

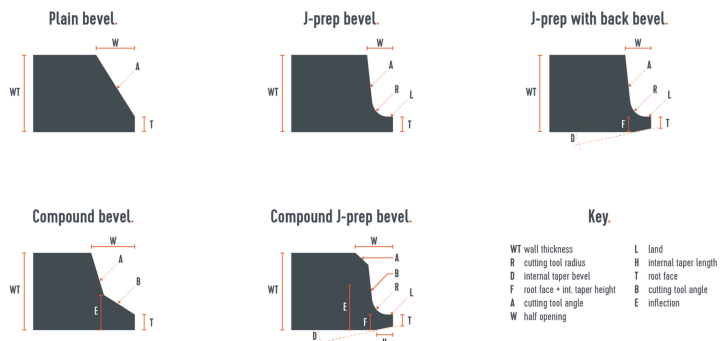
Data sheet



The Bevel360 Mk 2 eliminates doubt about bevel compliance, helping clients achieve better fit-up, improve weld quality and install higher quality pipelines. State-of-the-art laser sensors provide a comprehensive weld profile in c. 20 seconds, allowing welding to proceed efficiently. The updated Mk 2 version was launched in 2023, with several major improvements such as wireless power and compatibility with OMS SmartFit.

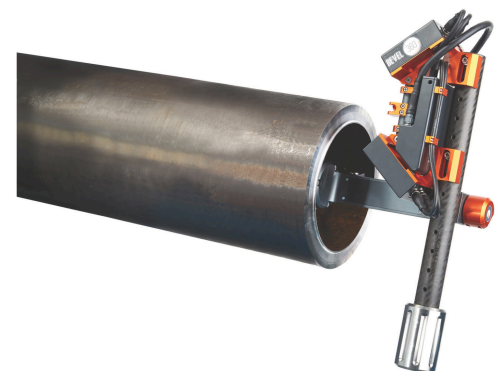
Key features

- Total 360 coverage of the bevel
- Go/no go in less than 25 seconds
- Allows production control of bevel quality
- Pipe sizes from 6" to 32"
- Wall thickness up to 45mm
- Measures most common bevel types



Latest improvements

- Wireless battery driven power
- Compatible with OMS SmartFit
- New laser acquisition head for improved readings on reflective surfaces
- Revised data post-processing algorithms
- Redesigned laser head reduces misalignment issues
- Simplified rotational drive and more robust encoder
- Faster cycle times for productivity



| | | Typical tolerance | Typical range |
|--|------------------------------------|-------------------|---------------|
| Cutting tool angle | A | +/- 1* | 1 - 45° |
| Wall thickness | WT | +/- 0.2 | 15 - 40mm |
| Outside diameter | OD | | 150 - 1000mm |
| Half opening | W | +/- 0.2 | 2 - 20mm |
| Cutting tool radius | R | +/- 0.2 | 2.2 - 3.5mm |
| Land | L | +/- 0.1 | 0 - 1mm |
| Root face | T | +/- 0.3 | 1.4 - 2.2mm |
| Root face + internal taper height | F | +/- 0.5 | 1.4 - 2.2mm |
| Internal taper bevel | D | +/- 1° | 2 - 45° |
| Cutting tool angle | B | +/- 1° | 1 - 45° |
| Inflexion | E | +/- 0.3 | 6 - 30mm |
| Laser measurement data | | | |
| Angular scanning resolution | 0.35° (1024 scans per revolution) | | |
| Axial (to pipe) range | 50mm | | |
| Axial (to pipe) scanning resolution | 0.04mm | | |
| Longitudinal (to pipe) scanning range | 50mm | | |
| Longitudinal (to pipe) scanning resolution | 4µm | | |
| Wavelength | 405nm (visible/blue) | | |
| Maximum optical power | 8 mW | | |
| Sensor classification Class 2M (IIM) IEC 60825-1:2008-05 | Class 2M (IIM) IEC 60825-1:2008-05 | | |
| Dimensions and weight | | | |
| Body diameter | 80mm | | |
| Overall length | 650mm | | |
| Tool weight | <15kg | | |
| Operational data | | | |
| Set-up time (from transport case) | 1 hour | | |
| Site power supply requirements | 110-240 VAC with RCD | | |
| Operational temperature range | 0 - 45°C | | |
| Laptop details | | | |
| Model | Panasonic Toughpad FZ-G1 | | |
| Operating system | Windows 10 | | |
| Weight | 1.3kg | | |
| Verification | | | |
| Onsite verification by certified architect | | | |
| Shipping details | | | |
| Case 1: tool | 101cm x 42cm x 17cm (per case) | | |
| Case 2: control box + umbilicals | 49cm x 39cm x 19cm (7kg) | | |