

1. Group and Plant Profile

1.1 Group Profile:

Sansera Engineering was established in 1987 by Mr. Sekhar Vasan at Bengaluru in South India to cater the needs for precision machined components by the fast growing automotive industry. It was a time when the Indian auto industry was shaking itself out of the past. This period saw the coming of Honda, Kawasaki, Mitsubishi, Suzuki, and Yamaha. All of them were here to stay, for India was a giant market hungering for world class products hitherto unavailable. The entry of these international giants created the need to bridge the huge gap in the product quality and capabilities. This is where Sansera found its opportunity, very early Sansera realized that it could dream of Global Leadership in its line of activity if it builds its foundations properly.

Sansera Engineering Limited has 17 state-of-the-art manufacturing and machining plants in India and one plant in Sweden (Trollhattan). Turnover of more than 28114 million INR. Its certifications include IATF16949:2016 TUV Nord, certified ISO14001:2015(EMS) & BS 18001:2007(OHSAS) TUV Nord certified and enjoys long standing relationships with its customers. Sansera Engineering Group industry include Fitwel Tools & Forging Pvt Ltd.

1.2 Group Focus Area:

Sansera focuses on precision machined components that require exacting levels of tolerance and mass production. This focus enables Sansera to capitalize on its strengths in technology and low cost automation. In order to insulate itself from the vagaries of being part of a particular industry segment, Sansera opted for components that address four distinct markets:

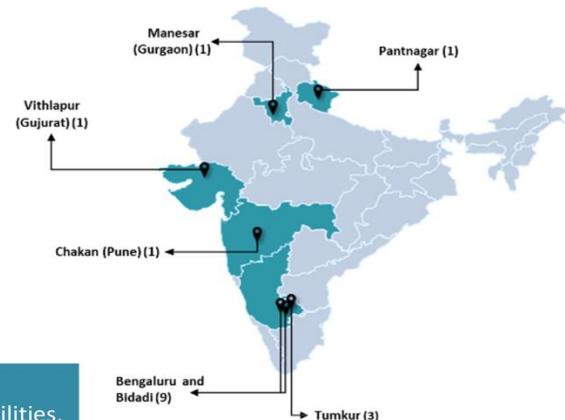
1. Domestic 4-wheeler industry
2. Domestic 2-wheeler industry
3. Electric vehicles
4. Agriculture
5. Marine
6. Aerospace
7. Defense
8. Construction

For the 4-wheeler industry, Sansera concentrates on the supply of Arm valve rockers, Connecting rods, Gear shifter fork etc., For the 2-wheeler industry, Sansera supplies crank shaft assemblies, arm valve rockers, gear shifter forks and connecting rods for precision engine transmission. Exporting these components was a natural extension and the international JV partners are convinced not only of Sansera's capability but also of its competitive pricing.

1.3 Spread:

Sansera is supplying products to four continents America, Europe, Asia and Africa. All our esteemed customer based across the Globe are supplied through our 17 different plants situated in Bengaluru, Manesar, Pune and Pantnagar plant. To meet the customer requirement Sansera is expanding its manufacturing base out of India and acquired one plant at Sweden for European & American Customers.

SANSEERA PRESENCE



Sansera has 16 plants under operation across India, 1 in Sweden.
All its facilities are located in close proximity to the client production facilities.

Overseas Support

❖ USA Warehouse:

International Warehousing Services
15355, Oakwood Drive, Romulus, MI 48174

❖ European Representative and Business Development Europe

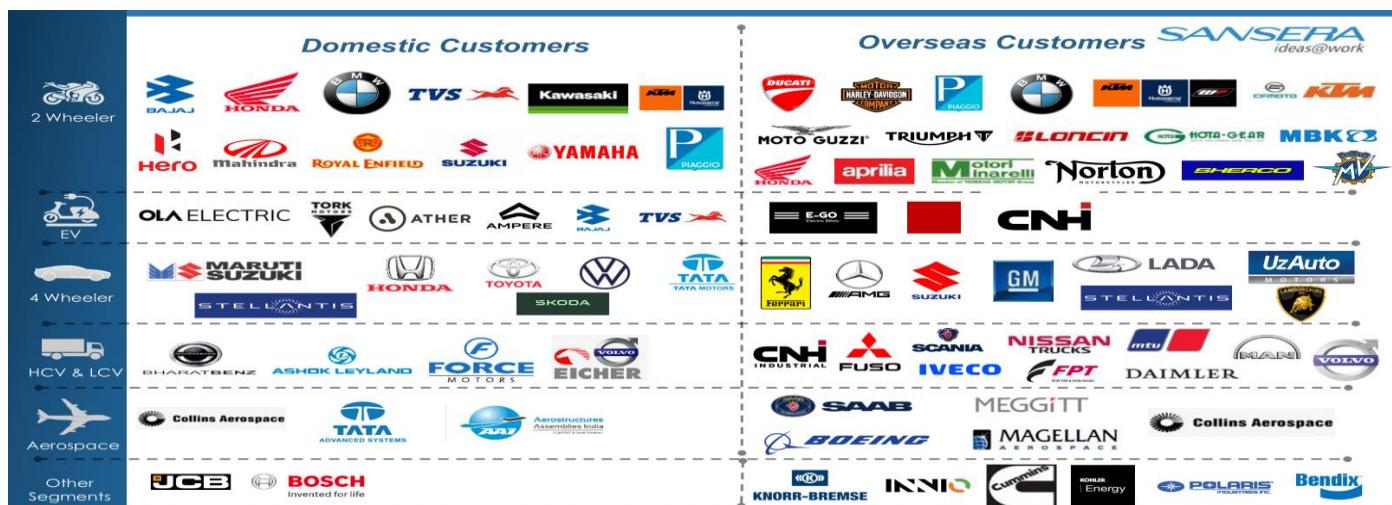
SST S.r.l. Engineering solutions

Headquarter and Warehouse :

Viale degli Artigiani, Nr. 15A and Nr. 24
20832 DESIO (MB) ITALY

1.4 Group Detail:

From its humble beginnings, Sansera today employs over 9900 people, works at an annual turnover of over approx. US \$343 Million per annum and supplies to practically every automotive major in India. Its present capacity enables it to produce 37 million Rocker Arms, 12 million Gear Shifter Forks, 14 million Connecting rods (2 wheeler), 3 million Connecting rods (4 wheeler), 4 million Crank Shaft Assembly and 4 million pieces of other machined components per annum. More importantly, it has been able to convince international majors of its capability to service their global requirements. Sansera has now diversified its risk by entering the Aerospace machining segment.



1.5 Plant Profile: Sansera Pantnagar:

Sansera Pantnagar plant established in April, 2007, built-up area in 12011 sq.m², turnover around US \$ 39.41 Million (2023-24), having In-house forging & machining facilities. Forging facility having 1600T & 1000T Presses, 1.5 & 1T Hammers, & other required equipment. Machine shop is equipped with number of SPMs', precision CNC machines, electro pneumatic presses and Metrology & Metallurgy lab with state-of-the art equipment. Sansera has state-of- the art Heat Treatment plant, equipped with Ipsen sealed quench furnaces, washing machines, and tempering furnaces. Heat Treatment facility is also equipped with Induction Hardening machines with CNC controller. Sansera is catering to the needs of 15 OEMs like Bajaj, Maruti Suzuki, Honda Cars India, Toyota Motor Corporation, HOTA (BMW), India Yamaha Motor, Royal Enfield, KTM, Hero Moto Corp Ltd., TVS Motors, SMG, Mahindra and Mahindra, Scania, Man Truck and Buses, etc.,



Sansera Engieering Limited, Pantnagar plant

1.5 Sansera Pantnagar plant product details:

Bajaj Auto Limited



Royal Enfield



Crank shaft

SANSERA
ideas@work

KTM



Gear Shifter Fork

HOTA



Gear Shifter Fork

TVS



India Yamaha



Crank shaft assembly

Connecting rod

Gear Shifter Fork

Hero Motocorp Ltd



Gear Shifter Fork

MAHINDRA & MAHINDRA



MAN TRUCK



Honda Cars India Ltd



Toyota Motor Corporation



Maruti Suzuki IndiaLtd



1.6 Sansera Pan Nagar Plant Infrastructure:

Sl. No.	Section	Quantity
1	Forging press line(With IBH)	1600 T-2 Nos. 1000 T - 2 Nos. 1250T – 01 Nos
2	Forging hammer line(With IBH)	1 T - 3 nos. 1.5 T - 1 nos.
3	Die welding and wire cutting	2 stations And 1 station
4	Die Milling	CNC machine - 5 nos.
5	Crank shaft machining	Lines - 7 sets.
6	Crank shaft assembly	Lines- 4 nos.
7	Rocker arm machining	Lines - 2 nos.
8	Gear shifter fork (2W) Machining	Lines - 3 nos.
9	Connecting rod machining	Lines - 2 nos.
10	Gear shifter fork (4W) Machining	Lines - 1 nos.
11	Heat Treatment	SQF - 3 nos.
12	Metallurgical lab	1 Lab
13	Metrology lab	1 Lab

