
SINTERCOM
India Ltd.


Innovation in Motion
Miba

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SINTERCOM KEY MILESTONES

Company History

2007-2009

- Establishment of Maxtech India Pvt. Ltd.
- Start of manu-facturing at TS 16949:2008 certified Talegaon plant
- JV with MIBA Sinter Austria (Equity & Technology Transfer)
- Company name changed to Sintercom India Pvt. Ltd. ISO 14001:2004 certification
- Start of supply to Maruti Suzuki India Ltd.
- Appreciation from Maruti Suzuki India Ltd. for Design & Development
- Appreciation from Bajaj Auto Ltd. for Best Kaizen
- Initiated process for SME IPO filing with NSE
- Company listed on NSE Emerge

2010

- Stainless Steel Hego Boss Conversion of Forged sprockets to Sintered sprockets

2011

- Conversion of Forged Gears to Sintered Gears (Two Wheelers Segment)

2012

- Conversion of Forged Sensor Rings to Sintered Rings (CV Segment)
- Development of Cam to Cam Gears (PV Segment)

2013

- Development of Sinter-hardened Synchro Hubs (PV Segment)

2014

- Conversion of Forged Synchro Rings to Sintered Rings (CV Segment)

2015

- Development of 6-speed transmissions Synchro Hubs (PV Segment)

2016

- Conversion of forged shift tower compo-nents to sintered (PV Segment)

2017

- Conversion of forged bearing caps to sintered (UV Segment)

2018

- Development of split gear for 2 Ltr Engine

SINTERCOM MEMBERS OF BOARD

Hari Nair
Chairman – SIL

Member of Board active since 2015
20 years of experience at Tenneco
COO at Tenneco for 5 years
Member of Board of Directors & Chairman of Compensation Committee at Owens-Illinois since 2013
Degrees from Harvard Business School, University of Notre Dame and Bradley University

Harald Neubert
Board of Director-SIL

Member of Board active since 2011
10 years of experience at Miba AG
Member of Board at, Miba AG since 2009,
CEO, Miba Sinter Group
President at GKN Sinter Metals for ASPN
operations since 1998 to 2007
Degree from University of Essen

Jignesh Raval
Board of Director– SIL

Member of Board & Managing Director
active since 2007
9 years of experience at Tenneco Inc
as Executive Director, GSCM
20+ years of experience in automotive industry
Degree in Engineering

Preeti Ramdasi
Independent Director

Preeti Ramdasi, is an independent director of the Company. She has been on the board of the company since November, 2017. She received a degree of B.A/LL.B (Hons.) from National Law School of India University and has over 3 years of experience. She has worked as Senior Program Officer - Sustainable Business with World Wild Fund for Nature. She currently works as a Corporate Social Responsibility Consultant for various companies.

Madan Godse
Independent Director

Madan Godse, is on the board of our company since November, 2017 as as independent director. He received a Master's degree in commerce from University of Pune and a Master's degree in arts. He also obtained Certificate of Membership from the Institute of Company Secretaries of India and a Bachelor's degree in law from University of Pune. He is a member of the Bar Council of Maharashtra & Goa and has over 30 years of work experience in secretarial compliance and law.

SINTERCOM MANAGEMENT TEAM

Jignesh Raval
Managing Director (CEO)– SIPL

Managing Director since 2007
9 years of experience at Tenneco Inc as Executive Director, GSCM
20+ years of experience in Automotive Industry
Degree in Engineering

Pankaj Bhatawadekar
Chief Financial Officer

Joined SIL in 2009
Certified Chartered Accountant from ICAI
More than 14 years experience in the field of Finance

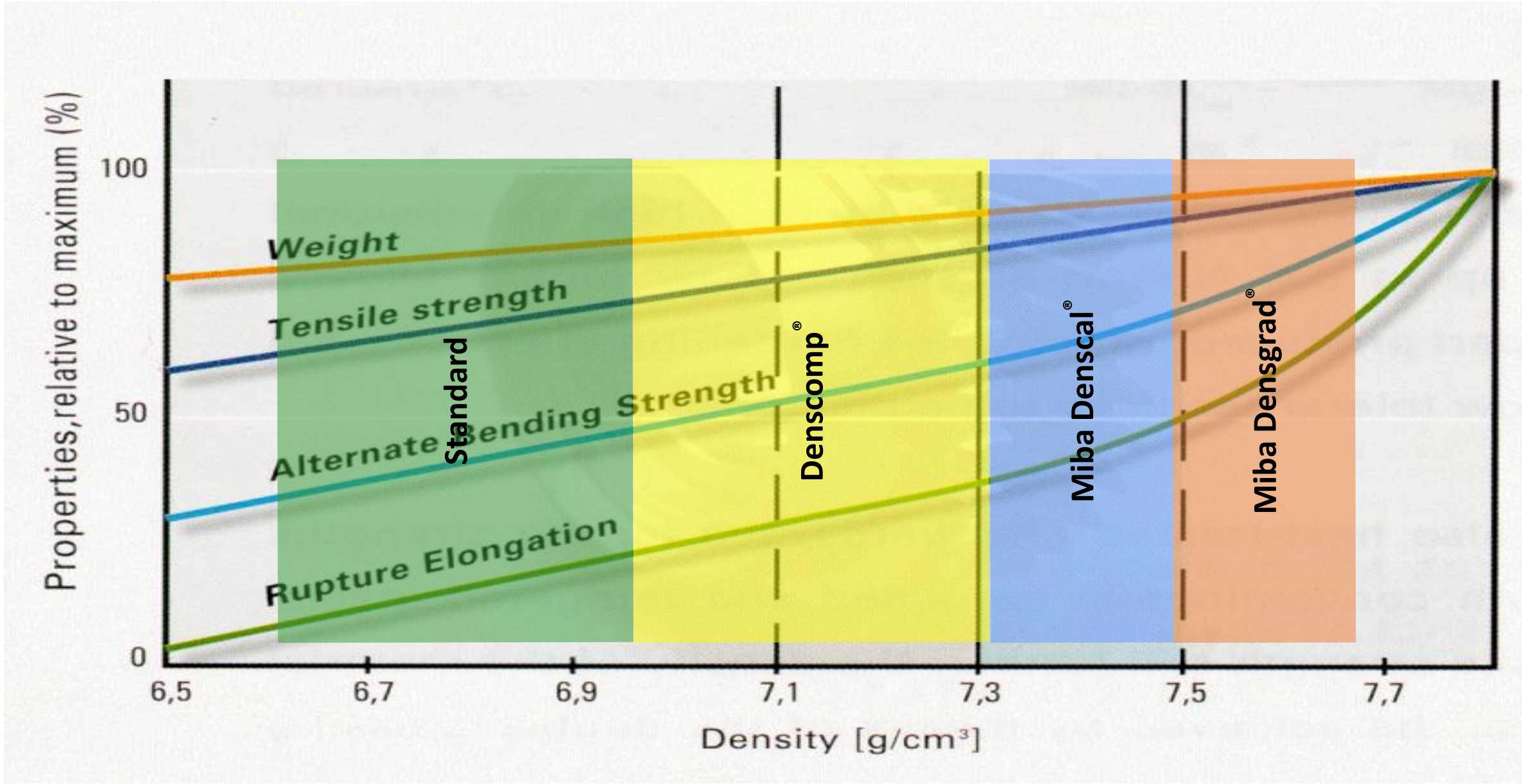
Nikhil Chavan
Head- Engineering & Marketing

Joined SIL in 2007
Degree from University of Pune
More than 10 years experience in the field of Automotive Industry

