



SINTERCOM
India Ltd.

Innovation in Motion



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SINTERCOM KEY MILESTONES

Company History

Establishment of Maxtech India Pvt. Ltd.	Start of manufacturing 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
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2007-2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	Stainless Steel Hego Boss Conversion of Forged sprockets to Sintered sprockets	Conversion of Forged Gears to Sintered Gears (Two Wheelers Segment)	Conversion of Forged Sensor Rings to Sintered Rings (CV Segment) Development of Cam to Cam Gears (PV Segment)	Development of Sinter-hardened Synchro Hubs (PV Segment)	Conversion of Forged Synchro Rings to Sintered Rings (CV Segment)	Development of 6-speed transmissions Synchro Hubs (PV Segment)	Conversion of forged shift tower components to sintered (PV Segment)	Conversion of forged bearing caps to sintered (UV Segment)	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 an 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



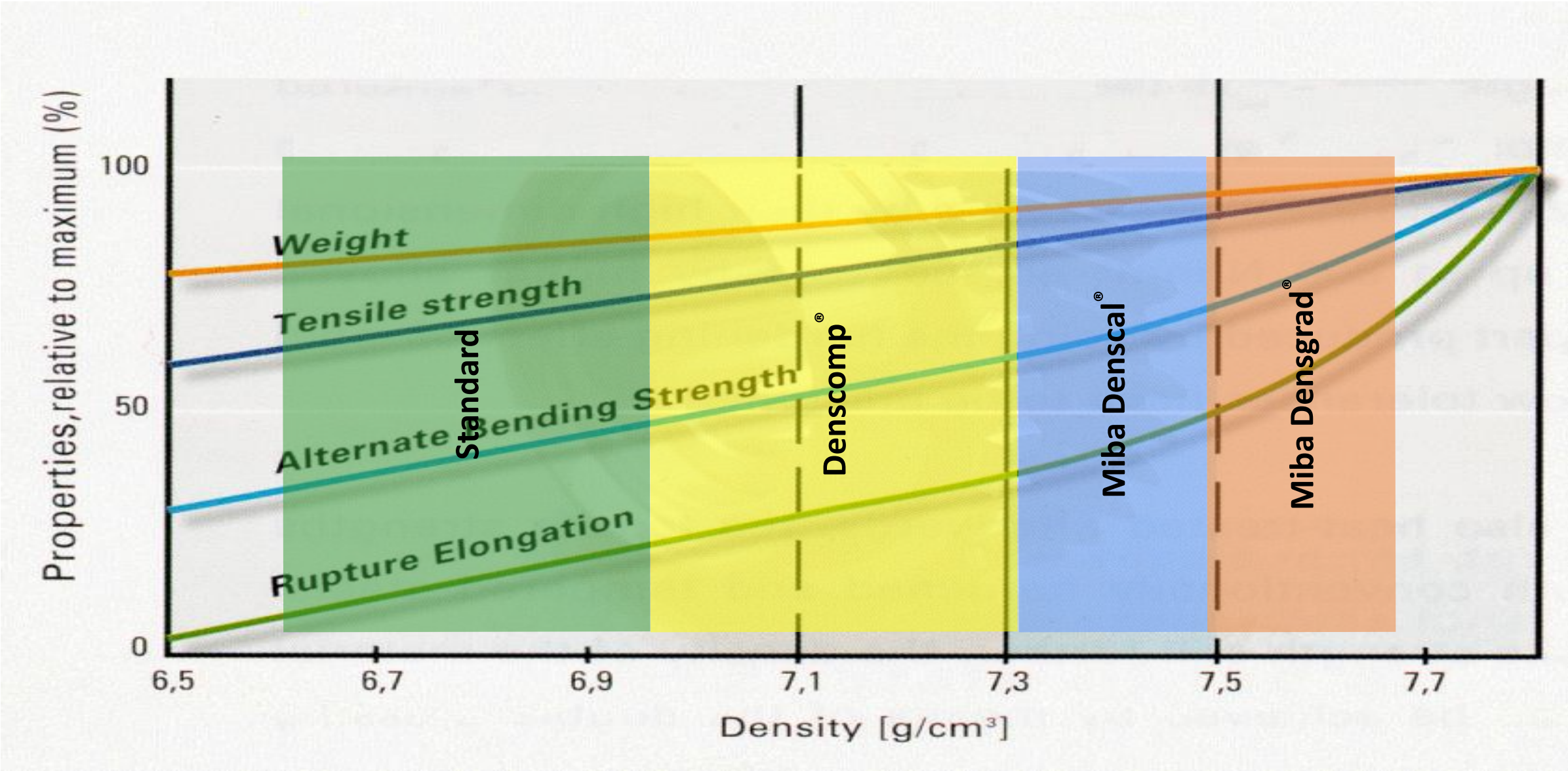
Nikhil Chavan
Head- Engineering & Marketing

