Roto Max®

Hammond ROTO FINISH

CENTRIFUGAL FINISHING MACHINES

RM-1

The **Roto-Max®** line are a series of centrifugal energy machines. The machine functions with a rotating disc or spinner in the bottom of the finishing chamber, and a stationary wall that the rotating disc meets with a precision gap.

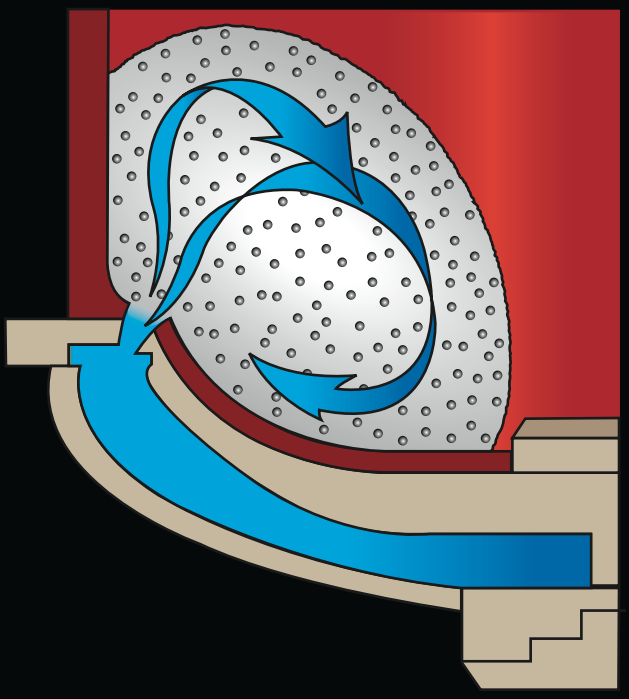
The part and media mix is pushed outward on the rotating disc to the stationary sidewall. As the media is pushed, pressure builds and pushes the media and parts upward on the sidewall until the media falls back to the center of the rotating disc in a cyclonic action. This smooth and continuous motion produces an energy level up to 15 times greater than normal vibratory finishing systems.

Roto-Max® utilizes an Up-Flow® compound and water system which cools the gap between the disc and the wear-ring or sidewall moving abrasive debris upward and out of the finishing chamber through a sidewall drain.

FEATURES

- **Cycle times up to 15 times faster than vibratory finishing.**
- **Improves surfaces: deburrs, descales, deflashes and burnishes.**
- **Advanced seal design prevents intrusion of smaller parts and media, thus prolonging tub and rotor life.**
- **Processes all types of material -** *Metal, ceramic, plastic and rubber.*
- **Wider range of surface finishes are attainable with a given media.**

Up-Flow® Technology



*The **Roto-Max®** has a unique compound delivery system in the centrifugal disc market. The patented process is called **Up Flow®**. The name is derived from the compound being added to the bowl from under the media, and the resulting waste then exiting through a drain near the top of the media.*

*This **Up Flow®** technology, along with the adjustable seal gap height, greatly lengthen the life of the seal gap over other centrifugal disc machines. The greatest wear to the urethane lining are the particulates that come off the parts and media as it wears. With down flow compound, the particulates are sent through the lining.*

***Up Flow®** technology significantly reduces the wear on the urethane, so can expect to have more 'up time' a with **Roto-Max®** centrifugal disc than other centrifugal disc machines.*

Industries Served

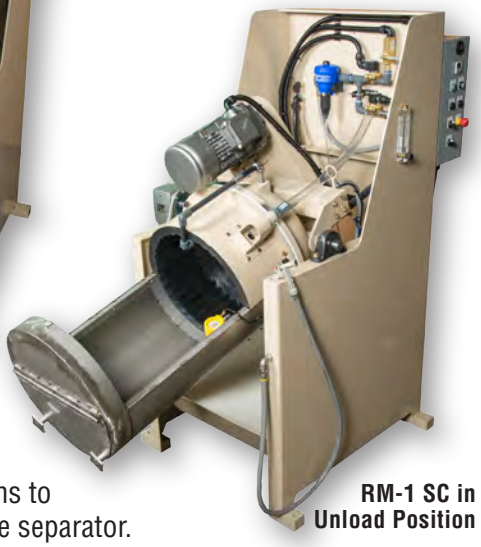
Roto-Max® Centrifugal Disc Machines are used in a wide variety of applications. Because the machine is a high energy machine…it works well with smaller parts with small media structures. Roto-Max® can remove flash from O-ring and other seal material shapes, medical devices and implant components, aerospace alloy materials, firearm components, coins, automotive parts and many more.

