

GPS 5000 DR Advanced

Compact industrial synergic equipment for MIG pulse MIG welding



Ref.: 42600200

Code: FT42600200

Date: 20-05-2024 V1



Description:

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

Use:

Industrial use, multiprocess equipment for manual application. Ideal for MIG/MAG welding of mild steels, stainless steels and aluminum. Excellent welding dynamics. Synergic regulation, wide range of programs for MIG/MAG welding.

Power supply:

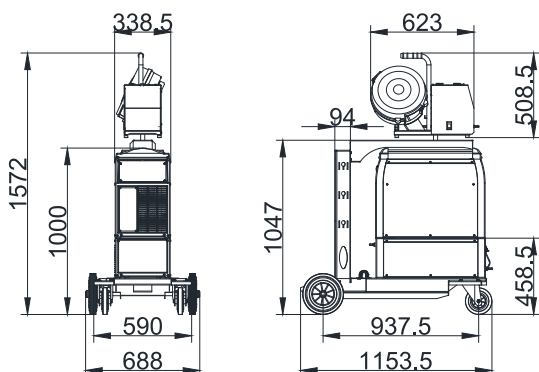
3 Ph. 400 V-50/60 Hz ± 15%

Main advantages:

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

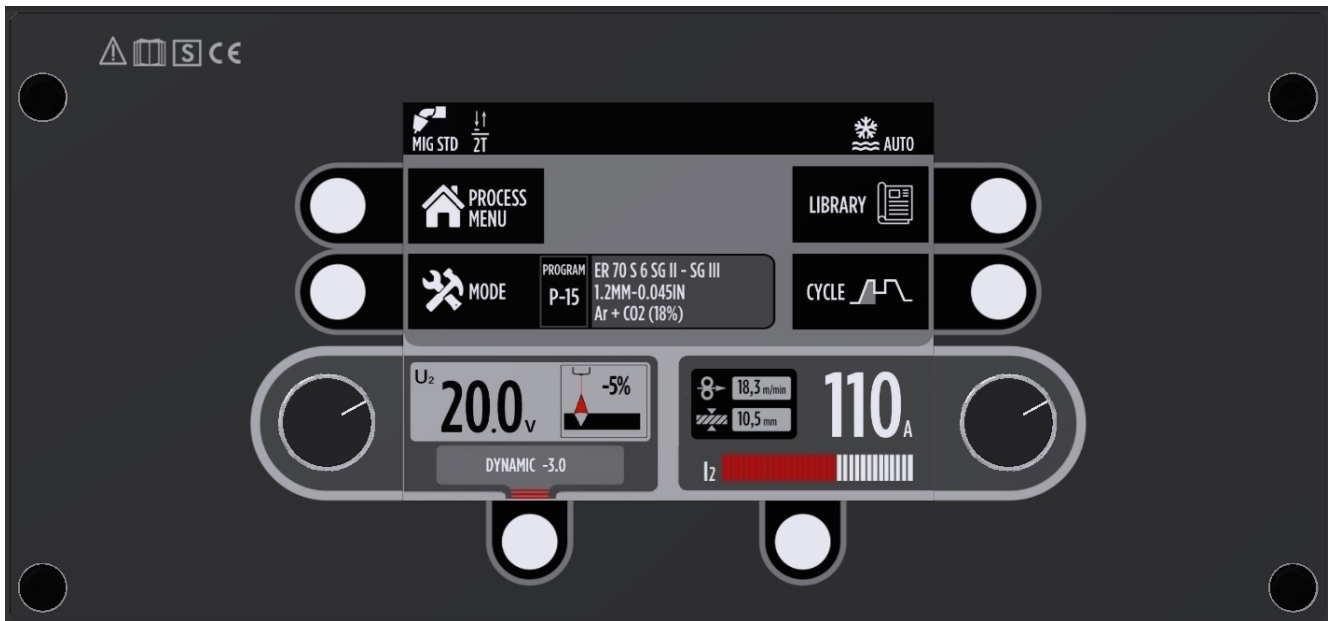
TECHNICAL CHARACTERISTICS	GPS 5000 DR Advanced	
Reference	42600200	42650200
Input voltage U_1 (3 Ph; 50/60hz)	400 V	440V
Maximum primary intensity I_{1max}	40 A	
Effective primary intensity I_{1eff}	27 A	
Maximum/Effective Power	28/19 KVA	
Regulatory margin MIG/MAG $I_{2min}-I_{2max}$	30 ÷ 500 A / 45%	
Welding intensity MIG/MAG ED=100%	350 A / 100%	
Welding voltage regulation $U_{2min}-U_{2max}$	12 ÷ 42 V	
Continuous regulation range MMA $I_{2min}-I_{2max}$	30 ÷ 500 A	
Continuous regulation range TIG $I_{2min}-I_{2max}$	5 ÷ 500 A	
Mechanical protection index (IP)	IP 23 S	
Ventilation	Forzada	
WIDTH x HEIGHT x LENGTH (mm)	345x541x660	
Weight	54,5 kg	

