

Company Profile

ADVIK HI-TECH Private Limited (AHPL) is one of the India's leading & global automotive component manufacturers. We have been catering to the growing needs of a number of domestic and overseas customers across four continents in the Design Development & Production of Engine, Transmission, Break & Emission Control Components from the past 23 years.

We Provide Custom Made solutions for our customer's design, keeping in mind their needs and specifications. Our customer base includes leading automotive original equipment manufacturers in India, Europe, UK, US and the ASEAN region.



Mr. Aditya Bhartia (MD)

We are the preferred global supplier for a range of automotive components including Chain Tensioner, Oil Pumps, Fuel Cocks- Manual & Auto, Decompression units, Water Pumps, Combi Brake System, Drum Gear Shifter, Starter Gears and many more.

ADVIK credit its success and growth to the areas of excellence, which include:

- State-of-the-Art research and development center, which is recognized by Government of India.
- Cellular manufacturing set-up for product engineering.
- Most advanced machines with latest technology.
- TPM- The Way to achieve Excellence.
- Testing and Metallurgical laboratory.

We have technical collaboration with German R&D company FMO Technologies (Trocoentric) GmbH for design, development & production of oil pump assemblies for passenger cars, commercial vehicles, stationary engines and transmissions systems. We are committed to provide world-class products to our customers in an effort to create a global footprint in world market.

Company History: -

ADVIK Hi-Tech PVT. LTD. has been established in 2000 at the chakan near Pune. We are leading manufacturer of auto components supplying to globally renowned automotive original equipment manufacturer like Bajaj Auto, Hero Moto Corp, Honda Motors, Suzuki, Yamaha, etc..

We started a plant (P3) in Pantnagar, Uttrakhand in 2007, as a manufacturer of engine parts Like- Oil pump, Tensioner etc... We also started new plant in Bangalore, Manesar, Ahmadabad, one more plant at Chakan and in Bawal near Gurgaon.

We also started manufacturing our components overseas in Indonesia since 2014 and it is supplying to Magna, Daimler AMG, ZF, etc. & We have started a new plant in Vietnam also. Currently the growth rate of the company is average 30% every year. Our Three plant are Awarded by JIPM for Excellence award in category A, Now we (Pantnagar) have cleared both assessment of next level award.

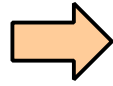
Business Acquisition

2022-23	Technological JV for CNG kit manufacturing in India & Green Hydrogen Technology.
2021-22	Full Breaking solution Business to EV two wheelers (OLA, Hero electric and other OEMs)
2019-20	Acquired Hanon's (earlier Magna) plant in India making Water and Vacuum Pump
2018	Continental, Napino
2017	ZF – France & Brazil, Magna – Fiat Chrysler Jeep Cherokee & Wrangler and Nissan Titan, TVS
2016	Magna – Daimler GL & M class, Porsche 911, Daimler AMG
2015	Mahindra Automotive, Tata Motor, Royal Enfield
2014	Magna – Europe – Dailmer AMG, ZF – Russia - Kamaz
2013	ZF – India – Tata Motor, Mahindra, Man, Volvo Eicher
2012	Harley Davidson, Hero Moto Corp., Mahindra 2 Wheeler,
2011	Triumph – UK, Maruti Suzuki
2010	Honda-Indonesia, Ducati Motor-Italy, Motori Minarelli-Italy, Lombardini / Kohler-Italy
2009	KTM – Austria, AVL Schrick - Germany
2008	Force Motor
2007	Kawasaki – Indonesia,
2006	Piaggio, Lombardini / Kohler
2005	Yamaha - India
2004	Suzuki - India
2003	Honda - India
2000	Bajaj

Customer Base

Customer Base OEM – 4W					
Customer Base OEM – 2W					
Customer Base Tier 1					
Customer Base Through Tier 1					

Our Customers (EV Braking)



Global Presence

ADVIK is Set to be the world's largest manufacturer of Tensioners, Oil Pumps & Combined Braking System in FY2018.

