

GPS 4000 DR Advanced

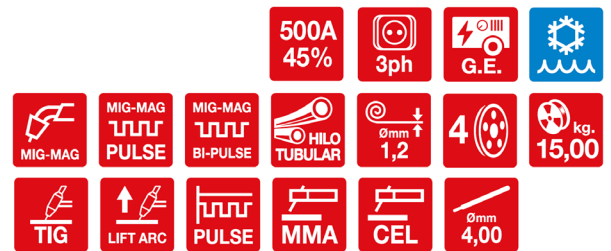
Compact industrial synergic equipment for pulse MIG welding



Ref.: 42381200

Code: FT42381200

Date: 20-10- 2022 V1



Description:

Modular multiprocess package for industrial application with inverter technology; Multiprocess. Semi-automatic MIG/MAG welding with synergic pulse control, MMA and TIG electrode.

Use:

Industrial use, multi-process equipment for manual application. Ideal for MIG/MAG welding of mild steels, stainless steels and aluminium. Excellent welding dynamics. Synergic control, wide range of programmes for MIG/MAG welding.

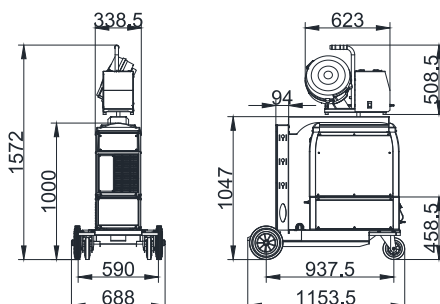
Power supply:

3 Ph. 400 V-50/60 Hz ± 15%.

Main advantages:

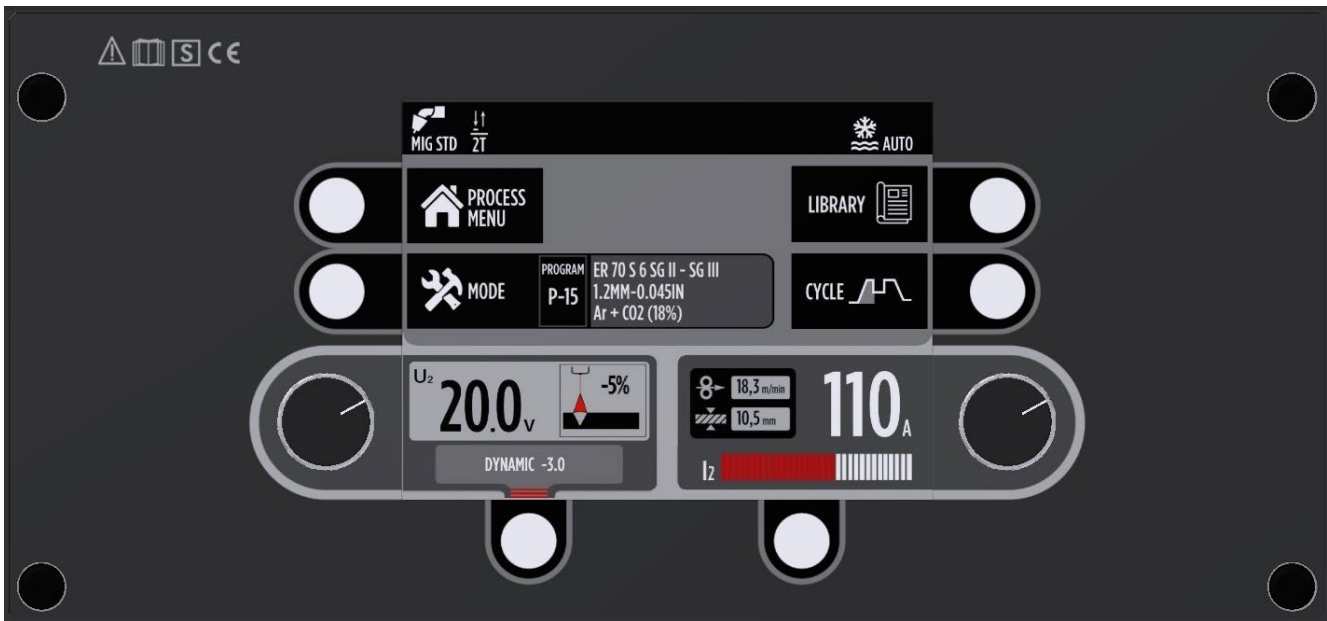
- TFT screen
- 105 MIG ARCO STD programmes
- Manual mode
- Advanced cycle control mode
- Access restrictions (SECURITY LEVELS)
- Languages available: Spanish, English, French, German, Italian and French.