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

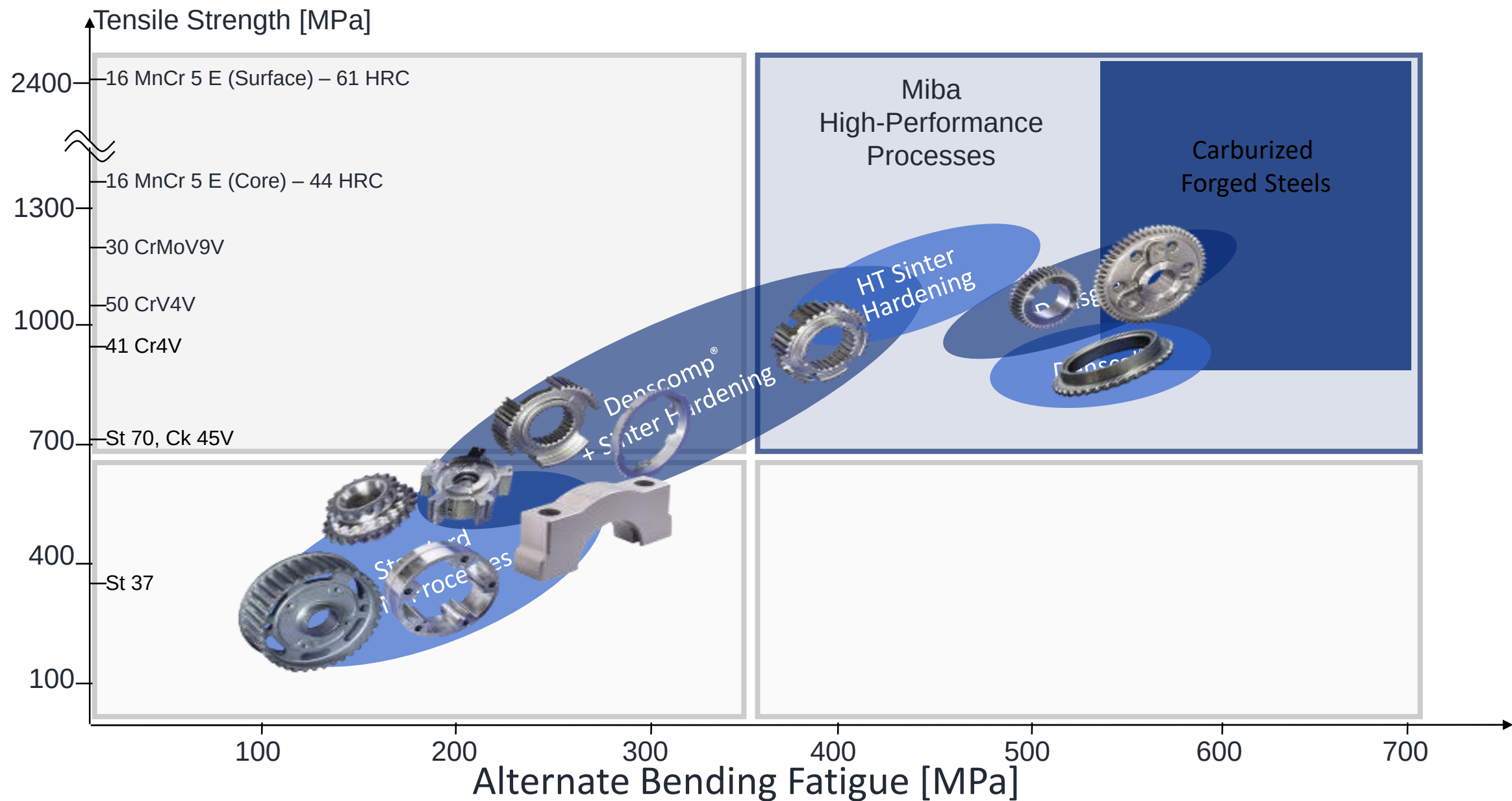


Sachin Gunjal
Head- Manufacturing

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



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 enabled 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

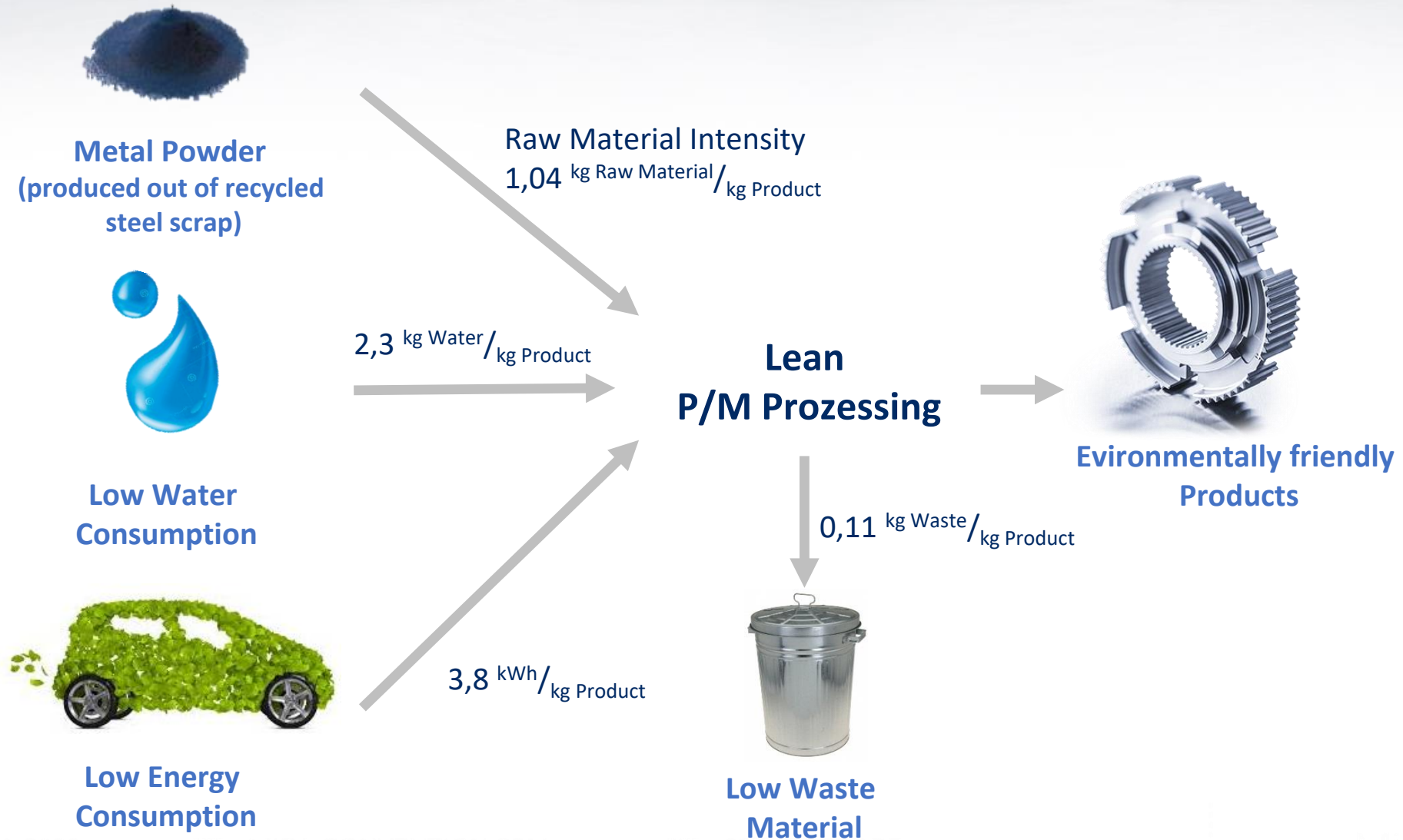
- Surgical instruments
- Surgical implants
- Electric components of medical equipment

