



**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People

# STEEL PIPE BEND TESTING MACHINE



- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**

## **BPBM-60H**

**DESCRIPTION: -**

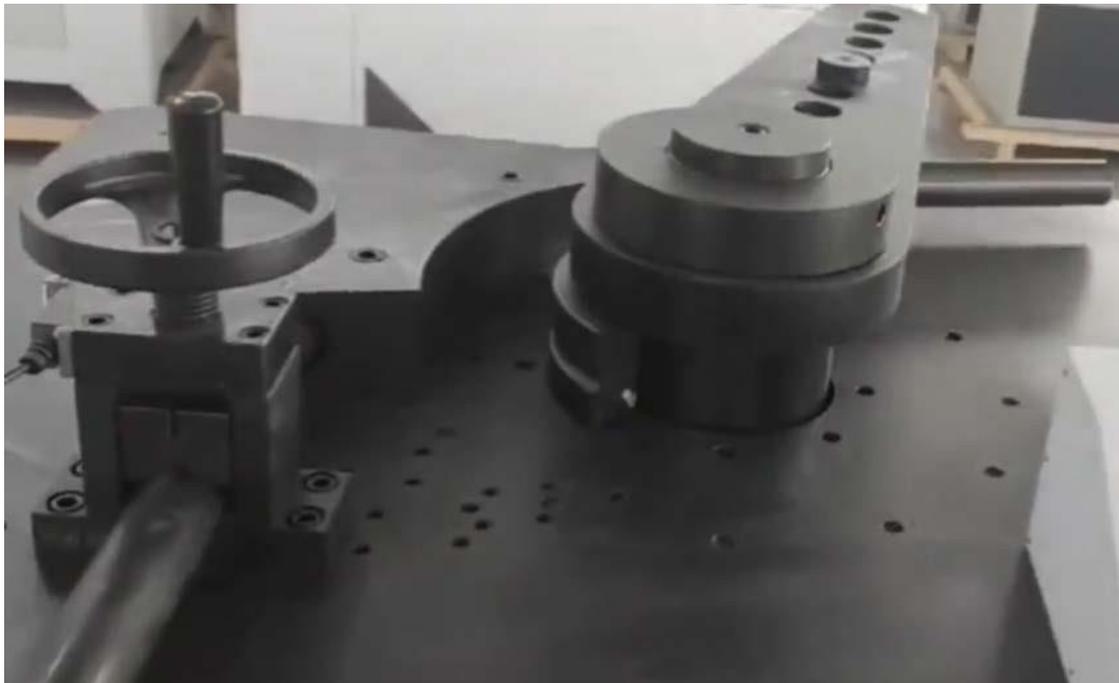
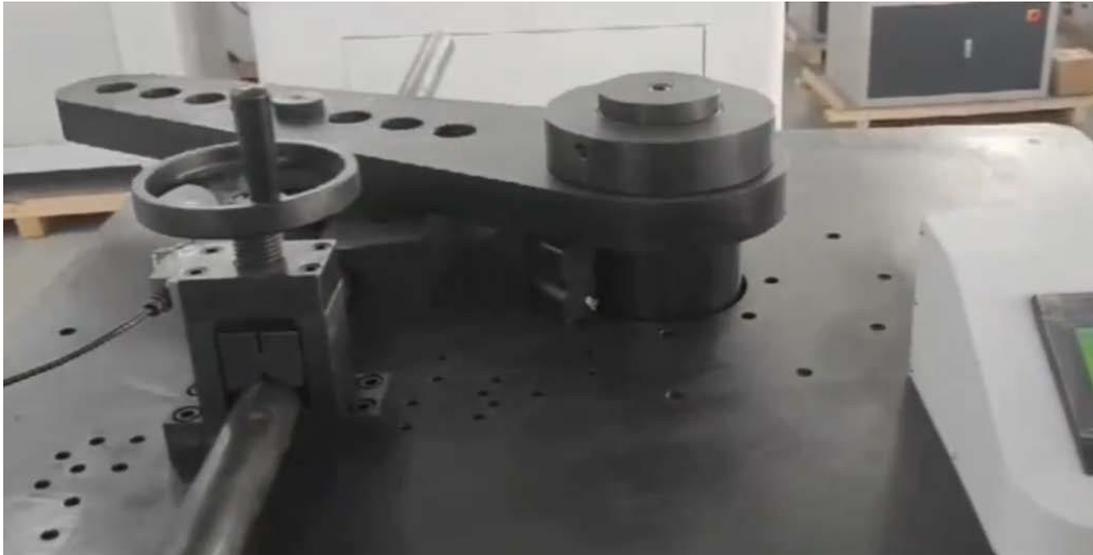
BPBM-60H "Welded (Low Pressure Fluid) Steel Pipe Bending Testing Machine" is a special equipment for plane bending test of metal steel pipe. The equipment is a new product developed according to ISO 8491:1998 "Metal material tube bending test method". It is suitable for metal pipe bending test methods specified in ISO Standards "fluid transportation" (outer diameter not more than 60.3mm ( $\leq \Phi 60.3\text{mm}$ ) welded pipe) standard in chapter 5.5 process performance in the steel pipe bending test, has been unable to complete this test efficiently and standardly, Jinan Puye technical personnel combined with relevant experts and testing units, successfully developed a welding (low pressure fluid) steel pipe special bending testing machine, can efficiently complete ISO 8491:1998 "low pressure fluid transportation with welded steel pipe" Chapter 5.5.1 Process Performance: Steel Tube Bending Test. The product is widely used in inspection units, metal pipe factories and pipeline enterprises to test the bending performance of metal pipes. BPBM-60 welding (low pressure fluid) steel pipe bending testing machine is based on BPBM-40 steel bending testing machine based on the development of products, for different nominal caliber steel pipe specimens only need to replace the corresponding bending sleeve, adjust the bending radius and replace the roller, the equipment accuracy is reliable, easy to use, long service life, is currently the most complete welding (low pressure fluid) steel pipe bending testing machine.

