



#### Key features:

Powerful, fast performances

Simplistic design and use

Double angle hardened steel wedges allow powerful locking action

Can be used powered and unpowered

#### Application:

Assists the Pipe Bending Machine with pipes diameters 10-20" or 20-36" to provide smooth bends and little-to-no distortion.

## Pneumatic Wedge Mandrel [PWM]

### Bend any heavy-walled, high-yield grade pipes from 10-20" or 20-36" with flexibility and confidence

The Pneumatic Wedge Mandrel can handle the demanding bending requirements of heavy-wall and high-yield grade pipes from 10" to 20", with powered units extending the range from 20" to 36". Designed in part with the CRC-Evans high-productivity bending system, the wedge provides radial support to the inner walls of the pipe whilst maintaining great flexibility with lengthy bends.

When the Pneumatic Wedge Mandrel is unpowered it can be used manually for pipes 10" to 20" in diameter to perform a bend. The wedge is administered and controlled within the pipe by a reach rod, this is used to physically pull the wedge to its' next bend. The process is made smooth by travel wheels which are raised from the pipe wall when the wedge is expanded, allowing it to be effectively pulled. These wheels are pivotally mounted to allow self-levelling of the wedge in the pipe.

Powered – the Pneumatic Wedge Mandrel extends its' range allowing for use in pipe diameters 20" to 36". The powered wedge travels through the pipe for the next bend under its' own power.

The Pneumatic Wedge Mandrel requires compressed air at 200 psi (12.2 – 13.6 bar), with the maximum safe working pressure being 210 psi (15.3 bar). This is provided with the compressor supplied with the mandrel, however a standard CRC-Evans Air Compressor may also be used.

# Pneumatic Wedge Mandrel [PWM]

Model No.	Pipe Size		Length		Width		Height		Cube		Weight	
	inches	mm	inches	mm	inches	mm	inches	mm	ft3	m3	lb	kg
PWM 10-12	10	254	85	2,160	9	229	12	305	5.3	0.15	400	180
	12	305	85	2,160	9	229	12	305	5.3	0.15	400	180
PWM 14-16	14	356	95	2,413	10	254	14	356	7.7	0.22	600	270
	16	406	95	2,413	10	254	14	356	7.7	0.22	600	270
PWM 18-20	18	457	93	2,362	13	330	20	508	14	0.4	1,000	450
	20	508	93	2,362	13	330	20	508	14	0.4	1,000	450

Model No.	Pipe Size		Length		Width		Height		Cube		Weight	
	inches	mm	inches	mm	inches	mm	inches	mm	ft3	m3	lb	kg
PWM 12	12	305	95	2,413	10	254	12	305	6.6	0.19	400	180
PWM 14-16	14	356	95	2,413	11	279	14	356	8.5	0.24	575	261
	16	406	95	2,413	13	330	16	406	11.4	0.32	600	273
PWM 18-20	18	457	100	2,540	15	381	18	457	15.6	0.44	814	370
	20	508	100	2,540	17	432	20	508	19.7	0.56	814	370
PWM 24-26	24	610	93	2,362	22	559	24	610	28.4	0.80	2,100	955
	26	660	93	2,362	22	559	26	660	30.8	0.87	2,100	955
PWM 28-30	28	711	93	2,362	24	610	28	711	36.2	1.02	2,257	1,026
	30	762	93	2,362	24	610	30	762	38.8	1.10	2,257	1,026
PWM 32	32	813	93	2,362	25	635	32	813	43.1	1.22	2,500	1,136
PWM 34-36	34	864	116	2,946	33	838	34	864	75.3	2.13	3,600	1,636
	36	914	116	2,946	33	838	36	914	79.8	2.26	3,600	1,636
PWM 40-42	40	1,016	126	3,200	37	940	40	1,016	107.9	3.06	5,330	2,423
	42	1,067	126	3,200	37	940	42	1,067	113.3	3.21	5,330	2,423

\* Footnote

\*\* Footnote