Consumer Goods

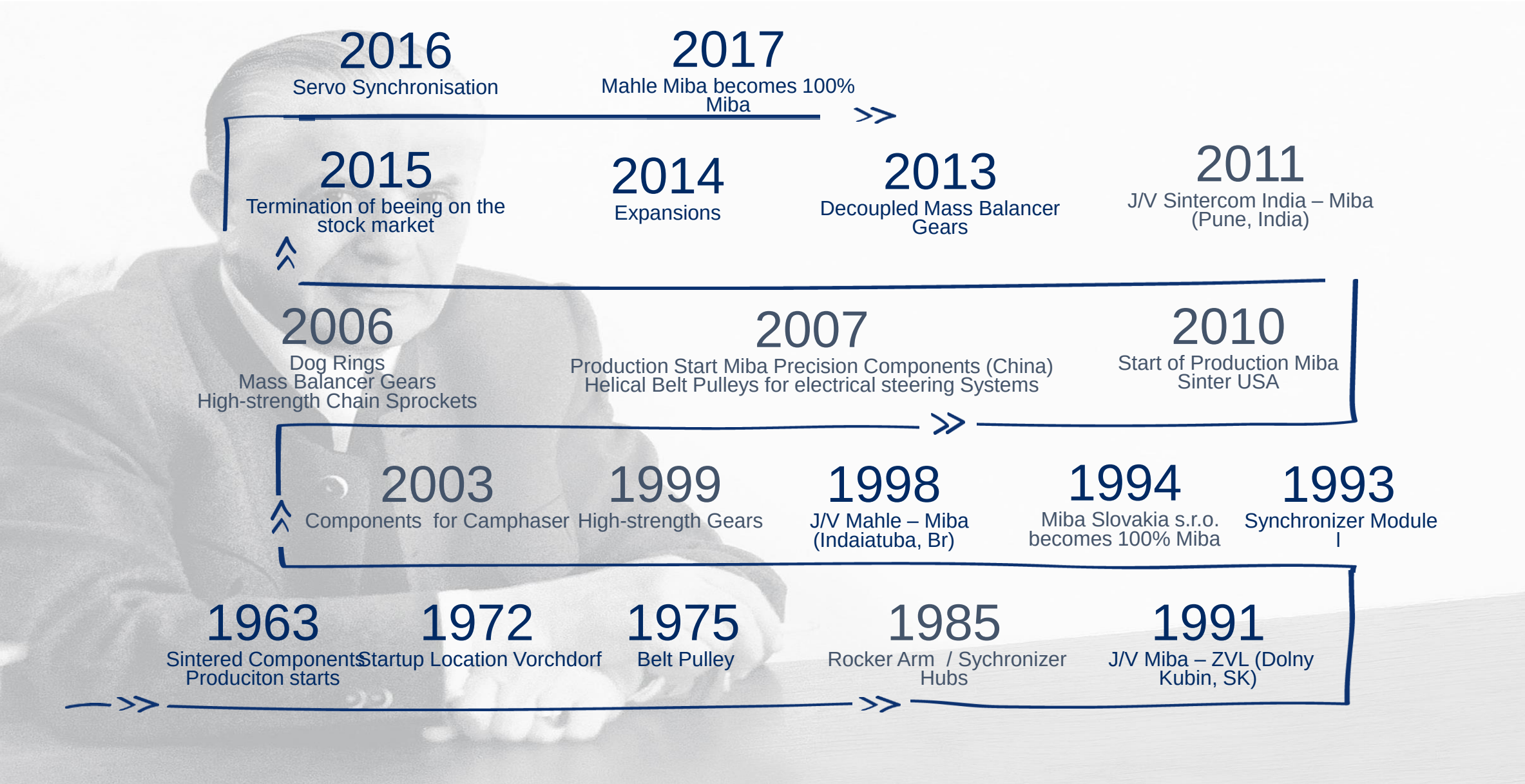
- Electric components like motors and inverters
- Connecting rods and pistons of compressors
- Soft magnetic cores
- Valve bodies