We supply oil pumps to Honda, Yamaha, Suzuki and Kawasaki.

We used to earlier export to Honda in Indonesia and we had a 25 percent market share with them.

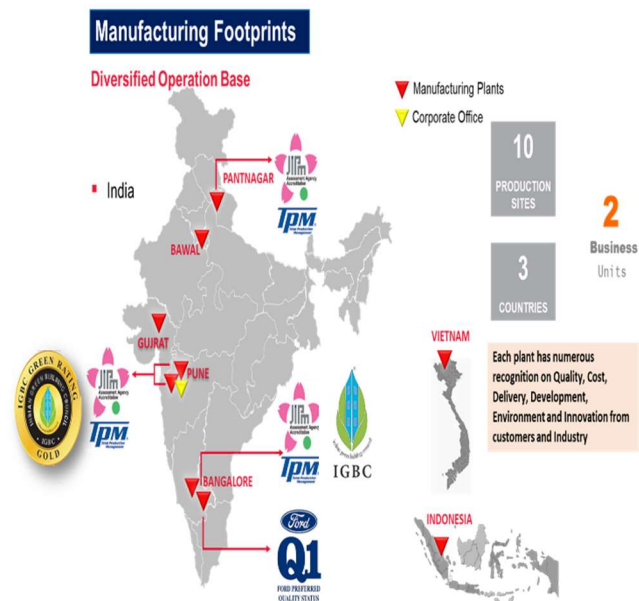
This was when we were exporting to them from India. Then we went



