

5HF-1 & 10HF-2 Series

Single-Surface and Double-Surface Flat Hone Machines

Description

The low velocity and large abrasive area contact inherent in honing allows either heavy stock removal or simply surface finishing with no detrimental effect to sub surface structure. The flat hone process removes stock, generates a flat surface and develops fine surface finish. Generating motions, a prerequisite for the hone process are applied to the part by rotating the work part by a carrier.

The motions used in flat-hone machines assure that the travel path of the part across the wheel is continually changing. All areas of work surface are subjected to equal abrading action. A steady and copious supply of coolant is pumped through the center shaft and onto the abrasive wheel where the rotating motion provides a complete flushing effect, as well as efficient part cooling.

Surfaces are made flat to light-band tolerances on a production basis. Size tolerance is held to very close limits from work piece to work piece. Any type of functional finish can be developed and fine finishes in the order of one micro inch or better can be generated.

A power-operated diamond dresser provides fast, accurate, dressing action. It is easily swung to the side to allow maximum working area when the machine is in operation.

The machine is equipped with a cylinder actuated spindle for effortless raising and lowering and can be either manually or solenoid actuated. An automatic timer may be set for any cycle desired. Simple fixtures facilitate change-over from one set-up to another. In some cases, more than one size or type of part can be handled with the same basic fixture and certain adaptations.

All 5HF-1 Series Flat hone machines can be adapted to process different part configurations by changing the carrier plate with related work holding details.



Guide Specifications

Overall H x W x L	91" x 43" x 61"	2131 x 1092 x 1549mm
Maximum Disc Diameter	18"	457mm
Maximum Work Diameter	3 ½"	89mm
Floor to Disc Guard	43 ½"	1105mm
Net Weight	2,700 lbs	1225 kg
Motors		(1) 3hp – 1800 rpm