**STANDARD: -**

- ISO 8491:1998 **Metallic materials — Tube (in full section) — Bend test**
- ISO 5173:2023 Destructive tests on welds in metallic materials — Bend tests
- ASTM A370-22 Standard Test Methods and Definitions for Mechanical Testing of Steel Products

**TECHNICAL SPECIFICATION: -**

Model No.	BPBM-60H
<b>Curved steel pipe nominal diameter range (DN)</b>	DN6( $\Phi$ 10.2) ,DN8( $\Phi$ 13.5) ,DN10( $\Phi$ 17.2) ,DN15( $\Phi$ 21.3), DN20( $\Phi$ 26.9) , DN25( $\Phi$ 33.7), DN32( $\Phi$ 42.4),DN40( $\Phi$ 48.3), DN50( $\Phi$ 60.3)
<b>Steel pipe bending angle</b>	0°-90° free setting
<b>Roller operating speed</b>	$\leq$ 1.4 r/min
<b>Bending angle control accuracy</b>	$\pm$ 1.5°
<b>Equipped with bent sleeve radiusR (6 times diameter) for steel pipe</b>	$\Phi$ 21.3mm $\times$ 6 $\approx$ 127.8mm; $\Phi$ 26.9mm $\times$ 6 $\approx$ 161.4mm; $\Phi$ 33.7mm $\times$ 6 $\approx$ 202.2mm; $\Phi$ 42.4mm $\times$ 6 $\approx$ 254.4mm; $\Phi$ 48.3mm $\times$ 6 $\approx$ 289.8mm; $\Phi$ 60.3mm $\times$ 6 $\approx$ 361.8mm <b>Optional: <math>\Phi</math>10.2mm<math>\times</math>6<math>\approx</math>61.2mm ; <math>\Phi</math>13.5mm<math>\times</math>6<math>\approx</math>81mm ; <math>\Phi</math>17.2mm<math>\times</math>6<math>\approx</math>103.2mm ;</b>
<b>Wheel radius</b>	R5、 R6.8、 R8.6、 R10.7、 R13.5、 R16.9、 R21、 R24.2、 R30.2
<b>Test control methods</b>	1. Manual control: the sample bending test is controlled manually, and the bending angle is controlled manually during the bending process;  2. Automatic control: the bending test is automatically controlled by the equipment, the bending angle can be set, the angle is displayed from time to time during the bending process, and it will automatically stop when the Bending angle reaches the set angle.
<b>Motor power</b>	1.5kw
<b>Dimension</b>	970 $\times$ 760 $\times$ 1170mm
<b>weight</b>	700kg





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