



Continuous Feed Vibrators AV

TROWAL SURFACE FINISHING CONTINUOUS FEED VIBRATORS - MODEL RANGE AV

Continuous flow deburring

Trowal linear continuous flow vibrators, type AV, have been specifically designed for continuous loading and processing of the parts to be finished.

AV vibrators consist of a trough-type, rectangular work bowl. They are especially used for

- processing of robust mass produced parts of small and medium size (stampings, die-castings, etc.)
- deburring and grinding of mid- and large-size components (engine and pump housings, oil pans, cylinder head covers...)

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



Multi-Vib vibratory drive

- The newly developed “Multivib” drive ensures equally intensive processing over the complete work bowl length without any “dead zones”!
- The Multi-Vib drive allows the use of steel media for pressure deburring and ball burnishing.
- No central lubrication required. Vibratory units are lifetime lubricated.

	H1	H2	H3	B1	B2	B3	L1	L2	D
AV 345x41	1700	2700	990	340	540	1600	3450	7400	410
AV 515x41	1700	2700	990	340	540	1600	5150	9100	410
AV 685x41	1700	2700	1010	340	540	1600	6850	10800	410
AV 515x55	1955	2950	1035	450	640	1800	5150	9575	550
AV 685x55	1955	2950	1035	450	640	1800	6850	11275	550
AV 515x65	2100	3100	1035	520	740	1930	5150	9700	650
AV 685x65	2100	3100	1035	520	740	1930	6850	11400	650

Dimensions (in mm)

AV	345x41	515x41	685x41	515x55	685x55	515x65	685x65
Standard media quantity (l)	420	612	814	1100	1465	1565	2080
Processing time* (min.)	6-15	10-20	15-25	10-20	15-25	10-20	15-25
Lining of work bowl	Polyurethane						
Screen area (m²)	1,19	1,19	1,19	1,66	1,66	1,92	1,92
Power of main drive (kW)	7,5	11	15	15	15	15	18,5
Max. centrifugal force (N)	72000	110000	146000	152000	202000	168000	224000
Speed max (rpm)**	1460	1460	1460	1460	1460	1460	1460

* Depends on process parameters

** Infinitely up to maximum speed via frequency converter

Independent discharge chute with separate vibratory drive

- Contrary to conventional discharge chutes, the discharge vibrator has no incline and therefore, ensures low dropping heights to the screening machine.
- Simple change to batch processing with infinite processing time by switching off the discharge vibrator.
- The frequency setting of the discharge vibrator controls the processing time: Actual processing times vary from 4 – 25 minutes!
- The work bowl remains in horizontal position. This ensures an even media level throughout the whole work bowl length. No “thinning out” of the media at the work bowl exit.

