NOZZLE WT

PART. N°	DESCRIPTION	MOUTH	NUMBER
WT 13N08	CERAMIC NOZZLE 13N08 N°4 - 6MM	6 MM	4
WT 13N09	CERAMIC NOZZLE 13N09 N°5 - 8MM	8 MM	5
WT 13N10	CERAMIC NOZZLE 13N10 N°6 - 10MM	10 MM	6
WT 13N11	CERAMIC NOZZLE 13N11 N°7 - 11MM	11 MM	7
WT 13N12	CERAMIC NOZZLE 13N12 N°8 - 12.5MM	12.5 MM	8
WT 13N13	CERAMIC NOZZLE 13N13 N°10 - 16MM	16 MM	10



### EXTRA LARGE CERAMIC NOZZLE WT

PART. N°	DESCRIPTION	MOUTH	NUMBER
WT 10N47L	CERAMIC NOZZLE 10N47L N°7L - 11MM	11 MM	7L
WT 10N48L	CERAMIC NOZZLE 10N48L N°6L - 10MM	10 MM	6L
WT 10N49L	CERAMIC NOZZLE 10N49L N°5L - 8MM	8 MM	5L



### NOZZLE GAS LENS WT

PART. N°	DESCRIPTION	MOUTH	NUMBER
WT 53N58	NOZZLE GAS LENS 53N58 N°4 - 6MM	6 MM	4
WT 53N59	NOZZLE GAS LENS 53N59 N°5 - 8MM	8 MM	5
WT 53N60	NOZZLE GAS LENS 53N60 N°6 - 10MM	10 MM	6
WT 53N61	NOZZLE GAS LENS 53N61 N°7 - 11MM	11 MM	7
WT 53N61S	NOZZLE GAS LENS 53N61S N°8 - 12.5MM	12.5 MM	8





## CONSUMABLES TIG TORCH (WT)

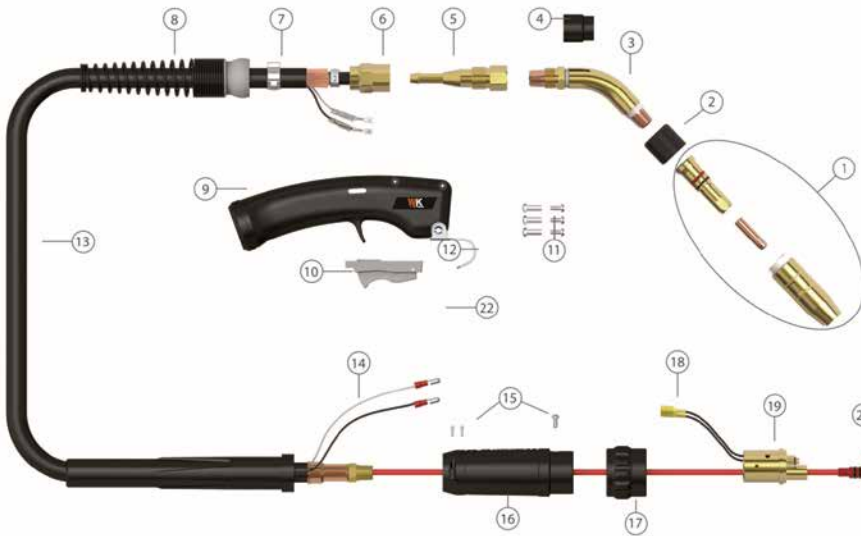
### SHORT NOZZLE GAS LENS WT

PART. N°	DESCRIPTION	MOUTH	NUMBER
WT 54N14	NOZZLE GAS LENS 54N14 N°8 - 12,5MM	12.5 MM	8
WT 54N15	NOZZLE GAS LENS 54N15 N°7 - 11MM	11 MM	7
WT 54N16	NOZZLE GAS LENS 54N16 N°6 - 10MM	10 MM	6
WT 54N17	NOZZLE GAS LENS 54N17 N°5 - 8MM	8 MM	5
WT 54N18	NOZZLE GAS LENS 54N18 N°4 - 6MM	6 MM	4
WT 54N19	NOZZLE GAS LENS 54N19 N°11 - 17MM	17 MM	11



# MIG-MAG WM 300 TORCH

DIAGRAM WM 300



## WM 300

### Welding Torches Mig Torches

The WM series of air cooled MIG MAG torches provide the welder with great versatility and ergonomics.

They are designed to withstand highly demanding work regimes. They have a point of rotation at the base of the grip for increased durability of the torch.

### Exploded

- |    |                             |    |                       |
|----|-----------------------------|----|-----------------------|
| 1  | See spare parts page. 65-67 | 13 | Coaxial cable         |
| 2  | Nozzle insulator            | 14 | Terminal male cable   |
| 3  | Gooseneck                   | 15 | Screws                |
| 4  | Neck insulator              | 16 | Rear body             |
| 5  | Adapter nut                 | 17 | Lock nut              |
| 6  | Nut                         | 18 | Terminal female cable |
| 7  | Clamp                       | 19 | Connection cylinder   |
| 8  | Front spring                | 20 | Towrope               |
| 9  | Handle                      |    |                       |
| 10 | Trigger                     |    |                       |
| 11 | Screws                      |    |                       |
| 12 | Hook                        |    |                       |

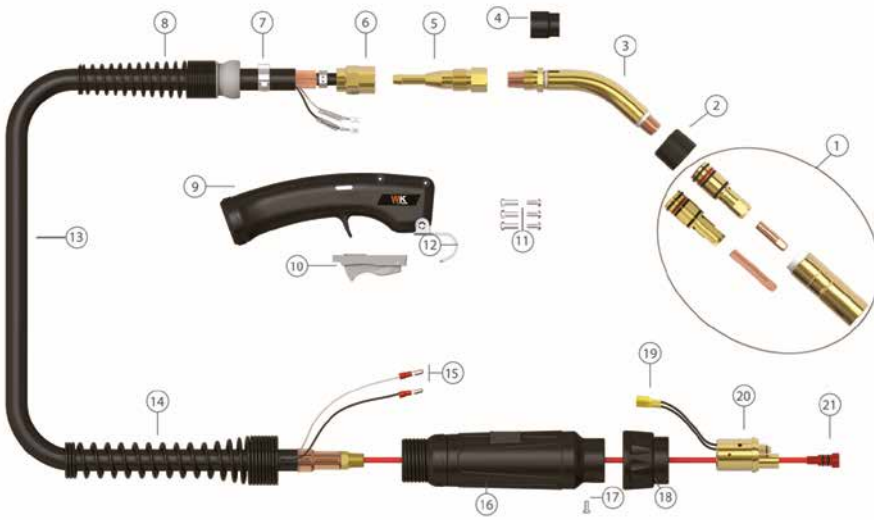
### Main features

- 300A CO2
- 200A Mixed gas
- EN60974-7
- 60% Duty Cycle
- 0.8mm - 1.2mm 500A CO2 wires



# MIG-MAG WM 400 TORCH

DIAGRAM WM 400



## WM 400

### Welding Torches Mig Torches

The WM series of MIG MAG air cooled torches provide the welder with great versatility and ergonomics.

They are designed to withstand highly demanding work regimes. They have a point of rotation at the base of the grip for increased durability of the torch.

