



FLUIDTHERM

TECHNOLOGY



COMPANY PROFILE

23 MAY, 1987. Commenced business with the first product launch (fluidized bed furnaces). Ongoing R & D has subsequently added powder reduction & sintering furnaces, continuous hardening & tempering furnaces, brazing furnaces, plasma nitriding reactors etc., leading to the present manufacturing furnaces and ovens.



1993. The only Indian furnace manufacturer and one of few SMEs thus awarded.



1994. The first certified Indian manufacturer of heat treatment furnaces.



2000. Fluidtherm owns and operates a versatile heat treatment process prototyping facility and metallurgical laboratory.



Process metallurgists work full time on development of new processes, trouble shooting for clients, process cycle optimization, retro-engineering, distortion studies, modeling, software development and consultation.

Tangible R & D credits are many in various fields and include the development of several wear & corrosion resisting processes, ultra-hard carburized surfaces, super-hard coatings and innovative heat treatment plants.

Apart from the price & quality of our furnaces, many customers deal with Fluidtherm to develop a life long relationship of technical support.



FLUIDTHERM

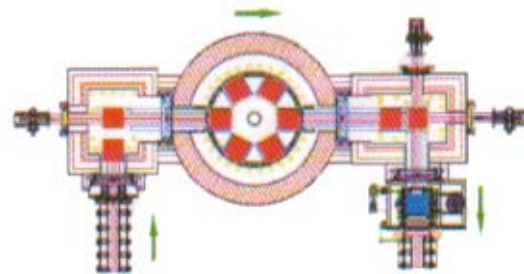
TECHNOLOGY

PRODUCTION PROGRAM



FLUIDCARB SEALED QUENCH FURNACES (Also Mini Q small manual models)

A range of sealed quench furnaces (50 kg to 2700 kg batch)
In / out or straight through, electrically heated or fuel fired.



FLEXICARB

A new generation of semi continuous sealed quenching furnaces that bridge the gap between batch and continuous furnaces with advantages of both. Processes different case depth jobs simultaneously. Frequent output of small lots reduces inventory significantly.

MBF—DQ. CONTINUOUS HARDENING (& CASE HARDENING) + TEMPERING LINES for mass produced components. Also **AUSTEMPERING** lines for springs.



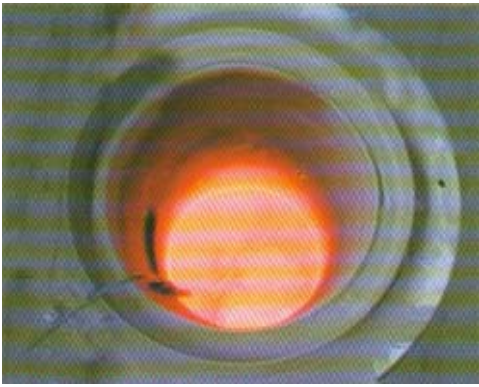
MBF-IC FURNACES for BRAZING & SINTERING **ANNEALING & NORMALIZING HARDENING (of SS)**

Furnaces with indirect cooling in atmosphere, hump back or straight through with accelerated cooling and several other features.

IONIN[®] PLASMA NITRIDING

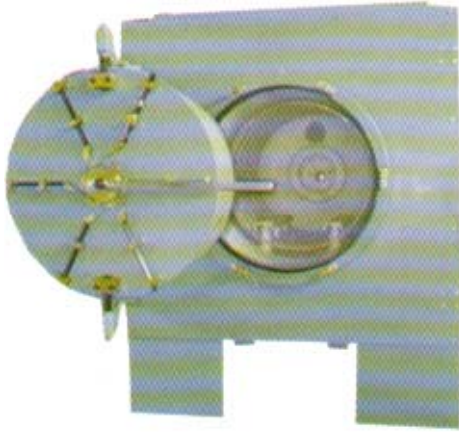
A range of plasma reactors for nitriding, nitrocarburizing
(with optional blue / black oxidizing).





FLUIDTHERM FLUIDIZED BED FURNACES

Characterized by a high degree of temperature uniformity and heat transfer, these furnaces are ideal for precision work especially tooling. Amazing flexibility in that one furnace performs all heat treatment processes.



FLOVAC

Front loading vacuum furnaces with convective heating for tempering, annealing, nitriding & nitrocarburizing. Features multi atmosphere capability including hydrogen and controlled / rapid cooling under atmosphere.



ALSANDER

A unique 3 function plant for simulations solutionizing of aluminum alloys, decoring and sand recovery. Significant reduction in cycle time, down to 3 hours from 8—16 hours for solutionizing as well as aging. Sand recovery enables use of high quality sand; stronger cores with less binder.

OTHER PLANTS

CONTINUOUS ROTARY RETORT HARDENING, TEMPERING & ANNEALING FURNACES	WALKING BEAM FURNACES UP TO 1750°C	BELL & PIT ANEALING FURNACES, WITH VACUUM AND / OR INERT FAS, ELECTRIC OR GAS FIRED.
FOLLER HEARTH (CLOSE PITCH) FURNACES FOR OPERATION UP TO 1450°C	SHAKER HEARTH FURNACES	BOGIE HEARTH FURNACES, OIL / GAS & ELECTRIC
LARGE OVENS, HIGH CONVECTION DESIGNS FOR PRESICION WORK, BATCH & CONTINUOUS	PIT TYPE RETORT FURNACES FOR CARBURIZING, NITRIDING & NITROCARBURIZING	

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