



FLASH BUTT WELDING MACHINES TYPE ASO 220 - 500

ASO 220- 500

Industrial system for heavy-duty welding of round parts, rings, and strip joints

The ASO 220 – 500 series consists of powerful flash butt welding machines designed for high-volume industrial production of rims, chain links, round materials, and strip joints.

This system combines:

- Flash (burn-off) butt welding
- Conventional butt welding
- Medium-frequency technology

Paired with state-of-the-art controls and a modular design, these machines are ideally suited for semi-automated or fully automated production environments.

<p>ASO 220-320</p> 		<p>Application: Stub welding of rims for forklifts, cars, and various automotive applications</p> <p>Materials and specifications: Rim diameter: 17.5", 19.5", 22.5" Rim width: 400 - 600 mm (15.748" - 23.622") Strip thickness: 4.0 - 7.0 mm (0.169" - 0.752") Welding cross-section: 800 - 4000 mm²</p>
<p>ASO 500 PF</p> 		<p>Application: High-performance rim welding for automotive and agricultural (tractor) wheels</p> <p>Materials and specifications: Diameter: 24", 38", 42", 46", 54" Inner diameter: 535 - 1400 mm (21.063" - 55.118") Rim width: 380 - 695 mm (14.960" - 27.362") Strip thickness: 5.0 - 9.0 mm (0.196" - 0.354") Welding cross-section: 1900 - 7720 mm²</p>
<p>ASO 050 - 220 SK</p> 		<p>Application: Welding of rods to forged components (e.g., truck and railway axles)</p> <p>Materials and specifications: Cross-section: 314-962 mm² (12.362" - 37.874") Bar diameter: Ø 8 - 50 mm (0.315" - 1.969") Production rate: 110 - 115 welds/hour Material: S355 / AISI 4140</p>

<p>ASO 220 - 320 SK</p> 		<p>Application: Welding large rings for trailers, trucks, and wind energy applications</p> <p>Materials and specifications: Inner diameter: Ø 343 - 3050 mm (13.503" - 120.078") Thickness: 35 - 60 mm (1.378" - 2.3622") Cross-section: 2000 - 7425 mm² Materials: S275, S355, SAE1020, 304L, 316L</p>
<p>ASO 050-320 - SK</p> 		<p>Application: Welding of chain links for mining and heavy industry</p> <p>Materials and specifications: Round steel Ø 8 - 50 mm (0.314" - 1.968") On request: up to a size of 115 mm (4.52756")</p>
<p>ASO 025-320 - B-P</p> 		<p>Application: Welding of steel strips in coil and pipe profile production</p> <p>Materials and specifications: Strip cross-section: 380 - 3400 mm² Structural steel SAE1012 Strip thickness: 2.5 - 7.5 mm (0.100" - 0.293") Strip width: 150 - 450 mm (5.905" - 17.716")</p>

GENERAL ADVANTAGES OF THE ASO SERIES

- Premium industrial-grade equipment
- Semi-automated or fully automated operation
- State-of-the-art control technology
- Extremely high process repeatability
- Designed for high-volume production
- Custom-engineered solutions available
- Made in Germany

Machine type	Max. compression force kN	Nominal transformer power kVA	Welding cross-section, unalloyed steel mm ²	Welding cross-section, alloyed steel (BSt) mm ²	Welding cross-section, stainless steel mm ²	Welding cross-section, aluminum mm ²	Weight of base machine kg
ASO 050	50	120 / (200)	250 - 1600	bis 800	bis 400	50 - 250	3000
ASO 100	100	200 / (400)	400 - 2500	bis 1600	bis 800	100 - 500	5000
ASO 160	160	500	600 - 4000	bis 2600	bis 1300	200 - 800	7000
ASO 220	220	800	800 - 5000	bis 3500	bis 1800	300 - 1100	11000
ASO 320	320	800	1000 - 6000	bis 5000	bis 2600	400 - 1600	14000
ASO 500	500	1200	1500 - 10000	bis 8000	bis 4000	500 - 2500	25000