SINTERING – GREEN MANUFACTURING

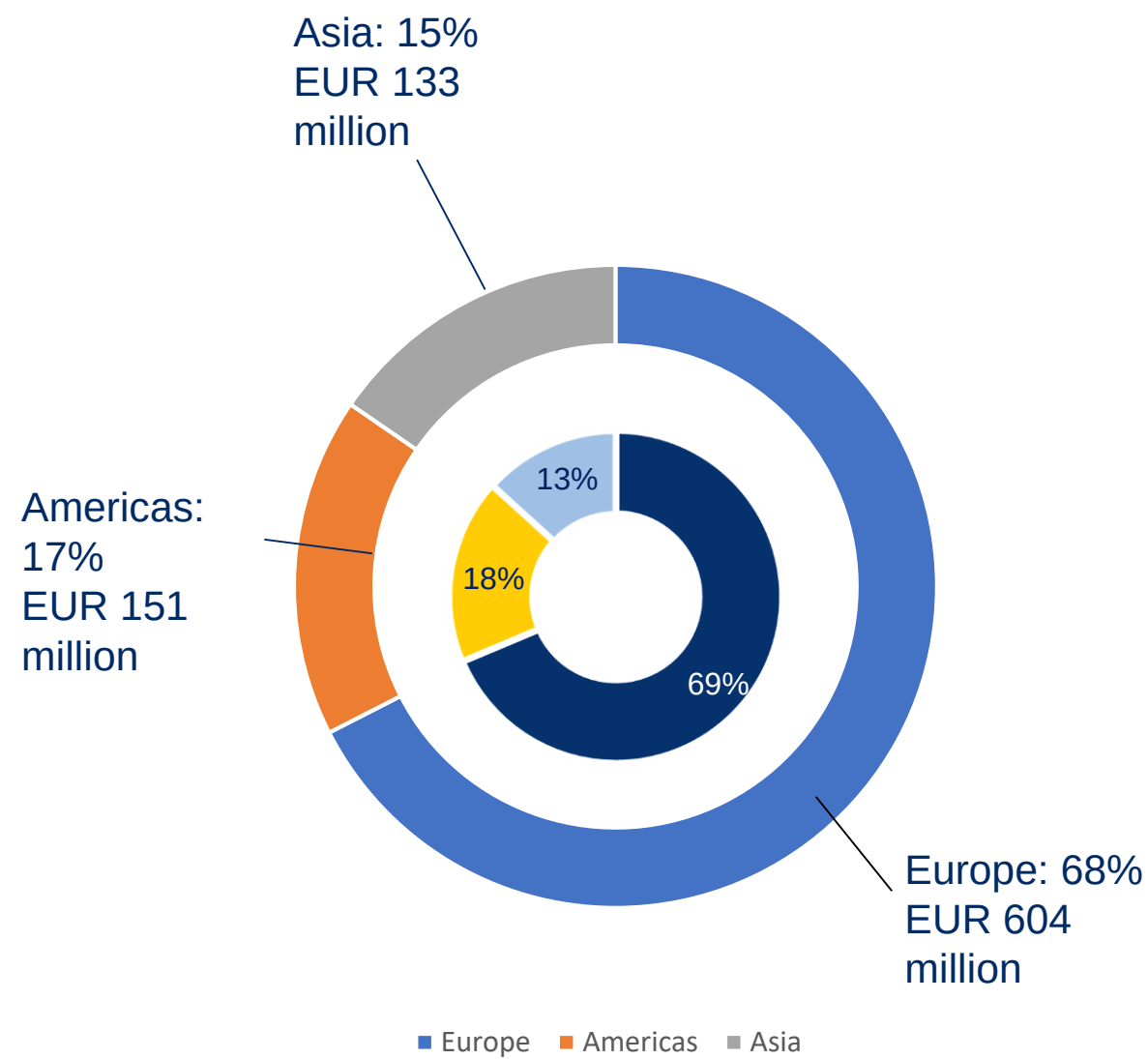
Responsible Use of Resources



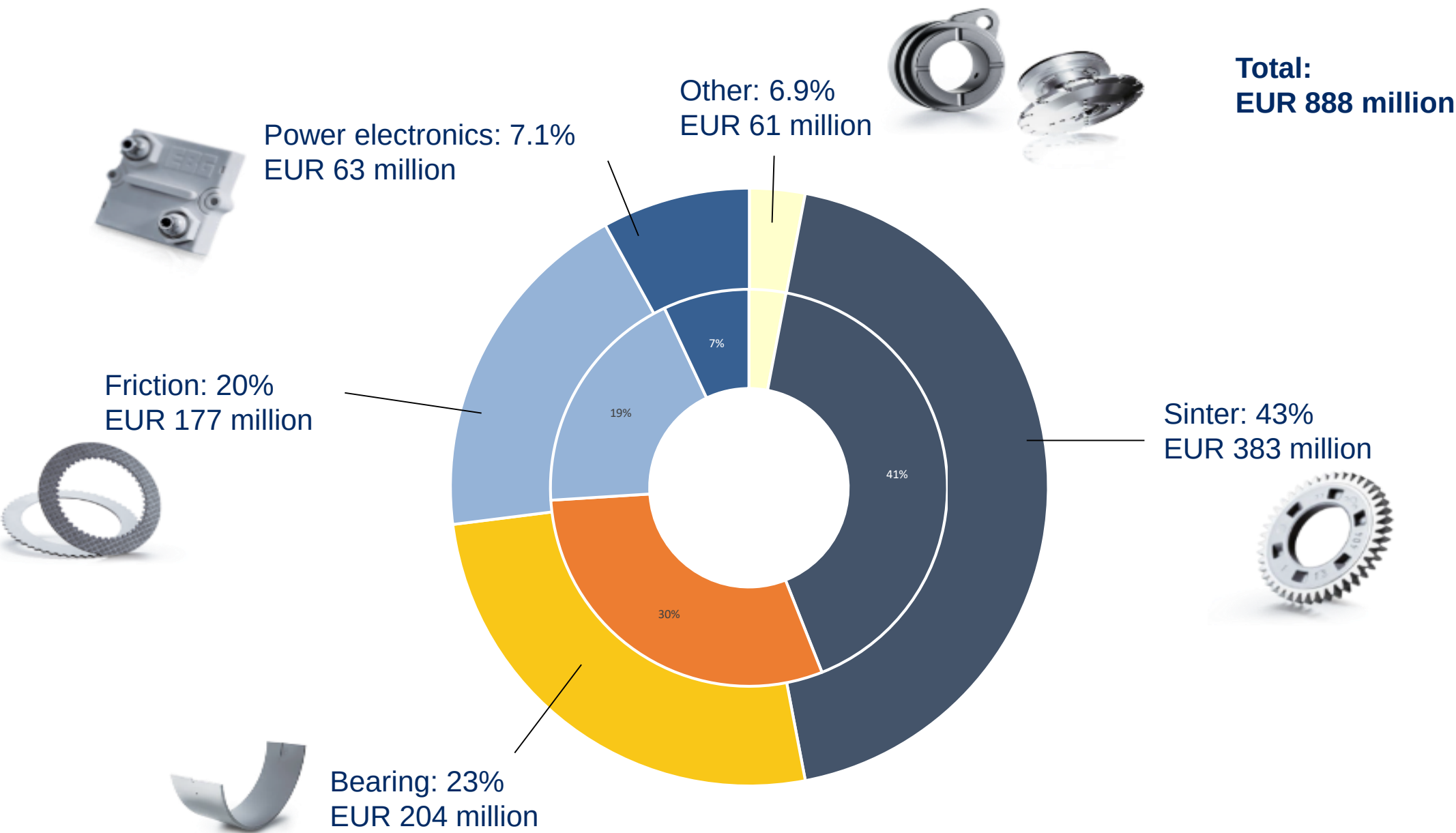
HISTORY – MIBA SINTER GROUP



MIBA GROUP – Overview



MIBA GROUP – REVENUE BY DIVISION



SINTERCOM – CUSTOMERS

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SCHAEFFLER

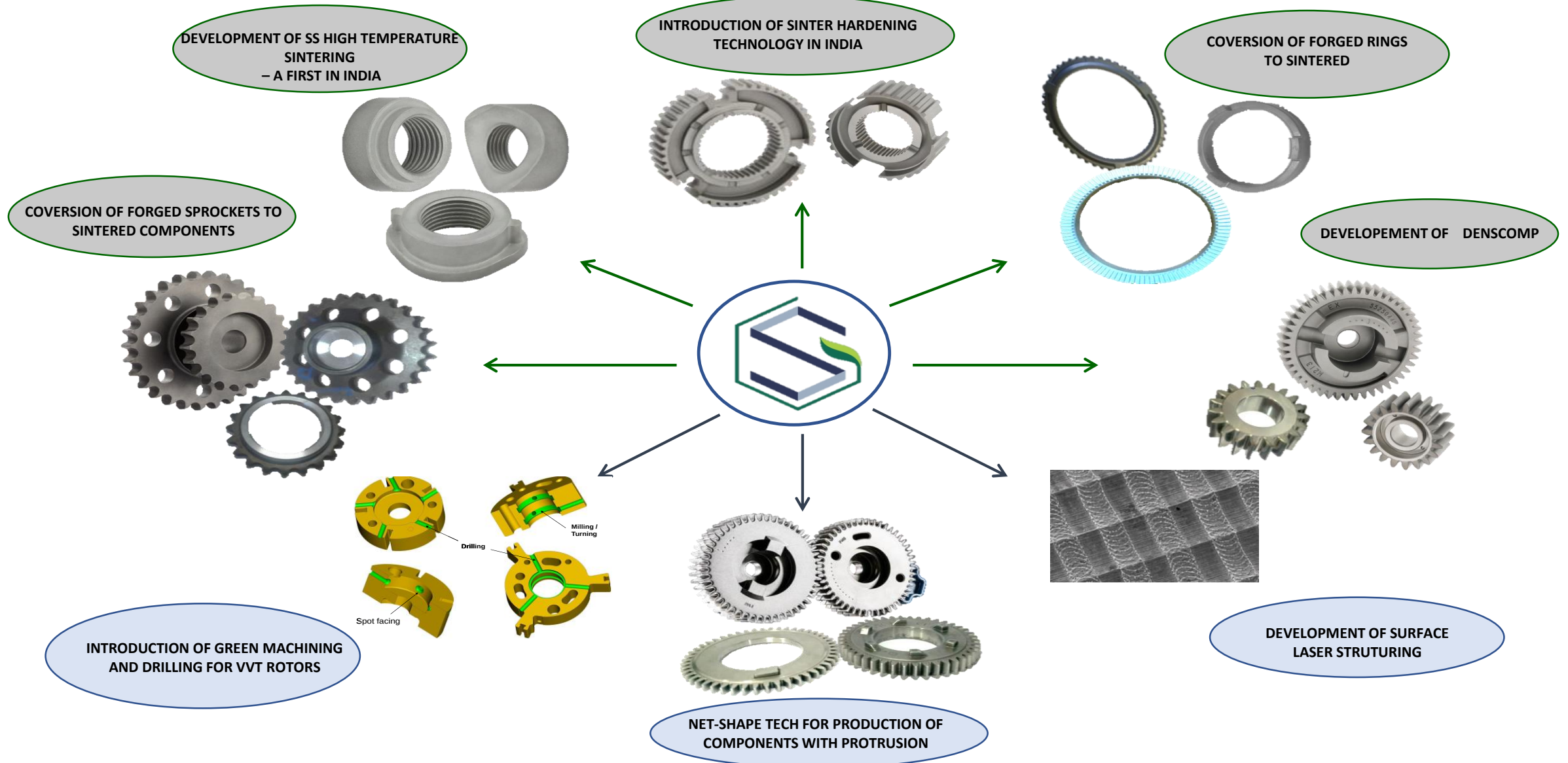