### Exploded

- |    |                             |    |                       |
|----|-----------------------------|----|-----------------------|
| 1  | See spare parts page. 65-67 | 13 | Coaxial cable         |
| 2  | Nozzle insulator            | 14 | Rear spring           |
| 3  | Gooseneck                   | 15 | Terminal male cable   |
| 4  | Neck insulator              | 16 | Rear body             |
| 5  | Adapter nut                 | 17 | Screw                 |
| 6  | Nut                         | 18 | Lock nut              |
| 7  | Clamp                       | 19 | Terminal female cable |
| 8  | Front spring                | 20 | Connecting cylinder   |
| 9  | Handle                      | 21 | Towrope               |
| 10 | Trigger                     |    |                       |
| 11 | Screw                       |    |                       |
| 12 | Hook                        |    |                       |

### Main features

- 400A CO2
- 320A Mixed gas
- EN60974-7
- 60% Duty Cycle
- Threads from 0.8mm - 1.6mm



## MIG-MAG TORCH CONSUMABLES (WM)

### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 4492	CONICAL NOZZLE 44492	14.0	2.95 MM	BRASS
WM 4491	CYLINDRICAL NOZZLE 4491	19.0	2.95 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 4295	SUPER CONICAL NOZZLE 4295	9.50	2.85 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 4391	CYLINDRICAL NOZZLE 4391	16.0	2.85 MM	BRASS
WM 4392	CONICAL NOZZLE 4392	12.7	2.85 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 4592	CONICAL NOZZLE HD 4592	14.0	2.95 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 441427	REINFORCED NOZZLE 441427	14.0	2.95 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 4592EC	REINFORCED NOZZLE 4592EC	14.0	2.95 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 350914	REINFORCED NOZZLE 350914	9.0	1.5 MM	BRASS



### WM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WM 451423	REINFORCED NOZZLE 451423	14.0	2.95 MM	BRASS



## MIG-MAG TORCH CONSUMABLES (WM)

### WM 300 DIFFUSERS

PART. N°	DESCRIPTION	MATERIAL
WM 4335	GAS DIFFUSER 4335 (SHORT CONTACT TIP)	BRASS
WM 4235	GAS DIFFUSER 4235 (LONG CONTACT TIP)	BRASS



### WM 400 DIFFUSERS

PART. N°	DESCRIPTION	MATERIAL
WM 4435	GAS DIFFUSER 4435 (SHORT CONTACT TIP)	BRASS
WM 4635	GAS DIFFUSER 4635 (LONG CONTACT TIP)	BRASS



### WM 400 DIFFUSERS

PART. N°	DESCRIPTION	MATERIAL
WM 4835	GAS DIFFUSER 4835 (LONG CONTACT TIP)	BRASS



### WM CONTACT TUBE

PART. N°	DESCRIPTION	MATERIAL	WIRE DIAMETER
WM 1588	CONTACT TUBE 0.8 MM (LARGE) - 1588	ECU	0.8
WM 1590	CONTACT TUBE 1.2 MM (LARGE) - 1590	ECU	1.2
WM 1591	CONTACT TUBE 1,6 MM (LARGE) - 1591	ECU	1.6
WM 1596	CONTACT TUBE 1.0 MM (LARGE) - 1596	ECU	1.0
WM 1598	CONTACT TUBE 1,3 MM (LARGE) - 1598	ECU	1.3



### WM CONTACT TUBE

PART. N°	DESCRIPTION	MATERIAL	WIRE DIAMETER
WM 4280	CONTACT TUBE 1,6 MM - 4280	ECU	1.6
WM 4282	CONTACT TUBE 1,2MM - 4282	ECU	1.2
WM 4283	CONTACT TUBE 1,4 MM - 4283	ECU	1.4



### WM CONTACT TUBE

PART. N°	DESCRIPTION	MATERIAL	WIRE DIAMETER
WM 7488	CONTACT TUBE 0,8 MM (CORTO) - 7488	ECU	0.8
WM 7490	CONTACT TUBE 1,2 MM (CORTO) - 7490	ECU	1.2
WM 7491	CONTACT TUBE 1,6 MM (CORTO) - 7491	ECU	1.6
WM 7496	CONTACT TUBE 1,0 MM (CORTO) - 7496	ECU	1.0
WM 7498	CONTACT TUBE 1,3 MM (CORTO) - 7498	ECU	1.3



## MIG-MAG TORCH CONSUMABLES (WM)

### WM LINERS

PART. N°	DESCRIPTION	LENGTH	WIRE DIAMETER
WM 43115	LINER 0.8MM - 1.2MM - 4,9M - 43115	4.9M	0.8 - 1.2



### SIRGAS WM

PART. N°	DESCRIPTION	LENGTH	WIRE DIAMETER
WM 43215	LINER 1.6MM - POLYAMIDE - 4.9M - 43215	4.9M	1.6



### SIRGAS WM

PART. N°	DESCRIPTION	LENGTH	WIRE DIAMETER
WM 44215	LINER 1.2 MM - 1.6 MM - 4.9M - 44215	4.9M	1.2 - 1.6
WM 44225	LINER 1.2MM - 1.6MM - 8,1M - 44225	8.1M	1.2 - 1.6



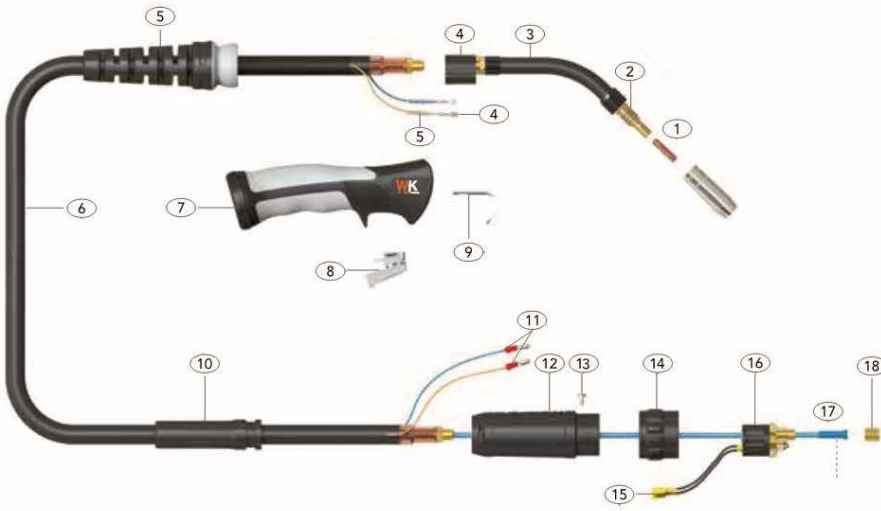
### SIRGAS WM

PART. N°	DESCRIPTION	LENGTH	WIRE DIAMETER
WM 44315	LINER 2.0 MM - 4.9M - 44315	4.9M	2.0



# MIG-MAG WCM 150 TORCH

DIAGRAM WCM 150



## WCM 150

### Welding torches Mig Torches

The WCM series of air cooled MIG MAG torches provide the welder with great versatility and ergonomics.

They are designed to stand highly demanding work regimes. They have a rotation point at the base of the grip for increased durability of the torch.

### Exploded

- |   |                                 |    |                       |
|---|---------------------------------|----|-----------------------|
| 1 | See spare parts on Pages 71-72  | 10 | Rear cable support    |
| 2 | Pier                            | 11 | Male cable terminal   |
| 3 | Swan neck                       | 12 | Rear body             |
| 4 | Support sleeve                  | 13 | Screw                 |
| 5 | Articulated front cable support | 14 | Lock nut              |
| 6 | Coaxial cable                   | 15 | Terminal female cable |
| 7 | Handle                          | 16 | Connecting cylinder   |
| 8 | Trigger                         | 17 | Towrope               |
| 9 | Hook                            | 18 | Towrope nut           |

### Main features

- 150A CO2
- 200A Mixed gas
- EN60974-7
- 60% Duty Cycle
- Threads of 0.8mm - 1.2mm





# MIG-MAG WCM 250 TORCH

DIAGRAM WCM 250



## WCM 250

### Welding torches Mig Torches

The WCM series of MIG MAG air cooled torches provide the welder with great versatility and ergonomics.

They are designed to stand highly demanding work regimes. They have a rotation point at the base of the grip for increased durability of the torch.

