

1. Company, Plant / Factory Profile



ABI SHOWATECH (INDIA) PRIVATE LIMITED,
Foundry Division
(Light Alloy Products & Lap Ross Engineering)
Pulivalam village & post,
Via Banavaram, Ranipet district,
Tamil Nadu, India, Pin : 632 505 .

1. Company, Plant / Factory Profile



1.1 Company Profile and History

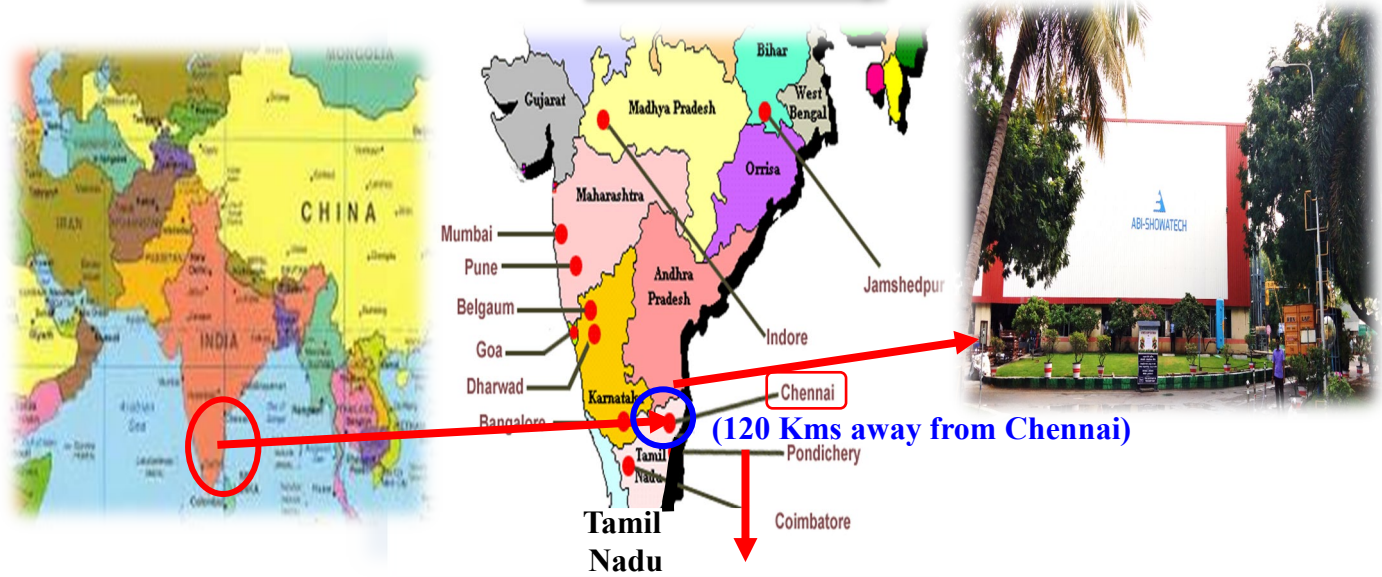
Registered Name	: ABI-Showatech (India) Private Limited
Address	: 67, Chamiers Road, Chennai, Tamil Nadu, India.
Representative	: Mr. K.Sundar, Executive Director - Operations.
Established	: 1995
Manufacturing Locations	: Foundry Division & Machining Division @ Pulivalam
Audit Plant	: Pulivalam
Audit Division	: Foundry Division only
Sales(2023)	: Rupees 4362 Millions (INR)
JIPM – Awards	: TPM Excellence Award (Category A) – 2013 : TPM Excellence in Consistent TPM Commitment - 2017
Certification	: IATF 16949, ISO 14001, ISO 45001, AS9100 D and ISO 50001

Plant Name	Started	Capacity		Process Name	Products Name	Product Material
		Initial	Current 2024			
LAP - GDC	1995	500 Metric Ton	7800 Metric Ton	Gravity Die Casting	Compressor Housing, Safety Critical Parts & other Automotive parts	Aluminum
LAP - TW	2011	1 Million Castings	5 Million Castings	Investment Castings	Turbine Wheels & Aero Parts	Super Alloy & Stainless Steel
LRE - CCW	2005	1 Million Castings	7 Million Castings	Counter Gravity Casting	Cast Compressor Wheel & Aero Parts	Aluminum
LRE - FMCW	2016	8000 Castings	68,000 Castings	Machining	Machined Compressor Wheel	Aluminum

Legend : GDC : Gravity Die Casting, TW – Turbine Wheel
CCW – Cast Compressor Wheel & FMCW – Fully Machined Compressor Wheel

1. Company, Plant / Factory Profile

1.2 ABI Group



ABI SHOWATECH (India) Pvt. Ltd.