TECHNICAL CHARACTERISTICS	GPS 5000 DR Advanced	
Reference	42381200	42355200
Input voltage U ₁ (3 Ph; 50/60hz)	400 V	440V
Maximum primary intensity I _{1max}	35 A	
Effective primary intensity I _{1eff}	22 A	
Maximum/Effective Power	24/15 KVA	
MIG/MAG control range I -I _{2min2max}	30 ÷ 400 A / 45%	
MIG/MAG welding intensity ED=100%.	270 A / 100%	
Welding voltage regulation U -U _{2min2max}	12 ÷ 34 V	
Continuous regulation range MMA I -I _{2min2max}	30 ÷ 400 A	
Continuous regulation range TIG I -I _{2min2max}	5 ÷ 400 A	
Mechanical protection rating (IP)	IP 23 S	
Ventilation	Forced	
WIDTH x HEIGHT x LENGTH (mm)	345x541x660	
Weight	45 kg	
Power supply efficiency	87%	
Maximum standby power consumption	<50 W	
ACCORDING TO UNE-EN 60974 STANDARDS.		



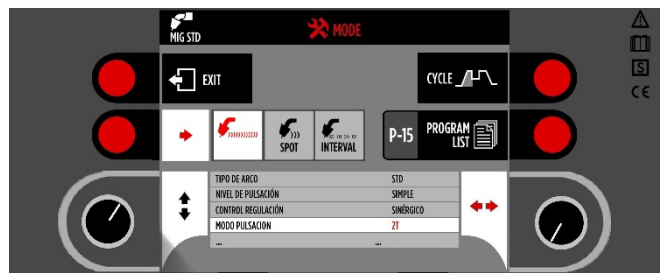
GALA GAR		CE		GALAGAR S.L. CIF B- 50/045285 50.014 ZARAGOZA - SPAIN	
TYP: GPS 4000 DR ADVANCED					
REF: 423.81.200					
UNE-EN 60974-1					
S	30A / 14 V -400 A / 34 V	X	45 %	60 %	100 %
			U ₀ 12-34 V	I ₂ 400A 350 A 270 A	U ₂ 34 V 31.5 V 27.5V
3~50/60 Hz		U ₁ 400V	I _{1max} =32 A	I _{1eff} =22 A	
S	30A(5A TIG)/21.2V - 400A/36 V	X	40 %	60 %	100 %
			U ₀ 58 v	I ₂ 400A 350 A 270 A	U ₂ 36 V 34 V 30.8 V
3~50/60 Hz		U ₁ 400 V	I _{1max} =35 A	I _{1eff} =22 A	
FRONT:					IP 23 S
DSP:					
MOTOR:					

