



## **Bafa Industrial Solid State H.F Welder**

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# SOLID STATE H.F WELDING MACHINE

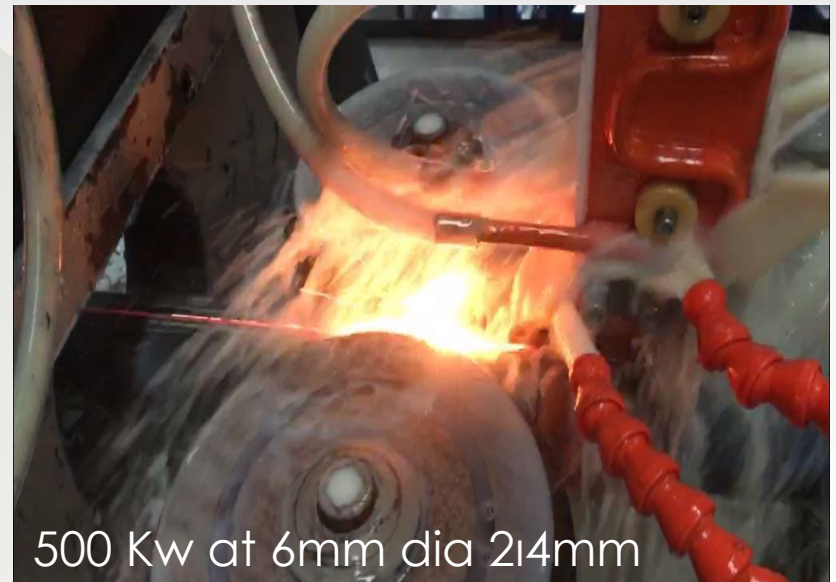
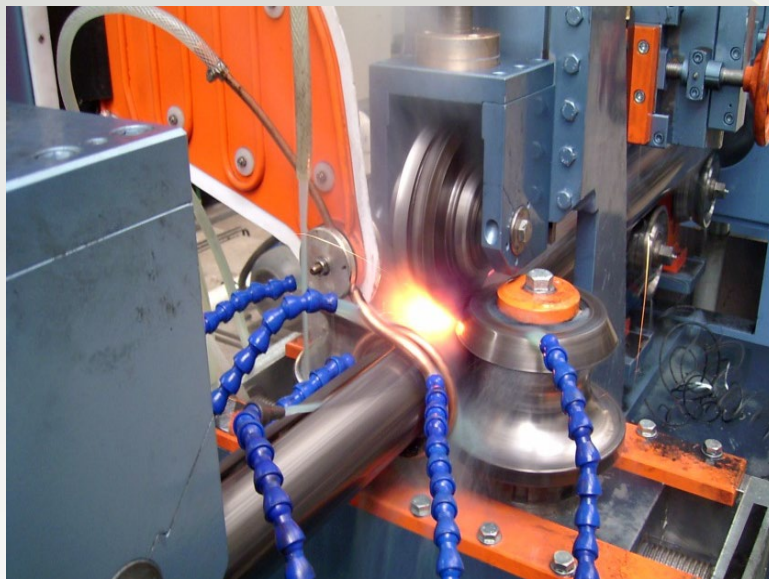


Bafa Industrial Systems Machine Automation & Erw Welding

# Solid state D.C. Powersupply Unit

The power cabinet to be able to achieve stable and accurate welding power, high frequency generator must be fed with very stable d.C. power our power cabinet is more than enough for this stable, accurate and yet invincible. Some brief properties of the power cabinet can be listed as:

- Thyristor Group Water-cooled that provide controlled steady D.C.voltage.
- Ripple Filter The system that increases the welding quality by minimizing ripple level and blocking the harmonics in the operation.
- Synchronization to line speed The control system that increases or decreases the welding power according to the line speed both manual and automatic.



- Programmable Logic Controller(PLC) controller of the operation Water Flow Protection Continuous monitoring of water flow throughout the whole unit.
- Air/Water heat exchanger Closed-loop air circulation in the unit to keep the inside air temperatures at a low level.
- Power Transformer Specially designed low-size power transformer that can produce high power made of steel.



# Solid State H.F. Generator Unit

In a continuous production, the quality totally depends on the reliability of the working machines. Having a High Frequency Generator in line, manufacturers reduce the scrap to a minimum.

