



# PBM-4856

## PIPE BENDING MACHINE

- Robust and safe for the operator
- Wide bending range
- PTO available for mandrel feeding
- Wheel or rubber chain
- Equipped with winch for Pipe Handling
- Polyurethane lined bending sets available
- TIER IV engine option available on request



PIPELINE SOLUTIONS



# BASIC MACHINE DATA

## ENGINE

|                    |                    |
|--------------------|--------------------|
| Model              | CAT C7.1           |
| Net Flywheel power | 168 kW             |
| Governed speed     | 2000 rpm           |
| Displacement       | 6 cylinder in-line |

## REFILL CAPACITIES

|                     |      |
|---------------------|------|
| Fuel tank           | 290L |
| Hydraulic oil tanks | 400L |

## HYDRAULIC SYSTEM

|                   |  |
|-------------------|--|
| Maximum oil flow  | 240 liters/min                               |
| Pump pressure max | 250 bar                                      |
| Pump type         | Variable axial piston pump with load-sensing |



### Hydraulic or pneumatic mandrels

In addition to the full range of pipe bending machines, EPE offers pipe bending mandrel to optimize the work of the bending machines in case of light wall thicknesses, avoiding the buckling of the during bending procedures.

We offer manual (up to 14") or hydraulic mandrels with up to two motors in a wide range of sizes which can be easily fed through the dedicated PTO outlet of the bending machine.

## HYDRAULIC CYLINDERS

|                   |    |
|-------------------|----|
| Outboard cylinder | 4x |
| Inboard cylinder  | 4x |
| Wedge cylinder    | 1x |
| Clamp cylinder    | 1x |

## UNDERCARRIAGE

|                               |        |
|-------------------------------|--------|
| Track rollers/carrier rollers | 4/1    |
| Track shoes standard          | 500 mm |

## WINCH

|                            |                           |
|----------------------------|---------------------------|
| Model                      | hydraulic worm gear winch |
| Maximum operating pressure | 200 bar                   |
| Maximum feed flow rate     | 160 lt/min                |
| Rated line pull            | 15000 kg                  |
| Cable lenght               | 20 m                      |
| Cable diameter             | 19 mm                     |
| Maximum Speed              | 10,3 mt/min               |

## AUXILIARIES

|                           |                             |
|---------------------------|-----------------------------|
| Hydraulic PTO for mandrel | quick connect coupling 1/2" |
|---------------------------|-----------------------------|

### Bending sets

EPE bending sets are manufactured with high quality steel, welded and reinforced in high stress areas for maximum strength and resistance. The internal surface is finished with tooling machines to guarantee the required accuracy and can also be proposed with Polyurethane lining upon request Bending sets are compatible with bending machines by other manufacturer



### ENGINE

Caterpillar or Yanmar diesel engines are selected as the best fitting solution according to the size of the equipment all of them including integrated filtration system, and self-stretching fan towing seals.



### OPERATOR'S PLATFORM

The position of the control platform makes EPE bending machine unique in terms of operating comfort and guarantees maximum visibility and low noise levels to the operator.

# BENDING DATA

Maximum tickness bended in function of steel type - All data are expressed for *inch/mm*

| Pipe Size | X52        | X60        | X70        | X80        | X100       | Radius (feet/meter) | Max.Degree* |
|-----------|------------|------------|------------|------------|------------|---------------------|-------------|
| 48/xxx    | 2/50.80    | 2/50.80    | 1.72/43.71 | 1.48/37.67 | 1.35/34.32 | 115/35.1            | 11.96       |
| 50/xxx    | 2/50.80    | 1.86/47.17 | 1.56/39.73 | 1.35/34.32 | 1.24/31.42 | 115/35.1            | 11.96       |
| 52/xxx    | 2/50.80    | 1.69/43.03 | 1.43/36.30 | 1.24/31.42 | 1.14/28.91 | 115/35.1            | 11.96       |
| 54/xxx    | 1.82/46.18 | 1.55/39.42 | 1.31/33.35 | 1.14/28.91 | 1.05/26.67 | 115/35.1            | 11.96       |
| 56/xxx    | 1.67/42.44 | 1.43/36.30 | 1.21/30.76 | 1.05/26.67 | 0.97/24.71 | 115/35.1            | 11.96       |

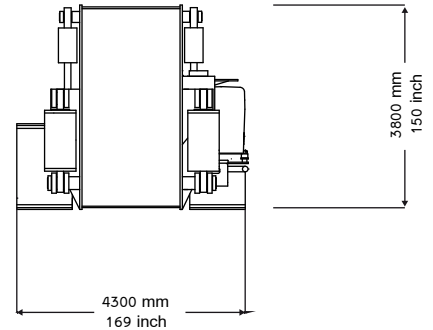
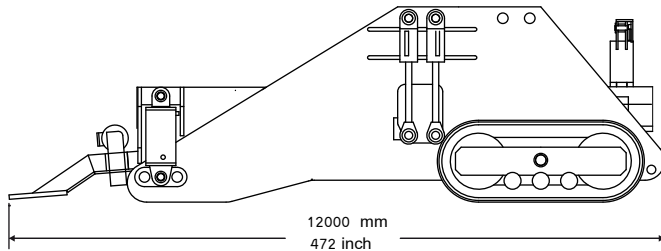
\* per 40 feet/12 meter joint



## OPTIONS

- **Bend Angle Measurement Device:** consists of three components: two of them placed at both pipe ends and the remote control is hold by the operator. Working temperature -40°C to 50°C. Device precision 1/50 grades.
- **Integrated Closed Cabin:** Upon request the bending machine can be equipped with a heated/conditioned cabin for operator.

# DIMENSIONS AND WEIGHTS



## DIMENSIONS

|                     |          |
|---------------------|----------|
| Overall length      | 12000 mm |
| Width               | 3800 mm  |
| Height over exhaust | 4200 mm  |

## TRANSPORT DIMENSIONS

|                     |          |
|---------------------|----------|
| Overall length      | 12000 mm |
| Width               | 3800 mm  |
| Height over exhaust | 4200 mm  |

## WEIGHTS

|                  |          |             |
|------------------|----------|-------------|
| Operating weight | 70000 kg | 155.555 lbs |
|------------------|----------|-------------|



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