

**Key features:**

Centurion range's superior bending properties

68% increased travel speeds

39% greater bending force

**Application:**

Performs the bending of welded pipe between the dimensions of 16-30" in diameter

## Centurion Pipe Bending Machine 16-30"

### Unmatched strength when handling the sturdiest of pipes

The Centurion Pipe Bending Machine for 16" – 30" pipes offers the expected resilience and strength you'd expect from the CRC Evans Centurion range. Thanks to the re-engineered frame increasing its bending capacity, it makes short work of all heavy-walled high-yield pipes making for easier days in the field.

The new diesel engine is designed for challenging environments. The cover on the engine provides reduction in noise and the engine support contains a diesel fuel tank and batteries for ease of access. With a new hydraulic system providing a larger hydraulic tank whilst operating a new valve system allows convenient lever control of all hydraulic functions, whilst you are safely positioned at the operator's platform.

The engine and air compressor platforms are side mounted offering a lower centre of gravity and great stability. Air compressors are optional. The stiff back and tongue also allow for mandrel storage.

All equipment is designed in-house to your specifications and adhered to the quality management system certified to internationally recognised ISO 9001:2008 standard as well as CRC Evans own quality policy. There's nothing you'd trust more than this machine.

**Optional Mandrel operation:**

Pneumatic Mandrel with 3 section valve

Hydraulic Wedge Mandrel with 5 section valve

Note: optional two stage pump available

ENGINE		Units
Mfg	CAT-Perkins	
Model	1144PT	
Net Power	100/74.5	hp/kW
Speed	2,200	rpm
N° of Cylinders	4	
Bore x Stroke	4.1x5.0/105x127	inch/mm
Displacement	269/4.4	cu.inch/l
Fuel Tank Capacity	80/302	gal/l

HYDRAULIC		Units
Pump Type	Fixed Volume	
Maximum Flow	41/155	gpm/lpm
Operating Pressure	3,000/207	psi/Bar
Valve Type	Manual	
No. Sections	3 or 5	
Relief Valves	5 + 1 Total System Relief	
Filtration	10 Micron	
Hyrd. Tank	60/227	gal/l

HYDR. MANDREL CONNECTIONS		
Qty.	4	
Size	3/4"	

DIMENSIONS		Units
Length	267.6/6.80	inch/meter
Width	100.1/2.54	inch/meter
Height	87.8/2.23*	inch/meter

HYDRAULIC		Units
Outboard		
Bore	10/254	inch/mm
Stroke	19.25/489	inch/mm
Qty.	2	
Inboard		
Bore	7/179	inch/mm
Stroke	5/127	inch/mm
Qty.	2	
Pin Up		
Bore	6/152	inch/mm
Stroke	23/584	inch/mm
Qty.	1	

WINCH		Units
Type	Planetary	
Drive	Hydraulic	
Pulling Force	15,000/66	Lbf/kN
Cable Diamter	0.563/14	inch/mm

ELECTRICAL		Units
Voltage	12	VDC
No. Batteries	1	
Total Rating	190	Amp Hr @ 20 F
Alternator	75	Amp
Starter	3	kW

UNDERCARRIAGE		
Type	Track	15 ton

WEIGHT		Units
Shipping	28,730/13,029	lb/kg
Operating	29,730/13,483	lb/kg

# Centurion Pipe Bending Machine 16-30"

Nominal Pipe OD	Maximum Wall Thickness by Grade	Recommended Bend							
mm	X52	X60	X65	X70	X80	x100	Degree Arc (per meter)	Radius (meters)	Max degree per 12 meter joint
406	-	-	-	-	-	-	4.90	11.58	42.22
457	-	-	-	-	-	-	3.60	15.85	30.85
508	-	-	-	-	-	41.02	2.90	19.51	25.07
559	-	-	-	48.62	42.22	33.39	2.60	21.95	22.28
610	-	47.37	43.54	40.27	35.00	27.73	2.50	23.16	21.11
660	46.33	39.86	36.65	33.92	29.52	23.43	2.30	24.99	19.56
711	39.50	34.02	31.31	28.99	25.25	20.07	2.10	26.82	18.23
762	34.11	29.41	27.07	25.08	21.86	17.40	2.00	29.26	16.71

\* 406mm - 762mm (CENTURION) PIPE BENDING DATA - ALL DIMENSIONS IN MILLIMETERS.

\*\* Based on 85% efficiency and maximum strength.

Nominal Pipe OD	Maximum Wall Thickness by Grade	Recommended Bend							
inch	X52	X60	X65	X70	X80	x100	Degree Arc (per foot)	Radius (feet)	Max degree per 40 footjoint
16	-	-	-	-	-	-	1.51	38.00	42.22
18	-	-	-	-	-	-	1.10	52.00	30.85
20	-	-	-	-	-	1.615	0.90	64.00	25.07
22	-	-	-	1.914	1.662	1.314	0.80	72.00	22.28
24	-	1.865	1.714	1.585	1.378	1.092	0.75	76.00	21.11
26	1.824	1.569	1.443	1.335	1.162	0.922	0.70	82.00	19.56
28	1.555	1.340	1.233	1.141	0.994	0.790	0.65	88.00	18.23
30	1.343	1.158	1.066	0.987	0.861	0.685	0.60	96.00	16.71

\* 16" - 30" (CENTURION) PIPE BENDING DATA - ALL DIMENSIONS IN INCHES.

\*\* Based on 85% efficiency and maximum strength.