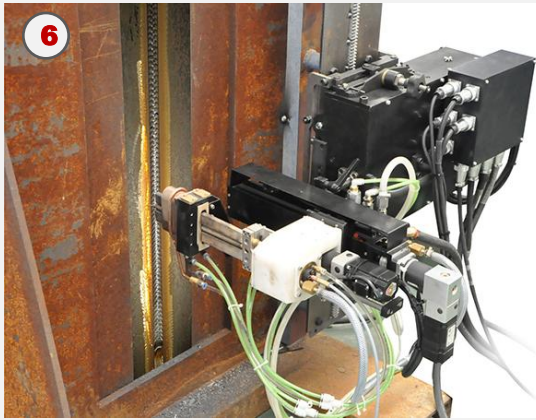
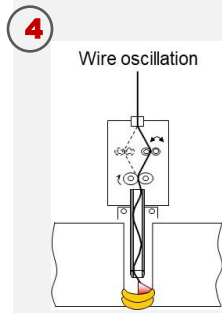
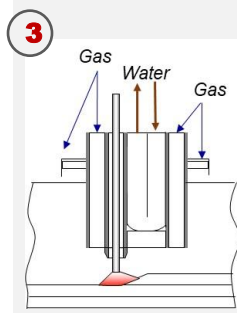
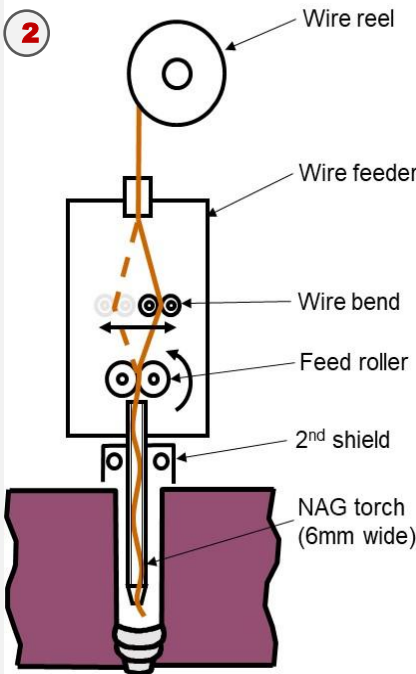


Narrow Gap MIG

Automated Narrow Gap MIG/MAG Welding System

Narrow Gap is an advanced welding technology used in MIG/MAG for thick plate welding applications with high quality and productivity. The complete system consists of Narrow Gap MIG/MAG Welding Torch Assembly, MIG/MAG Welding Power Source, Wire Feed Unit, Weld Controller, Water Cooler, Connection Cable Sets and the necessary custom-built fixture e.g. Column and Boom for the welding fit up.

Narrow Gap as the name suggests is used on very low root gap e. g. 9mm in MIG/MAG and offers several advantages compared to conventional welding, some of the major advantages are reduced groove preparation cost, lesser number of passes, reduced consumables cost and faster welding speed, which deliver significant quality and productivity improvements over the conventional welding process (mentioned below are the different components of the above system, NAG – Narrow Gap).



| | |
|---|---|
| 1 | NAG MIG Set Up |
| 2 | NAG Wire Feed Mechanism |
| 3 | NAG Torch Gas and Water Inlet and Outlet |
| 4 | Wire oscillation |
| 5 | NAG MIG Welding on Job |
| 6 | NAG MIG Torch Set Up for Vertical Welding |

Narrow Gap MIG/MAG System – Features / Applications

The KAIYUAN Narrow Gap MIG/MAG Welding System comes with specially designed Narrow Gap MIG torch and a wide range of features listed below, which not only drives quality and productivity enhancement but also positions KAIYUAN as distinguished global player ahead of its counterparts.

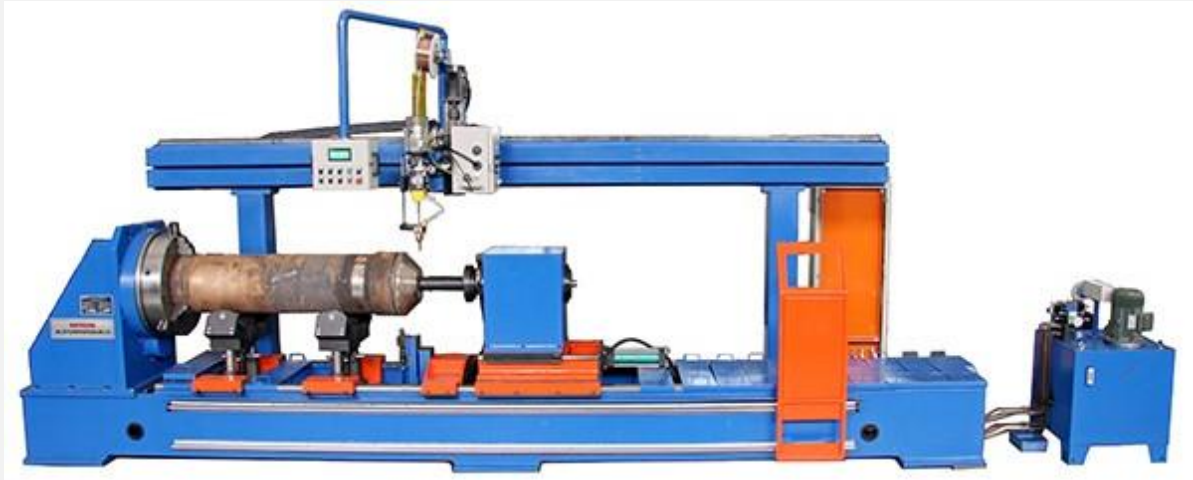
Salient Features

- Excellent weld quality – reduced weld area, low distortion, improved quality
- High productivity – weld metal deposition rate 3 ~ 5 times faster than conventional welding, enhanced productivity
- Saving in cost – elimination of tack welding and reduction in consumables up to 70% as compared to the conventional welding is achievable, which deliver significant cost saving
- Welding process upgrade – can replace SAW for many applications by upgrading conventional MIG to achieve desired levels of quality and productivity
- Options available to enhance quality and productivity – job pre-heating system and weld seam tracking system.

Application Segments

- Oil and Gas
- Process Plant Equipment
- Mining and Material Handling Equipment

| Technical Details | Value |
|----------------------------|------------------------------|
| Material thickness | 400 mm (max) |
| Groove width | 9 ~ 16 mm |
| Deposition rate | 70 ~ 90 gm/min |
| Wire diameter | 1.2 / 1.6 mm |
| Welding speed | 100 ~ 300 mm/min |
| Pass per layer | One |
| Wire oscillating frequency | 60 per min |
| Shield gas | 80% Ar + 20% CO ₂ |



Narrow Gap MIG/MAG Welding System with a job used in Mining Industry positioned for welding

KAIYUAN WELDING & CUTTING AUTOMATION INDIA PVT. LTD.

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