Audit Plant

Machining Division

Foundry Division

LAP

LRE

Gravity Die Casting (GDC)

Turbine Wheel (TW)

Cast Compressor Wheel (CW)

Fully Machined Compressor Wheel

Venturing into Aero space components

1. Company, Plant / Factory Profile

Our products

Product : Wheel Cylinders
Customer : Brakes India Ltd

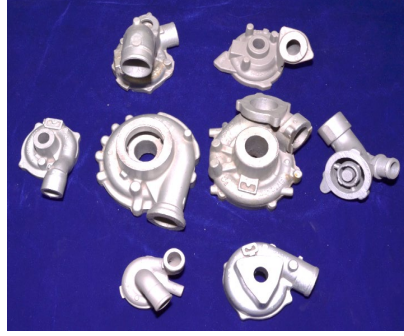


Product : Master Cylinders
Customer : Brakes India Ltd



1.3 Product Range

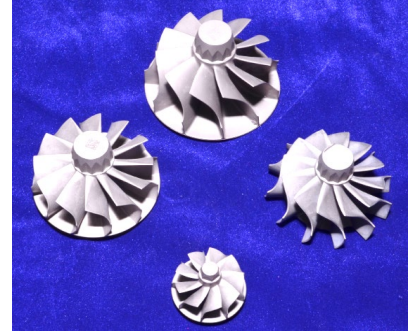
Product : Compressor Housing
Customer : Turbo Energy Ltd



Product : Compressor Wheel
Customer : Turbo Energy Ltd



Product : Turbine Wheel
Customer : Turbo Energy Ltd



Product : Turbine Rotor
Customer : Aero



Brake Assembly

Used in Brake Assemblies and Turbo chargers for various vehicle application



Turbo charger

Our End Customer



Passenger car



utility vehicle



Heavy commercial Diesel vehicle (CD)



Aero

1. Company, Plant / Factory Profile

1.4 Our Customers

Domestic Customers



Export Customers



1.5 Expectation from TPM

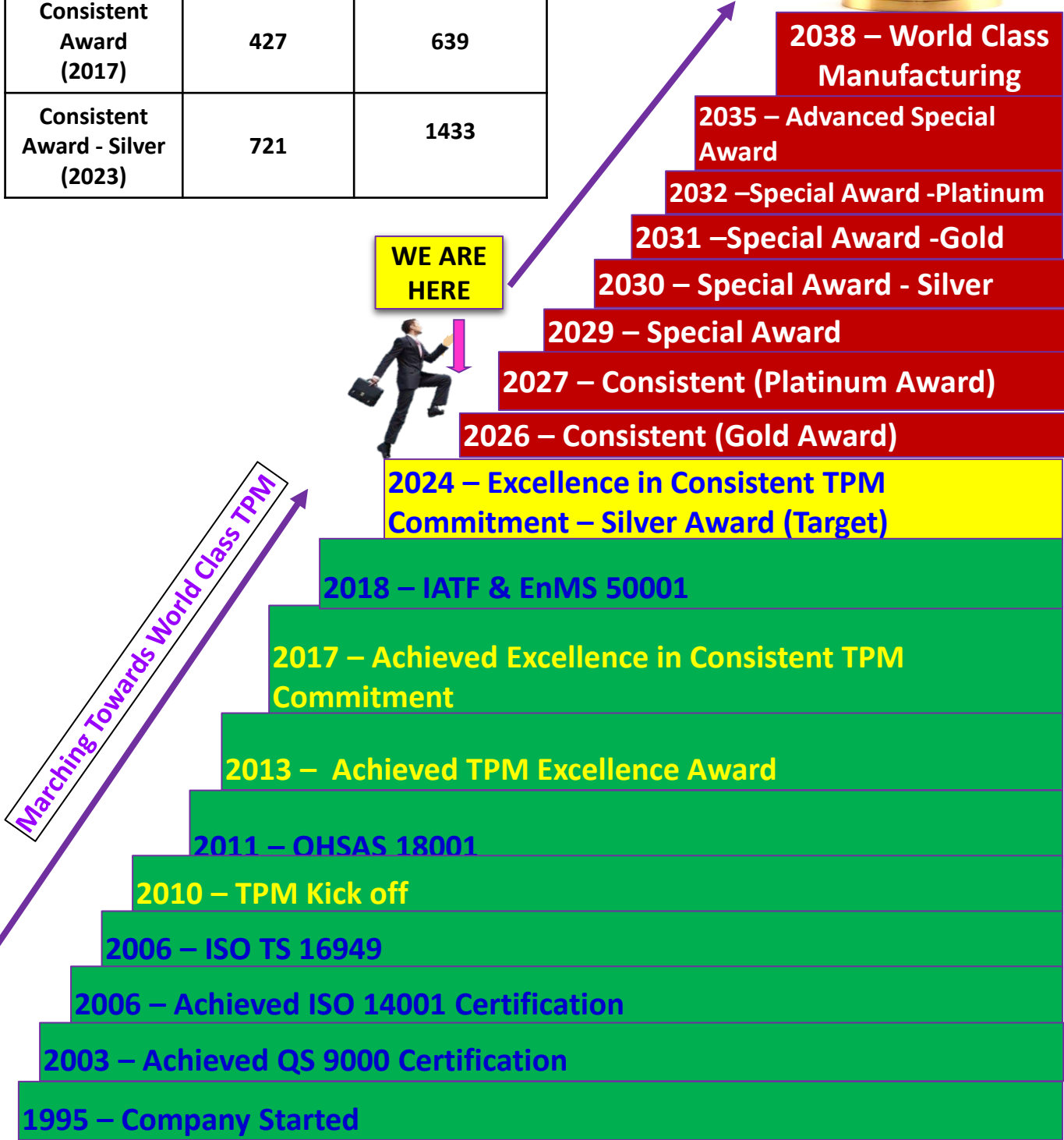
1. To become a preferred supplier for manufacturing of Aluminum Gravity Die Casting, Investment Casting & Stainless Steel Turbine Housing for Automotive and Engineering Components.
2. To Sustain
 - Zero Accident work place
 - Zero Defect in Products
 - Zero Breakdown in Equipment's
3. To Maintain pollution free environment
4. To increase the knowledge & skill level of our employees by continuous training & Development.
5. To create a cultural change in the organization.

