

Excellence in Consistent TPM Commitment
ABI Turnamatics
(A Division of ABI Showatech (India) Private Limited),
Pulivalam.



1. Organization Profile

ABI Turnamatics (A Division of ABI - SHOWATECH (INDIA) PRIVATE LIMITED) is a 100 % Export Oriented unit the company was set up in Pulivalam, in Vellore District of Tamilnadu. The Company was started in the year 2000. The prime object which the company set up was to manufacture Turbo charger Bearing housing for Passenger cars and Commercial vehicles at very economical rates and export products to various countries.

"Dedicated precise cellular manufacturing cells for dedicated customers" is practiced to achieve Focused Manufacturing. This helps to improve product quality and delivery performance. The mix of flexible CNC machines and dedicated high productive SPM'S help in meeting the customer target costs and quality requirements. This helps to achieve very low PPM levels at the customer end.

ABI is certified for IATF 16949 Quality Management System, ISO 14001 Environmental Management System.

Total Productive Maintenance is being followed in all Machines to achieve Critical Objectives.

The company focusses to constantly upgrade technology and bring out products that meet global standards. Qualified engineers and equipment are utilized for development of new products to meet the customer requirements The company's in-house Computer Aided Design department, tool room, Coordinate Measuring machine along with the well-equipped Standards room are used extensively to meet the requirements. The Marketing Office is located at Chennai, which is 120 kilometers from the plant.

Registered Name	: ABI Turnamatics A Division of ABI Showatech (India) Private Limited.
Location	: 67, Chamiers Road, Chennai, Tamil Nadu, India.
Established	: 2000
Total Area	: 8092m ²
Total Built up area	: 2590m ²
Turnover	: 2022-23 : 100.99 Crore. : 2023-24 : 114.91 Crore.(Estimated)
Number of Employees	: 230
Location/ facilities	: Pulivalam,
Nature of Work	: Manufacture of Bearing Housing
TPM Kick off	: 6 th Nov 2014
TPM Excellence Award	: 2017
Major Suppliers	:
Casting supplier	: Brakes India Private limited - Foundry division. (TPM Special award company, DEMING award) Various child parts suppliers in Europe

2. Milestone on the Journey to Manufacturing Excellence

2000	Established & Supply of Turbo Charger Parts to Turbo Energy Limited
2001	Certified to QS 9000 Quality Standards
2003	Achieved QS 9000 Certification
2006	ISO TS16949 Certification
2006	Achieved ISO 14001 Certification
2007	EMS certification
2014	TPM Kick off (ABIT)
2014	TPM approach in manufacturing area
2015	Six Sigma Activities Started
2012	ABI Soorai Green plant established
2017	IATF 16949 award
2017	TPM Excellence award – Category A
2018	OSHAS 18000 & ENMS 5001
2023	TPM - Consistency Award

3. Benefits Achieved

TPM Implementation at ABI Turnamatics (A Division of ABI Showatech India Private limited) not only helped in improving business results but also brought drastic change in organization culture. Increase in employee suggestion is one of the sample evident of involvement of highly motivated employees.

Further improvement in People attitude

Work environment improved further.

People “own” the machines.

Company wide participation.

Skill level increased.

House keeping improved.

Team approach has taken deeper roots.

4. TPM Award Assessment Achievement Sheet

Category	Index (Calculation Formula)	Unit	Kick off - 2014	Excellency award 2017	Consistency award 2023	Target	
S	Number of work-related accidents requiring days off work	Cases/ year	0	0	0	0	
S	Number of work-related accidents not requiring days off work	Cases/ year	0	0	0	0	
P	Productivity for main products	Parts/ hours	12	19	22	24	
P	OEE (or Overall Plant Efficiency)	%	69	83.8	84.15	85	
P	Availability	%		87.9	88.2	90	
P	Performance Rate	%		95.4	95.9	95	
P	Quality Products Rate	%		99.42	99.5	99.99	
P	Number of breakdowns	Breakdowns/ months	123	11	8	5	
P	MTBF	Hour	425	584	778	10518	
P	MTTR	Hour	2.38	2.33	1.60	1.98	
Q	Number of customer complaints	Avg. Number/months	13	1	0	0	
Q	In-line defect rate, scrap	%	2.90	0.50	0.44	0.30	
Q	In-line defect rate, scrap and rework	%	3.30	1.17	0.27	0.10	
C	Cost index	Cost/Unit	Pass. Car B/hs	83.50	44.30	42.00	35.36
			CD B/hsg	153.83	114.20	91.70	88.64
D	Production Lead time	Days	78	54	42	36	
D	Delivery performance	%	100	100	100	100	
S	Safety index	Accidents per 1,000,000 operator hours	0	0	0	0	
M	Number of Employee Suggestions	Number/year	801	1662	2025	3000	

5. Key to our Manufacturing Excellence

The key to manufacturing Excellence lies in continual improvement activities and periodic re-view of the results to meet the strategic performance and business results.

Future Plan

- Involving marketing to improve the turnover and profit
- Implement more kaizens to achieve zero losses
- To focus on tool cost and Energy cost
- Implement of IOT's
- Focus on Aero parts
- Challenging Consistency award (silver) in 2025