

Welding process

- MMA (Electrode)
- Air Carbon Arc gouging
- 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
- 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
- Air flow 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
- Lock-unlock function key protected by password
- Programmable welding operations safety limits
- 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

URANOS NX 4000/5000 PME

Power source






			P	X%	P.F.	I₂	U_o	IP	 mm l x w x h	 Kg
URANOS NX 4000 PME	3x400V	25A	16,9kVA 16,1kW	40°C 60% 400A	0,95	3-400A	73V	23S	690x290x510mm	35,2kg
				40°C 100% 360A						
				25°C 100% 400A						
URANOS NX 4000 PME	3x400V	25A	16,9kVA 16,1kW	40°C 60% 400A	0,95	3-400A	73V	23S	690x290x510mm	36,2kg
				40°C 100% 360A						
	3x230V	45A	17,4kVA 16,5kW	40°C 60% 400A	0,95	3-400A	73V	23S	690x290x510mm	36,2kg
				40°C 100% 360A						
URANOS NX 5000 PME	3x400V	30A	22,9kVA 21,7kW	40°C 50% 500A	0,95	3-500A	73V	23S	690x290x510mm	37,0kg
				40°C 60% 470A						
				40°C 100% 420A						
				25°C 80% 500A						
				25°C 100% 470A						
URANOS NX 5000 PME	3x400V	30A	23,6kVA 22,5kW	40°C 50% 500A	0,95	3-500A	73V	23S	690x290x510mm	37,0kg
				40°C 60% 470A						
				40°C 100% 420A						
				25°C 80% 500A						
				25°C 100% 470A						
URANOS NX 5000 PME	3x230V	63A	24,5kVA 23,3kW	40°C 50% 500A	0,95	3-500A	73V	23S	690x290x510mm	37,0kg
				40°C 60% 470A						
				40°C 100% 420A						
				25°C 80% 500A						
				25°C 100% 460A						

Wire feeder unit

	P	ϕ (m/min)	 mm		\emptyset mm	ϕ					IP	 mm l x w x h	 Kg
WF NX 2000 CLASSIC SL 2R-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 CLASSIC SL 4R-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 3000 SMART SL 4R-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 SL 4R-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	
WF NX 4000 CLASSIC SL 4R-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 3000	360 Vdc	1,4kW	5,5l	23S	705x305x250mm	13,0 kg

CONFIGURATIONS

URANOS NX 4000 PME - MIG/MAG welding configuration - Water - WF NX 4000 SMART		AC
55.03.065	URANOS NX 4000 PME 3X400V	A
79.11.00033	MASTER SOFTWARE 3 - UNALLOYED STEEL - ArcDrive PulsDrive	
71.01.080	WIRE FEEDER WF NX 4000 SMART	A
71.06.327	WATER COOLED CABLE BUNDLE - 70mm ² - 4m	A
71.03.077	COOLING UNIT WU 3000	A
71.03.080	POWER SOURCE TROLLEY GT 500 WF	A
81.05.040	MT 440 W U/D MIG/MAG WELDING TORCH - 4m - LIQUID COOLED	B
71.05.014	WORK CABLE - 70mm ² - L.4m	A

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