FAG



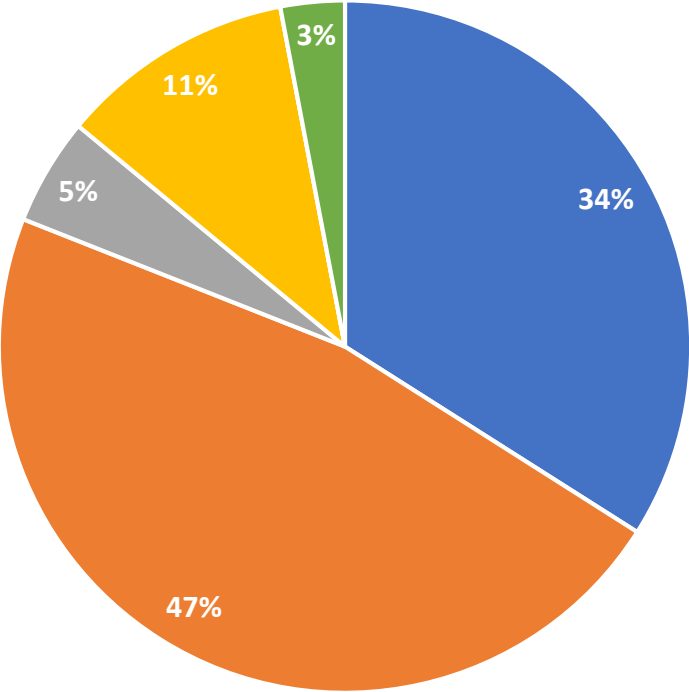
SINTERCOM TECHNOLOGY ROADMAP

SINTERCOM – PIONEER IN PM SINTERING TECHNOLOGY IN INDIA



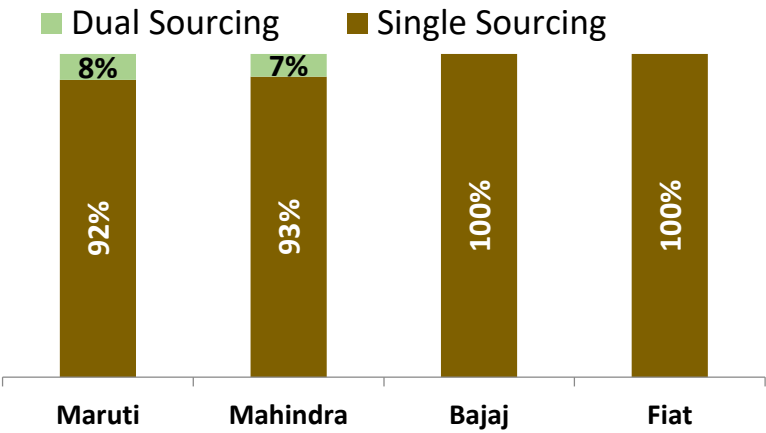
SINTERCOM – OVERVIEW

Customer-wise breakdown



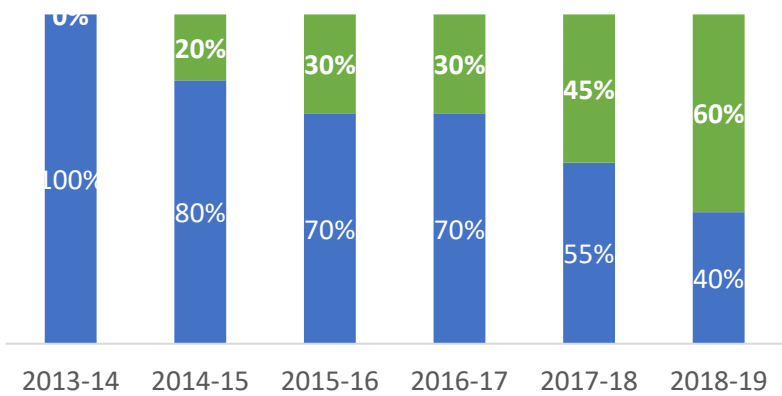
- Mahindra & Mahindra
- Maruti Suzuki Ltd
- Fiat India
- Bajaj Auto
- Hyundai
- Others