### Exploded

1	(See spare parts on page Xxx)	10	Rear cable support
2	Pier	11	Male cable terminal
3	Swan neck	12	Rear body
4	Support sleeve	13	Screw
5	Articulated front cable support	14	Lock nut
6	Coaxial cable	15	Terminal female cable
7	Handle	16	Connecting cylinder
8	Trigger	17	Towrope
9	Hook	18	Towrope nut



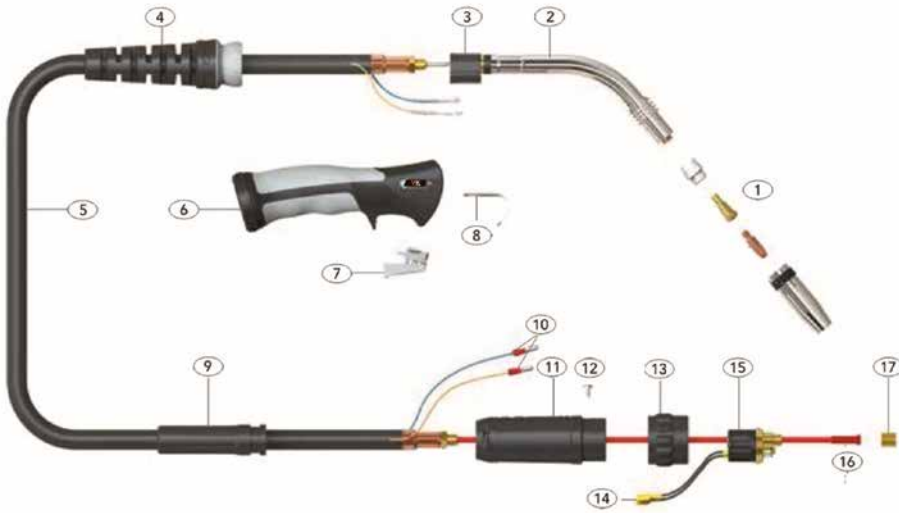
### Main features

- 250A CO2
- 200A Mixed gas
- EN60974-7
- 60% Duty Cycle
- Threads of 0.8mm - 1.2mm



# MIG-MAG WCM 360 TORCH

DIAGRAM WCM 360



## WCM 360

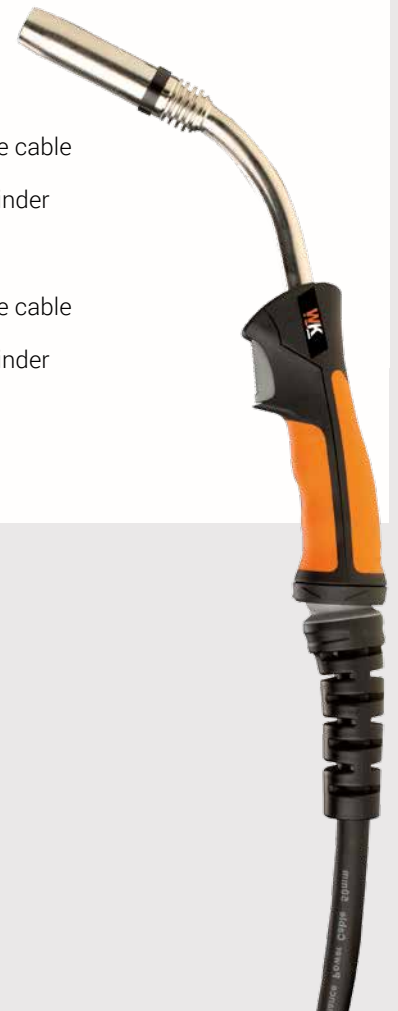
### Welding torches Mig Torch

The WCM series of air cooled MIG MAG torches provide the welder with great versatility and ergonomics.

They are designed to stand highly demanding work regimes. They are equipped with a rotation point at the base of the grip for increased durability of the torch.

### Exploded

- |   |                               |    |                       |
|---|-------------------------------|----|-----------------------|
| 1 | (See spare parts on page Xxx) | 9  | Rear cable support    |
| 2 | Swan neck                     | 10 | Terminal male cable   |
| 3 | Support sleeve                | 11 | Rear body             |
| 4 | Articulated front support     | 12 | Screw                 |
| 5 | Coaxial cable                 | 13 | Lock nut              |
| 6 | Handle                        | 14 | Terminal female cable |
| 7 | Trigger                       | 15 | Connection cylinder   |
| 8 | Hook                          | 13 | Lock nut              |
|   |                               | 14 | Terminal female cable |
|   |                               | 15 | Connection cylinder   |
|   |                               | 16 | Tow rope              |
|   |                               | 17 | Tow rope nut          |



### Main features

- 360A CO2
- 200A Mixed gas
- EN60974-7
- 60% Duty Cycle
- Threads of 0.8mm - 1.2mm



## MIG-MAG 150-250-360 TORCH CONSUMABLES (WCM)

### NOZZLE WCM 150

PART. N°	DESCRIPTION	MOUTH	MATERIAL
WCM 1530	CONICAL NOZZLE	12 MM	COPPER
WCM 1531	SUPERCONICAL NOZZLE	10.5 MM	COPPER



### NOZZLE WCM 250

PART. N°	DESCRIPTION	MOUTH	MATERIAL
WCM 2508	CONICAL NOZZLE	15 MM	COPPER
WCM 2509	SUPERCONICAL NOZZLE	12 MM	COPPER



### NOZZLE WCM 360

PART. N°	DESCRIPTION	MOUTH	MATERIAL
WCM 3616	CONICAL NOZZLE 3616	16 MM	COPPER



### CONTACT TIP WCM 150-250-360

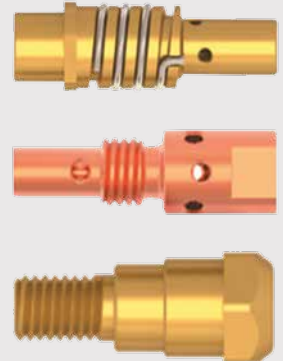
PART. N°	DESCRIPTION	MATERIAL	WIRE DIAM.
WCM 1527-06	CONTACT TIP M6 Ø0,6		0.6
WCM 1527-08	CONTACT TIP M6 Ø0,8		0.8
WCM 1527-10	CONTACT TIP M6 Ø1,0		1.0
WCM 1527-12	CONTACT TIP M6 Ø1,2		1.2
WCM 2505-08	CONTACT TIP M6 Ø0,8	CuCrZr	0.8
WCM 2505-10	CONTACT TIP M6 Ø1,0	CuCrZr	1.0
WCM 2505-12	CONTACT TIP M6 Ø1,2	CuCrZr	1.2
WCM 4015-08	CONTACT TIP M8 Ø0,8	CuCrZr	0.8
WCM 4015-10	CONTACT TIP M8 Ø1,0	CuCrZr	1.0
WCM 4015-12	CONTACT TIP M8 Ø1,2	CuCrZr	1.2
WCM 4015-14	CONTACT TIP M8 Ø1,4	CuCrZr	1.4
WCM 4015-16	CONTACT TIP M8 Ø1,6	CuCrZr	1.6
WCM 4015-10A	CONTACT TIP M8 Ø1,0 AL	CuCrZr	1.0
WCM 4015-12A	CONTACT TIP M8 Ø1,2 AL	CuCrZr	1.2
WCM 4015-16A	CONTACT TIP M8 Ø1,6 AL	CuCrZr	1.6



## MIG-MAG 150-250-360 TORCH CONSUMABLES (WCM)

### TIP ADAPTORS WCM

PART. N°	DESCRIPTION	MATERIAL
WCM 1507 L/H	TIP ADAPTOR WCM 150 M - 6	LATON
WCM 2506	TIP ADAPTOR WCM 250 M - 6	LATON
WCM 2536	TIP ADAPTOR WCM 250 M- 8	LATON
WCM 3614	TIP ADAPTOR WCM 360 M- 8	LATON