TFT CONTROL PANEL

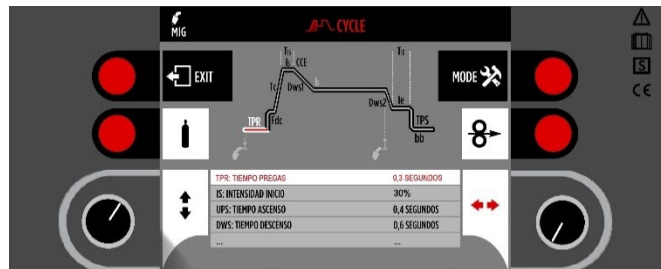


MODE OF OPERATION

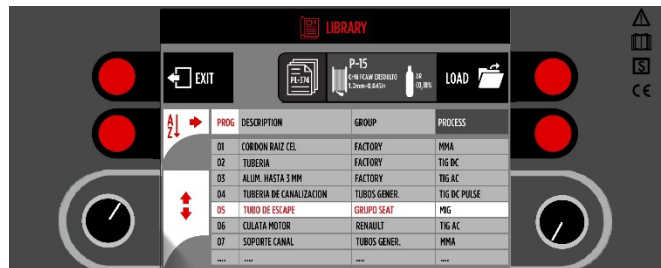
STD - PULSE - SCA - MIXED
 SINGLE ARC - DOUBLE ARC
 SYNERGIC MODE - MANUAL MODE



CYCLE PARAMETERS



PROGRAMME LIBRARY



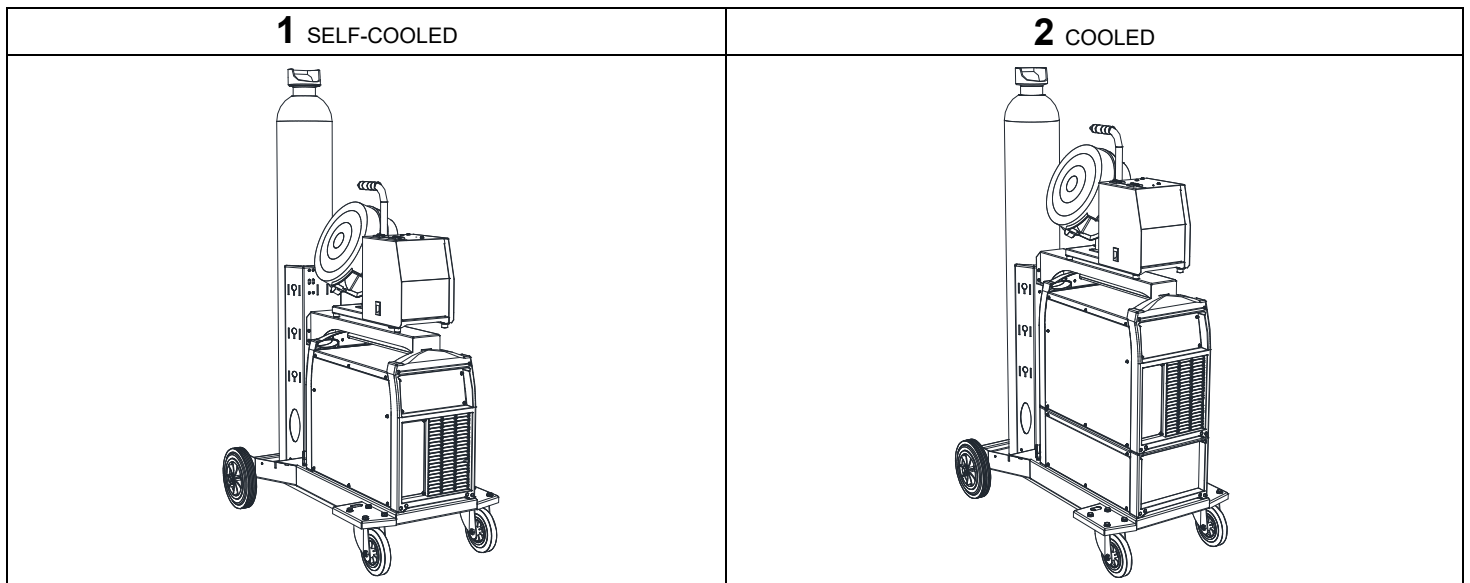
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Compact industrial synergic equipment for Pulse MIG welding