OEM wise Sourcing

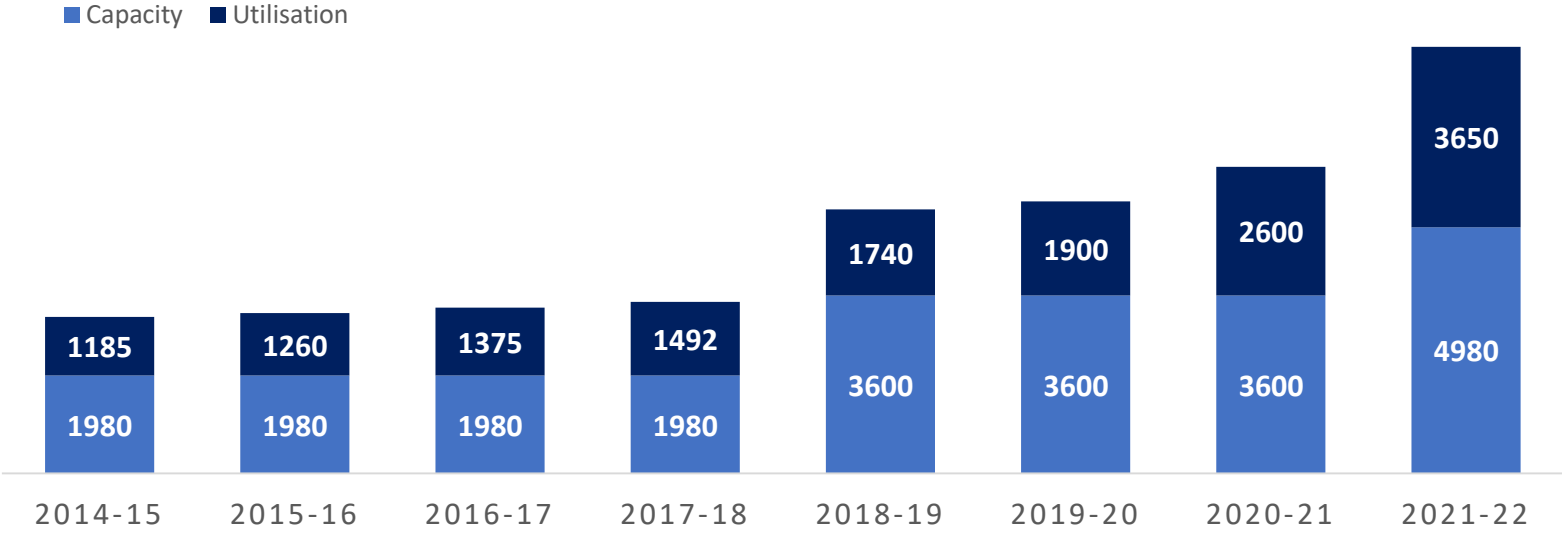


■ Diesel ■ Gasoline

Product Mix

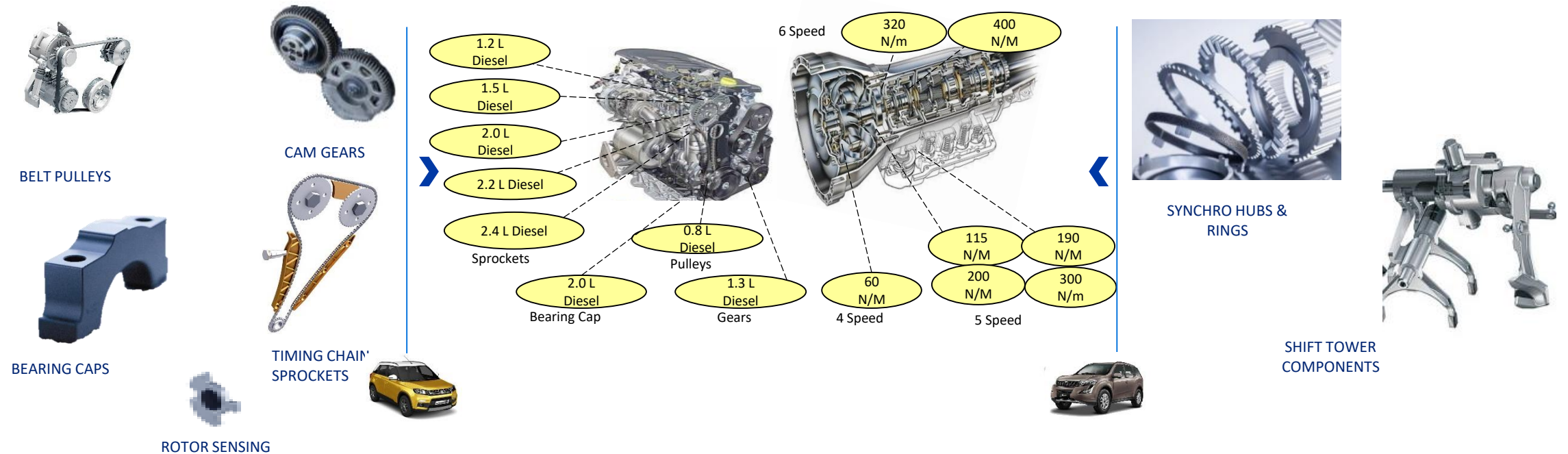


Capacity



PORTFOLIO – DIESEL POWERTRAIN

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



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)