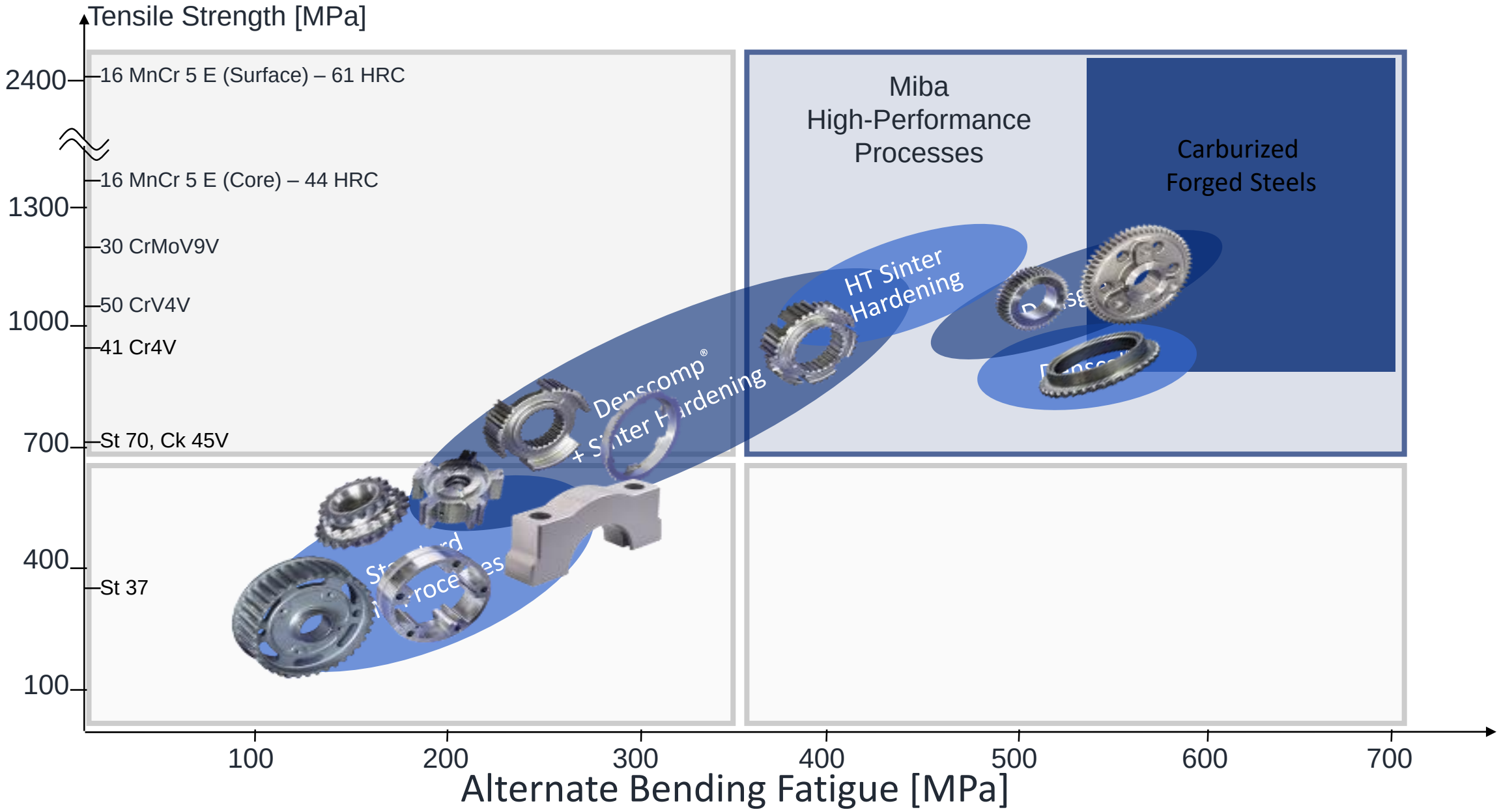
Sachin Gunjal
Head- Manufacturing

Joined SIL in 2008
More than 14 years of experience in Auto Components Industry
Previously worked with EMITEC Emissions Control Technologies
Diploma in Mechanical Engineering

SINTERCOM TECHNOLOGY



OPTIMIZATION OF PERFORMANCE



SINTERING TECHNOLOGY

PROCESS

Conventional Sintering	• Powder metal is compacted into net shape using die toolings • Compacted components are then sintered into furnaces at high temperatures below melting point in a phase wise manner • Upto 90% dense symmetric components can be produced
Isostatic Sintering	• Powder metal is compacted into net shape using isostatic pressure on die walls • Compacted components are then sintered into furnaces at high temperatures below melting point in a phase wise manner • Upto 90% dense symmetric and long components can be produced
Metal Injection Molding	• Powder metal is injected inside the injection molds using extruder, similar to plastic injection molding. • Molded components are then sintered in high temperature vacuum furnaces • Upto 99% dense and complex shape components can be produced
Additive Manufacturing	• Powder metal is spray printed layer upon layer using 3D modeling software enaled 3D printer • Simultaneously, through laser or other concentrated source, it is heated and sintered in real time. • Any shape and components can be produced

USAGES

Automotive	• Engine : - Gears, Sprockets, Rotors, Pulleys, Spacers • Transmissions : - Synchro Hubs, Synchro Rings, Shift tower components • Auxiliary : - Alternator and Turbocharger components, Water pump rotors, Fuel injectors • Body/Chassis : - Sensor ring, Sensor boss
Aerospace / Defence	• Valve bodies • Fuel injectors • Alternator and electric motor components • Firearm components
Medical Equipment	• Surgical instruments • Surgical implants • Electric components of medical equipment
Consumer Goods	• Electric components like motors and inverters • Connecting rods and pistons of compressors • Soft magnetic cores • Valve bodies

SINTERING – GREEN MANUFACTURING

Responsible Use of Resources

Metal Powder
(produced out of recycled steel scrap)