2. Milestone On The Manufacturing Excellence

2.1 Milestone



Details	No. Of Equipment	No. of Employees
Excellence Award (2013)	296	430
Consistent Award (2017)	427	639
Consistent Award - Silver (2023)	721	1433



3. Benefits Achieved

3.1 Tangible Benefits

To summarize benefit of following TPM methodology after Consistent Award

- 1. By constantly practicing TPM Methodology ,we have increased the productivity, reduced the scrap and sustained the Profits even during the period when the sales was Flat.**
 - 2. The Turnover of the company has increased by 3.2 times.**
- This was possible by going deeper in our current products like compressor housing and reaching out wider into investment casting process to manufacture niche parts like Turbine wheel for Turbo charger.**
- Further we plan to expand into the area of Stainless steel Turbine housing which will be required for high temperature application.**
- Also we would like to move away from Auto parts business to Aero Space business to add value and flexibility to our product mix.**

3.2 Intangible Benefits

- ✓ Improved Health and Hygiene of employees.**
- ✓ Change in attitude and behavior of employees.**
- ✓ Improved Knowledge & Skill level of employees.**
- ✓ Improved operator morale and team approach**
- ✓ Improvement in Customer confidence**
- ✓ Improved house keeping**
- ✓ Improved Ownership**
- ✓ 100% Companywide Participation**

4. Key of Our Manufacturing Excellence



4.1 Experience Gained Thro TPM Journey

We Look Forward

- To Increase our Business substantially through continuous growth.
- Higher level of Customer satisfaction with no customer complaints & meet their state of implied needs.
- We must achieve cost of manufacturing better than what is currently the best in the world.
- Accident free, safe work place and people adherence to safety norms.
- Provide better working environment to Employees to work with better performance & they contribute for the growth of the company.
- Equipment to be free from Accident, Breakdown & Defects with minimum maintenance cost.

5. Achievement Record

Our Key Performance Index for ABI Showatech – Foundry Division

TPM Award Assessment Achievement Sheet

Category	Index	Unit	Plant	BM1 (TPM Started)	BM 2 (Consistent Award 2017)	Actual Status (Nov'24)	Target' 2024	
				2010	2017	2024	2024	
Enter the year →								
S	Number of work-related accidents requiring days off work	Cases/ year	LAP	GDC	1	0	0	0
				TW	NA	0	0	0
			LRE	CCW	1	0	0	0
				FMCW	NA	0	0	0
S	Number of work-related accidents not requiring days off work	Cases/ year	LAP	GDC	17	0	0	0
				TW	NA	0	0	0
			LRE	CCW	6	0	0	0
				FMCW	NA	NA	0	0
S	First Aid	Cases/ year	LAP	GDC	21	3	0	0
				TW	NA	5	0	0
			LRE	CCW	15	6	0	0
				FMCW	NA	NA	0	0
S	Frequency rate	Number of occupational accidents with leave for 1 000 000 worked hours	LAP	GDC	3.18	0	0	0
				TW	NA	0	0	0
			LRE	CCW	3.18	0	0	0
				FMCW	NA	NA	0	0
P	Productivity for main products	Number of Parts/ hour	LAP	GDC	866	1357	1723	1732 (2 Times)
				TW	NA	1200	2352	2400 (2 Times)
		No of Parts/ hour/ Line	LRE	CCW	127	280	311	317 (2.5 Times)
				FMCW	NA	NA	27	30 (1.5 Times)
P	OEE	%	LAP	GDC	66	82.5	84.6	85
				TW	NA	56.24	75.68	77
			LRE	CCW	58.7	82.88	83.92	85
				FMCW	NA	NA	73.65	85