Metallurgy



Metrology





Induction Hardening & Tempering

Die Milling



Die Milling



Heat Treatment



Induction Hardening



Forging Hammer



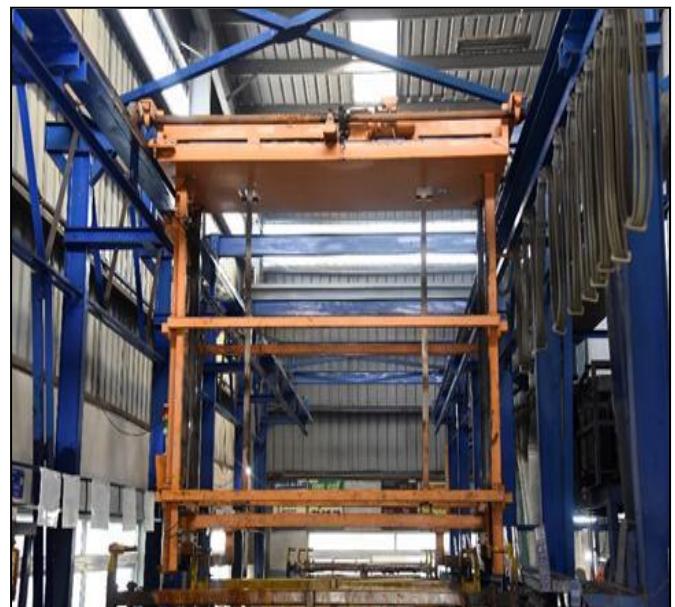
Forging Press



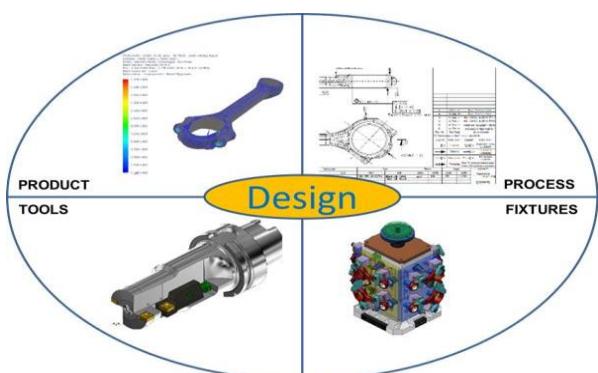
Shot Blasting



Chrome Plating



Design Capabilities



Auto Transfer 4-Station machine

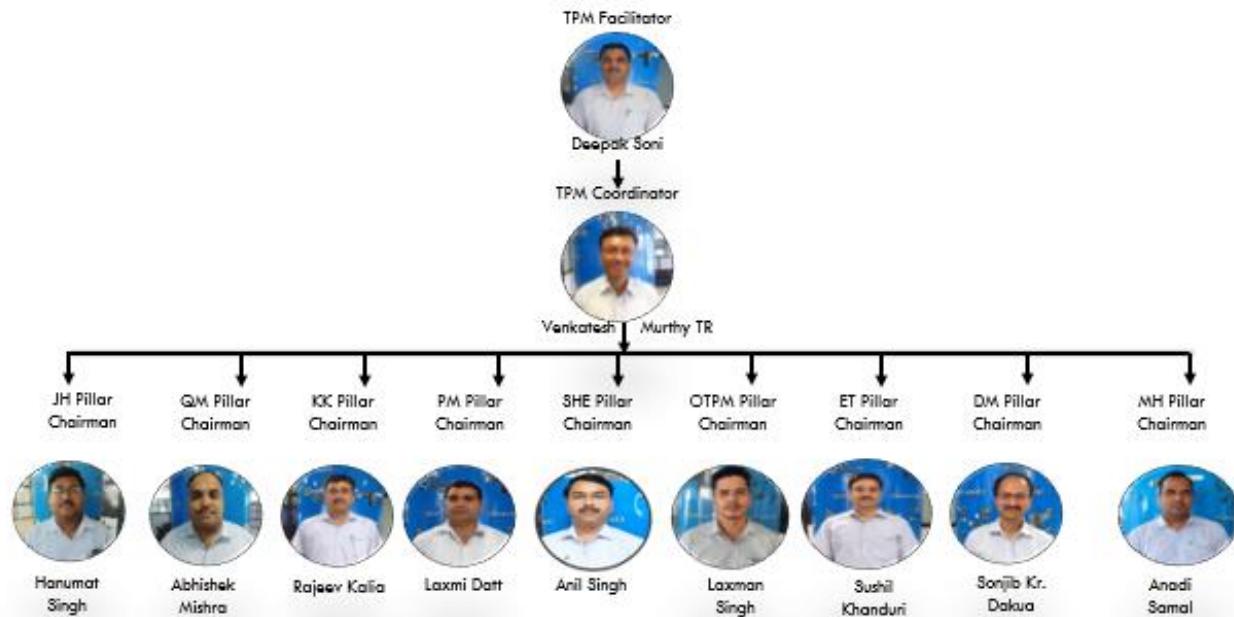


3rd generation honing machine



- ▶ Digital Servo Technology.
- ▶ Open loop & Closed loop control system.
- ▶ Control Electronics PCB's.
- ▶ Motion Control Algorithms.
- ▶ In-house Software.
- ▶ Small foot print & Lower power.

1.7 Management Organization:



2. Milestone on the Journey of Manufacturing Excellence:

We have been able to take a lot of positives from TPM journey which helped us building a healthy work culture. Few of the milestones are.

- TPM Kick-off in April-2008.
- ISO/TS-16949 Certification-2009.
- Commencement of Forge shop in May-2009.
- ISO 14001 & OHSAS 18000 Certification-2010.
- BAJAJ AUTO LIMITED (BAL) **TPM AWARD** in April-2011.
- BAL 'Q' Bronze Award in May-2011.
- BAL 'Q' Silver Award in April-2012.
- BAL 'Q' Gold Award in May-2013.
- BAL TPM **excellence Award** in April-2014.
- BAL Q Gold Consistency Award-2014, 2015, 2016
- Challenged JIPM Category A Award in Dec-2018.
- BAL 'Q' Platinum Award in -2022
- zero delivery failure appreciation from Maruti Gujrat in Aug-2024
- Zero PPM" Award from TIEI in 2023.

2.1 TPM Declaration:

On 9th Apr- 2008, our Chief Managing Director, Mr. Sekhar Vasan made a declaration that Sansera will be adopting TPM for achieving the Business Excellence in manufacturing operation.

We started this **TPM journey** in 2008 & practicing from last 17 years. The challenge in this changing market has been to sustain the competitive edge technically and commercially to grow. It is no more a choice but necessity. TPM is a quite clear tool which systematically takes us to optimize our investments, expenses & gains.

After achieving BAL TPM Excellence award in 2014, we initiated the **JIPM TPM Excellence journey and received the award in 2019. In 2025, we would like to challenge Award for Excellence in Consistent TPM Commitment** so as to reach to the depth of all 8 pillars & take maximum benefit of this learning. We have been timely guided by knowledgeable consultants with their valued inputs. The journey has been more accomplishing for the fact that, it has helped us to remain competitive and boosted the team's morale. The gains for sure will help us to remain adoptive and agile organisation ready for the changing customer demands and business vulnerability.

