

TROWAL SURFACE FINISHING CONTINUOUS FEED VIBRATORS MODEL RANGE MC

Continuous flow deburring

Trowal circular (spiral) continuous flow vibrators, type **MC**, have been specifically designed for continuous loading and processing of the parts to be finished.

For delicate components!

MC machines are mainly utilized for light deburring and degreasing of small to midsize, delicate components. The processing channel length of up to 25 m permits high travel speeds through the machine so that the work pieces cannot impinge on each other even at a high infeed rate. This helps prevent damage of the work pieces during the finishing process.

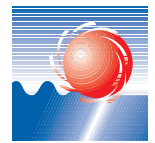
Advantages

Continuous surface finishing with a continuous flow of parts offers many advantages compared to batch processing:

- Easy integration of the surface finishing process into **continuous manufacturing systems**.
- Easy, cost-effective **automation** of the surface finishing process.
- Lower cost for **material handling**, because the parts do not have to be collected in batches.



Deburring



Ball burnishing



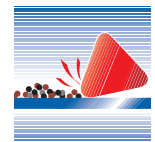
RADIUSING



Degreasing



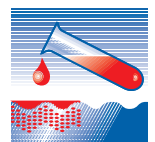
Surface smoothing



Surface cleaning



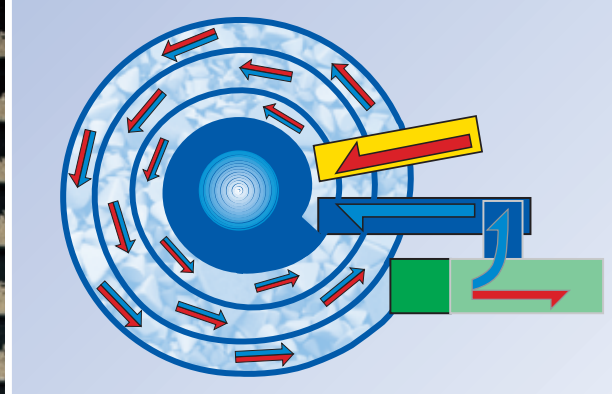
Surface polishing



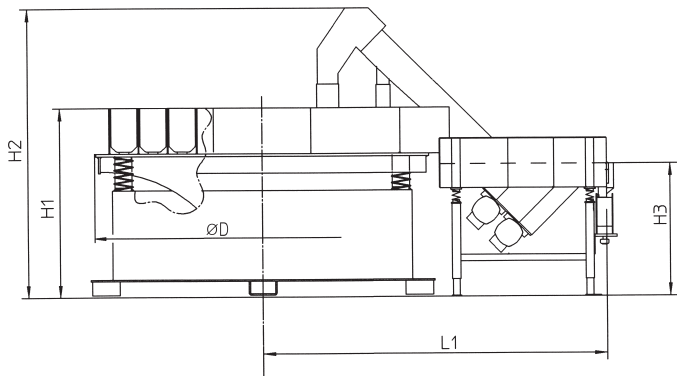
Pickling, descaling



Screening machine



Red arrow = parts flow through the MC
Blue arrow = parts recirculation in the MC



	MC 9/100	MC 13/156	MC 15/190	MC 25/190	MC 25/210	MC 14/350
Gross volume (l)	90	335	540	900	1100	1720
Standard media quantity (l)	80	302	485	810	990	1550
Length of processing channel (mm)	9000	13000	15000	25000	25000	14000
Width of processing channel (mm)	100	156	190	190	210	350
Processing time (min.)	5 - 12	12 - 15	12 - 15	15 - 30	15 - 30	8 - 12
Screen area (m ²)	0,30	0,42	0,42	0,42	0,42	0,88
Standard version						
Power of main drive (kw)	2,6	4,0	7,0	11,0	11,0	11,0
Max. centrifugal force (N)	45660	110920	134460	298940	298940	298940
Speed max. (rpm)	1700	1700	1700	1300	1300	1300
Ball burnishing version						
Power of main drive (kw)	4,0	7,0	11,0	-	-	-
Max. centrifugal force (N)	45660	110920	150000,0	-	-	-
Speed max. (rpm)	2000	1800	1800,0	-	-	-

Dimensions (in mm)	H1	H2	H3	L1	Ø D
MC 9/100	1.220	1.855	830	2.095	1.680
MC 13/156	1.325	1.920	1.000	2.280	2.080
MC 14/350	1.640	2.360	1.000	3.900	3.300
MC 15/190	1.360	2.090	950	2.470	2.400
MC 25/190	1.390	2.110	1.000	3.150	3.300
MC 25/210	1.390	2.110	1.000	3.150	3.300

Little space required

- The work bowl with spiral processing channel allows installation in tight spaces.
- No special foundation required.

Robust vibratory drive

High-performance vibratory flange motor. **Lifetime lubricated** (except MC 25/190 and MC 14/350).

Control of processing time

- The infinitely adjustable frequency of the vibratory motor and the variable setting of the imbalance weights permit an exact setting of the processing time.
- Compared to machines with integrated separation system the **external screening machine** offers the advantage to set the imbalance weights of the **MC vibrator** completely independent from the separation speeds.

Use of steel media

MC machines can also be operated with **steel media** for pressure deburring and ball burnishing.

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