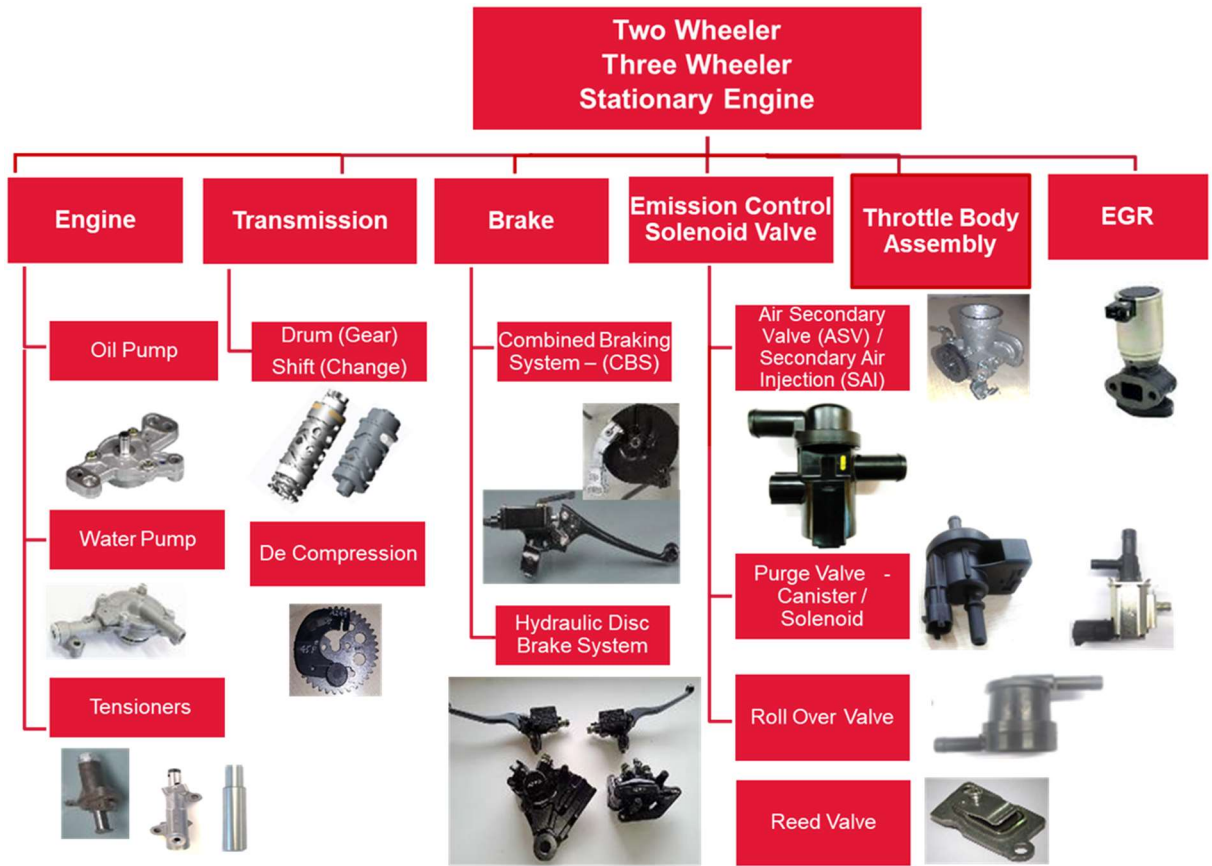
Manufacturing Footprints in India

ADVIK Hi-Tech PVT. LTD. has been established in 2000 at the chakan near Pune.

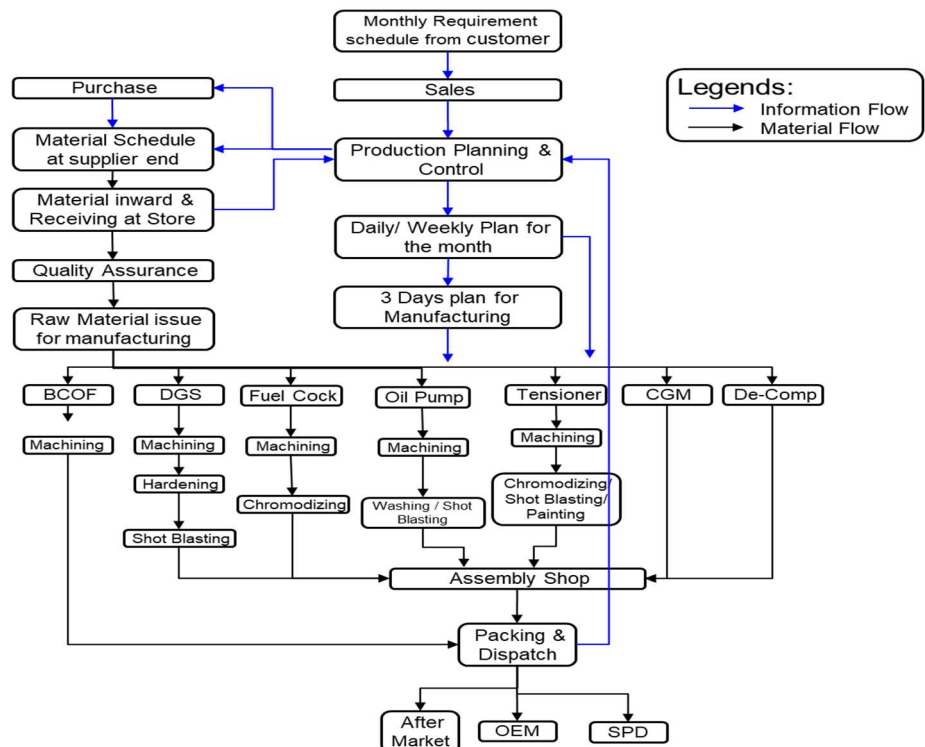
We have 10 production Site in all over India and overseas also.



