

GPS 3000c Advanced

Industrial multi-process equipment. Mig/mag pulse synergic

Ref.: 42385200

Code: FT42385200

Date: May-24



Description:

Compact inverter technology equipment for multi-process electric welding (semi-automatic MIG/MAG, MMA electrode and TIG process).

Use:

Industrial use, 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.

Electrical power supply:

3Ph. 400 V-50/60 Hz ± 15 %

Main advantages:

- TFT display.
- Access restriction (SECURITY LEVELS).
- SECURITY LEVELS).
- Available languages: Spanish, English, French, German and Italian, German and Italian.
- MIG/MAG process with synergic regulation by weld thickness.
- weld thickness.
- Complete list of synergic programs MIG/MAG standard.
- High speed DSP digital control.
- 4 roulette dragging system.
- Speed control by encoder.
- Wire reel Ø 300 mm (15 Kg).
- Modular system with a wide range of optional optional.
- Polarity change (FCAW no gas).

Optional features and elements:

- Pulsed arc control. Extensive map of synergic programmes.
- Syner BI-PULSE: Double pulsed control. aesthetic improvement of the bead
- TIG PULSE arc with full cycle control (F= 0.1÷1000Hz)
- Water cooling module for A Welding torch.

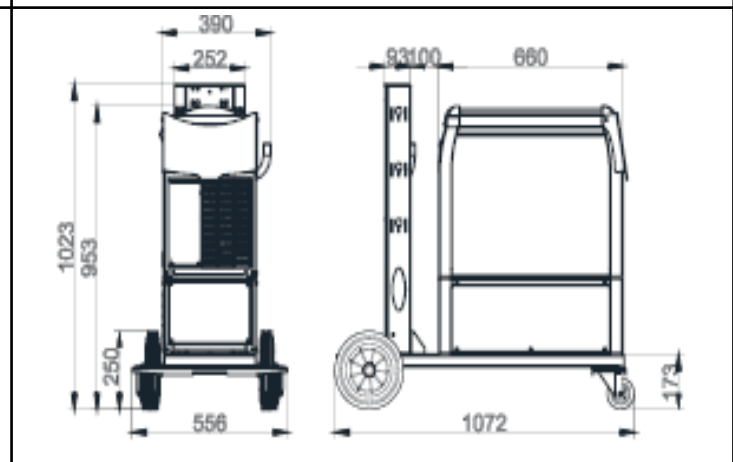
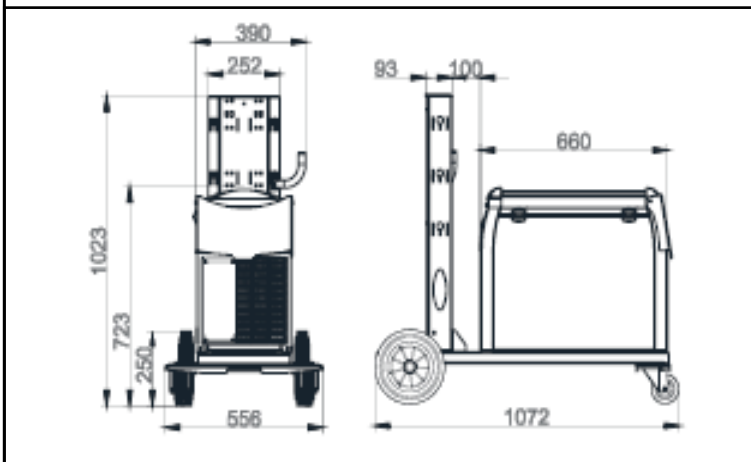
Technical characteristics

| | | |
|---|------------------|----------|
| Reference | 42385200 | 42355200 |
| Input voltage U1 (3 Ph ; 50/60hz) | 400V | 440V |
| Maximum input intensity I1máx | 24A | 22A |
| Effective primary intensity I1eff | 15A | 13A |
| Maximum effective power | 17 / 10 KVA | |
| Regulation margin MIG/MAG I2min-I2max | 30 ÷ 300 A / 45% | |
| Welding intensity MIG/MAG ED=100% | 270 A / 100% | |
| Welding tension regulation U2min-U2max | 12 ÷ 32V | |
| Ø Applicable wire diameters (mm.) | 0.8 + 1.2 mm | |
| Wire reels | 300 mm - 15 Kg | |
| Maximum wire speed (m/min.) | 1 + 24 m/min | |
| Dragging system | 4R -1 00 W-Enc | |
| Margin of continue regulation MMA I2min-I2max | 3 0 ÷ 300 A | |
| Margin of continue regulation TIG I2min-I2max | 5 ÷ 300 A | |
| Mechanical protection factor IP | IP 23 S | |
| Ventilation | orzada | |
| WIDTH x HEIGHT x DEPTH (mm) | 45x541x660 | |
| Weight | 44 Kg | |
| Power supply efficiency | 87% | |
| Maximum standby power consumption | <50 W | |
| ACCORDING TO THE STANDARDS UNE-EN 60974. (1) | | |