SEGÚN NORMAS UNE-EN 60974. (1)



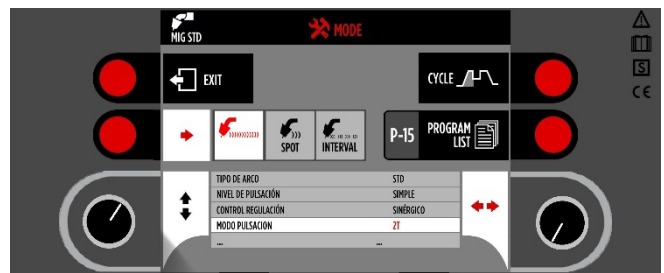
GALAGAR S.L.		CIF B- 50/045285		50.014 ZARAGOZA - SPAIN	
TYP: GPS 5000 DR ADVANCED					
REF: 426.00.200					
UNE-EN 60974-1			UNE-EN 60974-1		
30A / 14 V - 500 A / 39 V					
S	U _o	I ₂	45 %	60 %	100 %
			500A	430 A	350 A
S	U ₂	I ₂	12-42 V	39 V	35.5 V
			31.5V		
3 ~ 50/60 Hz U ₁ 400V I _{1max} =40 A I _{1eff} =27 A					
30A(5A TIG)/21.2V - 500A/40 V					
S	U _o	I ₂	40 %	60 %	100 %
			500A	430 A	350 A
S	U ₂	I ₂	58 V	40 V	37.2 V
			34 V		
3 ~ 50/60 Hz U ₁ 400V I _{1max} =41 A I _{1eff} =27 A					
FRONT:					IP 23 S
DSP:					
MOTOR:					

