

# Pipe Bender

## Challenger 6-20



### Standard Equipment

- Cat model 3054 diesel engine—62 HP @ 2,000 rpm.
- Rubber tires—11.00 X 165L.
- Removable steel liner which can be replaced with a urethane liner for 20" pipe size.
- Additional valve for hydraulic mandrel operation.

### Optional Equipment

- Duetz diesel engine or Wisconsin gas engine.
- Extendible towing tongue (for use with extended stiff-back).
- Quincy 325-60 gallon tank hydraulically powered air compressor.
- In-line hydraulic filter with replacement cartridge.
- Track Type undercarriage.

### Dimensions

<b>Length</b>	<b>13' 4"</b>	<b>4.064 m</b>
<b>Width</b>	<b>6' 4"</b>	<b>1.930 m</b>
<b>Height</b>	<b>8' 10"</b>	<b>2.692 m</b>
<b>Weight</b>	<b>9,750 lbs.</b>	<b>4.424 kg</b>
<b>Cubic Volume</b>	<b>746 cu. ft.</b>	<b>21.1 cu. m</b>

The Challenger 6-20 Pipe Bending Machine is designed to bend steel pipe of various wall thickness and alloys. It is manufactured with the highest quality products to provide endurance in the most adverse environmental conditions. The bending force is provided through the use of four (4) hydraulic cylinders, two of which operate the stiffback and two which operate the pin-up. The operator controls are located on the front of the machine above the control stand. It is equipped with a lifting tongue for ease in relocating the machine as the bending process moves down the right-of-way.

### Operational Specifications

#### Hydraulic Pump

- **Flow Ratings** -12 gpm to 60 gpm @ 1,200 RPM single unit.  
(45 LPM to 227 LPM @ 1,200 RPM single unit).  
-17 gpm to 98 gpm @ 1,200 RPM tandem units.  
(64 LPM to 371 LPM @ 1,200 RPM tandem units).
- **Operating speeds** To 2,700 RPM
- **Operating pressure** To 3,000 psi continuous
- **Operating Temperature Range** -40°F to 185°F (-40C to 85°C)

#### Winch

- Hydraulic with free spool
- Complies with SAE J706

### Average Bend (All figures may vary)

Pipe O.D.	Degree per ARC Foot
20"	.83
18"	1.10
16"	1.51
14"	1.70
12"	2.30
10"	2.86
8"	3.82
6"	4.41