

BEST HEAT TREATMENT SERVICES

53, SIDCO Industrial Estate, Coimbatore - 641 021

Phone : +91 422 4205661, +91 422 4205600

E-mail : admn@bestheattreatment.com

Mobile No. : +91 98940 14852, +91 98940 14856, +91 96009 20154, +91 98940 14851

Our Associates

BEST HEAT TREATMENT SERVICES - UNIT II (SEALED QUENCH FURNACE)

No. 43, Pvt. Industrial Estate, Coimbatore - 641 021

Mobile No. : +91 98940 14845 | Email : bestinductionservices@gmail.com

Process Facilities : Induction Hardening | Minimum Case Depth - 0.5mm | Max. Case Depth - 10 mm

BEST HEAT TREATMENT SERVICES - UNIT III (SEALED QUENCH FURNACE)

299/1F2, Malumichampatti Road, Bodipalayam, Seerapalayam Village, Maddukarai (PO),

Coimbatore - 641 105 | Mobile No. : +91 99449 64865 | Email : sqf@bestheattreatment.com

BEST HEAT TREATMENT SERVICES - UNIT IV (MACHINING)

No. 46, Sai nagar, Cross Road-II, LIC Colony, Industrial Estate Post, Coimbatore - 641 021

Mobile No. : +91 96003 48844, +91 88700 04850 | E-mail : bestvalvescomponents@gmail.com

BEST HEAT TREATMENT SERVICES - UNIT V (GAS CARBURISING FURNACE)

S.F.No. 9, Jeganathan Industrial Estate, Athipalayam Road, LGB Nagar, 2nd Cross Extn, Chinnavedampatti Post,

Coimbatore - 641 049 | Mobile No. : +91 98940 14864 | Email : salesganapathy@bestheattreatment.com

SAN PRECISION ALLOYS (P) LTD. (MFRS. OF INVESTMENT CASTINGS)

SF No. 225/226, Kodampatty, Kinathukadavu, Coimbatore - 641 202

Mobile : +91 88700 04850 | Phone : +91 4259 292311, +91 4259 292111

E-mail : admin@sanprecisionalloys.com



BEST HEAT TREATMENT SERVICES

COMMERCIAL HEAT TREATERS
An ISO 9001:2008 Certified Company

SKILLED, VERSATILE, DIVERSIFIED



- ☆ Annealing
- ☆ Blackening & Phospating
- ☆ Case Hardening
- ☆ Carburising
- ☆ Carbonitriding
- ☆ Ferritic Nitro Carburising
- ☆ Gas Nitriding
- ☆ Hardening
- ☆ Localized Stress Relieving

- ☆ Liquid Nitriding
- ☆ Metallography
- ☆ Nitro Carburising
- ☆ Normalising
- ☆ Non Ferrous Treatment (Aluminium & Copper Alloys)
- ☆ Stress Relieving
- ☆ Sub Zero Treatment
- ☆ Tempering
- ☆ Water Quenching



ABOUT US

Best Heat Treatment Services is the leading commercial heat treaters in Coimbatore, in catering the needs of the Automobile, Textile, Foundry, Railways, Engineering, Defense, Aerospace and Boiler Industries.

Technically competent and rich experienced people with dedicated work force is the great Advantage of our Company.

Trade and Marketing

Best Heat Treatment Services has grown up to such a level that it attracts customers all over South India. It is Engaged in meeting customer requirements through Heat Treatment of wide range of materials and for its quality. It has Considerable experience in specialized Technical Competency.

Self Certification Status

Best Heat Treatment Services has obtained ISO 9001 : 2008 Certification through TUV NORD. This is the major Step in the Firm's corporate mission to achieve global standards and significant global presence.

We are the First to Introduce in Coimbatore

The Sealed Quench Furnaces (Among the Commercial Heat Treaters.)

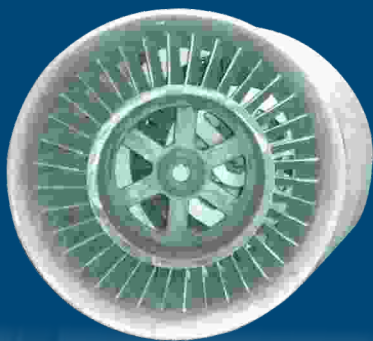
Full Fledged Metallurgical Laboratory (Among the Commercial Treaters.)

