



## 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.

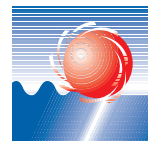
### Advantages

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



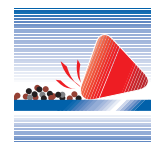
Radiusing



Degreasing



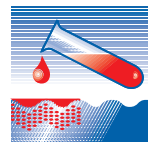
Surface smoothing



Surface cleaning



Surface polishing



Pickling, descaling

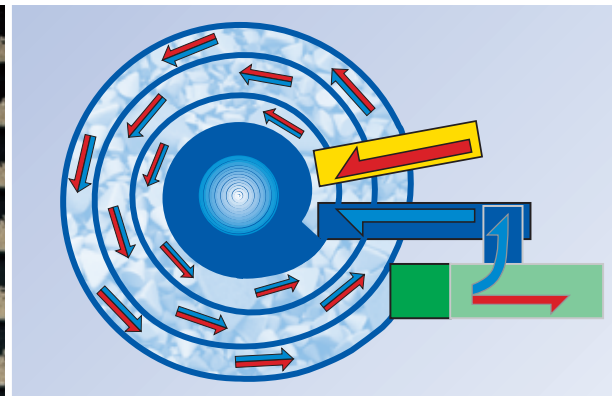
# MASS FINISHING • SHOT BLASTING

## COATING OF SMALL PARTS • EFFLUENT TREATMENT

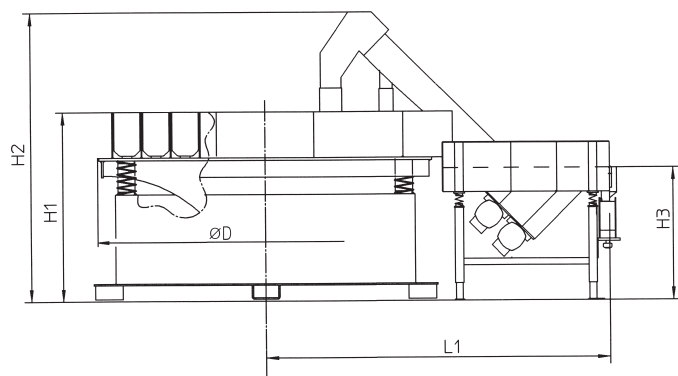
# WALTHER TROWAL!



Screening machine



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



### 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.

|                              |        | 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                  | (m²)   | 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 |

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