Modular package - Optional elements

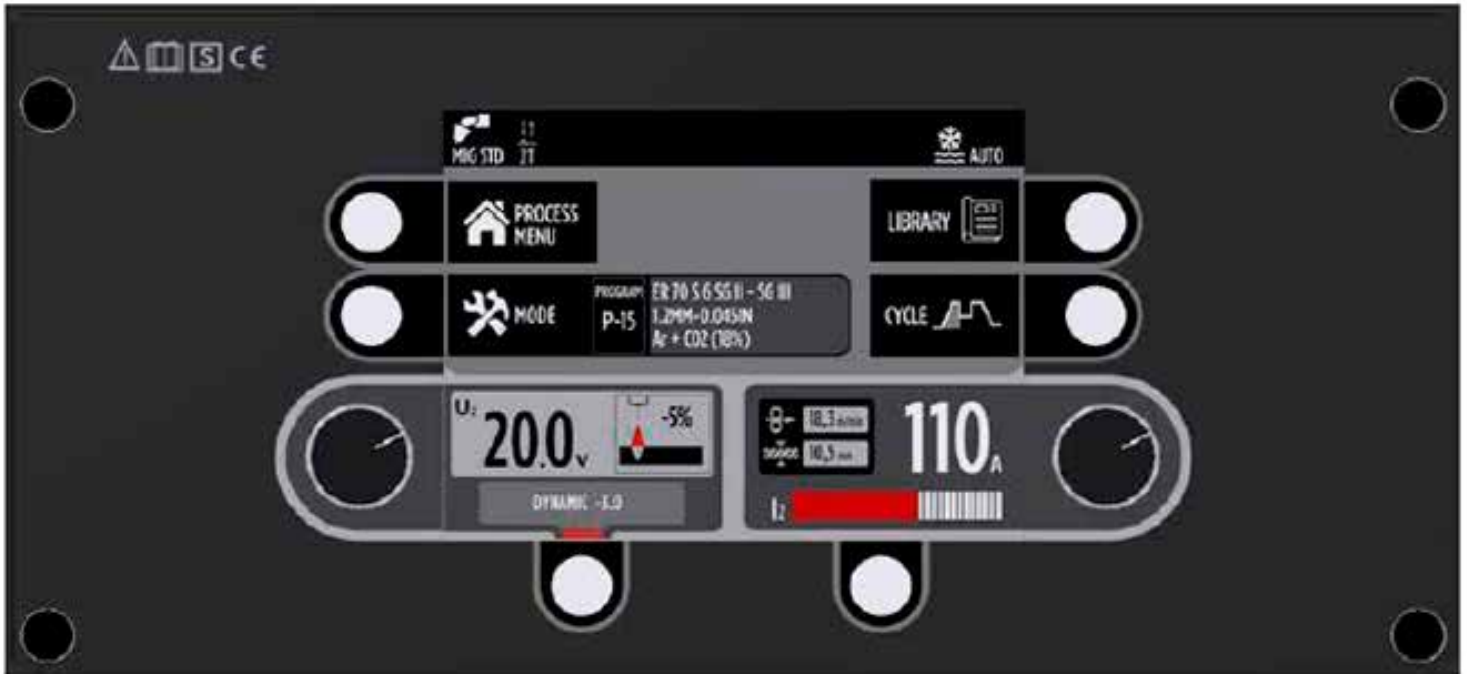
1 Compact auto cooled

2 Compact cooled



| Reference | Description | 1 | 2 |
|-----------|---|---|----------|
| 42385200 | GPS 3000 C ADVANCED (400V - 50/60Hz) | • | • |
| 64191000 | Basic GPS transport cart | • | • |
| 65982000 | WCS 520 cooling module (230/ 400 / 440V) | | • |
| 42370010 | Pulsed Arc Welding GPS Package | | Optional |
| 42370011 | By-Pulse package. Double arc pulsed | | Optional |
| 42370020 | Gala TIG Pulse package. TIG pulsed arc | | Optional |
| 42370012 | Standard double arc By-Level package | | Optional |
| 66790000 | TCW, TIG welding package with cold wire input | | Optional |
| 42370000 | Special bows package | • | Optional |
| 42370015 | Custom welding program creation package | | Optional |