5. Achievement Record



Our Key Performance Index for ABI Showatech – Foundry Division

TPM Award Assessment Achievement Sheet

Category	Index	Unit		Plant	BM1 (TPM Started)	BM 2 (Consistent Award 2017)	Actual Status (Nov'24)	Target' 2024
Enter the year →					2010	2017	2024	2024
P	Availability	%	LAP	GDC	83	92	94	92
	Performance Rate	%			90	91.7	90.85	95
	Quality Products Rate	%			89	97.8	96.87	98
	Availability	%		TW	NA	88.72	92.46	95
	Performance Rate	%			NA	90.4	94.28	95
	Quality Products Rate	%			NA	70.12	80	85
P	Availability	%	LRE	CCW	84.18	95.34	95.25	92
	Performance Rate	%			87.25	93.24	91.48	95
	Quality Products Rate	%			80	93.23	93.43	98
	Availability	%		FMCW	NA	NA	79.6	92
	Performance Rate	%			NA	NA	91.45	95
	Quality Products Rate	%			NA	NA	97.37	98
P	Number of breakdowns	No of Breakdowns/ year	LAP	GDC	4608	456	420	300
				TW	NA	1380	240	144
			LRE	CCW	1488	60	48	48
				FMCW	NA	NA	1668	48
P	MTBF	Hour	LAP	GDC	362	2495	6827	7412
				TW	NA	431	4618	5875
			LRE	CCW	572	1019	35996	36191
				FMCW	NA	NA	2525	12787
P	MTTR	Hour	LAP	GDC	1.19	1.26	1.02	0.9
				TW	NA	2	1.4	1
			LRE	CCW	1.02	1.6	1	1
				FMCW	NA	NA	5.05	2

5. Achievement Record



Our Key Performance Index for ABI Showatech – Foundry Division

TPM Award Assessment Achievement Sheet

Category	Index	Unit	Plant	BM1 (TPM Started)	BM 2 (Consistent Award 2017)	Actual Status (Nov'24)	Target' 2024	
				2010	2017	2024	2024	
Enter the year →				2010	2017	2024	2024	
Q	Number of customer complaints	Number/year	LAP	GDC	1	0	0	0
				TW	NA	0	0	0
			LRE	CCW	1	0	0	0
				FMCW	NA	NA	0	0
Q	In-line defect rate (scrap)	% Avg. per Month	LAP	GDC	11	2.2	2.2	2
				TW	NA	29.88	13.1	15
			LRE	CCW	20	6.77	6.2	6
				FMCW	NA	NA	1.4	2
C	Cost index	Conversion Cost in Rs/Kg	LAP	GDC	96.9	56.3	49.21	48.5 (50 % Reduction)
		Conversion Cost in Rs/ Wheel		TW	NA	350	244	
		Conversion Cost in Rs/ Wheel	LRE	CCW	47.95	43.96	NA	NA
		Conversion Cost in Rs/ Kg			NA	NA	868	850
		Cost in Rs/ Wheel			FMCW	NA	NA	88.5
D	Production Lead time (New Product)	Days	LAP	GDC	98	70	35	28
				TW	NA	84	53	49
			LRE	CCW	84	35	30	28
				FMCW	NA	NA	21	21
D	Delivery performance	%	LAP	GDC	90	100	100	100
				TW	NA	100	100	100
			LRE	CCW	97	100	100	100
				FMCW	NA	NA	100	100
M	Number of Employee Suggestions/ Kaizens	Number /year	LAP	GDC	46	2134	1965	2500
				TW	NA			
			LRE	CCW	39	1178	986	1500
				FMCW	NA	NA		

Future Plan

Vision

To become a World Class Manufacturing unit by 2038.

Way Forward

1. Diversify into product categories like Stainless steel and Inconel to add value and to have flexibility in product Manufactured.
2. Venture into Aerospace Parts to avoid dependence on IC Engine.
3. Practice TPM in order to improve profitability and stay 3 years ahead of competition.
4. Sustain the Morale of the people by practicing TPM in letter & Spirit
5. Work towards a safe & clean work environment.

6. Contact Person

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Executive Director

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