Developed new process according to the Latest Trend

Spherodising High Carbon Chrome Steel,

Hot Die Steel, Monal Metals,

17-4 PH, Inconel, Boron Steels & Etc.,



Modernization and Expansion Programme :

Best Hest Treatment Services is a home. where in you can find solutions for all your Mettallurgical Problems. Any process can be developed under the single roof. based on the Customer needs. with a view to expand its Heat Treat Activities. **BEST HEAT TREATMENT SERVICES** have come a long way from a single unit to multi-unit Operation having its units in various places in Coimbatore. under the style of **Best Induction Services.** SIDCO, Coimbatore.

San Precision Alloys(P) Ltd, Kinathukadavu (Manufacturing Investment Castings from 5 gms to 60 kgs weight).

Grade	%C	%Si	%Mn	%Cr	%Mo	%Ni	%B	%S	%P	Others
15 Cr 3	0.12-0.18	0.15-0.40	0.40-0.60	0.40-0.70				0.035	0.035	
16 MnCr 5	0.14-0.19	0.15-0.40	1.00-1.30	0.80-1.10				0.035	0.035	
20 MnCrS 5	0.17-0.22	0.15-0.40	1.00-1.40	1.00-1.30				0.02/0.035	0.035	
CK 45	0.42-0.50	<=.40	0.50-0.80							
42 CrMo 4	0.38-0.45	<=.40	0.50-0.80	0.90-1.20	0.15-0.30			<=0.030	0.035	
En1 A	0.07-0.15	0.10 max	0.80-1.20							
En8	0.35-0.40	0.05-0.35	0.60-1.00							
En8 D	0.40-0.45	0.05-0.35	0.70-0.90							
En8 M	0.35-0.45	0.25 max	0.90-1.30					0.12/0.20	0.060max	
En9	0.50-0.60	0.05-0.35	0.50-0.80							
En19	0.35-0.45	0.10-0.35	0.50-0.80	0.90-1.50	0.20-0.40					
En19 C	0.40-0.45	0.10-0.35	0.50-0.80	0.90-1.20	0.20-0.35					
En24	0.35-0.45	0.10-0.35	0.45-0.70	0.90-1.40	0.20-0.35	1.30-1.80				
En32 B	0.10-0.18	0.05-0.35	0.60-1.00							
En40 A	0.10-0.20	0.10-0.35	0.40-0.65	2.90-3.50	0.40-0.70	0.40 max				
En40 B	0.20-0.30	0.10-0.35	0.40-0.65	2.90-3.50	0.40-0.70	0.40 max				
En41 B	0.35-0.45	0.10-0.45	0.65 max	1.40-1.80	0.10-0.25	0.40 max				Al 0.90-1.30
En42	0.70-0.85	0.10-0.40	0.55-0.75							
En47	0.45-0.55	0.50 max	0.50-0.80	0.80-1.20						V 0.15 min
En353	0.20 max	0.35 max	0.50-1.00	0.75-1.25	0.08-0.15	1.00-1.50				
En354	0.20 max	0.35 max	0.50-1.00	0.75-1.25	0.10-0.20	1.50-2.00				
En42 J	0.75-0.90	0.35 max	0.60-0.90					0.050max	0.050max	



BEST HEAT TREATMENT SERVICES

Powered by

Sealed Quench Furnace - 3 Nos.

- 1. 600 x 600 x 1300 mm; 650 kgs. capacity -2 Nos.
 - 2. 750 x 750 x 1500 mm; 1250 kgs. capacity -1 No.
- Make : Aswathy Heat Tech Pvt. Ltd.. Bangalore.

Gas Carburizing Furnace - 5 Nos. (Part Size - ϕ upto 680mm length upto 2m)

ϕ 700 x 2000 mm depth

Electrically Heated Tempering Furnace - 1 No.

ϕ 700 x 1800 mm length

Electrically Heated Bottom Drop Furnace - 5 Nos.

- 1500 x 1500 x 1500 mm -4 (for Aluminium Alloys)
- 3440 x 1950 x 1600 mm -1 (2 tons)

Induction Hardening Machines

(Medium Frequency) - 300 KW ; 3 to 10 Khz 1 No. (Part Size Shaft - L 3m, OD - 350mm | Gear - OD - 2m, Weight - 4.5 Tons)

- Dual Frequency - 150 KW ; 8 to 10 Khz 1 No.
- 75 KW ; 40 to 80 Khz
- 100 KW ; 40 Khz 1 No.
- 150 KW ; 80 Khz
- Radio Frequency - 25 KW ; 80 Khz

Oil Fried Pit Type Furnace - 2 Nos.

