



MASS FINISHING ROTATING BARRELS

Applications

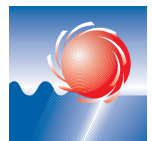
Rotating barrels generate an extremely gentle finishing process with an even surface finish and finely radiused edges. Rotating barrels offer in many instances technically and economically optimum solutions, especially for processing of small parts in small to mid-size batches. Trowal barrels are also ideal machines for surface smoothing and even polishing.

Functional principle

The double cone octagonal shape of the rotating barrel generates a three-fold sliding movement of the media/parts mass. At rotational speeds of 9 - 30 rpm the relative movement between parts and media is extremely gentle and, thus – with relatively long processing times - produces an excellent surface finish. Manual loading of parts and media. For easy unloading of the finished batch the barrel is electro-mechanically tilted downwards.



Deburring



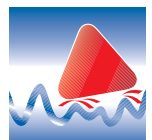
Ball burnishing



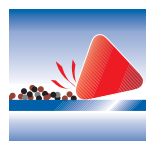
Radiusing



Degreasing



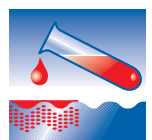
Surface smoothing



Surface cleaning



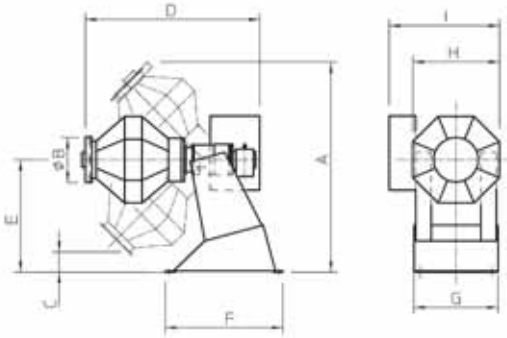
Surface polishing



Pickling, descaling



Barrel



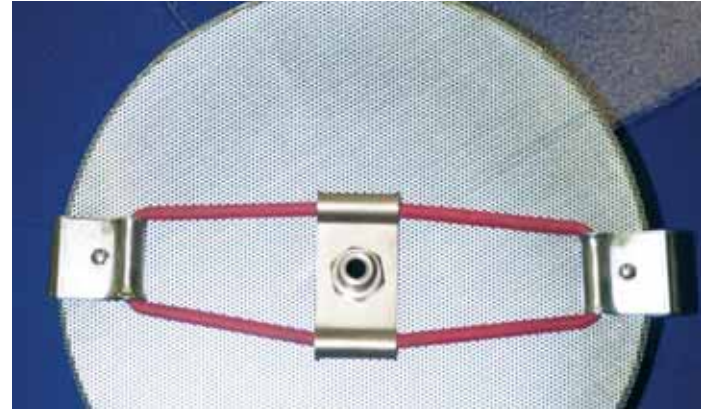
		A 65	A 110	A 150	A 220
Usable volume	(L)*	30	50	70	100
Lining thickness	(mm)	8	8	8	8
Power	(kW)	1,1	1,1	1,1	2,2
Rotational speeds	(rpm)	9, 12, 15, 18, 24, 30			0-65
Weight	(kg)	330	340	355	410
Workpiece dimension*	(mm)**	120	200	200	250

* Ratio of components to media normally 1:3, i.e. 1 part components and 3 parts of media

** Parts size limited by barrel opening. Rotary barrels are mainly used for gentle processing of small parts

	A 65	A 110	A 150	A 220
A	1500	1590	1640	1708
B	230	275	275	360
C	285	190	140	104
D	1365	1470	1540	1540
E	910	910	910	916
F	920	920	920	950
G	678	678	678	678
H	550	650	700	800
I	893	893	904	1025

Dimensions (in mm)



Screening lid

Technical characteristics

- Barrel drive: Double speed motor with 3-stage V-belt and toothed gear drive
- Barrel: Double cone octagonal welding construction • Verschleißauskleidung aus hochverschleißfestem Gummi oder PU
- Wear protection: Barrel lined with wear resistant rubber or polyurethane
- Tightly fitting safety lid made from polyurethane

Tilting system

- Automatic tilting of the rotating barrel by way of gear motor and spindle drive allows easy loading/unloading of the barrel
This feature helps reduce nonproductive loading/unloading times, especially in the case of multi-barrel installations and short cycle times

Optional features

- Rinsing station: Barrel lid with quick-connect fasteners, nipple and rotating WALTHER coupling
- Adjustable rotating barrel speed by way of frequency converter

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