

BasicPlus

Orbital Welding System



The BasicPlus system combines a Lorch TIG power source with an orbital controller featuring integrated "Orbital software". With just three inputs; pipe diameter, wall thickness, and weld head type, the system automatically generates a welding program, guided by intuitive, welding-specific icons.

Compatible with both Orbitalservice and third-party weld heads, the BasicPlus supports multiple engine control cards and allows real-time parameter adjustment. Integrated data logging, oxygen analyzer support, and Bluetooth/PC connectivity make it a reliable and efficient choice for demanding orbital welding applications.

Key Features

- 18 machine configurations for different power and application needs
- Automatic welding program generation based on pipe and head specifications
- User-friendly interface with welding-specific symbols for intuitive control
- Compatible with third-party weld heads via interchangeable engine control cards
- Rotation encoder control
- Wire feed control
- Rotation tachometer control (AMI, Swagelok-Cajon, ESAB, Orbitalum)
- Real-time parameter adjustment during welding
- Integrated oxygen analyzer support for weld monitoring and error detection
- Bluetooth printer and PC software connectivity for complete documentation

Available Models

T 180 DC “BasicPlus” (Article number: T180BPDC100)

- Welding process: TIG DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: Single phase, 115/230 V \pm 15% - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 3 to 180 A
- Duty cycle (230V - 40°C): 100% - 130 A / 60% - 150 A / 35% - 180 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 483 x 185 x 325 mm / 19.0 x 7.3 x 12.8 in
- Weight: 13.3 kg / 29.3 lbs (without controller and cooling unit)
- Standard: EN 60974-01

T 180 AC/DC “BasicPlus” (Article number: T180BPAC100)

- Welding process: TIG AC/DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: Single phase, 115/230 V \pm 15% - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 3 to 180 A
- Duty cycle (230V - 40°C): 100% - 130 A / 60% - 150 A / 35% - 180 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 483 x 185 x 325 mm / 19.0 x 7.3 x 12.8 in
- Weight: 13.3 kg / 29.3 lbs (without controller and cooling unit)
- Standard: EN 60974-01



T 220 DC “BasicPlus” (Article number: T220BPDC100)

- Welding process: TIG DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: Single phase, 115/230 V \pm 15% - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 3 to 220 A
- Duty cycle (230V - 40°C): 100% - 160 A / 60% - 180 A / 40% - 220 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 483 x 185 x 325 mm / 19.0 x 7.3 x 12.8 in
- Weight: 13.4 kg / 29.5 lbs (without controller and cooling unit)
- Standard: EN 60974-01

T 220 AC/DC “BasicPlus” (Article number: T220BPAC100)

- Welding process: TIG AC/DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: Single phase, 115/230 V \pm 15% - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 3 to 220 A
- Duty cycle (230V - 40°C): 100% - 160 A / 60% - 180 A / 40% - 220 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 483 x 185 x 325 mm / 19.0 x 7.3 x 12.8 in
- Weight: 13.3 kg / 29.5 lbs (without controller and cooling unit)
- Standard: EN 60974-01



T 250 DC “BasicPlus” (Article number: T250BPDC100)

- Welding process: TIG DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: 3-phase, 400 V - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 5 to 250 A
- Duty cycle (400V - 40°C): 100% - 175 A / 60% - 200 A / 35% - 250 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 880 × 400 × 755 mm / 34.6 × 15.7 × 29.7 in
- Weight: 60 kg / 132.3 lbs (without controller)
- Standard: EN 60974-01

T 250 AC/DC “BasicPlus” (Article number: T250BPAC100)

- Welding process: TIG AC/DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: 3-phase, 400 V - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 5 to 250 A
- Duty cycle (400V - 40°C): 100% - 175 A / 60% - 200 A / 35% - 250 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 880 × 400 × 755 mm / 34.6 × 15.7 × 29.7 in
- Weight: 60 kg / 132.3 lbs (without controller)
- Standard: EN 60974-01



T 300 DC “BasicPlus” (Article number: T300BPDC100)

- Welding process: TIG DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: 3-phase, 400 V - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 5 to 300 A
- Duty cycle (400V - 40°C): 100% - 200 A / 60% - 250 A / 30% - 300 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 483 × 185 × 325 mm / 19.0 × 7.3 × 12.8 in
- Weight: 16,3 kg / 35.9 lbs (without controller and cooling unit)
- Standard: EN 60974-01

T 300 AC/DC “BasicPlus” (Article number: T300BPAC100)

- Welding process: TIG AC/DC, constant or pulsed, with or without Oscillation, AVC and wire feeder
- Input power: 3-phase, 400 V - 50/60 Hz
- Insulation class: F
- Protection class: IP 23 S
- Welding current: 5 to 300 A
- Duty cycle (400V - 40°C): 100% - 200 A / 60% - 250 A / 35% - 300 A
- Cooling type: Gas-cooled
- Dimensions (L x W x H): 483 × 185 × 325 mm / 19.0 × 7.3 × 12.8 in
- Weight: 16,3 kg / 35.9 lbs (without controller and cooling unit)
- Standard: EN 60974-01