### DIFFUSERS WCM

PART. N°	DESCRIPTION	MATERIAL	COLOUR
WCM 3605B	BLACK DIFFUSER 360	DMC3	BLACK
WCM 3605C	CERAMIC DIFUSER WCM 360	CERAMICO	BLACK



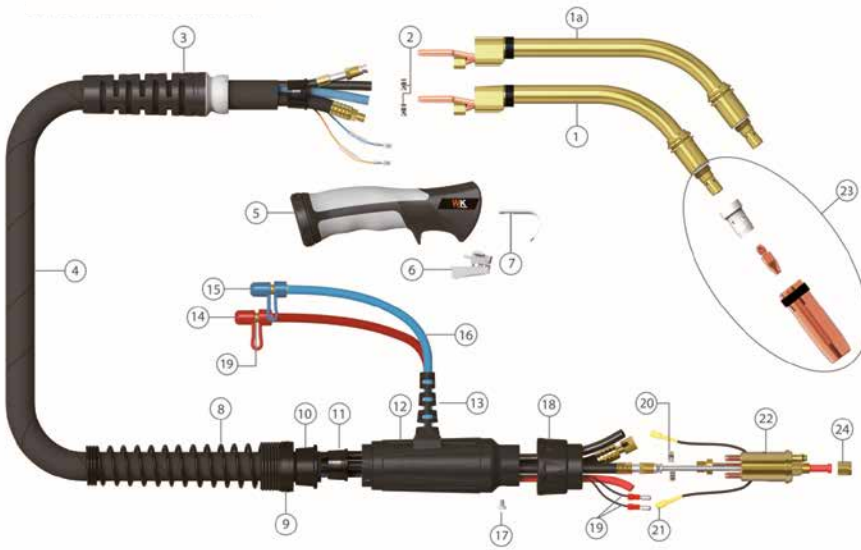
### LINERS WCM

PART. N°	DESCRIPTION	LENGTH	WIRE DIAM.
WCM 1535-40	STEEL LINER 0,6-0,9	4 M	0.6- 0.9
WCM 2524-40	STEEL LINER 1.0-1.2	4 M	1.0 - 1.2
WCM 2524-50	STEEL LINER 1.0-1.2	5 M	1.0 - 1.2
WCM 3631-40	STEEL LINER 1.6	4 M	1.6
WCM 4631-40	STEEL LINER 2.0-2.4	4 M	2.0 - 2.4
WCM 1564-40	POLYAMIDE LINER 0.6 - 0.9	4 M	0.6-0.9
WCM 2564-40	POLYAMIDE LINER 1.0-1.2	4 M	1.0 - 1.2



# REFRIGERATED MIG-MAG TORCH WCM 501

DIAGRAM WCM 501



## WCM 501

### Welding torches Cooled Mig torch

The WCM 501 is a water-cooled torch with 30% reduced weight compared to other similar torches on the market.

Greatly functional and with an ergonomic design, it is the perfect aid for highly demanding jobs.

### Exploded

1	Gooseneck	13	Hose attachment
1st	long gooseneck	14	Red cap
2	8.7mm water hose clamp	15	Blue cap
3	Front bracket	16	Cooling water hose
4	Cable set	17	Screw
5	Handle	18	Lock nut
6	Trigger	19	Male cable terminal
7	Hook	20	Water hose clamp 9.5mm
8	Rear spring	21	Female cable terminal
9	Spring retaining nut	22	Connection cylinder
10	Clamp	23	See spare parts page 74
11	Retainer	24	Cable lock nut
12	Rear body assembly		



### Main features

- 500A CO2
- 450A Mixed Gas
- EN60974-7
- 100% Duty Cycle
- Threads 1.0mm - 1.6mm



## MIG-MAG 501 TORCH CONSUMABLES (WCM)

### WCM NOZZLES

PART. N°	DESCRIPTION	MOUTH	THICKNESS	MATERIAL
WCM 5027	CYLINDRICAL NOZZLE 5027	19.0	2.5 MM	COBRE
WCM 5028	CONICAL NOZZLE 5028	16.0	2.5 MM	COBRE
WCM 5029	SUPERCONICAL NOZZLE 5029	14.0	2.5 MM	COBRE



### WCM CONTACT TUBES

PART. N°	DESCRIPTION	MATERIAL	WIRE DIAMETER
WCM 4015-08	CONTACT TUBE 4015-08	CuCrZr	0.8
WCM 4015-10	CONTACT TUBE 4015-10	CuCrZr	1.0
WCM 4015-12	CONTACT TUBE 4015-12	CuCrZr	1.2
WCM 4015-14	CONTACT TUBE 4015-14	CuCrZr	1.4
WCM 4015-16	CONTACT TUBE 4015-16	CuCrZr	1.6
WCM 4015-10A	CONTACT TUBE 4015-10A	CuCrZr	1.0
WCM 4015-12A	CONTACT TUBE 4015-12A	CuCrZr	1.2



### CONTACT TUBE HOLDER

PART. N°	DESCRIPTION	MATERIAL
WCM 5001	CONTACT TUBE HOLDER 5001	BRASS



### WCM DIFFUSERS

PART. N°	DESCRIPTION	MATERIAL	COLOUR
WCM 5005C	WCM DIFFUSER 5005C	CERAMIC	WHITE
WCM 5005W	WCM DIFFUSER 5005W	DMC3	WHITE



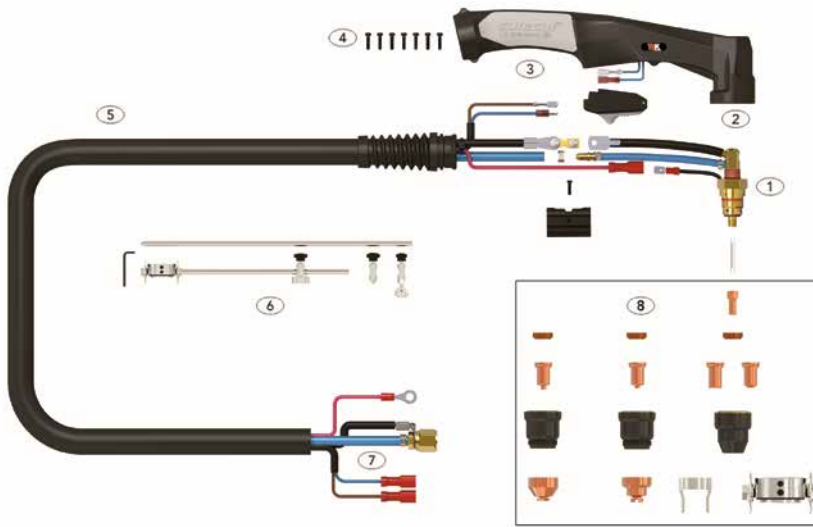
### WCM LINERS

PART. N°	DESCRIPTION	LENGHT	WIRE DIAMETER
WCM 5034-40B	LINER 1.6MM -1.6MM 5034-40B	4.5M	1.6



# PLASMA TORCH PW 80

DIAGRAM PW 80



## PW 80

### Welding torches Plasma torch

The PW series of air cooled PLASMA torches give the operator a high manageability due to its ergonomic and easy design driving. They have a patented safety button to avoid activation by mistake.