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WELDING

MODULAR PACKAGE - OPTIONAL ITEMS



Reference	Description	1	2
42381200	GPS 4000 DR (400 V - 50/60Hz)	•	•
42355200	GPS 4000 DR (440 V - 50/60Hz)	•	•
64184000	Transport trolley	•	•
65982000	Cooling module WCS 520 (230/400/440V)		•
64185101	Winding support	•	•
64187100	Uncooled cable set 5mts	•	
64187150	Cable set Refrigerated 5mts		•
66082100	Winder D-GPS 21 A N.M. (Open with roll cover)	•	•
66083000	D-GPS Blind winder (without wheels)		Optional
66012080	Kit Transport wheels for winder (D-GPS Blind)		Optional
66081100	D-GPS 5 K N.M. Winder (5 kg for shipyards)		Optional
42370012	Standard double arc By-Level package		Optional
42370010	Pulsed arc package		Optional
42370011	Double arc pulsed By-Pulse package		Optional
42370015	Customised welding programme creation package		Optional
42370020	Gala Tig Pulse package. TIG pulsed arc		Optional
66790000	TCW, TIG welding package with cold wire input		Optional
42370xxx	Special bows package		Optional
42612081	TELENET / INTERFACE connection KIT		Optional
66012085	Remote control (requires Telenet KIT)		Optional
42612090	KIT for PC connection to TELENET (Backup)		Optional

Mode	Description	5 mt	10 mt	15 mt
Refrigerated	WCS cooling module	65982000	65982000	65982000
	Cable set (cooled)	64187150 50 mm2	64187250 70 mm2	64187350 70 mm2
Auto refrigerated	Cable set	64187100 50 mm2	64187200 70 mm2	64187300 70 mm2

MATERIALS INCLUDED AS STANDARD:

REFERENCE	DESCRIPTION	REFERENCE	DESCRIPTION
426.17.047	Instruction Manual	423.16.122	Roulette Ø37, 1.0-1.2 mm "V"
439.12.063	Earth cable	423.12.030	Machine-gas connection (2 m) / fitting

RECOMMENDED ACCESSORIES

Reference	Description	MIG/MAG						MMA	TIG	
		Fe (Steel)	AL (Press)	SS (Inox. Pulse)	CuSi (Galvaniz.)	CuAL8 Galvaz.)	FCAW (Gas Fired)	FCAW (non-carbonated)		ø 2.0 - 2,4 mm
880036P	MIG 36 M8 hand torch (4 m. gas)	•			•		•	•		
880501P	MIG 501 M8 hand torch (4 m refrigerated)	•	•	•	•	•	•			
R98130022	Collaborative Robot Flare 42G-22° Gas eBASIC	•			•		•			
R98130045	Collaborative Robot Flare 42G-45° Gas eBASIC	•			•		•			
R99130022	Collaborative Robot Torch 52W-22° Refrig. eBASIC	•	•	•	•	•	•			
R99130045	Collaborative Robot Torch 52W-45° Refrig. eBASIC	•	•	•	•	•	•			
42316121	Roulette Ø37, 0.8-1.0 mm "V"	•		•	•	□				
42316122 (*)	Roulette Ø37, 1.0-1.2 mm "V"	•		•	•	□				
42316124	Roulette Ø37, 1.2-1.6 mm "V"	•		•	•	□				
42316125	Roulette Ø37, 0.9-1.2 mm "R" (TUBULAR)						•	•		
42316126	Roulette Ø37, 1.2-1.6 mm "R" (TUBULAR)						•	•		
42316127	Roulette Ø37, 1.0-1.2 mm "ALU".		•				•			
42316128	Roulette Ø37, 1.2-1.6 mm "ALU".		•				•			
42316227	ALU ROLLERS KIT, 1.0-1.2 mm "ALU".		•							
5722	Graphite towline (PK 550)		•	□		•				
30144000V	PROFESSIONAL Display	•	•	•	•	•	•	•	•	•
T264030	SR26 EURO 4 m torch								•	
T184030	Flare SR18 EURO 4 m Refrig.									•
37600000	Argon pressure reducer EN 2000	•	•	•	•	•	•		•	•
37900000	Argon Free Gas Pressure Reducer	•	•	•	•	•	•		•	•
600000	CO2 gas heater	•								
8044166-NT	Tungsten sharpener								•	•
259064	Acrylic cable with clamp 50 mm ² ; 4 mt; 500 A								•	
43912063 (*)	Earth cable 50 mm ² ; 4 mt; 400 A								•	
1704V10	TRC V10 cooker. With thermometer and thermostat								•	