Raw Material Intensity
1,04 kg Raw Material / kg Product

2,3 kg Water / kg Product

Low Water Consumption

Lean P/M Prozessing

Evironmentally friendly Products

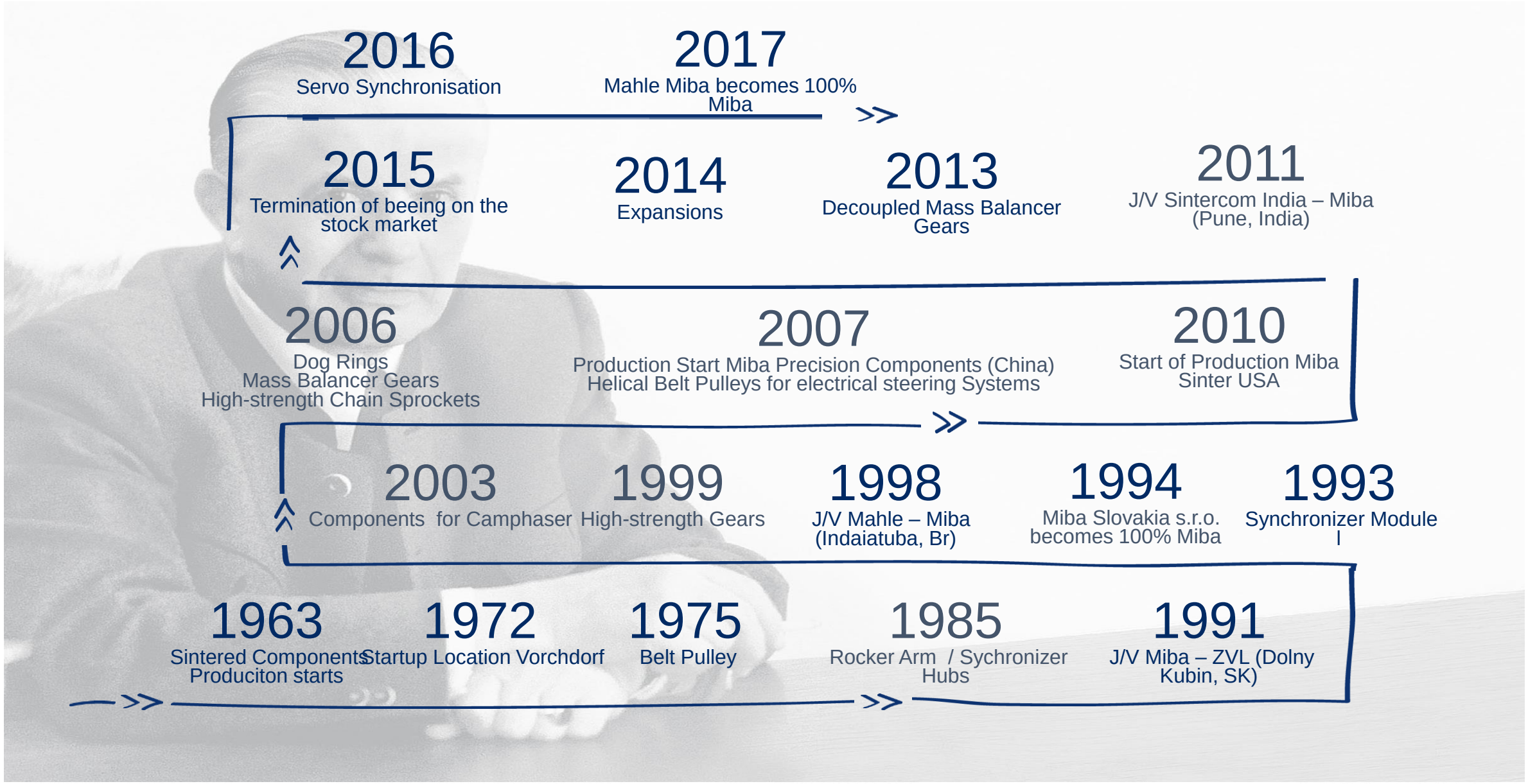
0,11 kg Waste / kg Product

3,8 kWh / kg Product

Low Energy Consumption

Low Waste Material

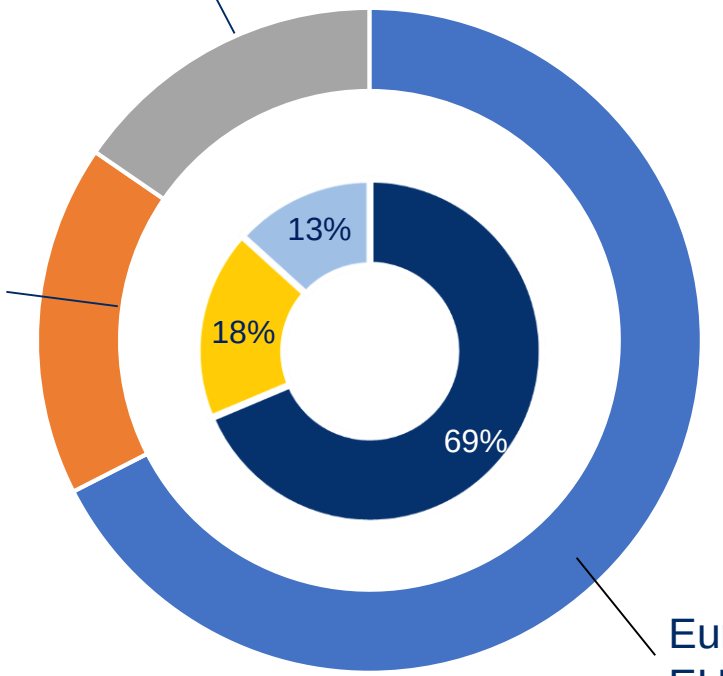
HISTORY – MIBA SINTER GROUP



MIBA GROUP – Overview

Asia: 15%
EUR 133
million

Americas:
17%
EUR 151
million



Europe: 68%
EUR 604
million

887.6
EUR MN
Revenue

23 Sites
Globally

80.40
EUR MN
Investments

6860
Employees

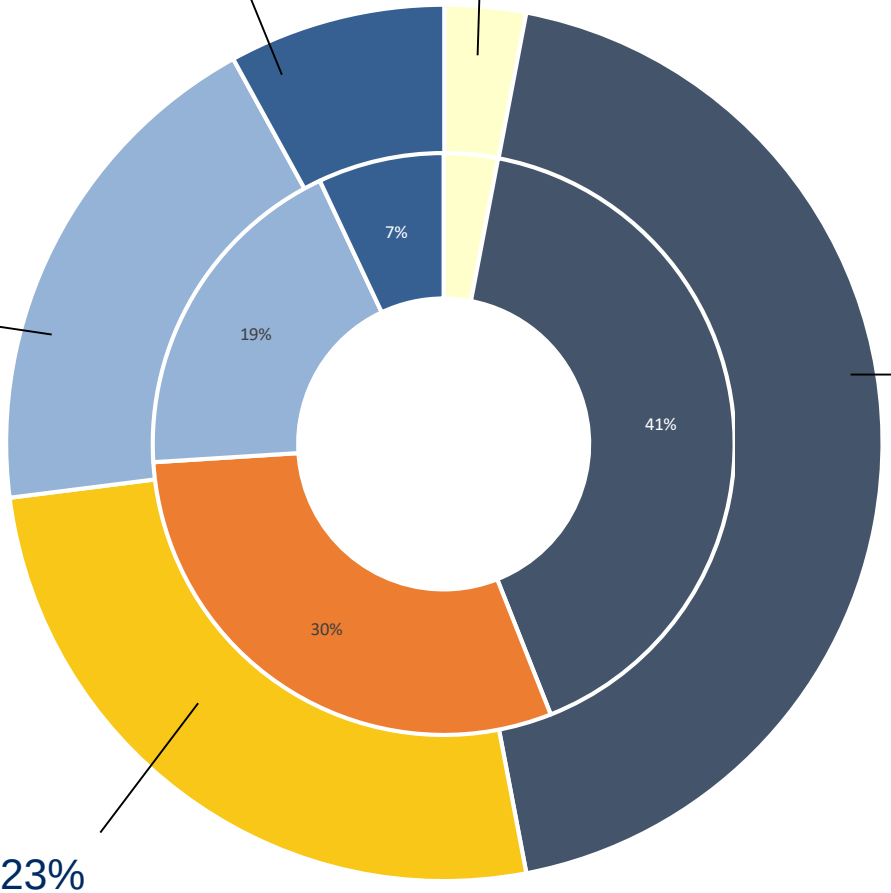
4.50
Research
Ratio

MIBA GROUP – REVENUE BY DIVISION

Total:
EUR 888 million

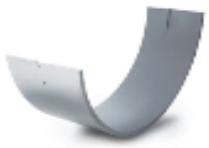
Other: 6.9%
EUR 61 million

Power electronics: 7.1%
EUR 63 million



Friction: 20%
EUR 177 million

Sinter: 43%
EUR 383 million



Bearing: 23%
EUR 204 million

SINTERCOM – CUSTOMERS

OEM

Mahindra Rise.

MARUTI SUZUKI

BAJAJ Distinctly Ahead

HYUNDAI

BHARATBENZ

TATA

FIAT

TIER 1

DivgiWarner

SCHAEFFLER

LUK INA FAG

KHM Drive Systems Pvt. Ltd.

sona Driving Tomorrow

BEST KOKI AUTOMOTIVE (P) LTD.

Eberspächer®

EATON Powering Business Worldwide

faurecia

AAM

Valeo

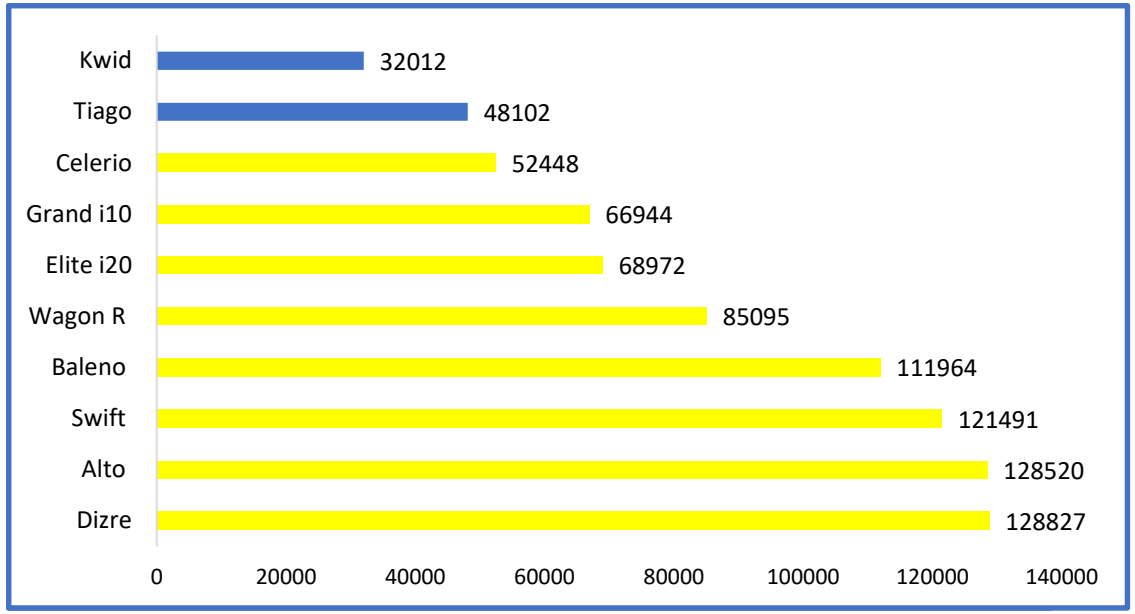
TOP VEHICLES BY SALES IN PASSENGER AND UTILITY VEHICLE SEGMENTS

