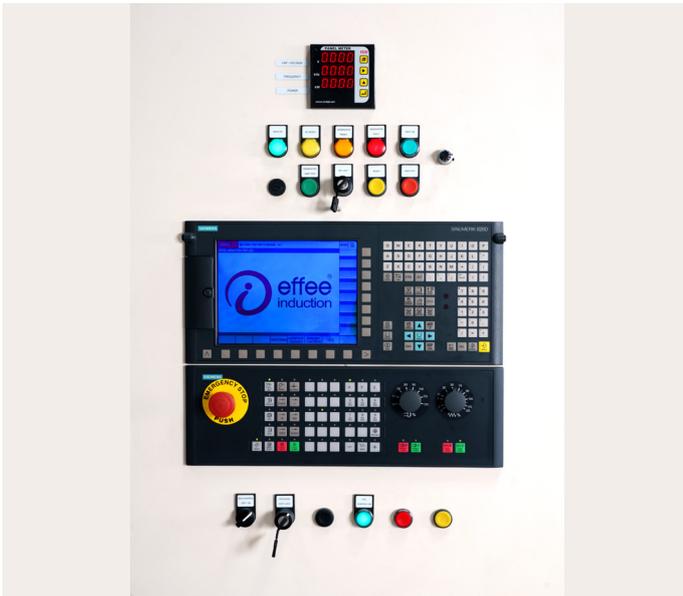


IMAC - Next-Gen Automated Hardening





- A ground fault is a type of fault in which straying electrical current deviates from its intentional pathway and flows directly to the earth (ground) or in other words contact between the job and the coil which could cause potential harm to the inductor(coil) or job or a person
- The purpose of a ground fault unit is to arrest ground faults and protect the equipment and personnel
- The Inductor Ground Fault is connected through the isolated current transformer. The current transformer has the ability to sense leakage current from the ground cable and the set reference on the GDF unit, once the set reference is lower than the leakage current it latches the ground fault
- GDF units are easy to set, understand and visualize.
- GDF unit reduces the electrical failures which could impact an industrial power system.

Incorporating latest advanced in induction technology, IMAC range offers unrivalled reliability and application flexibility.

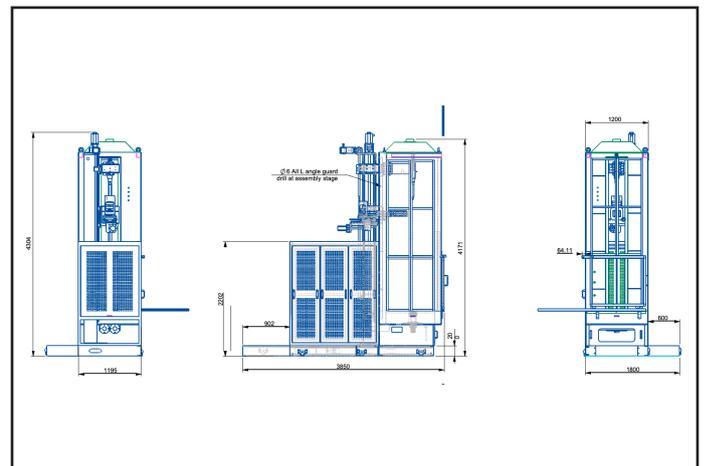
Product Features

- IMAC product line comprises of vertical, horizontal centerless, rotary table, crankshaft, and customized machines
- Hardens gears, camshafts, drive shafts, crankshafts, torsion bars, couplings, rocker arms, rock drills, chains, suspension arms, clutches, brake discs, steering racks, CV joints, tulips, shock absorbers, inner and outer races, control rods, valves and output shafts.
- IMAC systems can be fit within limitless range of coil designs that are specialists in designing, testing and delivering customized, long-life coils
- IMAC machine, at its core, is powered by our ingenious ICON power source- the industry's leading induction frequency converter.
- IMAC product line constitutes a range of systems geared to virtually satisfy every hardening requirement.
- Remote monitoring and control available for most of the applicable networks (mobile, Wi-Fi, Modbus, canbus etc.) The system works on your mobile, tablet and computer. It can also connect to your MIS (management information system). Our data acquisition system ensures full diagnosis traceability.

Applications

IMAC is ideal for a wide range of applications: Brazing, Hardening, Tempering, Annealing, Shrink fitting, Pre-heating, Post heating, etc. IMAC is suitable for heating all kinds of electrically conductive materials like copper, aluminum, steel, stainless steel, brass, titanium, etc.

IMAC Vertical Hardening Machine: Vertical machines envelop everything from physically stacked to completely robotized in-line frameworks. Various models can be leveraged for hardening workpieces ranging from little parts to huge rollers and blocks. Our upward frameworks are a testament to confounded calculations. For example- flanged shafts, cams, cog wheels and gears.



The IMAC series is a breakthrough in induction technology, ranging from manual loaders to fully automated turnkey hardening units. Designed for handling, straightening, and tempering components with unmatched precision, IMAC is powered by our cutting-edge ICON power source.

IMAC Horizontal Hardening machine: We offer horizontal pusher-feed and ceaseless feed machines, which have a higher rate of reproducibility. They can be used for short process durations as well. A distinctive high-speed controller created by us, guarantees precise hardening in and outlet zones even at faster navigation speeds.

IMAC Rotary table systems: The hardening ability of our rotating table machines make them ideal for shortening process durations in high-volume production. Throughput rates can be enhanced by adding additional stations.

IMAC Crankshaft systems: IMACs canvas any kind of crankshaft (marine blower, vehicle, truck, etc.) and production volume. It incorporates robot-stacked machines, and drum and single-station models for huge crankshafts.

Customized IMAC: Our forte is devising customized hardening solutions. Our customizations are tailored to fulfill the customer's requirements, which stems from the nature of the job, duration of the cycle time, etc.



IMAC	300	500	1000	1500	2000
Job length (mm)	250	450	950	1450	1900
Job Dia Max (mm)	250	300	300	300	300
Job Weight (Kg)	10	20	50	75	100
Z axiz travel (mm)	300	500	1000	1500	2000
Y axis travel servo/manual (mm)	100	100	100	100	100
X axis Manual +/- (mm)	10	10	10	10	10
Optional Rotary Index table 4 station	✓	✓			
Optional Twin station	✓	✓	✓		
Generator (kW)	Generator Power & Frequency depends on the application Requirements				



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