Products port folio



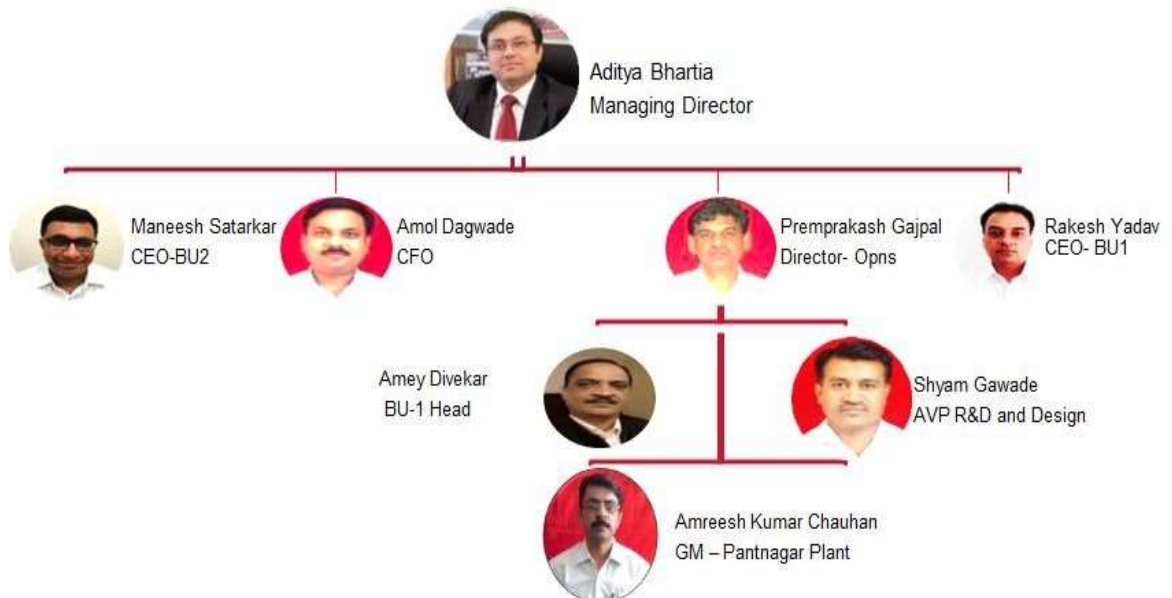
Pantnagar Plant – Process and Material Flow system



Pantnagar Plant – Machining Technology

Division	Equipment Category & Name	Total Equipment	Equipment Under TPM	Equipment Age			
				< 2 Years	2.1 to 5 Years	5.1 to 10 Years	> 10 Years
Fuel cock	CNC Turning	1	1			1	
	SPM Machine	25	25		6	1	18
Tensioner	CNC Turning	10	10		4	4	2
	SPM Machine	59	59	1	15	20	23
Oil pump	VMC Machine	19	19	1	6	6	6
	SPM Machine	52	52	2	4	30	16
	CNC Turning	1	1		1		
CGM	SPM Machine	1	1				1
BCOF	CNC/VMC/SPM Machine	0	0				
Drum change	CNC Turning	14	14	1	5	2	6
	VMC Machine	10	10		5	2	3
	SPM Machine	36	36		4	7	25
Heat treatment	Furnaces	4	4		1		3
	Lab equipment	5	5				5
	SPM Machine	17	17		1	13	3
Quality	SPM Machine	44	44		1	20	23
Utility	DGs	2	2				2
	HT Panel / Transformer	4	4				4
	Compressor/Dryer	4	4			1	3
	LT Panel / PDB	17	17		1	11	5
Total		325	325	5	54	118	148

Management organization structure



Staffing Structure

Designation	Total Manpower	General Shift 8:30 AM to 5:30 PM	A Shift 6:00 AM to 2:30 PM	B Shift 2:30 PM to 11:00 PM	C Shift 11:00 PM to 6:00 AM
Managers & Above	20	20	-	-	-
Sr. Engineers & Engineers	68	28	15	15	10
Supervisors	16	5	4	4	3
Operators	540	160	140	140	100
Total	644	213	159	159	113

2. Milestones on the Journey of Manufacturing Excellence.

2.1 Reasons for adopting TPM

To continue our TPM journey for achieving higher level after achieving Excellence award .And to achieve more flexibility in manufacturing process.

- **External Factors**

One side we face the growing customers' expectations such as Year on Year Price Reduction, Zero line rejection, JIT delivery, reduced new product development time. In addition, we need to face the competition in Domestic and Global markets. Product variety is on increase. Commodity prices are increasing continuously .