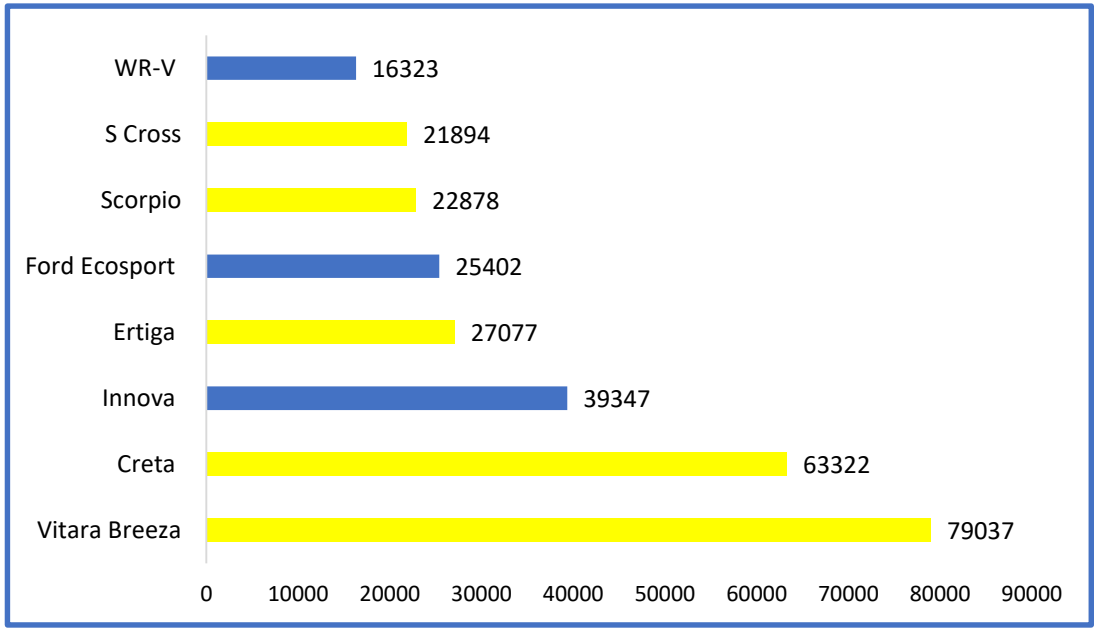
Top 10 PVs by Sales – April-September 2019

Sintercom presence

Top 10 UVs by Sales – April-September 2019

Source : SIAM





1	Dizre	128,827
2	Alto	128,520
3	Swift	121,491
4	Baleno	111,964
5	Wagon R	85,095
6	Elite i20	68,972
7	Celerio	52,448
8	Tiago	48,102
9	Kwid	32,012
10	Grand i10	66,944

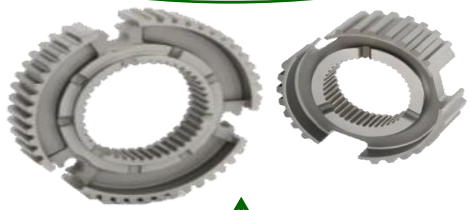
1	Vitara Breeza	79,037
2	Creta	63,322
3	Innova	39,347
4	Ertiga	27,077
5	Ford Ecosport	25,402
6	Scorpio	22,878
7	S Cross	21,894
8	WR-V	16,323

SINTERCOM TECHNOLOGY ROADMAP

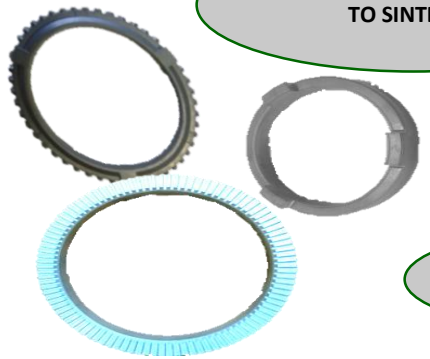
SINTERCOM – PIONEER IN PM SINTERING TECHNOLOGY IN INDIA

DEVELOPMENT OF SS HIGH TEMPERATURE SINTERING – A FIRST IN INDIA

INTRODUCTION OF SINTER HARDENING TECHNOLOGY IN INDIA

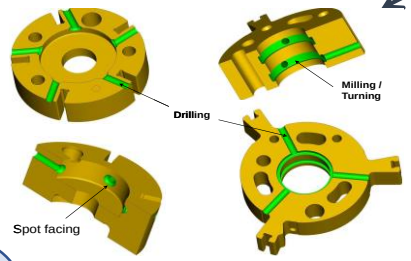


COVERSION OF FORGED RINGS TO SINTERED



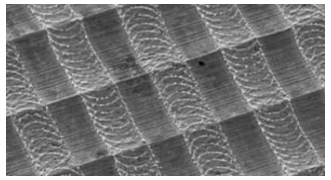
COVERSION OF FORGED SPROCKETS TO SINTERED COMPONENTS

DEVELOPEMENT OF DENSCOMP



INTRODUCTION OF GREEN MACHINING AND DRILLING FOR VVT ROTORS

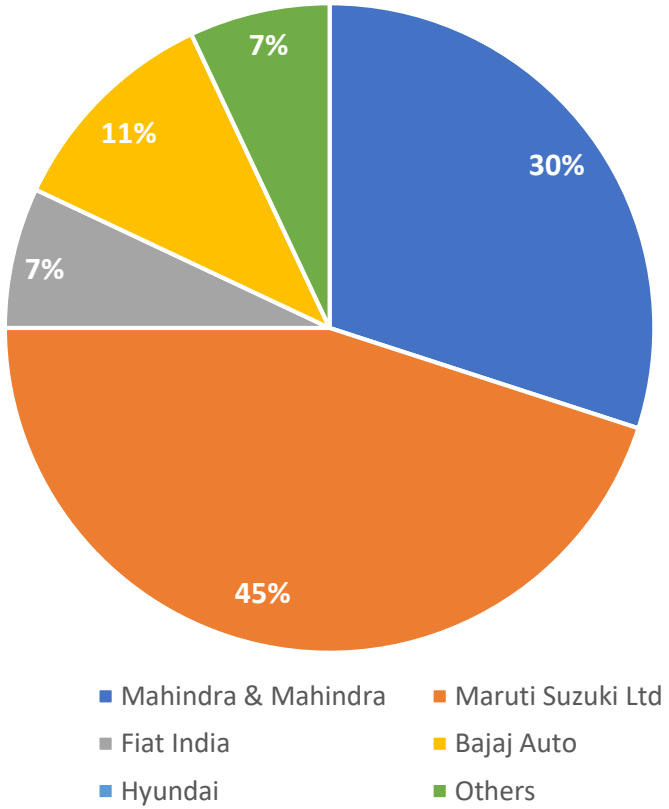
NET-SHAPE TECH FOR PRODUCTION OF COMPONENTS WITH PROTRUSION



