



Pneumatic Wedge Mandrel [PWM]

The Pneumatic Wedge Type Mandrel was developed specifically to meet the bending requirements of heavy-wall and high-yield grade pipe.

Part of CRC-Evans' High-Productivity Bending System, the PWM applies powerful radial support to the inner walls, yet remains flexible lengthwise to bend with the pipe. It is positioned and controlled manually within the pipe by a reach rod. It is particularly successful in providing a smooth bend with no 'out-of-round'.

- Wedge technology delivers powerful, fast performance
- Simple design and few parts result in low maintenance cost
- Travel wheels raise from the pipe wall when the mandrel is expanded
- A 'Powered' PWM travels through the pipe for the next bend under its own power; a 'Non-Powered' PWM is pulled to the next bend (manually)
- The travel wheels are pivotally mounted to provide self-leveling of the mandrel in the pipe
- Double angle hardened steel wedges provide fast approach and powerful locking action
- Wedges will accommodate several wall thicknesses without changing shims

- PWMs require compressed air at 200 psi (12.2 - 13.6 bar); maximum safe working pressure is 210 psi (15.3 bar). This normally is provided by the compressor supplied with the mandrel. If not supplied, a standard CRC-Evans Air Compressor may be used.
- Non-powered units for pipe sizes from 10" to 20" (254mm to 508mm)
- Powered units for pipe sizes from 20" to 36" (508mm to 914mm)



Pneumatic Wedge Mandrel [Non-Powered]

Model No.	Pipe Size		Length		Width		Height		Cube		Weight	
	inches	mm	inches	mm	inches	mm	inches	mm	ft ³	m ³	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

Pneumatic Wedge Mandrel [Powered]

Model No.	Pipe Size		Length		Width		Height		Cube		Weight	
	inches	mm	inches	mm	inches	mm	inches	mm	ft ³	m ³	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



! Disclaimer

Although great care has been taken in compiling the information contained in this catalogue, CRC-Evans does not accept responsibility for the consequences of any errors, nor for the effects of any subsequent changes made by the various sources of data.

Dimensions and weights provided for reference only. Dimensions, specifications and weights can vary depending upon final configuration of the equipment. Please contact CRC-Evans to confirm final weights and dimensions prior to shipment.



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