(*) Included as standard; • Recommended use; □ Possible use

SOFTWARE PACKAGES FOR WELDING APPLICATIONS

Reference	Description	MIG/MAG						MMA	TIG	
		Fe (Steel)	AL (Press)	SS (Inox. Pulse)	CuSi (Galvaniz.)	CuAL8 Galvaz.)	FCAW (Gas Fired)	FCAW (non-carbonated)		ø 2.0 - 2,4 mm
42370012	Standard double arc By-Level package	•			•	•				
42370010	Pulsed arc package	•	•	•	•	•				
42370011	Double arc pulsed By-Pulse package		•	•	•	•				
42370020	Gala Tig Pulse package. TIG pulsed arc								•	•
66790000	TCW, TIG welding package with cold wire input								•	•
42370100	SCA special bow package	•		•	•					
42370095	Special ROOT arc package	•		•	•					
42370055	SEED UP special bow package	•	•	•						
42370057	SPEED UP+ special bow package	•								
42370050	WELD SPEED special bow package	•	•	•						
42370060	WELD POWER special bow package	•		•						
42370065	CEILING special bow package	•	•	•						

(*) Included as standard; • Recommended use; □ Possible use

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WELDING

PROGRAM												
Nº	MATERIAL	GAS	Ø	STD	PUL SE	SCA	ROOT	SPEED UP	SPEED UP +	WELD SPEED	WELD POWER	CEILIN
#	Fe ER70-S6	Ar+CO ₂ 18%	0,8mm-0,030in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
#	Fe ER70-S6	Ar+CO ₂ 18%	0,035in		<input checked="" type="checkbox"/>							
#	Fe ER70-S6	Ar+CO ₂ 18%	1,0mm		<input checked="" type="checkbox"/>							
#	Fe ER70-S6	Ar+CO ₂ 18%	1,2mm-0,045in		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
#	Fe ER70-S6	Ar+CO ₂ 18%	1,6mm-0,062in		<input checked="" type="checkbox"/>							
#	Fe ER70-S6	CO ₂	0,8mm-0,030in		<input checked="" type="checkbox"/>							
#	Fe ER70-S6	CO ₂	0,035in		<input checked="" type="checkbox"/>							
#	Fe ER70-S6	CO ₂	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
#	Fe ER70-S6	CO ₂	1,2mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	CrNi ER309L	Ar+CO ₂ 2%	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
#	CrNi ER308L	Ar+CO ₂ 2%	0,8mm-0,030in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	CrNi ER308L	Ar+CO ₂ 2%	0,035in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	CrNi ER308L	Ar+CO ₂ 2%	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	CrNi ER308L	Ar+CO ₂ 2%	1,2mm-0,045in									
#	CrNi ER308L	Ar+O ₂ 2%	0,8mm-0,030in	<input checked="" type="checkbox"/>								
#	CrNi ER308L	Ar+O ₂ 2%	0,035in	<input checked="" type="checkbox"/>								
#	CrNi ER308L	Ar+O ₂ 2%	1,0mm	<input checked="" type="checkbox"/>								
#	CrNi ER308L	Ar+O ₂ 2%	1,2mm-0,045in	<input checked="" type="checkbox"/>								
#	CrNi ER316L	Ar+CO ₂ 2%	0,8mm-0,030in	<input checked="" type="checkbox"/>								
#	CrNi ER316L	Ar+CO ₂ 2%	0,035in	<input checked="" type="checkbox"/>								
#	CrNi ER316L	Ar+CO ₂ 2%	1,0mm	<input checked="" type="checkbox"/>								
#	CrNi ER316L	Ar+CO ₂ 2%	1,2mm-0,045in		<input checked="" type="checkbox"/>							
#	CrNi ER316L	Ar+O ₂ 2%	0,8mm-0,030in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	CrNi ER316L	Ar+O ₂ 2%	0,035in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	CrNi ER316L	Ar+O ₂ 2%	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>
#	CrNi ER316L	Ar+O ₂ 2%	