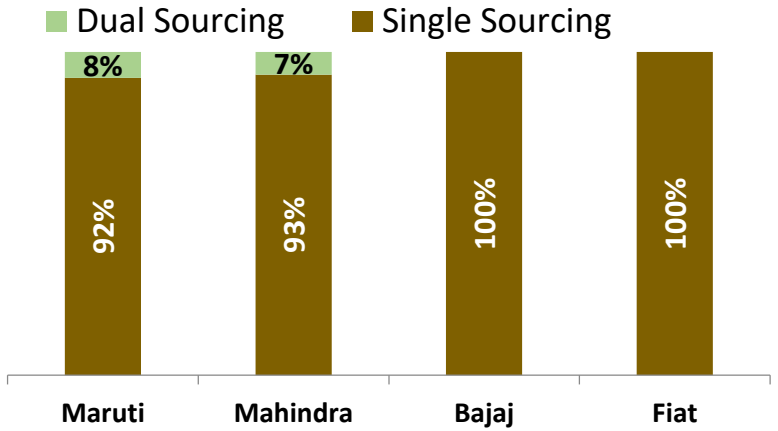
DEVELOPMENT OF SURFACE LASER STRUTURING

SINTERCOM – OVERVIEW

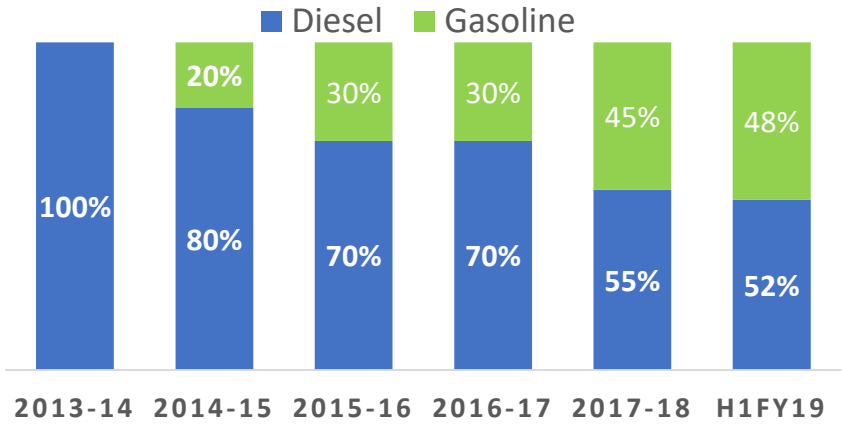
Customer-wise breakdown H1FY19



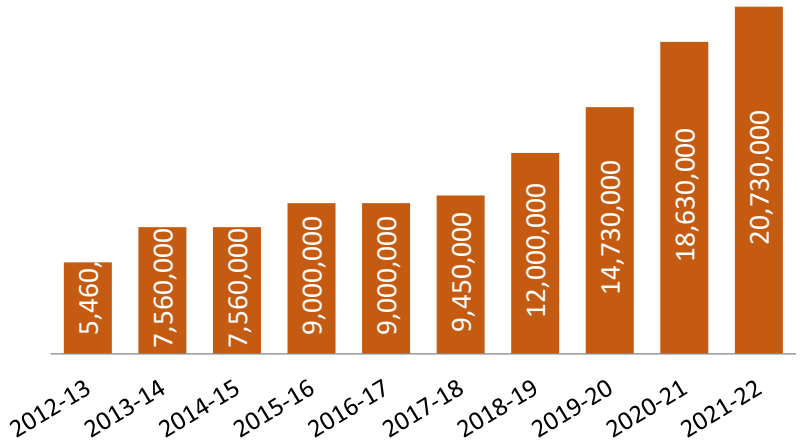
OEM wise Sourcing



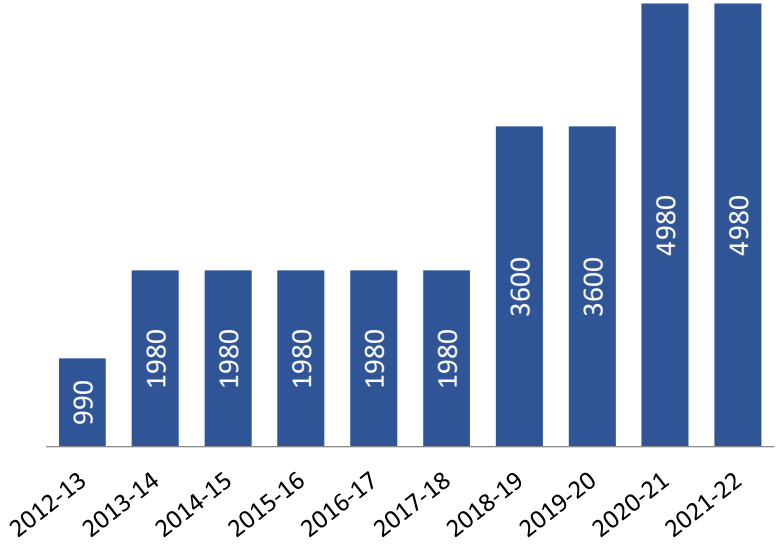
Product Mix



Capacity- Compaction



Capacity - Sintering



PORTFOLIO – DIESEL POWERTRAIN

FLEXIBLE DIESEL SOLUTIONS FOR APPLICATIONS FROM 0.8L TO 2.4L ENGINES

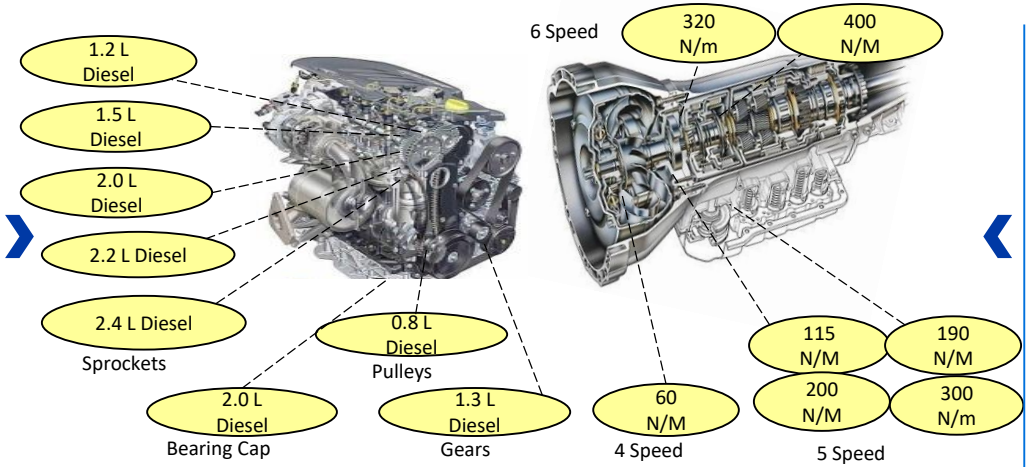
BELT PULLEYS

CAM GEARS

BEARING CAPS

TIMING CHAIN SPROCKETS

ROTOR SENSING



SYNCHRO HUBS & RINGS

SHIFT TOWER COMPONENTS

DIESEL ENGINES

- High strength sprockets and pulleys for diesel engines
- High strength wear resistant cam gears for diesel engines
- Lightweight components, better NVH and FE performance
- Flexible material choice for variety of usage (PV, UV & CV)

TRANSMISSIONS

- High strength synchro hubs and rings for diesel UVs and CVs
- Net-shape manufacturing of asymmetric shift tower components with high wear resistant materials
- Lightweight components, better NVH and FE performance

Leveraging investment for broad range of PV, UV and CV applications

PORTFOLIO – GASOLINE POWERTRAIN

FLEXIBLE GASOLINE SOLUTIONS FOR APPLICATIONS FROM 0.8L TO 1.5L ENGINES

BELT PULLEYS

ANTI BACKLASH GEARS

BEARING CAPS

VVT / VCT

ROTOR SENSING

2W Engine

Gears

1.2 L Gasoline

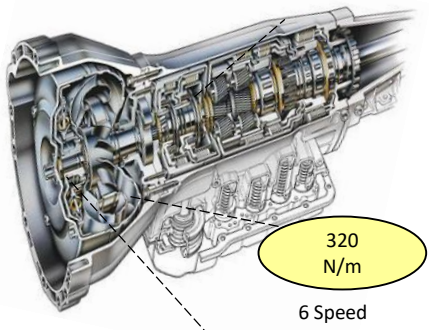
Sprockets

1.2 L Gasoline

Bearing Cap

1.4 L Gasoline

Rotor Sensing



320 N/m

6 Speed

125 N/M

200 N/M

5 Speed

SYNCHRO HUBS & RINGS

SHIFT TOWER COMPONENTS

GASOLINE ENGINES

- Wear resistant belt pulleys for PV gasoline engines
- Anti-backlash gears for reduced vibrations for PV & 2W
- Lightweight components, better NVH and FE performance
- Flexible material choice for variety of usage (PV & UV)

TRANSMISSIONS

- Medium strength synchro hubs and rings for PVs
- Net-shape manufacturing of asymmetric shift tower components with high wear resistant materials
- Lightweight components, better NVH and FE performance

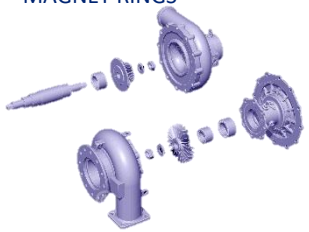
Optimized solutions for range of 2W, PV and UV applications

PORTFOLIO – ELECTRIC POWERTRAIN

POWERTRAIN ELECTRIFICATION SOLUTION – CATERING TO FUTURE NEEDS

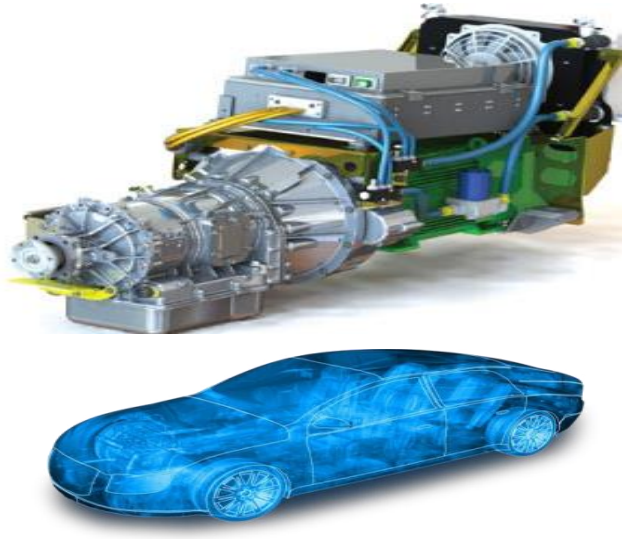
ALTERNATOR MAGNET RINGS

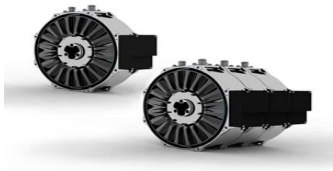
ELECTRIC POWER STEERING PARTS

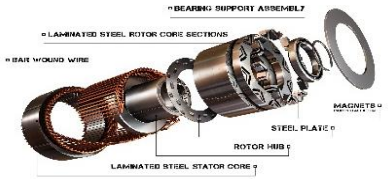


TURBOCHARGER FOR SMALL ENGINES

PUMP ROTORS

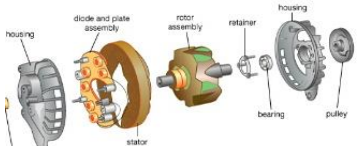






ELECTRIC MOTOR

PLANETARY GEARBOX



INVERTER

VEHICLE ELECTRIFICATION

- Conversion of alternator components to sintered for high volume applications
- Conversion of alternator components to sintered for high volume applications
- Lightweight components in Range Extension engines