### Exploded

- 1 Torch head kit
- 2 Safety button
- 3 Handle
- 4 screws
- 5 Case
- 6 Compass carriage kit
- 7 Cooling tube
- 8 See spare parts on page 76-77

### Main features

- 80A AIR / GAS N2
- EN 60974-7
- 60% Duty Cycle
- 6m cable





## PLASMA TORCH CONSUMABLES (PW)

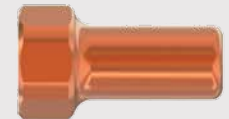
### COOLING TUBE PW

PART. N°	DESCRIPTION
PW 0280	GAS COOLING TUBE



### ELECTRODE PW

PART. N°	DESCRIPTION
PW 0480	PLASMA ELECTRODE



### SWIRL RINGS PW

PART. N°	DESCRIPTION
PW 0680	SWIRL RING



### CUTTING TIPS PW

PART. N°	DESCRIPTION	CUT-OFF AMPS
PW 2080-10	CUTTING TIP PW 2080-10 1,0MM	40-50 AMP
PW 2080-11	CUTTING TIP PW 2080-11 1,1MM	50-60 AMP
PW 2080-12	CUTTING TIP PW 2080-12 1,2MM	60-70 AMP
PW 2080-13	CUTTING TIP PW 2080-13 1,3MM	70-80 AMP



### CONTACT CUTTING TIPS PW

PART. N°	DESCRIPTION	CUT-OFF AMPS
PW 2680-10	CONTACT CUTTING TIP PW 2680-10 1,0MM	40-50 AMP
PW 2680-11	CONTACT CUTTING TIP PW 2680-11 1,1MM	50-60 AMP
PW 2680-12	CONTACT CUTTING TIP PW 2680-12 1,2MM	60-70 AMP
PW 2680-13	CONTACT CUTTING TIP PW 2680-13 1,3MM	70-80 AMP



### GOUGIN TIP PW

PART. N°	DESCRIPTION
PW 2880-16	GOUGING TIP PW 2880-16



### RETAINING CAPS

PART. N°	DESCRIPTION
PW 3080	RETAINING CAP PW 80



### SHIELD CAP BODY

PART. N°	DESCRIPTION
PW 3180	SHIELD CAP BODY PW 80



## PLASMA TORCH CONSUMABLES (PW)

### SHIELD CAP PW

PART. N°	DESCRIPTION
PW 4180	SHIELD CAP PW 80

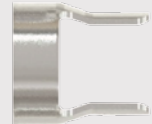


PART. N°	DESCRIPTION
PW 4380	SHIELD CAP GOUGIN PW 80



### STAFF OFF GUIDES PW

PART. N°	DESCRIPTION
PW4080	SPACER PW 4080



### CUTTING BUGGIES PW

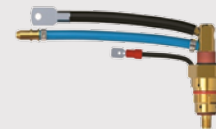
PART. N°	DESCRIPTION
PW 5180	CUTTING BUGGIE PW



PW 5080	COMPAS CAR KIT PW
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PW8001	TORCH HEAD KIT PW
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PW 0280	COOLING TUBE PW
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PW 8014	SAFETY BUTTON PW
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PW 8014	HANDLE PW
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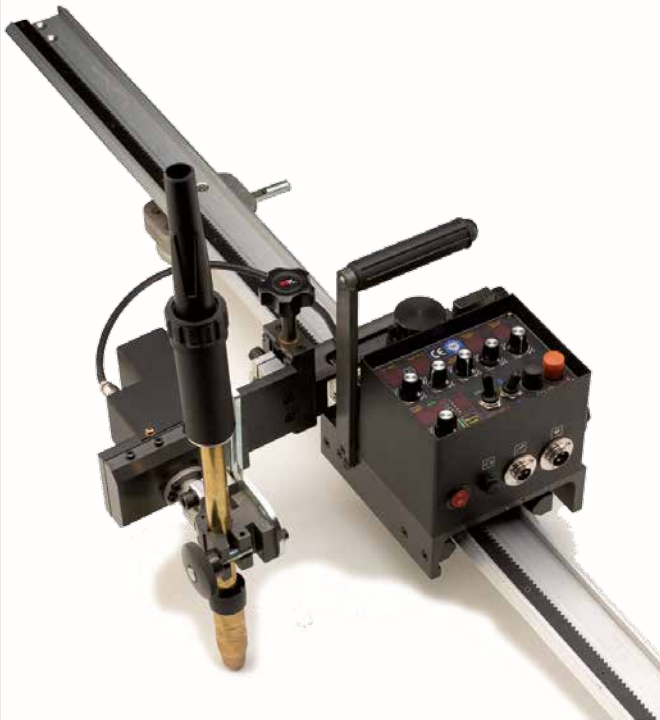






# Automation

## AUTOMATED WELD. RIGID RAIL WITH OSCILLATOR



### WK 100 GRA

#### Welding automatons Guide/rail automatons

The WK 100 GRA is a welding automaton with a rigid aluminium rail and magnet fixing ON / OFF. The automaton has a transversal oscillator with full adjustment of the oscillation parameters (amplitude, speed, type, stop time, etc).

The WK 100 GRA includes optional use of a flexible rack rail that allows adaptation to the contour of the workpiece, instead of the rigid aluminum rail.

### Main features

- Butt or fillet weld for all positions. Equipped with oscillator.
- Rigid aluminum rail and easy control of the equipment by local panel or remote control.
- Limit switches on both sides of the automat to stop the trolley movement and welding.
- Precise control of welding speed.
- Rail with ON / OFF magnets for easy assembly and disassembly.
- Precise oscillation control to achieve constant oscillations, ensuring welding quality.
- Programmable speed in cm / min or inches / min.

### Technical data

• Model	WK 100 GRA	• Oscillation speed	0-5 RPM
• Power	WK 100 GRA	• Stop time in extremes	0.0-9.9 SEG.
• Frequency	50/60 Hz	• Distance for remote control operation	10M
• Dimensions	340 X 209 X 241	• Magnetic fixing of the rail Magnets	ON/OFF
• Weight	6.8 KG	• Rail length	1,5M
• Engine	DC24V, 12W, 5000 RPM	• Rail weight	5.4 KG
• Reducer	1000:1	• Material	AL
• Rack-pinion	Gear shift method		
• Speed	0-88 CM/MIN		
• Amplitude of oscillation	16°		

## AUTOMATED WELD. FLEXIBLE GUIDE WITH OSCILLATOR



### WK 61 GFD

#### Welding automaton Guide/rail automaton

The WK 61 GFD is a digital version of the WK 7 W GFA, it has the same characteristics of the WK 7 W GFA, but is controlled by means of a digital panel which allows a reduction in the size and weight of the automaton.

It has a flexible guide that can be adapted to any contour of the workpiece.

The fixation of this guide is done by magnets with an ON / OFF device which greatly facilitate the work assembly and disassembly of the guides. The automaton has an oscillator with multiple adjustable modes .

### Main features

Butt / fillet weld for curved parts and flexible rail pull with panel and remote control.

Limit switches on both sides of the automat to stop the trolley movement and welding.

Magnetic movement: 4 wheels with flexible guide and minimum curvature of 3 meters in two dimensions and magnets with magnetic on / off release for easy assembly/ disassembly.

Equipped with a motor-reducer that provides constant and precisely adjustable speed to achieve the highest welding quality and useful life.

Precise oscillation control to achieve constant oscillations, maintaining weld quality.

Programmable speed in cm / min or inches / min.

Fully digital control panel.

### Technical data

• Model	WK 61 GFD	• Oscillation speed	0-5 RPM
• Power	AC 100V-230V	• Stop time in extremes	0.0-9.9 SEG.
• Frequency	50/60 Hz	• Distance for remote control operation	10M
• Dimensions	334 X 224 X 273	• Magnetic fixing of the rail Magnets	ON / OFF
• Weight	8.0 KG	• Rail length	1,5M
• Engine	DC24V, 12W, 5000 RPM	• Rail weight	3,4 KG
• Reducer	1000:1	• Material	MC Nylon
• 4-wheel drive method			
• Speed	0-98 CM/MIN		
• Amplitude of oscillation	16°		

## AUTOMATED WELD. FLEXIBLE GUIDE WITH OSCILLATOR



### WK 7W GFA

#### Welding robots Guide / rail robots

For each type of welded joint, WK offers an automated system, and WK 7W GFA is a good example. It is a magnetic automaton with a flexible guide that adapts to any contour of the workpiece.

