

mechelonic engineers pvt. ltd.



STEEL GRATING WELDING MACHINE

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mechelonic engineers' Steel Grating Welding Machine has been specially designed for the manufacture of steel gratings by electrical resistance welding. The application of high current and high forging pressure under precise control of a special welding controller and a PLC based sequence controller results in high quality electro forged weld joints that meet the highest standards. The machine can be used for the manufacture of world class gratings using round, square or twisted cross bars.

TECHNICAL DATA

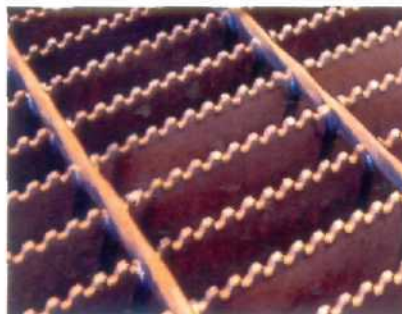
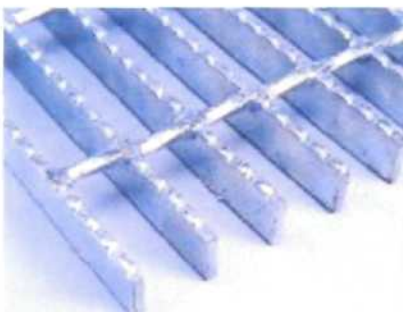
Cross bar Diameter	4 to 6 mm
Machine KVA	1800 KVA
Bearing Bar Size	2x20 to 5x50 mm
Weld Force	70 to 180 Tons
Material	Low carbon steel
Bearing Bar Pitch	30 to 100 mm
Cross Bar Pitch	50 & 100 mm
Grating Size	1000 X 6000 mm

The machine operation does not require any skilled labour. Apart from the loading of the cross and bearing bars, the machine is completely automatic.

The machine comprises of a hydraulically operated weld press with cross bar guides and a chain conveyor system. The welding transformers and the secondary system are designed to ensure high efficiency. The welding parameters are easily settable through a user friendly interface to the control system.

The gratings produced on the machine offer the following advantages

- High mechanical strength of joint
- High load bearing capacity
- Minimum distortion
- High dimensional accuracy
- No pre-notching of bearing bar
- Clean joints



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