

Welding process

- MMA (Electrode)
- TIG DC Lift start
- MIG/MAG short spray manual arc
- MIG/MAG short spray synergic arc
- MIG/MAG short spray pulsed
- MIG/MAG pulsed synergic
- MIG/MAG double pulsed synergic
- MIG/MAG brazing
- MIG/MAG plating
- Hard Facing MIG/MAG

Materials

- Carbon steels
- Aluminized and galvanized steels
- Hardfacing
- Stainless steels
- Duplex steels
- Super duplex steel
- Special steel
- Aluminum and aluminum alloys
- Copper and copper alloys
- Nickel and nickel alloys
- Special materials

Applications






- Light job shop fabrication
- Medium-heavy job shop fabrication
- Buildings sites
- Shipyards
- Plants machinery construction
- Oil refinery plants construction
- Machine and apparatus construction
- Automobile industry
- Railway industry
- Nuclear industry
- Military industry
- Aeronautics and Aerospace industry
- Food industry
- Chemical industry
- Repair and overhaul
- Repair and overhaul
- Workshops
- Sheet metal working












Technical features

- "greenWave" inverter technology for high energy efficiency and perfect control over all welding phases
- High power at 100% of duty cycle
- Heavy duty and environmental conditions, high service life
- CAN fieldbus digital communication protocol system (very high speed and high reliability digital communication)
- Software based controls can be upgraded as new features become available
- High temperature, shockproof, abrasion resistant plastic case
- Airflow ducting and fully encapsulated PC board to avoid dust contamination
- Linear controlled fan on demand
- Energy-saving inverter technology (built-in P.F.C. - power factor controller)
- Wire feeder unit (2/4 roll drives)
- Wire drive unit fully designed by voestalpine Böhler Welding
- Full parameters control panel on wire feeder unit
- Ø 200/300 mm wire spool compatible
- Full digital and user-friendly LCD graphic display control panel
- Welding parameters digital display
- Last job settings auto-storage at switch-off
- Back-up/Restore automatic
- User-defined welding program storage capability (240 free memory locations)
- Totally programmable user interface
- Programmable welding operations safety limits
- Lock-unlock function key protected by password
- Control of several welding units over Ethernet
- Totally welding process remote programming and management by PC network
- Ideal for stick welding with multiple types of popular electrodes
- Built-in adjustable arc control features (hot start, arc force, antisticking)
- Synergic setting for optimal stick welding with multiple types of electrodes
- Reduced electromagnetic interference with lift start TIG welding
- 2/4 step operating mode
- Arc dynamic adjustment
- Perfect arc ignition (soft start - motor slope)
- Burn-back and droplet detachment correction
- Crater filler operating mode
- Synergic operations from databank
- Synergic operations from databank (DEMO)
- Wire speed (0,5-22,0 m/min), amperage and piece thickness adjustment
- Spot welding mode
- Intermittent welding mode
- Bilevel MIG/MAG
- Euro adaptor - U/D MIG/MAG torch compatible
- Digital MIG/MAG torch compatible
- Push-pull torch device
- Remote control compatible
- WU cooling unit compatible
- Controlled cooling operations

Power source

|  |  |  | P | X% | P.F. | I₂ | U_o | IP |  mm l x w x h |  Kg |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------|----------------------|----------------------|-----------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| URANOS NX 3200 PME | 3x400V MIG/MAG | 20A | 13,0kVA 12,4kW | 40°C 50% 320A 40°C 60% 310A 40°C 100% 250A 25°C 70% 320A 25°C 100% 270A | 0,95 | 3-320A | 75V | 23S | 620x240x460mm | 27,6kg |
| | 3x400VTIG | 20A | 13,0kVA 12,4kW | 40°C 60% 320A 40°C 100% 270A 25°C 70% 320A 25°C 100% 270A | 0,95 | 3-320A | 75V | 23S | 620x240x460mm | 27,6kg |
| | 3x400V MMA | 20A | 13,0kVA 12,4kW | 40°C 50% 320A 40°C 60% 300A 40°C 100% 250A 25°C 60% 320A 25°C 100% 270A | 0,95 | 3-320A | 75V | 23S | 620x240x460mm | 27,6kg |
| | 3x230V MIG/MAG | 30A | 13,3kVA 12,8kW | 40°C 35% 320A 40°C 60% 280A 40°C 100% 230A 25°C 60% 320A 25°C 100% 270A | 0,96 | 3-320A | 75V | 23S | 620x240x460mm | 27,6kg |
| | 3x230VTIG | 30A | 13,3kVA 12,8kW | 40°C 45% 320A 40°C 60% 300A 40°C 100% 250A 25°C 70% 320A 25°C 100% 270A | 0,96 | 3-320A | 75V | 23S | 620x240x460mm | 27,6kg |
| | 3x230V MMA | 30A | 13,3kVA 12,8kW | 40°C 35% 320A 40°C 60% 270A 40°C 100% 230A 25°C 60% 320A 25°C 100% 270A | 0,96 | 3-320A | 75V | 23S | 620x240x460mm | 27,6kg |

Wire feeder unit

|  | P | ϕ (m/min) |  mm |  | \emptyset mm | ϕ |  |  |  |  | IP |  mm l x w x h |  Kg |
|------------------------------------------------------------------------------------|----------|-------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| WF NX 2000 CLASSIC SL2R-2T | 120W | 0,5-22,0m/min | 200mm | 2 ● | 1,0/1,2mm ● 0,6-1,6mm ○ A0,8-1,6mm ○ Z0,9-2,4mm ○ | ● | ● | - | - | 23S | 470x170x430mm | 8,8kg | |
| WF NX 3000 SMART SL4R-4T | 120W | 0,5-22,0m/min | 200/300mm | 4 ● | 1,0/1,2mm ● 0,6-1,6mm ○ A0,8-1,6mm ○ Z0,9-2,4mm ○ | ● | ● | ○ | ○ | 23S | 660x280x390mm | 13,0kg | |
| WF NX 4000 SMART SL4R-4T | 120W | 0,5-22,0m/min | 200/300mm | 4 ● | 1,0/1,2mm ● 0,6-1,6mm ○ A0,8-1,6mm ○ Z0,9-2,4mm ○ | ● | ● | ○ | ○ | 23S | 640x250x460mm | 19,0kg | |

●=Included ○=Optional A=Aluminum Z=Cored

Cooling unit

|  |  | P |  | IP |  mm l x w x h |  Kg |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| WU 2000 | 360Vdc | 1,0 kW | 3,0l | 23S | 660x240x220mm | 12,0 kg |