The fixation of this guide is done by magnets and an ON / OFF device which greatly simplifies assembly and disassembly of the guides.

The automaton has an oscillator with multiple adjustable modes.

### Main features

Butt / fillet weld for curved parts and flexible rail pull with panel and remote control.

Limit switch sensors on both sides of the automat to stop the trolley and workpiece from moving.

Magnetic translation with 4 wheels with flexible guide with a minimum curvature of 3 meters in two dimensions and magnetic release magnets for easy assembly and disassembly.

Equipped with a motor-reducer that provides constant and precisely adjustable speed to achieve highest welding quality and long life.

Precise oscillation control to achieve constant oscillations while maintaining welding quality.

Programmable speed in cm / min or inches / min

### Technical data

• Model	WK 7W GFA	• Oscillation speed	0-5 RPM
• Power	AC 100V-230V	• Stop time in extremes	0.0-9.9 SEG.
• Frequency	50/60 Hz	• Distance for remote control operation	10M
• Dimensions	334 X 224 X 273	• Magnetic fixing of the rail magnets	ON/OFF
• Weight	8.0 KG	• Rail size	1,5M
• Engine	DC24V, 12W, 5000 rpm	• Rail weight	3,4 KG
• Reducer	1000:1	• Material	MC Nylon
• Scroll method	4 Traction wheels		
• Speed	0-98 CM/MIN		
• Oscillation amplitude	16°		



## AUTOMATED CORNER WELD



### WK 71 R12

#### Welding automaton Corner automatons

The WK 71 R12 is a magnetic welding machine for corner and flat welding. Its versatility comes from its small size and light weight. Handling is simple and user-friendly.

### Main features

Fillet welding for both stitching and continuous welding.

Equipped with a motor-reducer that provides constant and precise adjustable speed to achieve the highest welding quality and longer useful life.

It achieves a 75° inclination and has a limit switch on both sides of the trolley.

Fills the crater at the beginning and end of the weld.

The magnet has a magnetic release device that allows for easy assembly and disassembly.

Small size and weight with strong magnets to hold the workpiece.

Stitches, continuous welding and programmable travel speed in cm / min or inches / min.

### Technical data

• Model	WK 71 R12
• Power	AC 110V-230V
• Frequency	50/60Hz
• Dimensions	198X314X281
• Weight	5,6 Kg
• Engine	DC24V 12W 5000RPM
• Reducer	400:1
• 4-wheel drive method	
• Speed	100 – 950 MM/MIN

• Functions	Selection of start stop, speed adjustment, forward direction, torch activation selector.
	Selection of spot or continuous welding.

## CORNER WELD. AUTOMATON



### WK 471 R13

#### Welding automatons Corner automatons

WK 471 R13 is a magnetic corner welding machine. It is compact and lightweight which also allows a total regulation range in the tilt of the torch.

This enables the operator to carry out welding in areas where the access of the torch is more limited due to the fact that virtually any angle can be obtained, as triple regulation is available.

### Main features

Multi-pass welding for greater neck where required.

Equipped with a motor-reducer that provides constant and precisely adjustable speed to achieve top welding quality and long useful life.

Ability to climb slopes of 75°. It has end-of-stroke sensors for the automatic stop of the equipment and torch deactivation.

Fills the crater at the beginning and end of the weld.

Easy activation and deactivation of the magnet.

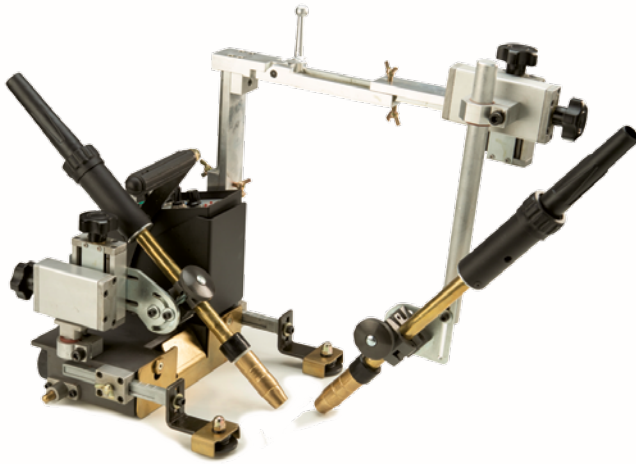
Small size and weight with strong magnets to hold onto the workpiece.

Programmable speed in cm / min or inches / min.

### Technical data

• Model	WK 471 R13	• Traction power	20 KGS
• Power	AC 100V-230V	• Inclination angle	0-75°
• Frequency	50/60 Hz		
• Dimensions	323 X 360-399 X 269		
• Weight	6.2 KG		
• Engine	DC24V, 12W, 5000 RPM		
• 4-wheel drive method			
• Speed	0-98 CM/MIN		

## AUTOMATED WELD. CORNER DOUBLE TORCH



### WK 51B R22V

#### Welding automatons Corner automaton

The WK 51B R22V is an automaton designed for corner welding both sides simultaneously. It incorporates a support arm of the second torch that can be adjusted in height and width which allows adaptation to several reinforcement measures in a simple way.

### Main features

Fillet welding on both sides simultaneously.

Spot or continuous welding.

Precise control of welding speed.

Ability to climb slopes of 50°. It has end-of-stroke sensors for the automatic stop of the equipment and torch deactivation.

Fills the crater at the beginning and end of the Weld.

Easy activation and deactivation of the magnet.

Programmable speed in cm / min or inches / min.

### Technical data

• Model	WK 51B R22V	• Traction power	25 KGS
• Power	AC 100V-230V	• Inclination angle	50°
• Frequency	50/60 Hz	• Magnet power	30 KGS
• Dimensions	359 X 437-585 X 544		
• Weight	10.5 KG		
• Engine	DC24V, 12W, 5000 RPM		
• Reducer	1000:1		
• 4-wheel drive method			
• Speed	0-98 CM/MIN		

## AUTOMATED WELD. CORNER DOUBLE TORCH TANDEM



### WK 31 R22P

#### Welding automatons Corner automaton

When cornering multi-pass is required, the WK 31 R22P is the best option since it has a double tandem torch that makes it possible to give two beads on one side of the reinforcement simultaneously.

### Main features

Indicated for welding where large necks are required when welding with two torches simultaneously in tandem mode

It has end-of-stroke sensors for the automatic stop of the equipment and torch deactivation

Adjustable distance between torches

Precise control of welding speed

Easy activation and deactivation of the magnet

Programmable speed in cm / min or inches / min

### Technical data

• Model	WK 31 R22P	• Traction power	25 KGS
• Power	AC 100V-230V	• Inclination angle	50°
• Frequency	50/60 Hz	• Magnet power	30KGS
• Dimensions	359 x 437-585 x 544		
• Weight	10.5 KG		
• Engine	DC24V, 12W, 5000 RPM		
• Reducer	1000:1		
• Drive method	4 wheel		
• Speed	0-98 CM/MIN		

## AUTOMATED WELD CORNER WITH OSCILLATOR



### WK B71W R120B

#### Welding automaton Vertical automaton

It is a magnetic automaton for welding in corner and monitoring by probes.

The WK B71W R120B It has a pendulum oscillator with multiple modes of regulation for perfect welding control. At WK B71W R120B stop times can be set in extremes, oscillation speeds, oscillation types, amplitude, etc.

The WK B71W R120B has battery power rechargeable with an autonomy of 8h which eliminates the need of power cables in the work area.

### Main features

Automaton for welding with oscillation controlled by local panel or remote control.

Oscillation controls can be adjusted for perfect weld bead quality.

It has end-of-stroke sensors for the automatic stop of the equipment and deactivation of the torch.

Easy activation and deactivation of the magnet.

Programmable speed in cm / min or inches / min.

Accepts both straight and curved neck torch..