- **Internal Factors**

Some of our machines are old so they require continuous restoration of basic conditions, and periodic maintenance. Being contractual manpower as Operatives they have low skill level and experience. As We are manufacturing engine part so machine maintainability requirement is high because of BS6 products .

Since product variety are increasing, so we have to create more flexibility in our manufacturing process.

TPM Journey

Our TPM journey started with declaration by top management in 2014. Subsequently we carried out 5S activity as a base and Manager Model Line activity. Kick Off was done on 21st March, 2016 & TPM activity was spread across plant. We started with trainings and carrying out 8 pillar activities.

TPM journey facilitated to get us various awards from our customers such as Best Development, Global Supplier, Quality Excellence Award & Delivery Excellence Awards and many more.

In 2019 -20 we also get TPM award by JIPM – EXCELLENCE IN CATEGORY A.

Now we have Successfully Completed 2nd Assessment for Award -Excellence in consistent TPM Commitment.

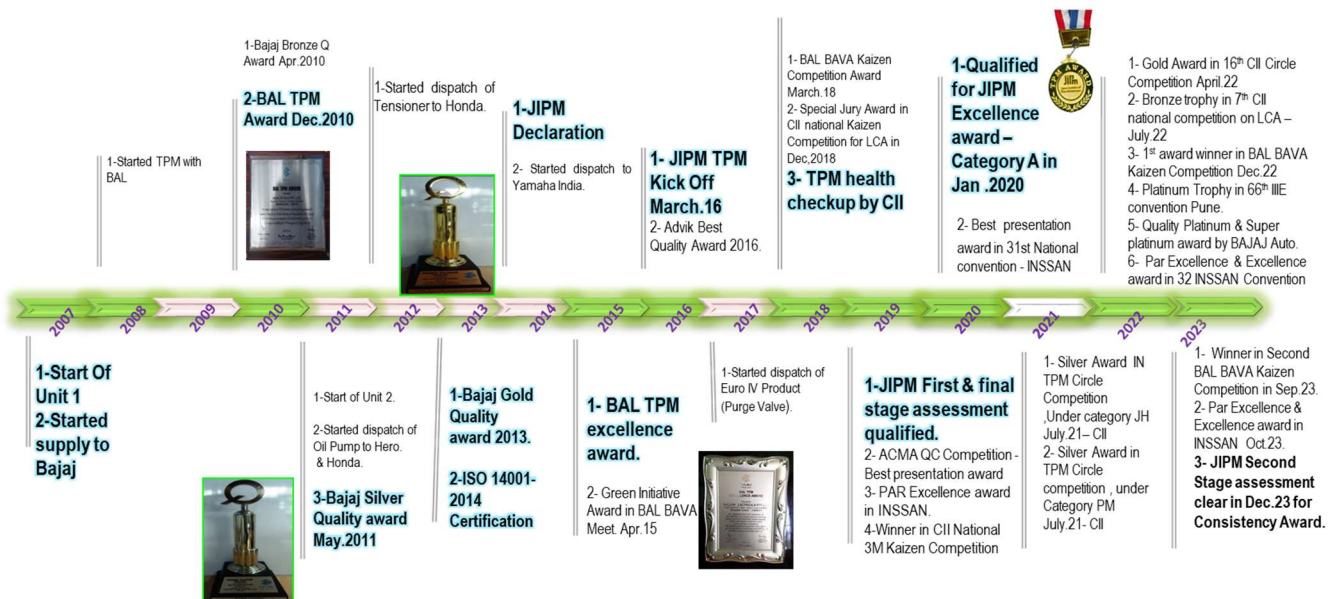
Pantnagar Plant

Pantnagar plant is the 2nd plant of ADVIK HI-TECH PVT. LTD. It is a manufacturing facility established in 2007 and it is located at Plot No. – 7A Sector -09 I.I.E., Sidcul Pantnagar, (Uttarakhand).

Pantnagar Plant manufactures Oil pumps, Tensioners, Fuel cocks, Drum Gear shifter, CGM, Starter Gear and De-comp and supplying to various two wheeler manufacturers.