1,2mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
#	CrNi ER2209 - DUPLEX	Ar+CO ₂ 2%	0,8mm-0,030in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
#	CrNi ER2209 - DUPLEX	Ar+CO ₂ 2%	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
#	CrNi ER2209 - DUPLEX	Ar+CO ₂ 2%	1,2mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
#	ALMg5 ER5356	Ar	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
#	ALMg5 ER5356	Ar	1,2mm-0,045in			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
#	ALMg5 ER5356	Ar	1,6mm-0,062in									
#	ALSi5 ER4043	Ar	1,0mm			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
#	ALSi5 ER4043	Ar	1,2mm-0,045in									
#	ALSi5 ER4043	Ar	1,6mm-0,062in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
#	ALSi12 ER4047	Ar	1,0mm		<input checked="" type="checkbox"/>							
#	ALSi12 ER4047	Ar	1,2mm-0,045in		<input checked="" type="checkbox"/>							
#	Fe Galv. ERCuSi	Ar	0,8mm-0,030in		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
#	Fe Galv. ERCuSi	Ar	0,035in		<input checked="" type="checkbox"/>							
#	Fe Galv. ERCuSi	Ar	1,0mm		<input checked="" type="checkbox"/>							
#	Fe Galv. ERCuAL	Ar	0,8mm-0,030in		<input checked="" type="checkbox"/>							
#	Fe Galv. ERCuAL	Ar	0,035in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
#	Fe Galv. ERCuAL	Ar	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	Fe FCAW E71T-11	No Gas	0,9mm-0,035in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
#	Fe FCAW E71T-11	No Gas	1,1mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	Fe FCAW E71T-11	No Gas	1,7mm-0,068in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	Fe FCAW ER70C-C6	Ar+CO ₂ 18%	1,2mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	Fe FCAW ER70C-C6	Ar+CO ₂ 18%	1,6mm-0,062in									
#	CrNi FCAW ER308LT0	Ar+CO ₂ 18%	1,2mm-0,045in	<input checked="" type="checkbox"/>								
#	Special (-)	Ar+CO ₂ 18%	1,0mm	<input checked="" type="checkbox"/>								
#	Special (-)	Ar+CO ₂ 18%	1,2mm-0,045in	<input checked="" type="checkbox"/>								
#	Fe ER110S-G 700MC	Ar+CO ₂ 18%	1,0mm	<input checked="" type="checkbox"/>								
#	Fe ER70-S6 NO Cu	Ar+CO ₂ 18%	0,8mm-0,030in	<input checked="" type="checkbox"/>								
#	Fe ER70-S6 NO Cu	Ar+CO ₂ 18%	0,035in	<input checked="" type="checkbox"/>								
#	Fe ER70-S6 NO Cu	Ar+CO ₂ 18%	1,0mm	<input checked="" type="checkbox"/>								
#	Fe ER70-S6 NO Cu	Ar+CO ₂ 18%	1,2mm-0,045in		<input checked="" type="checkbox"/>							
#	Fe ER70-S6	Ar+CO ₂ 8%	0,8mm-0,030in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	Fe ER70-S6	Ar+CO ₂ 8%	0,035in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							
#	Fe ER70-S6	Ar+CO ₂ 8%	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>
#	Fe ER70-S6	Ar+CO ₂ 8%	1,2mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
#	Fe Galv. ER70-S6	Ar+CO ₂ 18%	0,8mm-0,030in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				
#	Fe Galv. ER70-S6	Ar+CO ₂ 18%	0,035in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
#	Fe Galv. ER70-S6	Ar+CO ₂ 18%	1,0mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
#	Fe Galv. ER70-S6	Ar+CO ₂ 18%	1,2mm-0,045in	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>