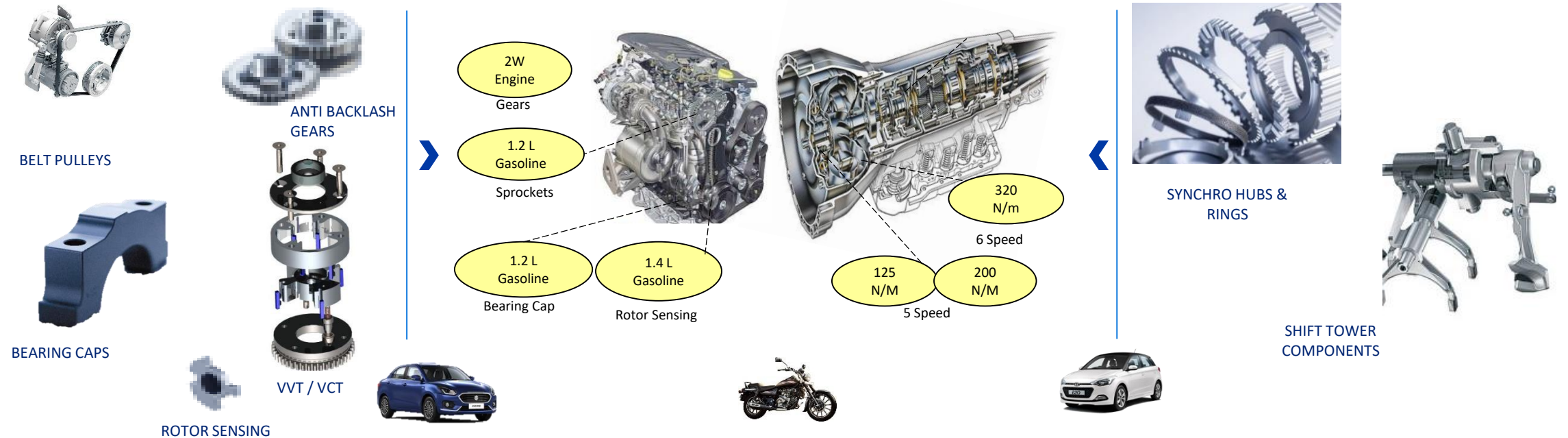
TRANSMISSIONS

- 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



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)

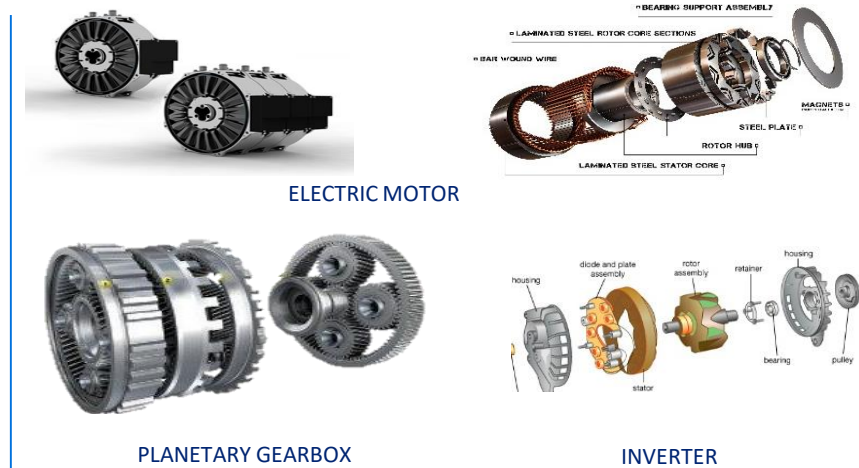
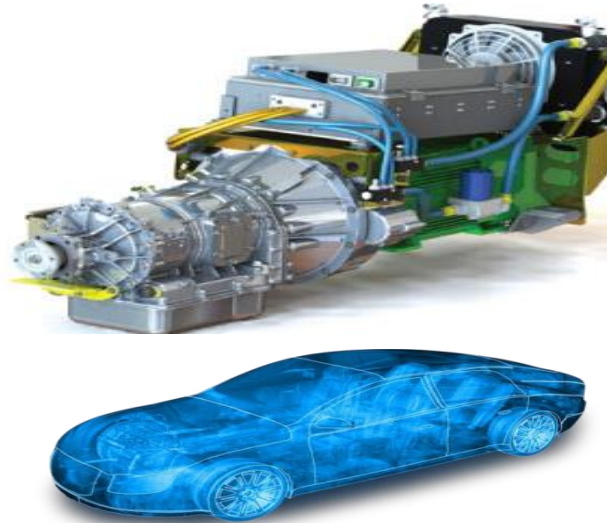
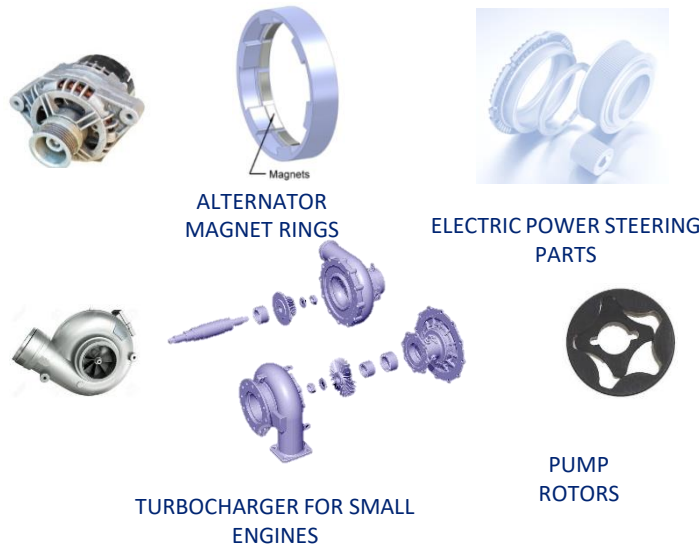
TRANSMISSIONS

