

Hybrid flux cored wire for carbon steel suitable for robotic system for structural steel industry including seismic application
AWS A5.20 E70T-1C

AWS D1.8
Seismic Arc



Features and typical fields of application

- Hybrid slag formula gives MX-50R its excellent weldability and efficiency in flat and horizontal welding with Kobelco's ARCMAN™ robotic system for structural steel industry including seismic application.
- MX-50R can be used with 100%CO₂ shielding gas. It has a wide welding parameter range which makes MX-50R very versatile.
- Its low fume emission formula creates a clean welding environment at any welding condition.
- MX-50R has AWS D1.8 approval, making it a superior choice for seismic applications in the structural steel industry.

Bead appearance



MX-50R, 0.052", Horizontal Fillet Welding with ARCMAN™ robotic system with 100%CO₂ gas

Mechanical properties of all-weld metal per AWS A5.20 and D1.8 Structural welding code

| Code | Shielding Gas | 0.2% PS (ksi) | TS (ksi) | El (%) | CVN (ft-lbs) |
|----------------------------------|---------------------|---------------|----------|--------|--------------|
| AWS A5.20 | 100%CO ₂ | 65 | 78 | 32 | 66 at 0°F |
| AWS D1.8 Low H. Ipt: 31kJ/in | | 67 | 80 | 29 | 83 at +70°F |
| AWS D1.8 High H. Ipt: 79kJ/in | | 60 | 77 | 30 | 91 at +70°F |

Chemical Composition of all weld metal per AWS A5.20 (%)

| Shielding Gas | C | Si | Mn | P | S |
|---------------------|------|------|------|-------|-------|
| 100%CO ₂ | 0.04 | 0.57 | 1.60 | 0.008 | 0.006 |

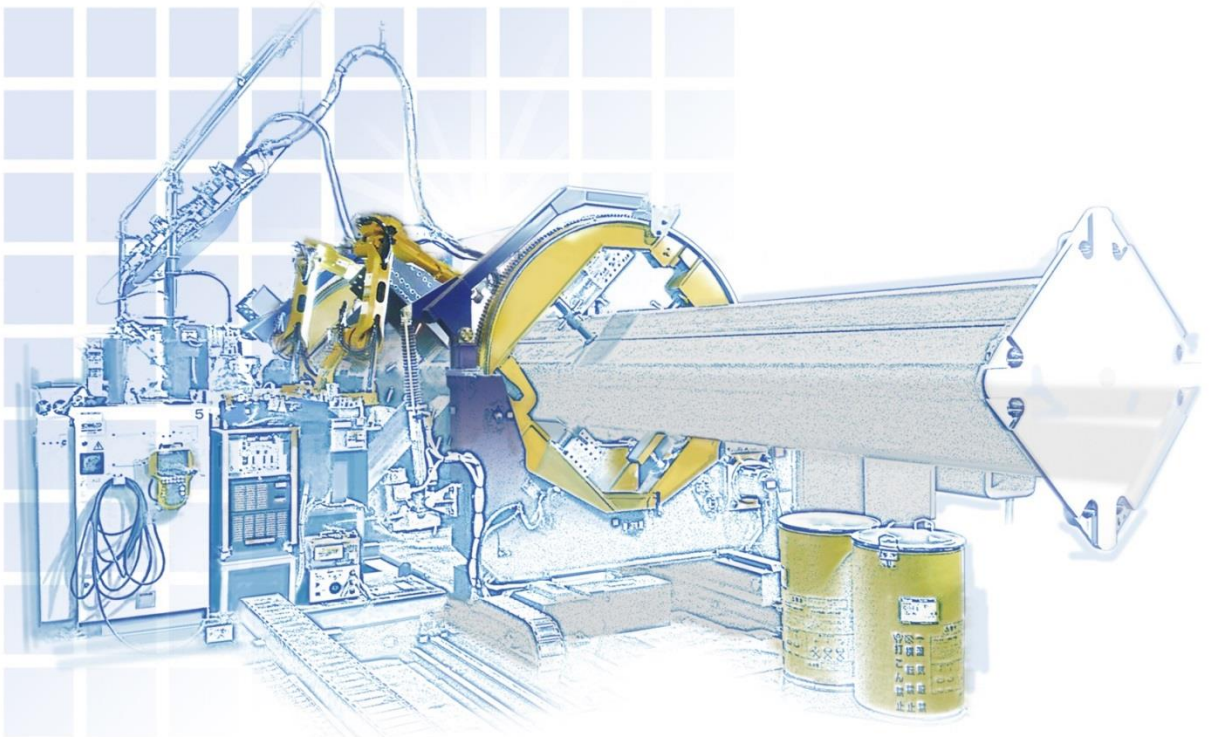
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| Approvals | Available Products |
|-----------|---|
| AWS D1.8 | 0.052" diameter, 44 lbs Spool, 550 lbs Drum |

ARCMAN™ Welding Robot System for structural steel industry



Kobe Steel, the only welding solutions company that develops all of its own Original welding robots, welding power supplies and welding wires aims to be your No.1 partner for structural steel fabrication includes Seismic supplements.

DISCLAIMER

- Information in this material, such as chemical compositions and mechanical properties, is typical or an example for explaining the features and performances of our products, and it does not mean guarantee unless otherwise it is specified.
- Information contained herein is subject to change without notice. Please kindly contact Kobelco for latest information.



WARNING: This product can expose you to chemicals including Nickel and Titanium Dioxide, which are known to the State of California to cause cancer, and Chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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