CENTRIFUGAL FINISHING MACHINES

RM-1 in
Running Position

RM-1 in
Unload Position

RM-1 SC in
Running Position



RM-1 SC in
Unload Position

Built-in Separation

The RM-1SC is fitted with a separation device which allows the operator to rotate the process chamber downward with an electric driven actuator. This allows media and part separation of larger hand picked parts. When the tub is raised the media load returns to the process chamber. To unload the media, the operator opens the door at the end of the separator.

Abbreviation Key

A - *Automatic*
N - *No Separation*
P - *Power Separation*
SC - *Self Contained Separation (RM-1 Only)*

ROTO-MAX® Specifications

MODEL	Total Capacity L (cu.ft.)	Maximum Working Capacity L (cu.ft.)	Length mm (in.)	Width mm (in.)	Height mm (in.)	Process Bowl Height mm (in.)	Process Bowl 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.)
RM-1 N	56 (1.976)	22 (.75)	1270 (50)	1041 (41)	1549 (61)	1041 (46)	483 (19)	38 (1.5") / 2	2.2 (3)	6	12	454 (1,000)
RM-1 SC	56 (1.976)	22 (.75)	2078 (81.5)	1257 (49.5)	2210 (87)	1468 (57.8)	483 (19)	38 (1.5") / 2	2.2 (3)	6	12	839 (1,850)
RM-1 P	56 (1.976)	22 (.75)	2070 (98.6)	1041 (41)	1549 (61)	1041 (46)	483 (19)	38 (1.5") / 2	2.2 (3)	6	12	1304 (2,875)
RM-1 A	56 (1.976)	22 (.75)	2223 (87.5)	1257 (49.5)	3353 (132)	1524 (60)	483 (19)	38 (1.5") / 2	2.2 (3)	8.6	12	2540 (5,600)
RM-2 N	112 (3.945)	57 (2)	1422 (56)	1422 (56)	1626 (64)	1626 (64)	648 (25.5)	102 (4") / 2	3.75 (5)	8.6	16.2	1315 (2,900)
RM-2 P	112 (3.945)	57 (2)	1668 (65.8)	1422 (56)	1626 (64)	1626 (64)	648 (25.5)	102 (4") / 2	3.75 (5)	8.6	16.2	1406 (3,100)
RM-2 A	112 (3.945)	57 (2)	2223 (87.5)	1422 (56)	3353 (132)	1524 (60)	648 (25.5)	102 (4") / 2	3.75 (5)	14	16.2	2540 (5,600)
RM-3 N	145 (5.107)	85 (3)	1422 (56)	1422 (56)	1626 (64)	1600 (63.5)	648 (25.5)	102 (4") / 2	5.6 (7.5)	14	25	1315 (2,900)
RM-3 P	145 (5.107)	85 (3)	1668 (65.8)	1422 (56)	1626 (64)	1600 (63.5)	648 (25.5)	102 (4") / 2	5.6 (7.5)	14	25	1406 (3,100)
RM-3 A	145 (5.107)	85 (3)	2223 (87.5)	1422 (56)	3353 (132)	1829 (72)	648 (25.5)	102 (4") / 2	5.6 (7.5)	17	25	2540 (5,600)
RM-6 N	323 (11.401)	170 (6)	1803 (71)	1676 (66)	1676 (66)	1943 (76.5)	953 (37.5)	102 (4") / 2	7.46 (10)	17	31	1814 (4,000)
RM-6 P	323 (11.401)	170 (6)	1920 (75.6)	1676 (66)	1676 (66)	1943 (76.5)	953 (37.5)	102 (4") / 2	7.46 (10)	17	31	2320 (5,115)
RM-6 A	323 (11.401)	170 (6)	2540 (100)	1930 (76)	3886 (153)	2057 (81)	953 (37.5)	102 (4") / 2	7.46 (10)	19	31	3901 (8,600)
RM-7 N	367 (12.945)	198 (7)	1803 (71)	1676 (66)	1676 (66)	1943 (76.5)	953 (37.5)	102 (4") / 2	11.2 (15)	19	38	1814 (4,000)
RM-7 P	367 (12.945)	198 (7)	1920 (75.6)	1676 (66)	1676 (66)	1943 (76.5)	953 (37.5)	102 (4") / 2	11.2 (15)	19	38	2320 (5,115)
RM-7 A	367 (12.945)	198 (7)	2540 (100)	1930 (76)	3886 (153)	2057 (81)	953 (37.5)	102 (4") / 2	11.2 (15)	19	38	3901 (8,600)

CENTRIFUGAL FINISHING

MEDIA
Wet Process Stainless Steel

CLEANING COMPOUND
Roto-Brite®

PROCESS TIME
4 to 20 minutes

MEDIA
Dry Process Walnut Shell

CLEANING COMPOUND
CB-16 WSW

PROCESS TIME
4 to 20 minutes