TFT CONTROL PANEL



MODE OF OPERATION

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



CYCLE PARAMETERS



PROGRAMME LIBRARY

INCLUDED ACCESSORIES:

| REFERENCE | DESCRIPTION | REFERENCE | DESCRIPTION |
|-------------|--------------------|-------------|---|
| 423.84.247M | Instruction manual | 23.16.122 | Wire reells Ø37, 1.0-1.2 mm "V" |
| 439.12.063C | Earth clamp cable | 423.12.030C | Machine-gas connection (2 m) / coupling |

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 | ø 2.4 - 3.2 mm |
| 880036P | Manual torch MIG 36 M8 (4 m. gas) | • | | | • | | • | | | |
| 880501P | Manual torch MIG 501 M8 (4 m refrigerada) | • | • | • | • | • | • | | | |
| 42316121 | Wire reel Ø37, 0.8-1.0 mm "V" | • | | • | • | | | | | |
| 42316122 (*) | Wire reel Ø37, 1.0-1.2 mm "V" | • | | • | • | □ | | | | |
| 42316124 | Wire reel Ø37, 1.2-1.6 mm "V" | • | | • | • | □ | | | | |
| 42316125 | Wire reel Ø37, 0.9-1.2 mm "R" (TUBULAR) | | | | | | • | | | |
| 42316126 | Wire reel Ø37, 1.2-1.6 mm "R" (TUBULAR) | | | | | | • | | | |
| 42316127 | Wire reel Ø37, 1.0-1.2 mm "ALU" | | • | | | | | | | |
| 42316128 | Wire reel Ø37, 1.2-1.6 mm "ALU" | | • | | | | | | | |
| 42316227 | KIT RULETAS ALU (wire reel), 1.0-1.2 mm "ALU" | | • | | | | | | | |
| 5722 | Graphite towrope (PK 550) | | • | □ | | | | | | |
| 30144000V | PROFESIONAL screen | • | • | • | • | • | • | • | • | • |
| T264030 | Torch SR26 EURO 4 m | | | | | | | | • | |
| T184030 | Torch SR18 EURO 4 m Refrig. | | | | | | | | | • |
| 37600000 | Argon pressure regulator – Mod. EN 2000 | • | • | • | • | • | | | • | • |
| 37900000 | Gas welding pressure regulator Free Argon | • | • | • | • | • | | | • | • |
| 600000 | CO2 gas heater | • | | | | | | | | |
| 8044166-NT | Tungsten electrode sharpener | | | | | | | | • | • |
| 259064 | Acrylic cable with electrode-holder, 50 mm2 ; 4 mt ; 500 | | | | | | | | • | |
| 43912063 (*) | Earth clamp cable, 50 mm2 ; 4 mt ; 400 A | | | | | | | | • | |
| 1704V10 | Stove TRC V10. Fitted with thermometer and thermostat. | | | | | | | | • | |

(*) Standard as equipment • Recommended use □ Possible use

SOFTWARE PACKAGES FOR WELDING APPLICATIONS

| Reference | Description | MIG/MAG | | | | | | MMA | TIG | |
|-----------|---|-----------|-----------|------------------|------------------|-----------------|-----------------|--------------------|----------------|----------------|
| | | Fe(Steel) | AL(Pulse) | SS (Inox. Pulse) | CuSi (Galvaniz.) | CuAL8 Galva z.) | FCAW (With gas) | FCAW (Without gas) | ø 2.0 - 2.4 mm | ø 2.4 - 3.2 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 | Special SEED UP arc package | • | • | • | • | • | | | | |
| 42370057 | Special SPEED UP+ arc package | • | | • | • | • | | | | |
| 42370050 | Special WELD SPEED arc package | • | • | • | • | • | | | | |
| 42370060 | Special WELD POWER arc package | • | | • | • | • | | | | |
| 42370065 | Special CEILING arc package | • | • | • | • | • | | | | |

(*) Standard as equipment • Recommended use □ Possible use

Special Arcs

Each weld is different, and the execution requirements change depending on the application.

The specific quality requirements, production systems or the aesthetic improvement of the seam determine how we adjust the welding parameters of our equipment.

The SYNERWELD series incorporates different arc dynamics that allow us to obtain the desired results with greater ease and repeatability.