FULL ELECTRIC VEHICLE

- Soft magnetic sintered cores of electric motors and inverters
- Net-shape manufacturing of complex and compact components of electric motors, alternators and cooling system
- Planetary gears of final drive

Ready for market shift towards complete powertrain electrification

SINTERCOM – CURRENT PRODUCT RANGE

		Engine					Transmission			Body Chassis & Other
OEM Vehicle Platforms		Sprockets	Gears	Pulleys	Bearing Caps	Sensor system	Synchro Hubs	Synchro Rings	Shift system	SS Boss & Flanges
Maruti Suzuki & SMG	Eeco			✓						
	Alto						✓			
	Celerio						✓		✓	
	Wagon-R						✓			
	Swift		✓			✓	✓			
	Dzire		✓			✓	✓			
	Ertiga		✓			✓	✓			
	Baleno		✓			✓	✓			
	Vitara Brezza		✓			✓	✓			
	Ignis		✓			✓	✓			
	Ciaz		✓			✓	✓			
	S-Cross		✓			✓	✓			
Mahindra & Mahindra	Bolero	✓				✓	✓		✓	
	Scorpio	✓				✓	✓		✓	
	Xylo	✓				✓	✓		✓	
	Maxx	✓				✓	✓		✓	
	Thar						✓	✓		
	XUV500					✓	✓			
	TUV300	✓				✓	✓		✓	
	KUV100	✓				✓	✓			
	Quanto	✓				✓	✓		✓	
	Nuvosport	✓				✓	✓		✓	
	Jeeto	✓					✓			
	Maxximo	✓					✓			
	Marazzo	✓					✓			
	Supro	✓					✓			

SINTERCOM – CURRENT PRODUCT RANGE

		Engine					Transmission			Body Chassis & Other
OEM Vehicle Platforms		Sprockets	Gears	Pulleys	Bearing Caps	Sensor system	Synchro Hubs	Synchro Rings	Shift system	SS Boss & Flanges
Fiat India	Punto		✓							
	Linea		✓							
	Jeep Compass		✓				✓			
	Tata Zest		✓							
	Tata Tiago		✓							
	Tata Bolt		✓							
Hyundai	i10	✓			✓					
	i10 Grande	✓			✓					
	i20	✓			✓					
Bajaj	Pulsar		✓							
	Avenger		✓							

SINTERCOM – NEW PRODUCT PIPELINE

Product roadmap

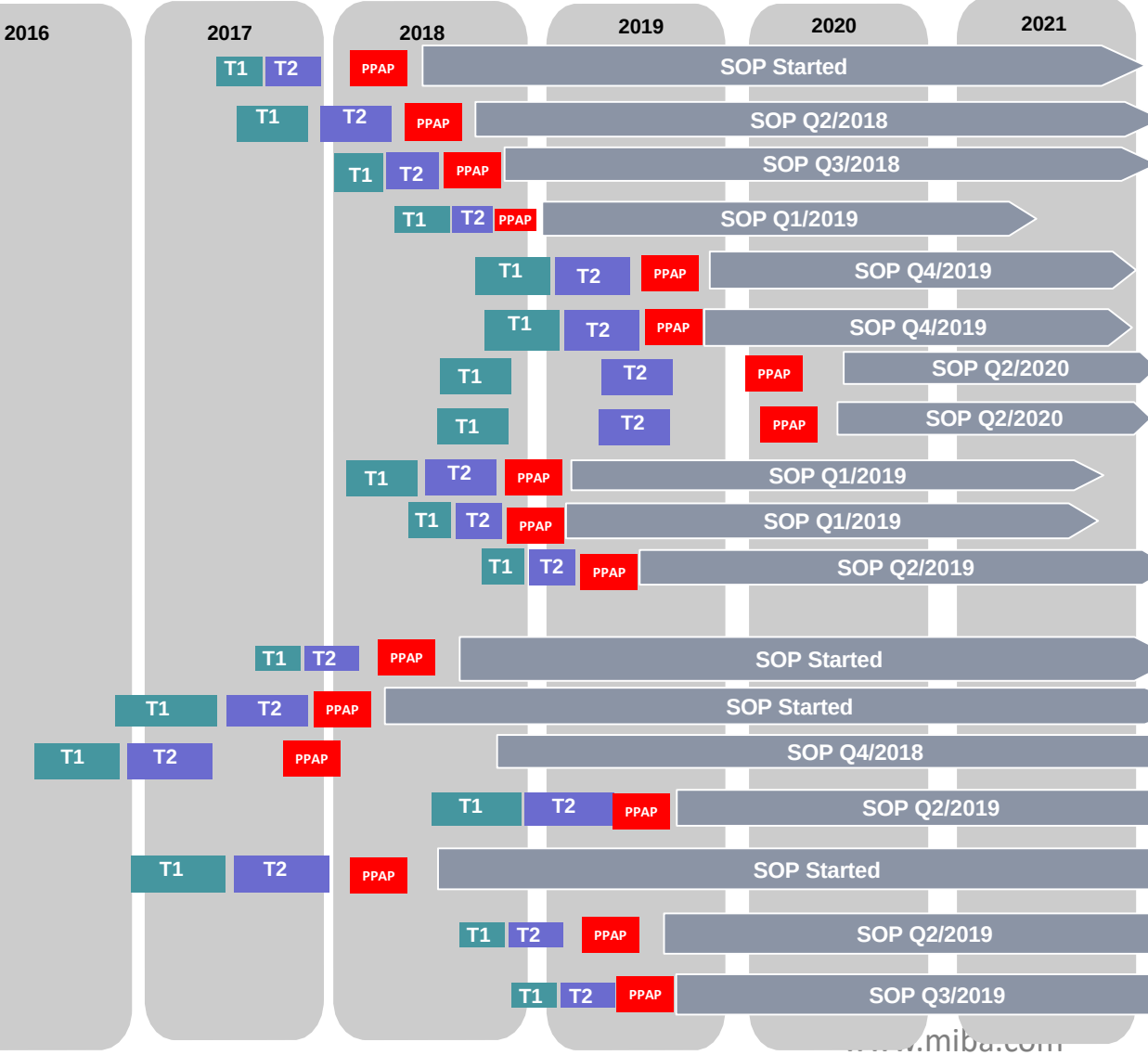
Strong new product pipeline with multiple key upcoming introductions

Engine

- D15; 1.5 Lt Engine ; Sprockets
- K12C Rotor Sensing
- 2-wheeler Starter Gear
- U2 Guided Sprocket
- D20 Sprocket
- G20 Sprocket
- D20 MBC
- G20 MBC
- Cam to Cam with Backlash System
- YRA K12N, Rotor Sensing
- U2;.2/1.5 litre ; Sensor Boss

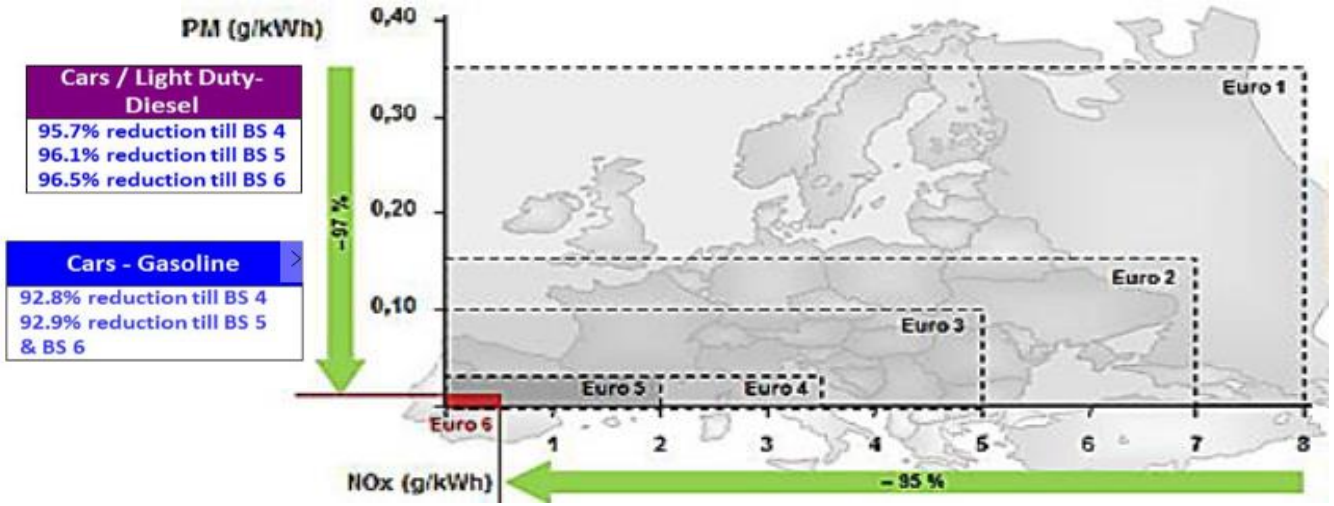
Transmissions

- U321 6-speed T/M
- 6MT T/M
- YL1-MC 6-speed T/M
- C635 6-speed T/M
- 5MT Shift Finger
- W601 Hubs (6F)
- Hub- 5th Speed Sync (SMG)