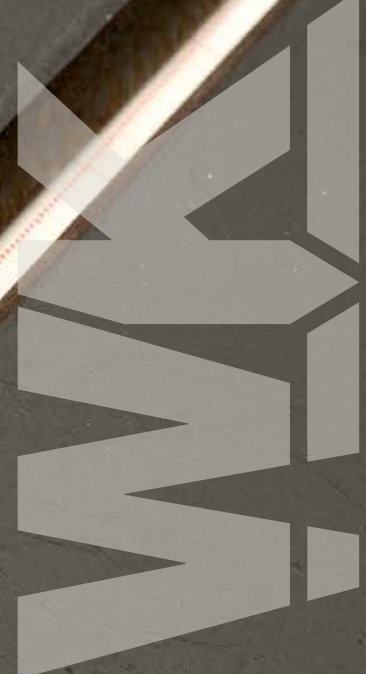
WK B71W R120 cable powered version available

### Technical data

• Model	WK B71W R120B
• Power	AC 100V-230V
• Frequency	50/60 Hz
• Dimensions	298 X 316 X 283
• Weight	6.5 KG
• Engine	DC24V, 12W, 5000 RPM
• Reducer	1000:1
• Displacement method	4 tractor wheels
• Speed	0-88 CM/MIN
• Amplitude of oscillation	16°

• Oscillation speed	0-5 RPM
• Time stopped at extremes	0.0-9.9 SEG.
• Distance for operation with remote control	10M





# Ceramic Backing



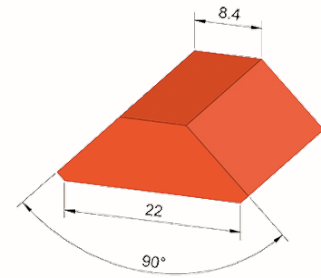
## CERAMIC BACKING

WK offers a wide range of ceramic supports for quick and easy application with self-adhesive aluminum strip. Ceramic CBW supports facilitate and secure the root pass which is a critical part of the welding process. Given their high refractory power, higher welding currents can be used and they are prepared to offer high quality welding without porosity and without alterations in the chemical composition of the bead.

### BACKING CBW 1045/45

#### MAIN FEATURES

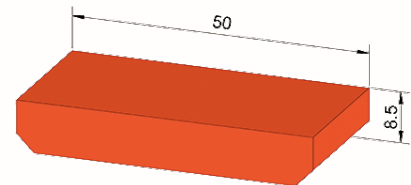
Length / Piece (mm)	600
No. Pieces / Bag	10
No. Pieces / Box	60
Total length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100



### BACKING CBW 1050/50

#### MAIN FEATURES

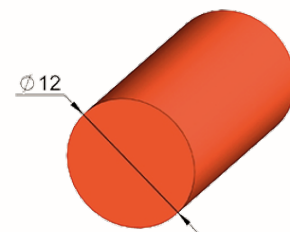
Length / Piece (mm)	600
No. Pieces / Bag	10
No. Pieces / Box	40
Total length / Box (m)	24
Weight / Box (Kg)	23.5
Dimensions Box (mm)	630X240X100



### BACKING CBW 1100/12

#### MAIN FEATURES

Length / Piece (mm)	600
No. Pieces / Bag	20
No. Pieces / Box	100
Total length / Box (m)	60
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X11

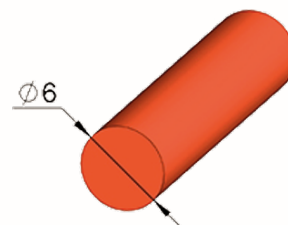


## CERAMIC BACKING

### BACKING CBW 1100/06

#### MAIN FEATURES

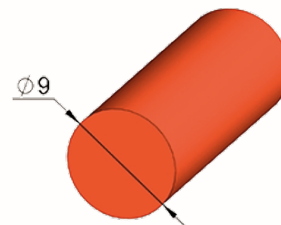
Length / Piece (mm)	600
No. Pieces / Bag	50
No. Pieces / Box	250
Total length / Box (m)	150
Weight / Box (Kg)	13
Dimensions Box (mm)	630X240X110



### BACKING CBW 1100/09

#### MAIN FEATURES

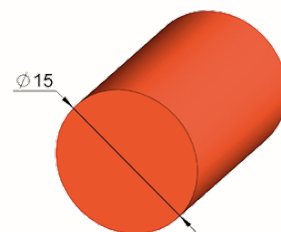
Length / Piece (mm)	600
No. Pieces / Bag	20
No. Pieces / Box	140
Total length / Box (m)	84
Weight / Box (Kg)	15
Dimensions Box (mm)	630X240X110



### BACKING CBW 1100/15

#### MAIN FEATURES

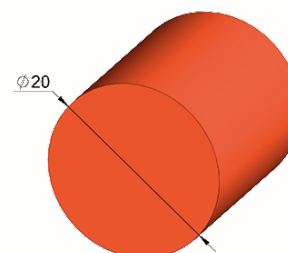
Length / Piece (mm)	600
No. Pieces / Bag	15
No. Pieces / Box	75
Total length / Box (m)	45
Weight / Box (Kg)	17
Dimensions Box (mm)	630X240X110



### BACKING CBW 1100/20

#### MAIN FEATURES

Length / Piece (mm)	600
No. Pieces / Bag	10
No. Pieces / Box	30
Total length / Box (m)	18
Weight / Box (Kg)	12
Dimensions Box (mm)	630X180X100

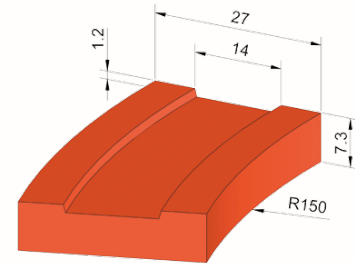


## CERAMIC BACKING

### BACKING CBW R150

#### MAIN FEATURES

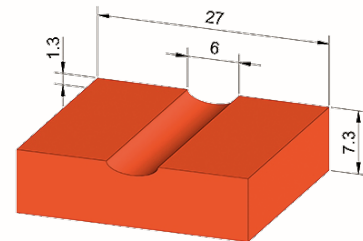
No. Pieces / Bag	4
No. Bags / Box	18
No. Pieces / Box	72
Weight / Box (Kg)	9
Dimensions Box (mm)	630X240X100



### BACKING CBW 1500/06

#### MAIN FEATURES

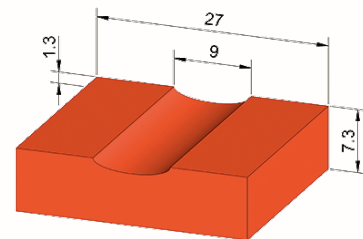
Length / Piece (mm)	600
No. Pieces / Bag	10
No. Pieces / Box	60
Total length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100



### BACKING CBW 1500/09

#### MAIN FEATURES

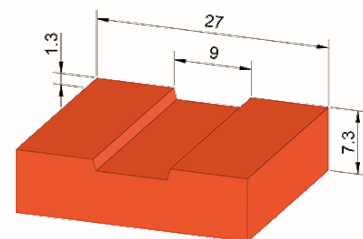
Length / Piece (mm)	600
No. Pieces / Bag	10
No. Pieces / Box	60
Total length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100



### BACKING CBW 1500/09F

#### MAIN FEATURES

Length / Piece (mm)	600
No. Pieces / Bag	10
No. Pieces / Box	60
Total length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100