Plant's Mile Stones



3 - Benefits Achieved

3.1 Pantnagar Plant- Tangible Results

- PBIT increased by 21% and sustained.
- Cost Index for Oil Pump reduced by 4.51 % from 2019 (Excellence Category A)
- Cost Index for Tensioners reduced by 3.33% from 2019.
- OEE machine shop increased by 20.65%. - Sustained
- OEE assembly shop increased by 20.88% - Sustained
- Overall Inventory reduced by 5days from 2019...
- Safety index Sustained 0 to 0.
- Suggestions per employee increased from 1.5 numbers to 1.7 numbers from 2019.

3.2 Pantnagar Plant- Intangible Results

- Enhanced **Teamwork** approach for continuous improvement activities through TPM.
- Enhanced employee **Morale** due to focus on **Zero Customer Complaints, Zero in process defects, Zero breakdowns and Accident.**
- Employees have **Sense of Pride** so started thinking Widely and Deeply in their areas / section to Improve from existing condition to next level.
- Employees are now work as per the **Flexibility** of requirement and open for any changes.
- Sustenance of **Improvements** done by the operators.
- Enhanced operator ownership of equipment with understanding on importance of maintaining basic condition i.e. **“I Operate, I Maintain, I Control”**.
- Repeated failures / defect are not happening due to corrective maintenance & development of **Analytical Capability.**

4. Key of Our Manufacturing Excellence

With the experienced gained through TPM activity, we intend to continue following in future.

- Total Employee involvement through active participation in TPM pillar activities leading to suggestions for continuous improvements.
- TPM methodology has improved analytical & logical approach at all levels. This is to be enhanced through continuous involvement & trainings.
- Sustenance of 8 Pillar activities and go for award for excellence in consistent TPM commitment.

TPM Award Assessment Achievement Sheet

Category	Index (calculation Formula)	Unit	Kick off/TPM started (or last time awarded TPM Excellence Award Category –A 2019-20)	Actual Status 2022	Target 2023	
S	Number of work-related accidents requiring days off work	Cases/year	0	0	0	
S	Number of work-related accidents not requiring days off work (First Aid Case)	Cases/year	12	9	0	
P	Productivity for main product –M/C Shop	Part/Operator Hour	303	246	252	
P	Productivity for main product – Assembly Shop	Part/Operator Hour	332	372	391	
P	OEE Machine Shop (or Overall Plant Efficiency)	%	89.6	90.7	91	
	Availability	%	98.71	98.14	98.30	
	Performance Rate	%	92.45	93.84	94.00	
	Quality Products Rate	%	98.23	98.56	98.50	
P	OEE Assembly Shop (or Overall Plant Efficiency)	%	94.8	95.16	96	
	Availability	%	99.41	99.88	99.50	
	Performance Rate	%	96.62	96.72	97.00	
	Quality Products Rate	%	98.71	98.51	99.50	
P	Number of Breakdown	Breakdown/Month (Average)	3	3	2	
P	MTBF	Hour	18600	20474	30712	
P	MTTR	Hour	1.3	1.07	1	
Q	Number of customer complaints	Number/year	2	1	0	
Q	In-line defect rate	Scrap PPM	297	141	148	
C	Cost index	Oil Pump Tensioner	Cost/Unit	31.33 INR 38.45 INR	29.91 INR 37.18 INR	29 36.5
D	Production Lead time	Days	7	6.5	6	
D	Delivery Performance	%	100	100	100	
S	Safety index (ex-Lost Time Incident Rate)	(Accident per 1,000,000 operator hours)	0	0	0	
M	Number of Employee Suggestions	Number/year	1.5	1.7	2	
Other	<p><Specify achievements not expressible in numerical terms></p> <ol style="list-style-type: none"> Do you have a program where all employees can participate in TPM? - Yes Do you have a program allowing employees to be recognized their achievement? - Yes Are top management involved in the audit/verification of completion of TPM pillar steps? - Yes Are all pillar activity boards displayed and reviewed by top management? - Yes 					