



Model VT7-SF Model Vibratory Tub/Trough Finishing Machine

General Description.

The VT7-SF dedicated SUPERFINISHING vibratory machine is an in-line trough/tub unit designed specifically for the CASF (Chemically Accelerated Super Finishing) of high-performance engine and gear train components to low micron finishes. Parts such as crankshafts, camshafts, crown wheels, pinion gears and long shafts etc.

Concept

The machine is a steel fabricated and polyurethane lined construction with all process contact parts manufactured for 316 stainless steel to withstand the chemistry required from the isotropic superfinishing process. The machine is supplied complete with all major fixtures and fittings as parts are generally mounted between rotating centres to ensure uniformity of finish and maximum protection. HEAVY OR LARGE PARTS CANNOT BE PROCESSED LOOSE IN THE MACHINE OR EXTENSIVE DAMAGE WILL OCCUR.

All VT-SF machines are supplied with chemical dosing systems and delivery tanks as this technology relies on the precise introduction of ALL chemicals used. A variable speed single phase input drive is also supplied as standard as they are required to

achieve the concise and accurate amplitudes and frequencies demanded by the CASF technology.

Power Unit

The fully welded, stress-relieved all steel vibratory machine mounted on coil springs is powered by a direct drive specially designed heavy-duty vibratory motor. The motor is rated at 0.8kW, dual wound for 415/230V/3 Phase supply and will develop 10kN of force if required. The motor is controlled by a single-phase input VSD. (Electronic Variable Speed Drive)

Fastenings & Fixtures

All fastenings and fixtures are a combination of grade 8.8 high tensile and 316 Stainless Steel - particularly all process contact parts. We also use a variety of UHDPE and silicon components.

Optional Features

VT-SF series machines are supplied with protective base covers but a full sound enclosure with chemical splash lid can also be provided on request. We can also supply HDPE removable divider plates which enable the use of multi compartments in the trough for separated and protected part finishing.

Basic Dimensions/Spec:

Model	Trough Volume (Litres)	Working Volume (Litres)	Trough Length (mm)	M/c Height (mm)	Trough section (mm)	Motor Rating (kW)	Shipping Weight (Kg)
VT7-SF	250	150	1050	1000	400W x 400D x1000L	1.0	400