



HFF HIGH FREQUENCY FINISHERS





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From high polishing of wheels to smoothing bearing races to a low surface Ra, the HFF machine is ideal for your company's requirements.

MODEL	INSIDE DIAMETER	INSIDE DEPTH	CUBIC FT. CAPACITY	MACHINE HEIGHT	MEDIA DISCHARGE HEIGHT
HFF-24	24"	19.5"	4.8	48.5"	24"
HFF-30	30"	23.5"	9.4	52.5"	24"
HFF-36	36"	25"	14.5	58"	28"
HFF-48	48"	30"	31	69"	34"
HFF-60	60"	36"	57	82"	40"

FEATURES

The High Frequency Finisher (HFF model) is the ideal machine for precise surface refinement (low Ra) and mirror-like polishing. The HFF machine utilizes high frequency and low amplitude to create an optimal motion for smoothness and polishing. The vibratory motors that create this motion, are mounted on easily adjustable indexing plates that allow for many orientations. This orientation adjustment changes the direction of amplitude which in turn modifies the flow of the media. The motion of the media inside the work chamber is isotropic (random), which eliminates directional or patterned finishing problems such as "leading edge" or "shadowing" effects. It is even capable of getting work done on internal surfaces which is not possible in conventional finishers.

Although not designed for deburring, the amount of applications is broad. Some examples are: high-end wheels, aerospace blisks, bearing races, pinions and shafts for windmills, forging mold refurbishment, and medical devices.

The construction consists of: a heavy-duty, interlocking structural design forming a cylindrical-shaped chamber, with a premium poly-urethane lining (multiple grades of shore hardness available) and drain(s), mounted on coated coil springs, and base frame. The finishers are driven with 2-3 (indexable) vibratory motors with easily adjustable weights, to increase or decrease the aggression of the machine. For further adjustment the standard control panels have variable frequency drive(s) to refine the process further by raising or lowering the machine's frequency. These tools allow for a precise process that covers a wide spectrum of finishes.

If you are using too much labor or paying too much to have your parts smoothed and or polished then consider the best way to get a repeatable, high-end finish with a HFF machine.

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