- 6500 x 3000 x 3500 mm (Part Size L-7m, W - 3m, H - 3.5m and weight 20 Tons)
- 3300 x 2200 x 2500 mm

Bogie Hearth Furnace Electrical - 5 Nos.

2000 x 1200 x 1200 mm

Gas Nitriding - 2 Nos.

- ϕ 800 x 1200 mm
- ϕ 900 x 1350 mm



Liquid Nitriding Bath - 2 Nos.

- ϕ 600 x 1200 mm
- ϕ 650 x 1200 mm.

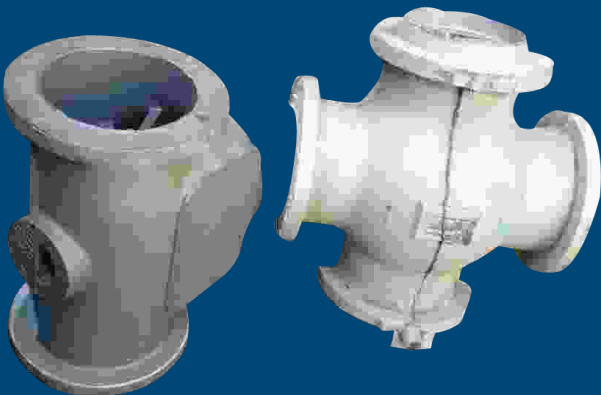
Sub Zero Treatment Unit

1200 x 600 x 450 mm



Quality Assurance Equipments

- Brinell Hardness Testing Machine 4 Nos.
- Optical Brinell Hardness Testing Machine 1 No.
- Rockwell Hardness Testing Machine 5 Nos.
- Superficial Hardness Testing Machine 1 No.



- Micro Hardness Testing Machine (Vickers) 2 Nos.
Make : Zwik Asia Pvt. Ltd. Capacity : 200 gms. to 10 Kgs.
Make : Future Tech (Japan) - 100 gms to 2 Kgs. (semi Automatic)
- Portable Hardness Testing Machine 2 Nos.
Make : Equotip
Suitable for : HV, BHN, HRB, HS Scales and Materials like Steel, SGI, Cast Iron, Copper , Aluminium, Brass, Bronze and Tungsten
- Poldi Hardness Testing Machine 1 No.
- Metallurgical Microscope with USB Camera & Image Analyser 2 Nos.
Magnification 100, 200, 400, 500 & 1000X
- Chemical lab for Nitriding Bath Analysis 1 No.
- Magnetic Particle Testing Machine 1 No.
with Demagnetizer Make : Electro Magfield Control & Services

Chemical Compositions of Stainless Steels

Wrought Stainless Steels

Alloy	C	Mn	P	S	Si	Cr	Ni	Mo	Others
304	0.08	2.00	0.045	0.030	1.00	19.00	9.25		
304L	0.03	2.00	0.045	0.030	1.00	19.00	10.0		
310S	0.08	2.00	0.045	0.030	1.50	25.00	20.5		
316	0.08	2.00	0.045	0.030	1.00	17.00	12.0	2.5	
316 L	0.03	2.00	0.045	0.030	1.00	17.00	12.0	2.5	
410	0.15	1.00	0.040	0.030	1.00	12.50			
416	0.15	1.25	0.040		1.00	13.00		0.60	S=0.15mins
420	0.15 min.	1.00	0.040	0.030	1.00	13.00			
430	0.12	1.00	0.040	0.030	1.00	17.00			
440 C	1.00	1.00	0.040	0.030	1.00	17.00			
17-4 PH	0.07	1.00	0.045	0.035	1.00	16.5	5.5		Cu 3-5, 0.4 Al
17-7 PH	0.09	1.00	0.045	0.035	1.00	17.00	7.0		.75-1.5 Al



Cast Stainless Steels

CA-6NM	0.06	1.00	0.045	0.035	1.00	12.50	4.00	0.70
CA-15	0.15	1.00			1.50	12.50	1.00	
CA-40	0.40	1.00			1.50	12.50	1.00	
CF-8	0.08	1.50	0.040	0.040	2.00	19.00	9.0	
CF-8M	0.08	1.50	0.040	0.040	2.00	19.50	10.0	2.5



Straightening Press

- ✓ Hydraulic Press 40 Ton
- ✓ Power Packed Hydraulic Press 40 Ton
- ✓ Screw Press 2 Nos
- ✓ Shot Blasting machine - Tumblast Type 1 No
- ✓ Grid Blasting Machine 1 No.

