ALMCO

THE SCIENCE OF FINISHING

Spindle Finishing Machines

Abrasive slurry moving at speeds up to 1000 surface feet per minute process large parts or clusters of small parts on spindle mounted chucks. Centrifugal force spins the selected finishing media into a "form-fitting grinding wheel" while slow rotation of part in the mass assures uniform deburring and finishing of all surfaces. Delivers precision finishing of gears, bearing cages, splined shafts, pump rotors, jet compressor discs, jet blades, and other complex parts.

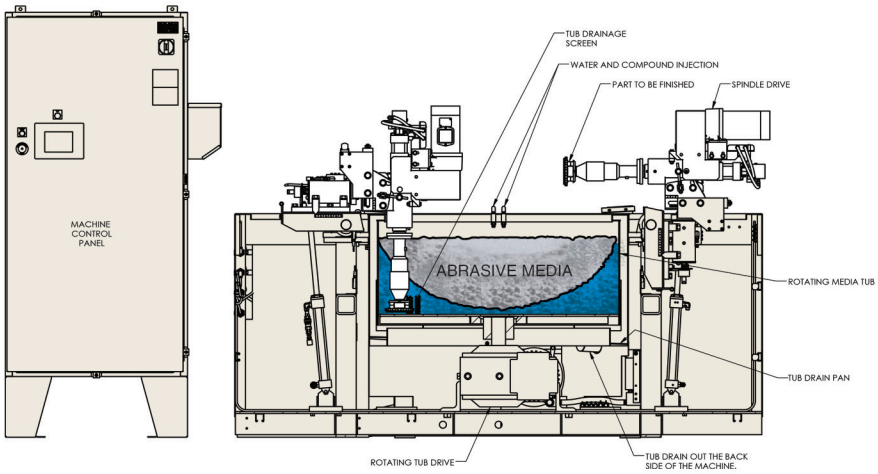
Innovative solutions...
that drives performance for our customers

2SF-48RA

- Up to 3 times faster finishing than conventional deburring machines
- Unique tub design gives optimum action on parts
- High production finishing of precision parts

Pictured above. Rear view of **2SF-48RA Spindle Machine** featuring Hydraulic Package supplying fluid to rotary actuary feature on spindle arms. Electric motor shown at bottom center, produces variable tub speeds up to 1000 surface feet per minute. Optional "gull wing" sound hoods shown in open position to allow service to processing spindle heads, which are shown in the down or processing mode position.

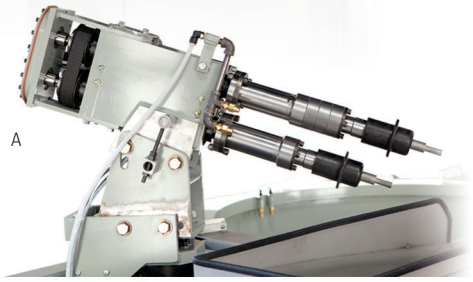
Above right. Front view of **2SF-48RA Spindle Machine** showing optional "gull wing" sound hoods in open position to allow for service or adjustment to processing spindle heads which are shown in the down or processing position. Operator push button controls with an emergency stop are shown at middle center. Middle left of photo shows remote, adjustable programmable controller panel view for robot interface feature. Free standing electrical panel shown behind panel view.



A schematic of the spindle finishing concept

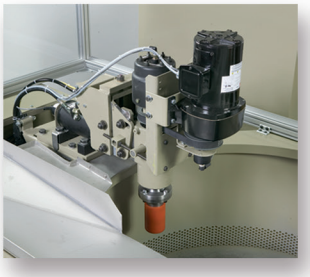
Model	Width	Length	Height	Horsepower	Max. Part Size
S2-30	46"	47"	45"	5	2.5"
2SF-36	53"	86"	63"	7-1/2	6"
2SF-48B	59"	94"	68"	10	16"
2SF-48D	87"	94"	75"	20	16"
1S-48	65-1/4"	86"	118-1/2"	15	30"

A



A. Dual spindle head for finishing of multiple parts per spindle

B



C

B. The head position features multiple adjustment angles to maintain uniform coverage of all part surfaces during processing. Bottom of processing tub shown with perforated drain section for liquid sludge removal from media mass. Liquid sludge is either captured and recycled or allowed to discharge directly to drain.

C. 2SF-48RA Variable Speed Spindle Head in the down position with a part processing in a rotating mass of abrasive media.

ALMCO offers a free sample part processing laboratory for your product satisfaction, performance guarantee. Contact ALMCO today to learn more about this **free service**.

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