Properties of the High Frequency Generator are briefly:

- Compact design aluminum Casing Designed to withstand harsh environment conditions..
- Low power Rating High efficiency in power usage.
- Water cooling All equipment including HF power modules are water-cooled.



- HF capacitor Group Array of capacitors delivering high power with low voltage that reduce the sparking in the induction coil.
- Support Table with dual Axis Movement Providing ease of adaptation of the system to the changes in the coil and form rolls.
- Water Flow protection Continuous monitoring of water flow throughout the whole unit.
- Time Saving easy-Change Coil Assembly Reduces the setup time between coil changes.



# Cooling System

For the healthy operation of the two units mentioned above, a reliable cooling system is a part of welder. Properties of the cooling system are briefly:

- Closed-Loop Operation Closed loop purified water cycle.
- Heat Exchanger Stainless steel plate type high efficiency heat exchanger with plain water-purified water as working liquids.
- Water Pump Stainless steel water pump providing high flow rates in low pressure.



MODEL	RF Power(kW)	OutPut Frequency kHz	Poductivity
ERWSSW-50	50	400	85
ERWSSW-100	100	450	85
ERWSSW-150	150	400	85
ERWSSW-200	200	370	85
ERWSSW-250	250	350	85
ERWSSW-300	300	300	85
ERWSSW-350	300	300	85
ERWSSW-400	400	300	85
ERWSSW-450	450	300	85
ERWSSW-500	500	300	85

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# REFERENCES

- 2011 - 250 Kw Solid State H.F Welder Sen İnşaat Azerbaijan
- 2011 - 21-76 Pipe Machine Automation Sen İnşaat Azerbaijan
- 2011 - 21-76 Special Cold Saw Cut Automation System Sen İnşaat Azerbaijan
- 2012 - Straightening Line Automation Azertürk Azerbaijan
- 2012 - Slitting Line Automation Sen İnşaat Azerbaijan
- 2013 - 19/100 Pipe Profile Dyeing and Packaging Automation Azertürk Azerbaijan
- 2013 - Flying Cut Automation Azertürk Azerbaijan
- 2014 - 250 kw Solid State H.F Welder Sönmezler Metal A.Ş Turkey
- 2014- 21-76 Pipe Machine Automation Sönmezler Metal A.Ş Turkey
- 2014- 21-76 Special Cold Saw Cut Automation System Sönmezler Metal A.Ş Turkey
- 2015 -19-100 Pipe Profile Dyeing and Packaging Automation Sönmezler Metal A.Ş Turkey

- 2015- 250 Kw Solid State H.F Welder Ukrain
- 2016- 21-76 Pipe Machine Automation System Ukrain
- 2016- 21-76 Special Cold Saw Cut Automation System Ukrain
- 2016 - 250 Kw Solid State H.F Welder Rusia
- 2016 - 400 Kw Solid State H.F Welder Rusia
- 2016 - 168 Pipe Machine Automation System Rusia
- 2016 - 168 Special Cold Saw Cut Automation System Rusia
- 2016 - Motor Control Automation Yapı Sistem A.Ş Turkey
- 2016 - Extruder Automation Control System Oniks Kontrol A.Ş Turkey
- 2016 – 3rd 19-100 Pipe Profile Dyeing and Packaging Automation Sönmezler Metal A.Ş Turkey
- 2016 – Tilting and Conveyor Control Line Automation Borusan Mühendislik & Tosyalı Toyo Çelik A.Ş Turkey

- 2017 - 2nd Tilting and Conveyor Control Line Automation Borusan Mühendislik & Tosyalı Toyo Çelik A.Ş Turkey
- 2017- 250 Kw Solid State H.F Welder Rusia
- 2018 - 350 Kw Solid State H.F Welder Bakü İnşaat Azerbaijan
- 2018 - 300 Kw Solid State H.F Welder Çukurova Silo A.Ş Adana Turkey
- 2018 - 500 Kw Solid State H.F Welder Çukurova Silo A.Ş Adana Turkey
- 2018 - 300 Kw Solid State H.F Welder Bakü İnşaat Azerbaijan
- 2018 - 250 Kw Solid State H.F Welder Bakü İnşaat Azerbaijan