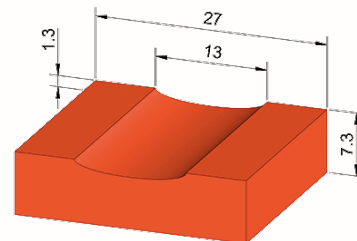


## CERAMIC BACKING

### BACKING CBW 1500/13

#### MAIN FEATURES

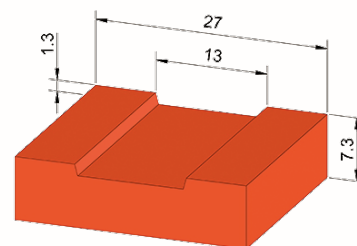
Length / Piece (mm)	600
N° Pieces / Bag	10
No. Pieces / Box	60
Total Length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100



### BACKING CBW 1500/13F

#### MAIN FEATURES

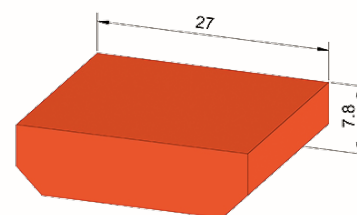
Length / Piece (mm)	600
N° Pieces / Bag	10
No. Pieces / Box	60
Total Length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100



### BACKING CBW 1500/27

#### MAIN FEATURES

Length / Piece (mm)	600
N° Pieces / Bag	10
No. Pieces / Box	60
Total Length / Box (m)	36
Weight / Box (Kg)	16
Dimensions Box (mm)	630X240X100







# Protection Equipment

## VEKTOR R60 AUTOMATIC WELDING SCREEN



### VEKTOR R60

#### Protection Welding screen

Vektor R60 automatic filter screen uses the latest auto-darkening filter technology (ADF). With 4 arc sensors and a 100x60 display, it provides the welder with an optimal viewing area.

### Main features

- Optimal viewing area for the welder 100x60 (3.94" x 2.36")
- 4 independent arc sensors to provide instant detection of the welding arc
- Weld / Cut / Rough mode selection function
- Exceptional low amperage performance in TIG welding
- Solar panel powered and replaceable lithium batteries
- Two ranges of hue selection: DIN 5-8 / 9-13
- EN379 1 / 1 / 1 / 2
- Manufactured in accordance with CE EN175



## INFINITY V98 AUTOMATIC WELDING SCREEN



### INFINITY V98

#### Protection Welding screen

The Infinity V98 automatic filter display uses the new auto-darkening filter technology (ADF 9100) True Color, which provides the welder with a vision of the actual color of the items. With 4 arc sensors and a 100x90 screen provides the welder with an optimal vision area.

### Main features

Optimal viewing area for the welder 100x90 (3.94" x 3.54")

True Color vision of elements.

4 independent arc sensors to provide instant detection of the welding arc

Weld / Cut / Rough mode selection function

Exceptional low amperage performance in TIG welding

Solar panel powered and replaceable lithium batteries

Two shade selection ranges: DIN 5-8 / 9-13

EN379 1 / 1 / 1 / 2

Manufactured in accordance with CE EN175







# Welding Consumables

**SOLID WIRE SFA1**



**SFA 1**

**Welding wire  
Solid Wire**

SFA 1 is a solid butt welding wire and fillet in shipbuilding, bridges, steel structural, structures, machinery and vehicles.

Can be used with CO2 or mixed gases Ar + CO2 and supports a wide range amperages.

Low level of projections.

**Classification**

EN ISO 14341-A: 2008	G42 2 C1 G3Si1
	G42 2 M21 G3Si1
AWS 5.18	ER70S-6

**Polarity and Gas Protection**

CO2	100% CO2
MIX	AR + 20% CO2
DCEP	(DC+)

**Weld metal chemical composition**

C	0,07
Mn	1,48
Si	0,87
P	0,013
S	0,009

**Weld Metal Mecanical Propierties**

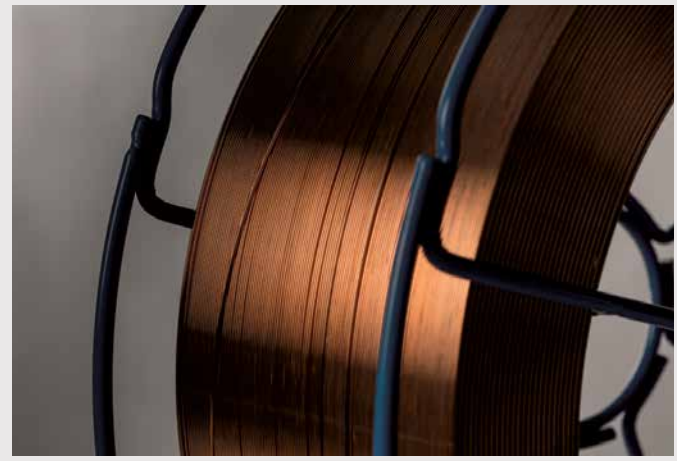
AWS 5.18	
Y.P. (Mpa)	>=420
T.S. (Mpa)	>=500
EL (%)	>22
Impact Value	>=27
Impact Temperature	-30

**Applications**

Suitable for steel construction and machinery production.  
Welding of ships, boliers and pipes.

**Diameters**

0,8mm	1,0mm	1,2mm
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## SOLID WIRE SFA 100



### SFA 100

#### Welding wire Solid Wire

Is a low alloy, copper clad wire for (MIG/MAG) GMAW welding of high mechanical strength steels that require tough weld metal for critical applications.

It is also suitable for welding steels that require high impact resistance at low temperatures. The SFA -100 normally uses M21-M33 mixed gas and CO<sub>2</sub> as shielding gas.

#### Classification

EN ISO 16834-A	G 69 4 M21 Mn3Ni1CrMo
AWS SFA 5.28	ER100S-G

#### Polarity and Gas Protection

CO <sub>2</sub>	100% CO <sub>2</sub>
MIX	AR + 20% CO <sub>2</sub>
DCEP	(DC+)

#### Weld metal chemical composition

C	0,07
Mn	1,4
Si	0,8
P	<0,020
S	<0,020
Ni	0,5
Cr	0,6
Mo	0,25

#### Weld Metal Mechanical Properties

AWS SFA 5,28	
Y.P. (Mpa)	>=550
T.S. (Mpa)	>=700
A%5d	20
KV (J) -50°C	>=50

#### Applications

T 1, UH 90, ASA 75T, Asera 60N, StE 460, Weldox 500, Weldox 700, etc.

#### Diameters

1,0mm	1,2mm	1,6mm
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## FLUX CORED WIRE SFA T-50



### SFA T-50

#### Welding Wire Flux cored wire

SFA T-50 is a cored wire designed for welding in all position in single pass and multi-pass.

Use CO2 or mixed gas 20% - 25% CO2 + Ar as shielding gases. Excellent weldability, stable arc and low level of projections.

Good appearance of the weld. Easy slag removal. Lower levels of smoke compared to solid wire.

High level of efficiency and productivity due to the high rate of deposition.

#### Classification

EN ISO 17632-A	T 46 2 P M21 1 H10
	T 46 2 P C1 1 H5
AWS 5.36	E71T1-C1 [M21] A2-CS1-H8
AWS 5.20	A5.20 E71T-9C/9M

#### Polarity and Gas protection

CO2	100% CO2
MIX	AR + 20% CO2
DCEP	(DC+)

#### Weld metal chemical composition

	CO2	MIX GAS
C	0,04	0,05
Mn	1,2	1,45
Si	0,45	0,55
P	0,01	0,015
S	0,01	0,01

#### Weld Metal Mecanical Propierties

	CO2	MIX GAS
Y.P. (N/mm2)	461	486
T.S. (N/mm2)	544	567
EL (%)	30,6	32,9
IV (J) -20°C	101	84
IV (J) -30°C	78	60

#### Applications

Suitable for fillet and butt welding on mild steel and in structural steel of high resistance of (490 mpa).Used in the shipbuilding industry, bridges, metal structure, storage tanks and industrial machinery.

#### Diameters

1,2mm	1,4mm	1,6mm
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[www.wkwelding.com](http://www.wkwelding.com)  
[info@wkwelding.com](mailto:info@wkwelding.com)