CONTROL PANEL TFT

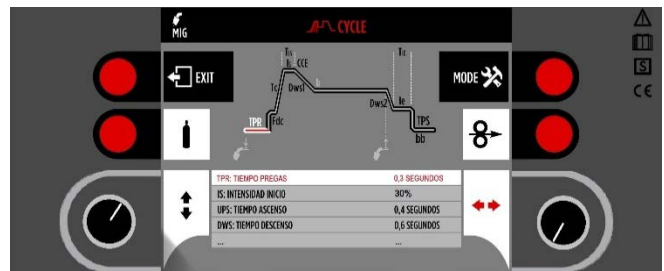


MODE OF OPERATION

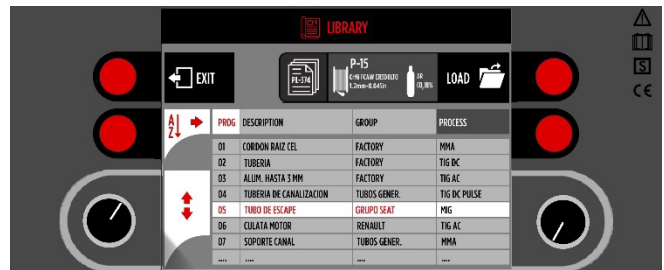
STD – PULSE – SCA – MIXED
 SINGLE ARC - DOUBLE ARC
 SYNERGIC MODE - MANUAL MODE



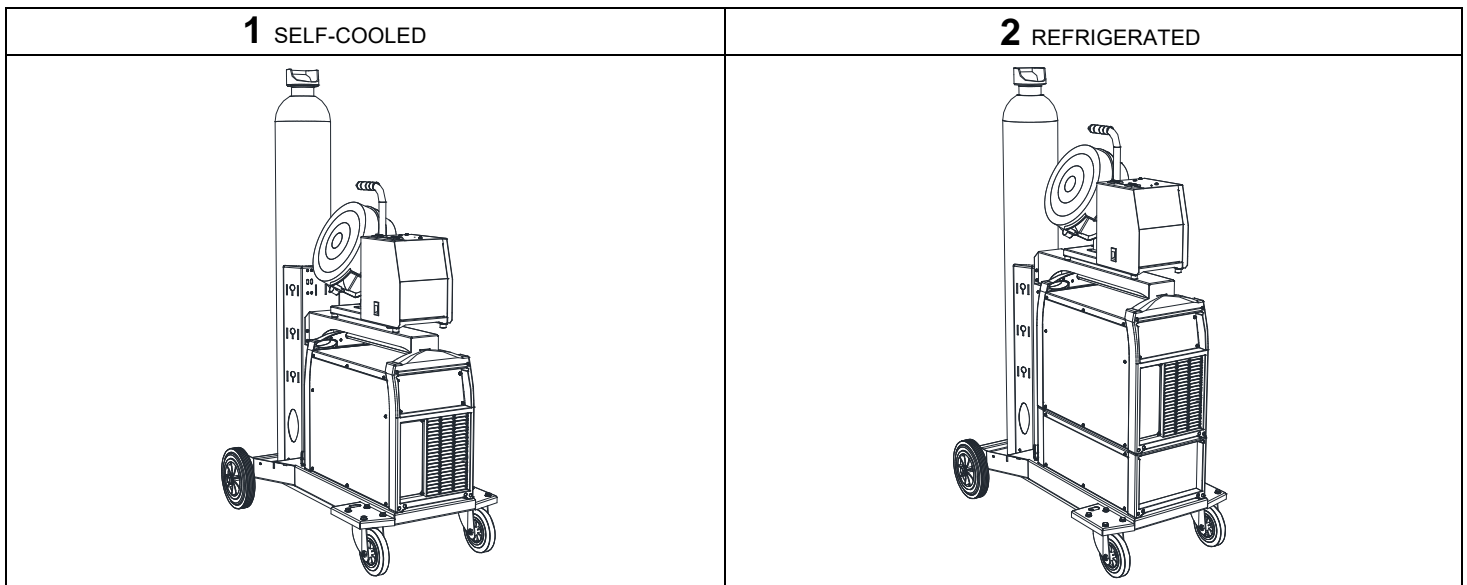
CYCLE PARAMETERS



PROGRAMME LIBRARY



MODULAR PACKAGE - OPTIONAL ITEMS



Reference	Description	1	2
42600000	GPS 5000 DR (400 V – 50/60Hz)	•	•
42650000	GPS 5000 DR (440 V – 50/60Hz)	•	•
64184000	Transport trolley	•	•
65982000	Refrigeration module WCS 520 (230/400/440V)		•
64185101	Winding support	•	•
64187100	Cable set. Uncooled 5mts	•	
64187150	Cable set Refrigerated 5mts		•
66082100	Winder D-GPS 21 A N.M. (Open with roll cover)	•	•
66083000	Winder D-GPS Blind (Without wheels)		Optional
66012080	Kit Transport wheels for winder (D-GPS Blind)		Optional
66081100	Winder D-GPS 5 K N.M (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 (Acero)	AL (Pulse)	SS (Inox. Pulse)	CuSi (Galvaniz.)	CuAL8 Galvaz.)	FCAW (Con gas)		FCAW (Sin gas)	Ø 2.0 - 2,4 mm
880036P	Hand torch MIG 36 M8 (4 m. gas)	•								
880501P	Hand torch MIG 501 M8 (4 m refrigerated)	•	•	•	•	•	•			
R98130022	Collaborative Robot Torch 42G-22º Gas eBASIC	•			•	•	•			
R98130045	Collaborative Robot Torch 42G-45º Gas eBASIC	•			•	•	•			
R99130022	Collaborative Robot Torch 52W-22º Refrig. eBASIC	•		•	•	•	•			
R99130045	Collaborative Robot Torch 52W-45º 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 ROULETTE KIT, 1.0-1.2 mm "ALU"		•			•				
5722	Graphite rope (PK 550)		•	□		•				
30144000V	PROFESSIONAL Display	•	•	•	•	•	•	•	•	•
T264030	Torch SR26 EURO 4 m								•	
T184030	Torch 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 mm2 ; 4 mt ; 500 A								•	
43912063 (*)	Earth cable 50 mm2 ; 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 (Acero)	AL (Pulse)	SS (Inox. Pulse)	CuSi (Galvaniz.)	CuAL8 Galvaz.)	FCAW (Con gas)		FCAW (Sin gas)	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	Special arc package SCA	•		•	•					
42370095	Special arc package ROOT	•		•	•					
42370055	Special arc package SEED UP	•	•	•						
42370057	Special arc package SPEED UP+	•								
42370050	Special arc package WELD SPEED	•	•	•						
42370060	Special arc package WELD POWER	•	•	•						
42370065	Special arc package CEILING	•	•	•						

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

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DS

galagar
WELDING

PROGRAMME												
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"/>