







PowerARC 280STH Cross and PowerARC 300ST Cross Brand Comparison

More Power and Capability Than You Might Expect.

The Power of the PowerARC 280STH and PowerARC 300ST welders is quite impressive. It's way up there in the industrial range. Any common size stick electrode will not even give these units a good workout. When needed, these units can lay down some serious weld beads. Both units are DC TIG capable for pipe and general fabrication work on steel and stainless applications. When compared to the nearest competitors, the units stand out for not only Duty Cycle, but they also are clear winners on price, and warranty. While you may not find every function known to mankind on the PowerARC 300ST, it is a no-nonsense Industrial work horse for pounding out welds with any

stick electrode, and when needed, a gas valve torch rig can be fitted for running those root passes. It has what you need to make excellent quality welds. But if you have a range of fabrication needs, especially more delicate ones, the PowerARC 280STH is your go to machine. It has Lift Start TIG and High Frequency start TIG to suit your DC TIG needs. As a bonus, it has VRD, as a life-saving safety feature. Both welders stand up well to the competition in areas of relevant performance and can handle any rod, including E6010 like a dream. But the clincher is that you can buy a whole fleet of them for what you'd pay for a single unit with our competitor's units. Just take a look.

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|---|---|---|---|---|---|---|
| Price: | \$619.00 | \$1189.00 | \$5032.00 | \$4527.00 | \$6129.00 | \$2573.00 |
| Voltage Input | 208-240V 1/3 ph | 208-240V 1/3 ph (480 opt.) | 208-575V 1/3 ph | 208-575V 1/3 ph | 208-480V 1/3 ph | 208-460V 1/3 ph |
| Input 240V 1 phase @ Rated Amps Output 3 phase @ Rated Amps Output | 60A 45A | 52A @ 280A 30A @ 280A | 27A @ 180A 18A @ 200A | 27A @ 180A 18A @ 200A | 67A 37A | 34A 33A |
| Stick Duty Cycle @ Maximum Amps 1 phase 3 phase | 60% @ 300A 60% @ 300A | 35% @ 250A 35% @ 250A | 10% @ 280A 15% @ 280A | 10% @ 280A 15% @ 280A | 100% @ 200A 40% @ 300A | 35% @ 275A 35% @ 275A |
| TIG Duty Cycle @ Maximum Amps 1 phase 3 phase | 60% @ 300A 60% @ 300A | 35% @ 280A 35% @ 280A | 25% @ 280A 25% @ 280A | 25% @ 280A 25% @ 280A | 100% @ 200A 40% @ 300A | 30% @ 275A 30% @ 275A |
| Max OCV | 70V | 70V | 60V | 60V | 48V | 70V |
| Lift Start TIG (DC) | Live Liift | Live and Switched Lift | Yes | Yes | Switched Lift | Live |
| HF Start TIG (DC) | Yes | Yes | Yes | Yes | Yes | No |
| Digital Display | Yes | Yes | Yes | Yes | Yes | No |
| Pulse TIG (DC) | No | 0-250Hz | 0-500Hz | 0-250Hz | 0-999Hz | No |
| Fully Adjustable Pulse Parameters by Operator | NA | Yes | Yes | No | Yes | NA |
| Built in Gas Solenoid Valve for Gas Flow Control | No | Yes | Yes | Yes | Yes | No, Use Gas Valve Torch |
| TIG Kit Included (Base Model) | NA | No | No | No | No | No |
| TIG Foot Pedal/ 2T/4T Torch Switch (Remote) | No | Yes | Yes | Yes | Yes | Yes |
| Stick Arc Force Control (DIG, Inductance etc.) | Adjustable | Adjustable | Adaptive (Not Adjustable) | Adaptive (Not Adjustable) | Adjustable | Adaptive (Not Adjustable) |
| Stick Voltage Reduction for Safety (VRD) | No | Yes | Yes | Yes | Yes | No |
| Anti-Stick/Stuck Rod Feature | No | No | Yes | Yes | Yes | No |
| Stick Hot Start Time Adjustment | Auto | 0-2 Seconds | Auto | Auto | Auto | Auto On/Off |
| Stick Hot Start Intensity Adjustment | 0-100% | 0-100% | Auto | Auto | 0-99% | Auto |
| E6010 (Cellulosic Rods) Capability | Yes | Yes | Yes | Yes | Yes | Yes |
| Stick Output Range | 20-300A | 5-250A | 5-280A | 5-280A | 5-300A (200A on 1 ph) | 5-275A |
| TIG Output Range | 20-300A | 5-280A | 1-280A | 1-280A | 5-300A (200A on 1 ph) | 5-275A |
| TIG Pre-Flow Control | No | 0-25 Seconds | Fixed | Fixed | 0-25 Seconds | No |
| TIG Post Flow Control | No | 0-50 Seconds | Auto | Auto | 0-25 Seconds | No |
| TIG Up-Slope | No | 0-25 Seconds | Fixed | Fixed | 0-25 Seconds | No |
| TIG Down-Slope | No | 0-25 Seconds | Fixed | Fixed | 0-25 Seconds | No |
| Weight | 50 lbs. | 55 lbs. | 47 lbs. | 47 lbs. | 33 lbs. | 54 lbs |
| Dimensions | 9.75"Wx17"Hx21"L | 9.75"Wx17"Hx21L | 8.6"Wx13.6"Hx22.5"L | 8.6"Wx13.6"Hx22.5"L | 7.9"Wx12.6"Hx18.1"L | 9"Wx13.6"Hx20.3"L |
| Input Cable Length | 6.5 Ft (2m) | 6.5 Ft (2m) | 6.5 Ft (2m) | 6.5 Ft (2m) | Not Specified | 10 Ft (2m) |
| Warranty | 5 Year Parts/Labor | 5 Year Parts/Labor | 3 Year Parts/Labor | 3 Year Parts/Labor | 3 Year Parts/Labor | 3 Year Parts/Labor |

*This publication is based on available information on April 25, 2019. It relies on other manufacturer data which is subject to change and may vary in accuracy. Prices are also subject to change and are based off of MSRP or stated prices. NA= Not Applicable. Not listed=No information available at the time of creation of this comparison.

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