PACK SynerWeld Module
Ref.42370000



ARCO SCA-COLD - Ref.42370100

- Up to 35% reduction in heat input, less heat distortion.
- Drop transfer without spattering in the contact and opening process.
- Increased process speed.



ARCO CEILING - Ref.42370065

- Welding in an under-roof position.
- Easier to execute, straight line welding without oscillation.
- Reduced bead time by avoiding oscillation.



ARCO ROOT - Ref.42370095

- Root pass welding with pipe application.
- Increased arc stability and travel speed (+ 55%).



ARCO SPEED-UP - Ref.42370055

- Vertical upward welding.
- Easier to execute, straight line welding without oscillation.
- Reduction of bead time by avoiding oscillation (-30%).



ARCO SPEED - Ref.42370050

- Increase in travel speed. Between 30% and 50%.
- Travel speed up to 25 mm/s depending on material, thickness and welding position.



ARCO SPEED-UP+ - Ref.42770057

- Vertical upward welding.
- Speed increase up to 18% with respect to SPEED UP arc.
- Exclusive application in carbon steels.



ARCO POWER- Ref.42370060

- Increased penetration. Up to 47%.
- Improvement of bead geometry, reduction of bites and risk of porosity.
- Reduced welding time by reducing oscillation or torch movement.



EDICIÓN de Programas- Ref.42370015

- Programme Customisation.
- Creation of New Programmes.
- Limitation of application of available Programmes.

