



HIGH FREQUENCY VIBRATORY MACHINES

What is V-Max®:

The **Hammond Roto-Finish V-Max®** series vibratory finishing machines are a new development in vibratory mass finishing.

The V-Max® machine is based on the design of the “HR” machines built by Hammond Roto-Finish. The main component of the HR bowl is the certified pressure vessel that forms the bottom of the bowl, with the completed weldment the bowl structure is a “dome”. The weldment design and vibratory drive design allow the V-Max® bowl to operate at speeds no other vibratory bowl can match.

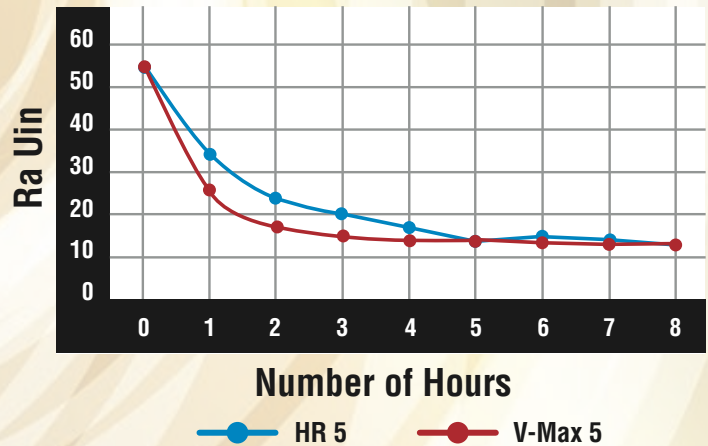
HOW IT WORKS:

The design of the bowl and drive in conventional machines create “bounce” within the media that translates into air time between the media and part.

In the redesigned V-Max®, the force of the machine is more directly applied to the media, putting more energy into the roll of the media. The roll, visually apparent while the machine is running, creates a dramatically increased media-on-part contact time. This is demonstrated in the amplitude difference of the machines.

The increased contact time, along with the increased force of the higher RPM, is the cause of the reduced cycle time.

Up to 50% Cycle Time Reduction over conventional vibratory machines!

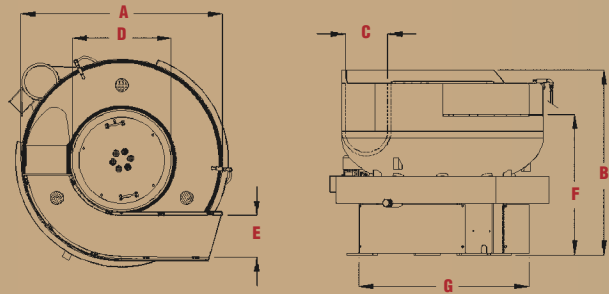


This graph is for an 8 hour steel part in ceramic media test. The 50% reduction in cycle time is consistent in other tests.

Product Line	RPM	Amplitude	Variable Frequency Drive	Colors
HR	1200 - 1350	2-6 MM	No	Adobe Bowl Black Base
V-Max®	1800 - 2200	1-3 MM	Yes	Cream Bowl Black Base

V-MAX® SERIES

Specifications



MODEL	Total Capacity L (cu.ft.)	Max Working Capacity L (cu.ft.)	A Overall Diameter mm (in.)	B Overall Height mm (in.)	C Process Channel Width mm (in.)	D Center Column Diameter mm (in.)	E Screen Deck Width mm (in.)	F Screen Deck Height mm (in.)	G Base Diameter mm (in.)	Drain Sizes mm (in.) /# of Drains	Motor Horse Power kw (HP)	460 Volts Amp Load	230 Volts Amp Load	Aprox Shipping Weight kg (lbs.)
VMAX-5 SL CL	300 (10.71)	150 (5)	1236 (48.7)	1181 (46.5)	259 (10.2)	660 (26)	203 (8)	873 (39)	1193 (47)	101.6 (4) / 3	2.2 (3)	7.8	12.6	1360.8 (3,000)
VMAX-11 SL CL	601 (20.4)	300 (10)	1555 (61.25)	1320 (52)	317 (12.5)	850 (33.5)	279 (11)	1066 (42)	1448 (57)	101.6 (4) / 3	5.6 (7.5)	14	25	2267.9 (5,000)
VMAX-17 SPT	990 (33.1)	381 (15)	1178 (70)	1346 (53)	381 (15)	965 (38)	330 (13)	1016 (40)	1702 (67)	101.6 (4) / 3	7.5 (10)	17	31	2494.7 (5,500)
VMAX-17 CPT	990 (33.1)	340 (12)	1178 (70)	1346 (53)	381 (15)	965 (38)	330 (13)	1016 (40)	1702 (67)	101.6 (4) / 3	7.5 (10)	17	31	2492.7 (5,500)
VMAX-29 SPT CPT	1699 (60.0)	780 (26)	2032 (80)	1619 (63.75)	508 (20)	965 (38)	432 (20)	1245 (49)	1676 (66)	101.6 (4) / 3	7.5 (10)	17	31	2993.7 (6,600)

V-MAX 5 SLT/CLT

- Semi-Automatic Control Panel
- Water Driven Compound System
- Digital Process Timer
- Manual Lever Gate
- Grease Drive System
- Internal Stainless Wrap Screen

V-MAX 11 SPT/CPT (& Larger)

- Semi-Automatic Control Panel
- Water Driven Compound System
- Digital Process Timer
- Pneumatic Gate
- Recirculating Oil Lube Drive System
- Internal Stainless Wrap Screen

Abbreviation Key

- SL - Straight Wall, Lever
- CL - Curved Wall, Lever
- SLT - Straight Wall, Timer
- CLT - Curved Wall, Timer
- SPT - Straight Wall, Pneumatic Gate, Timer
- CPT - Curved Wall, Pneumatic Gate, Timer