INDIA EMISSION REDUCTION ROADMAP

BS-IV to BS-VI by 2020



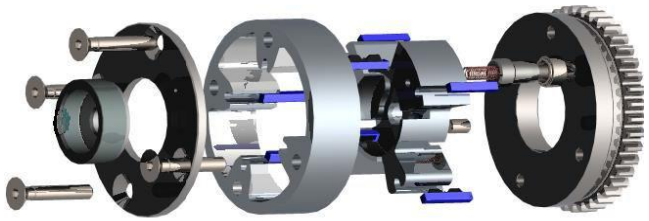
4-W PASSENGER VEHICLES					
	CO	HC	NOx	PM	NVH
	g/km	g/km	g/km	g/km	dB
BS-III	2.3	-	0.5	0.1	80
BS-IV	1	-	0.25	0.025	75
BS-VI	0.5	0.1	0.08	0.0045	72*
2-W & 3-W VEHICLES					
	CO	HC	NOx	PM	NVH
	g/km	g/km	g/km	g/km	dB
BS-III	1.87-2.62	-	1-1.25	-	77
BS-IV	1.48-1.97	-	0.2-0.39	-	77
BS-V	1.14	-	0.13-0.225	-	72*

*-Proposed

PM Components – New Development for BS-VI

Scissor Gears

VVT Components

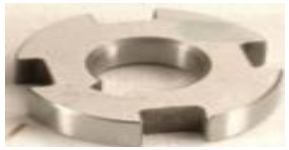


PM Components with Weight Reduction