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DS

galagar®
WELDING

| PROGRAMA | | | | REF | | | | | | | | |
|----------|----------------------|------------------------|---------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Nº | MATERIAL | GAS | Ø | STD | PULSE | SCA | ROOT | SPEED UP | SPEED UP+ | WELD SPEED | WELD POWER | CEILING |
| 12 | 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"/> | <input checked="" type="checkbox"/> | | | |
| 13 | Fe ER70-S6 | Ar+CO ₂ 18% | 0.035in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 14 | Fe 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"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| 15 | Fe 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"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 16 | Fe ER70-S6 | Ar+CO ₂ 18% | 1.6mm-0.062in | <input checked="" type="checkbox"/> | | | | | | | | |
| 17 | Fe ER70-S6 | CO ₂ | 0.8mm-0.030in | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 18 | Fe ER70-S6 | CO ₂ | 0.035in | <input checked="" type="checkbox"/> | | | | | | | | |
| 19 | Fe ER70-S6 | CO ₂ | 1.0mm | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 20 | Fe ER70-S6 | CO ₂ | 1.2mm-0.045in | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 21 | CrNi ER309L | Ar+CO ₂ 2% | 1.0mm | | <input checked="" type="checkbox"/> | | | | | | | |
| 22 | CrNi ER308L | Ar+CO ₂ 2% | 0.8mm-0.030in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | |
| 23 | CrNi ER308L | Ar+CO ₂ 2% | 0.035in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | |
| 24 | CrNi ER308L | Ar+CO ₂ 2% | 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"/> | | <input checked="" type="checkbox"/> |
| 25 | CrNi ER308L | 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"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| 27 | CrNi ER308L | Ar+O ₂ 2% | 0.8mm-0.030in | | <input checked="" type="checkbox"/> | | | | | | | |
| 28 | CrNi ER308L | Ar+O ₂ 2% | 0.035in | | <input checked="" type="checkbox"/> | | | | | | | |
| 29 | CrNi ER308L | Ar+O ₂ 2% | 1.0mm | | <input checked="" type="checkbox"/> | | | | | | | |
| 30 | CrNi ER308L | Ar+O ₂ 2% | 1.2mm-0.045in | | <input checked="" type="checkbox"/> | | | | | | | |
| 32 | CrNi ER316L | Ar+CO ₂ 2% | 0.8mm-0.030in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 33 | CrNi ER316L | Ar+CO ₂ 2% | 0.035in | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | |
| 34 | CrNi ER316L | Ar+CO ₂ 2% | 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"/> |
| 35 | CrNi ER316L | 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"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 37 | CrNi ER316L | Ar+O ₂ 2% | 0.8mm-0.030in | | <input checked="" type="checkbox"/> | | | | | | | |
| 38 | CrNi ER316L | Ar+O ₂ 2% | 0.035in | | <input checked="" type="checkbox"/> | | | | | | | |
| 39 | CrNi ER316L | Ar+O ₂ 2% | 1.0mm | | <input checked="" type="checkbox"/> | | | | | | | |
| 40 | CrNi ER316L | Ar+O ₂ 2% | 1.2mm-0.045in | | <input checked="" type="checkbox"/> | | | | | | | |
| 41 | CrNi ER2209 - DUPLEX | Ar+CO ₂ 2% | 0.8mm-0.030in | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 42 | CrNi ER2209 - DUPLEX | Ar+CO ₂ 2% | 1.0mm | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 43 | 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"/> | | | | | |
| 44 | ALMg5 ER5356 | Ar | 1.0mm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | | | |
| 45 | ALMg5 ER5356 | Ar | 1.2mm-0.045in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| 46 | ALMg5 ER5356 | Ar | 1.6mm-0.062in | | <input checked="" type="checkbox"/> | | | | | | | |
| 49 | ALSi5 ER4043 | Ar | 1.0mm | | <input checked="" type="checkbox"/> | | | | | | | |
| 50 | ALSi5 ER4043 | Ar | 1.2mm-0.045in | | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | |
| 51 | ALSi5 ER4043 | Ar | 1.6mm-0.062in | | <input checked="" type="checkbox"/> | | | | | | | |
| 54 | ALSi12 ER4047 | Ar | 1.0mm | | <input checked="" type="checkbox"/> | | | | | | | |
| 55 | ALSi12 ER4047 | Ar | 1.2mm-0.045in | | <input checked="" type="checkbox"/> | | | | | | | |
| 57 | Fe Galv. ERCuSi | Ar | 0.8mm-0.030in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 58 | Fe Galv. ERCuSi | Ar | 0.035in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| 59 | Fe Galv. ERCuSi | Ar | 1.0mm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 61 | Fe Galv. ERCuAL | Ar | 0.8mm-0.030in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| 62 | Fe Galv. ERCuAL | Ar | 0.035in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| 63 | Fe Galv. ERCuAL | Ar | 1.0mm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| 67 | Fe FCAW E71T-11 | No Gas | 0.9mm-0.035in | | | | | | | | | |
| 68 | Fe FCAW E71T-11 | No Gas | 1.1mm-0.045in | <input checked="" type="checkbox"/> | | | | | | | | |
| 69 | Fe FCAW E71T-11 | No Gas | 1.7mm-0.068in | <input checked="" type="checkbox"/> | | | | | | | | |
| 70 | Fe FCAW ER70C-C6 | Ar+CO ₂ 18% | 1.2mm-0.045in | <input checked="" type="checkbox"/> | | | | | | | | |
| 71 | Fe FCAW ER70C-C6 | Ar+CO ₂ 18% | 1.6mm-0.062in | <input checked="" type="checkbox"/> | | | | | | | | |
| 73 | CrNi FCAW ER308LT0 | Ar+CO ₂ 18% | 1.2mm-0.045in | <input checked="" type="checkbox"/> | | | | | | | | |
| 74 | Special (-) | Ar+CO ₂ 18% | 1.0mm | <input checked="" type="checkbox"/> | | | | | | | | |
| 75 | Special (-) | Ar+CO ₂ 18% | 1.2mm-0.045in | <input checked="" type="checkbox"/> | | | | | | | | |
| 82 | Fe ER110S-G 700MC | Ar+CO ₂ 18% | 1.0mm | | <input checked="" type="checkbox"/> | | | | | | | |
| 85 | Fe ER70-S6 NO Cu | Ar+CO ₂ 18% | 0.8mm-0.030in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| 86 | Fe ER70-S6 NO Cu | Ar+CO ₂ 18% | 0.035in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | |
| 87 | Fe ER70-S6 NO Cu | Ar+CO ₂ 18% | 1.0mm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | <input checked="" type="checkbox"/> |
| 88 | Fe ER70-S6 NO Cu | Ar+CO ₂ 18% | 1.2mm-0.045in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 90 | Fe ER70-S6 | Ar+CO ₂ 8% | 0.8mm-0.030in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | | | |
| 91 | Fe ER70-S6 | Ar+CO ₂ 8% | 0.035in | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | |
| 92 | Fe ER70-S6 | Ar+CO ₂ 8% | 1.0mm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| 93 | 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"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 95 | Fe Galv. ER70-S6 | Ar+CO ₂ 18% | 0.8mm-0.030in | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 96 | Fe Galv. ER70-S6 | Ar+CO ₂ 18% | 0.035in | | | | | | | | | |
| 97 | Fe Galv. ER70-S6 | Ar+CO ₂ 18% | 1.0mm | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 98 | Fe Galv. ER70-S6 | Ar+CO ₂ 18% | 1.2mm-0.045in | | | | | | | | | |