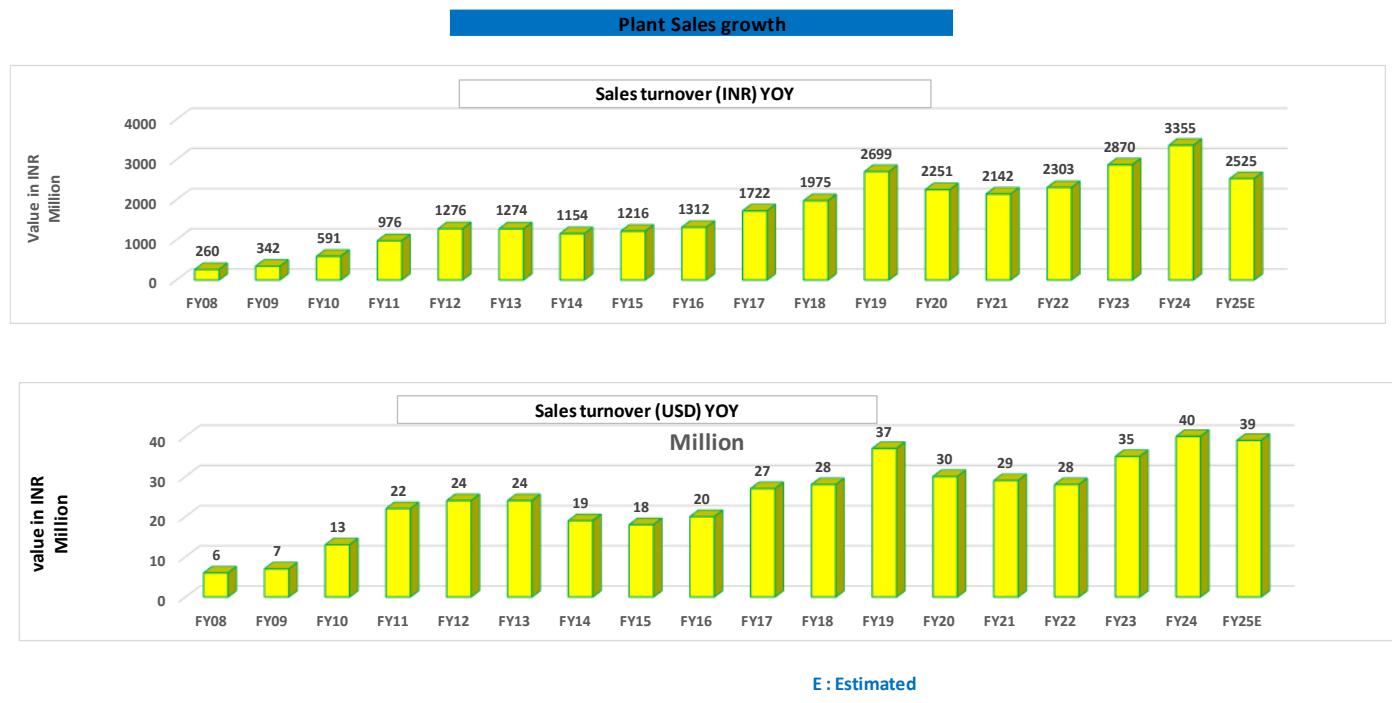
We are proud of our team for their involvement and efforts, because of which we are at a position to challenge the **Award for Excellence in Consistent TPM Commitment**. We express sincere thanks to our consultants for their timely guidance & support. We are confident that we will be successful in this endeavour.

TPM Kick Off Ceremony



3. Benefits Achieved

3.1 Tangible Benefit:



3.2 Intangible Benefit:

Work Culture:

- Sense of ownership of equipment / process i.e. 'I Operate, I maintain, I control "
- We have started focusing on theme based Kaizen implementation & participated in number of external as well as internal competitions.
- We have started believing the possibility of Zero Customer Complaints, Zero In-process defects, Zero breakdowns and accident.
- We have started thinking Widely & Deeply in their areas / section to improve from existing condition to next level.
- We now work as per the Flexibility of requirement and open for any changes. Sustenance of Improvements done by the operators.

System Orientation:

- Management objectives are well linked to Plant Objective, Department Objective and then to Cell Objectives. Focusing cell working is more meaningful and systematic way.
- Neat and clean working environment can be seen.
- Well defined system for maintenance spare management, Quality monitoring and Production monitoring etc.

Analytical Approach:

- Continuous Improvement / Focus on prevention by continuously monitoring the losses & doing root cause analysis and Kaizen Implementation.

Flexibility:

- Flexibility in manufacturing due to Multi-skilled operator.
- Production Output as per the Customer Pull.

4. Key of our Manufacturing Excellence:

- Time reduction in developing of new products.
- Vertical growth by automation & technology.
- Inculcate excellence culture, upstream of our value chain, by extending TPM to our vendor base & in Sansera group.
- Automation for FG, WIP and movement.

9. Future Plan:

- Continuous efforts for meeting vision 2024 targets with continuous implementation of TPM practices.
- Efforts for achieving TPM consistency award.
- Mapping on carbon foot print and actions to reduce the carbon foot print.
- Efforts for merging TPM with Daily Work Management.
- Adoption of Government school as CSR activities.
- Horizontal Deployment of TPM Practices across the Group Companies.

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