Conversion parts

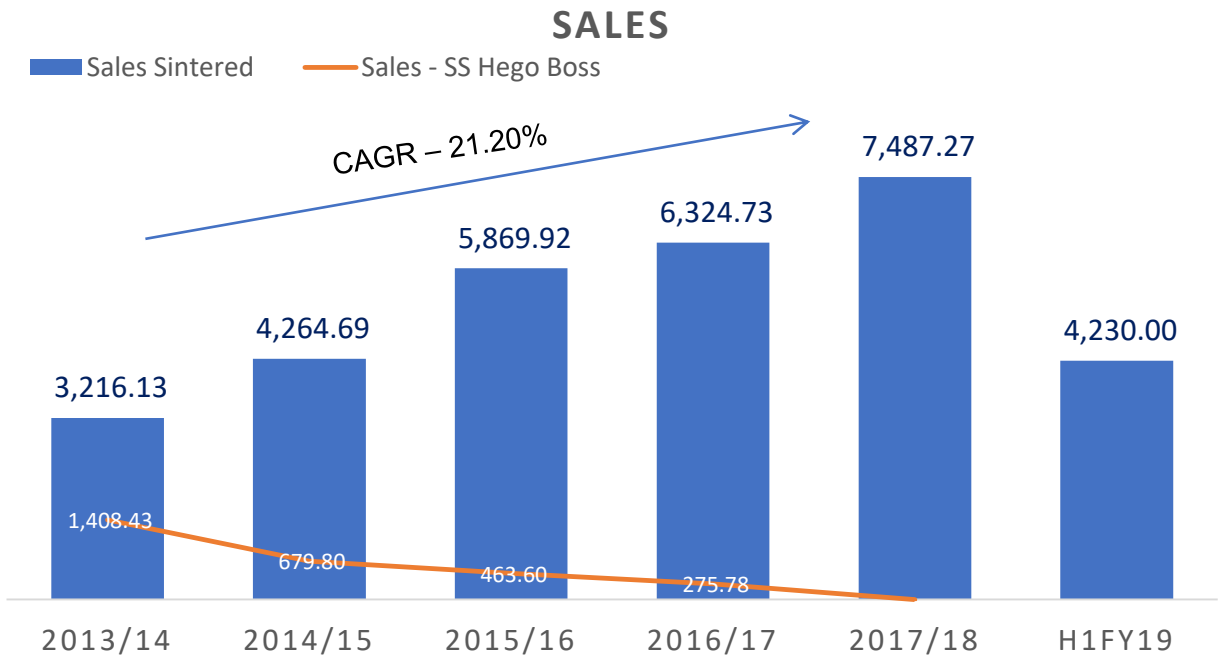
PU Coated Components

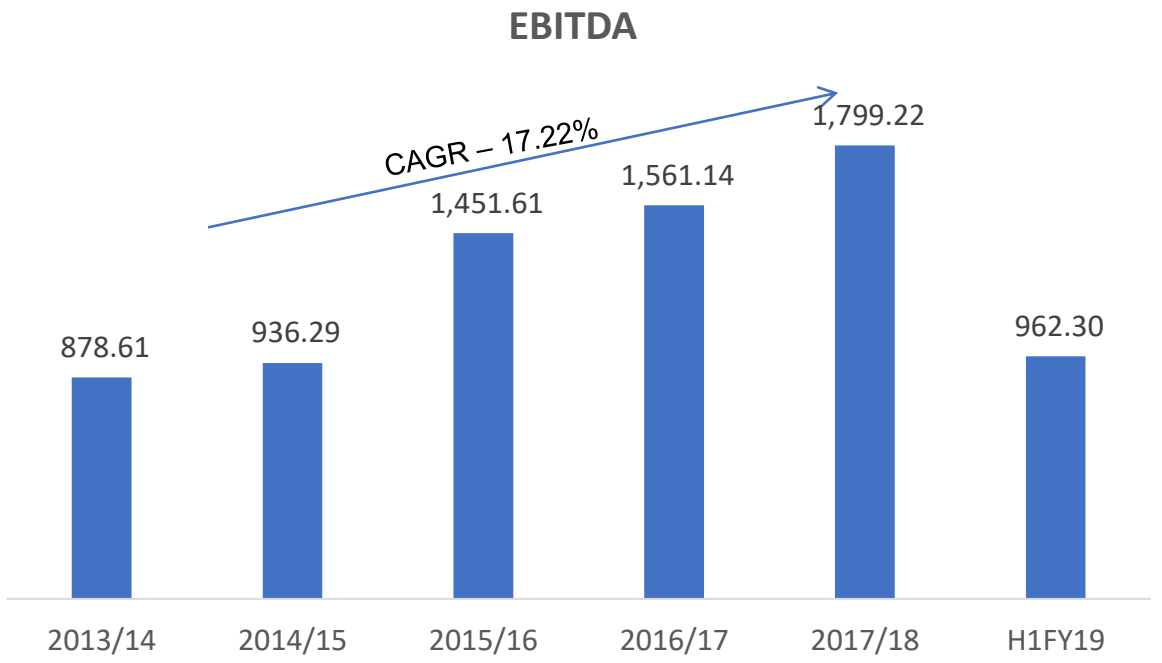
Sensor Boss

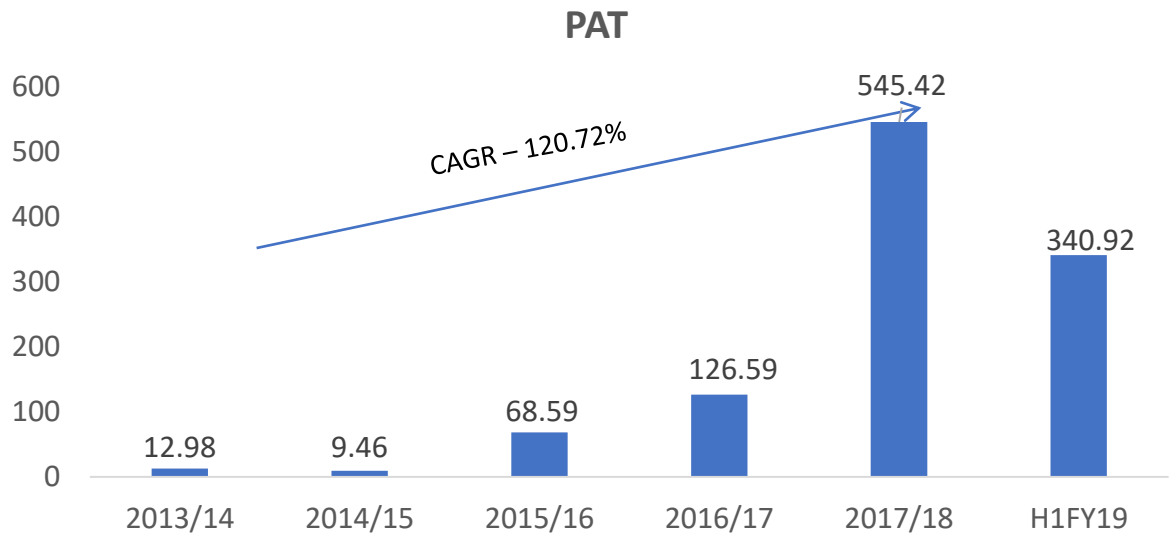


EFI & Pump Components

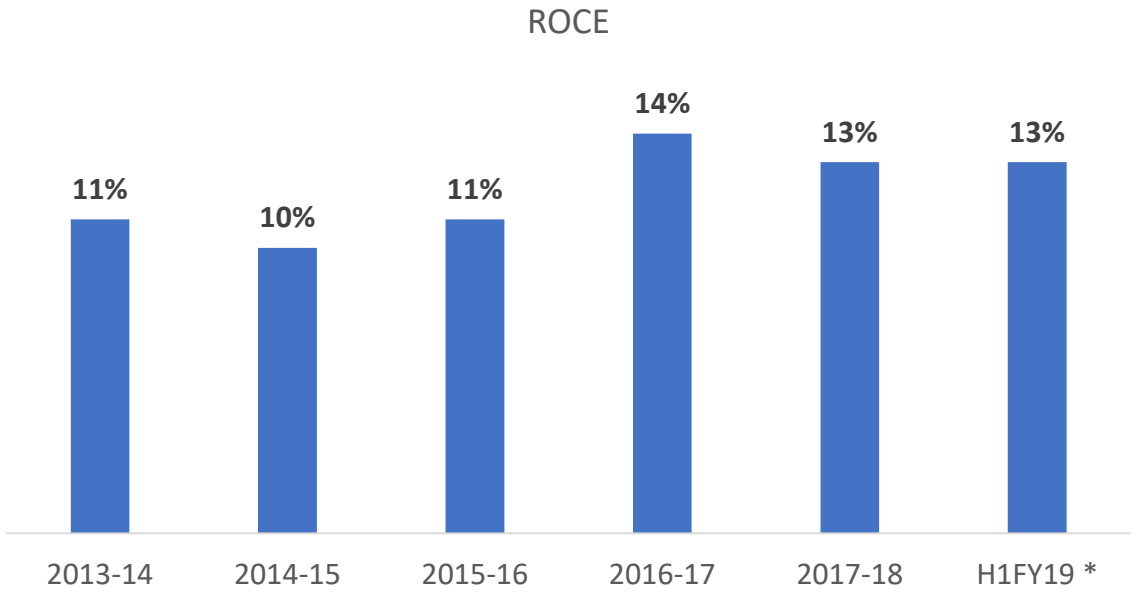
SIL FINANCIAL PERFORMANCE – GRAPHS

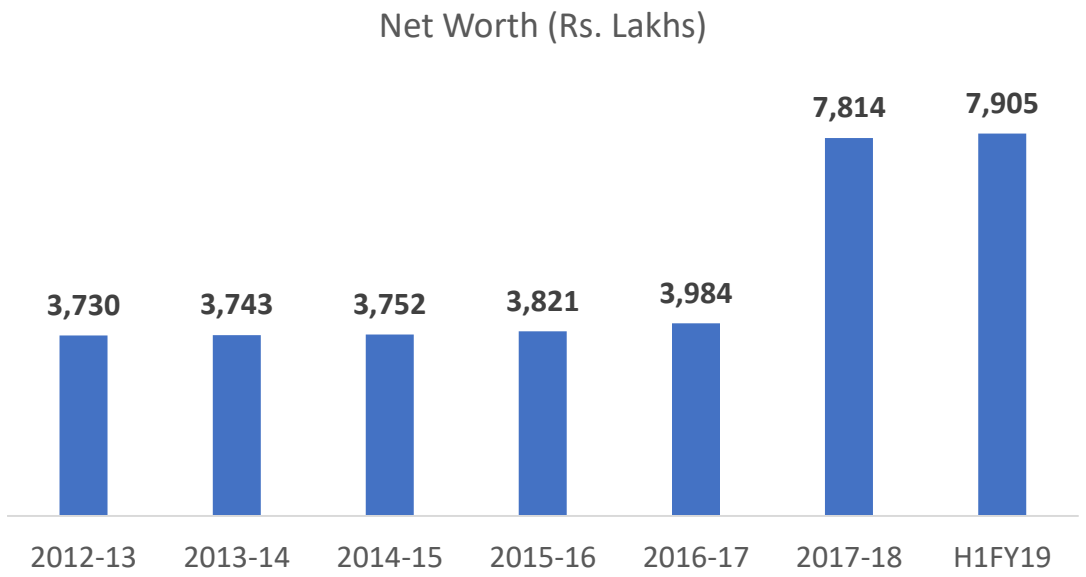


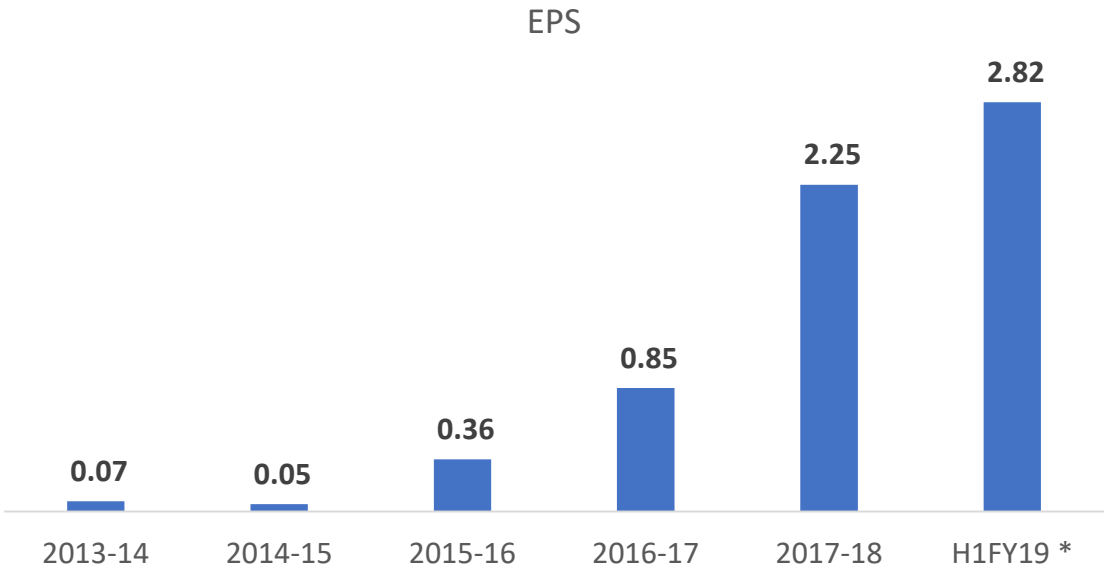


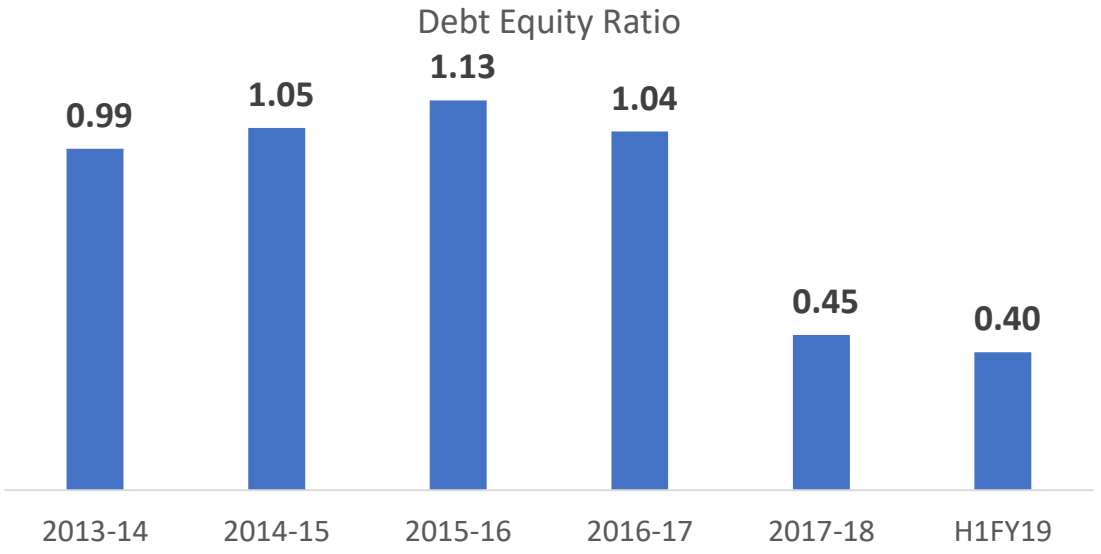


SIL FINANCIAL PERFORMANCE – GRAPHS









* H1FY19 are annualized

Thank You

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