- 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



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

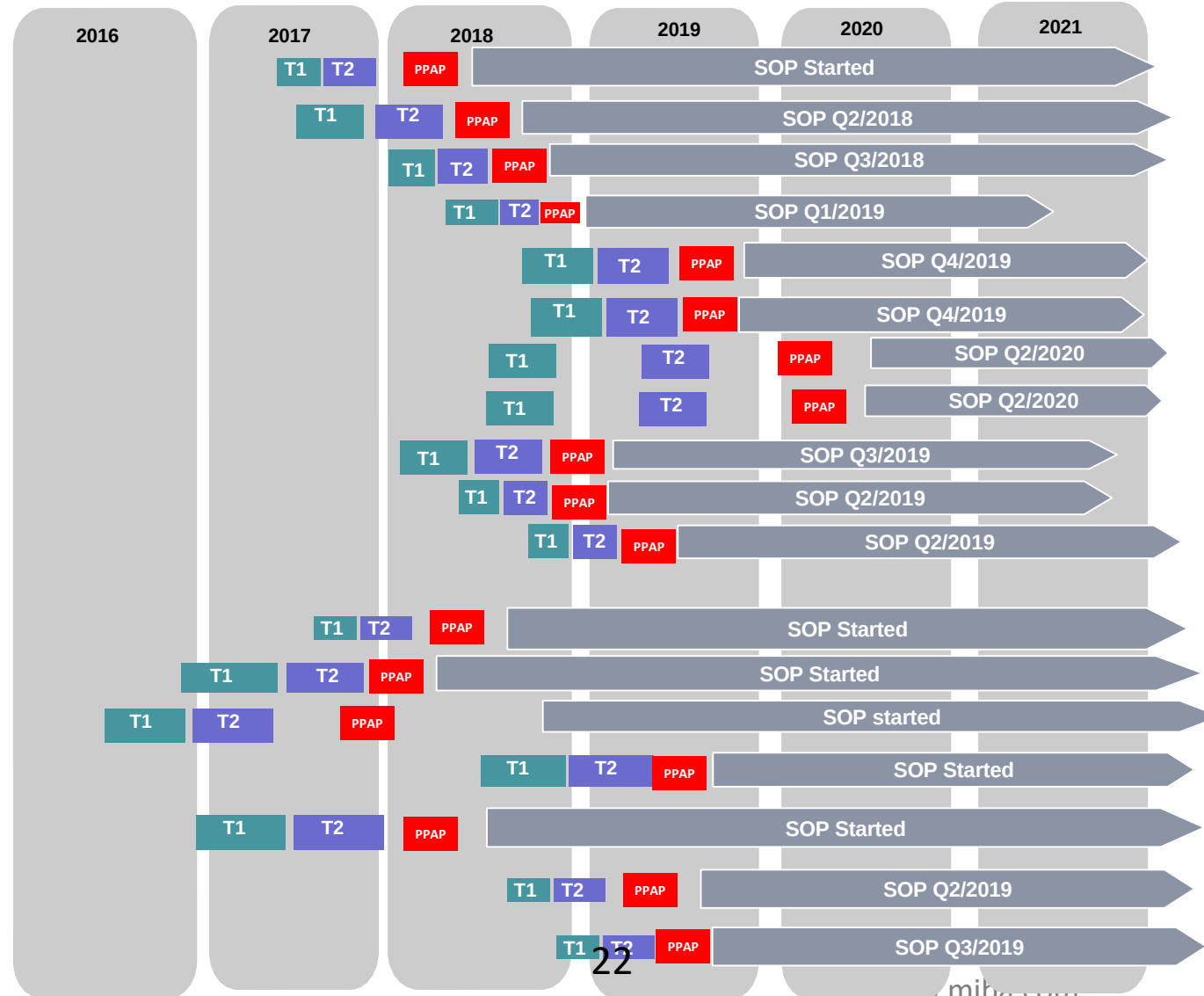
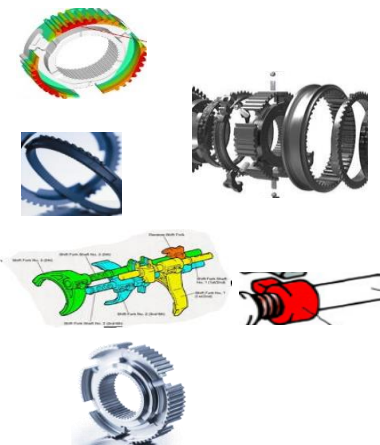
YL1-MC 6-speed T/M

C635 6-speed T/M

5MT Shift Finger

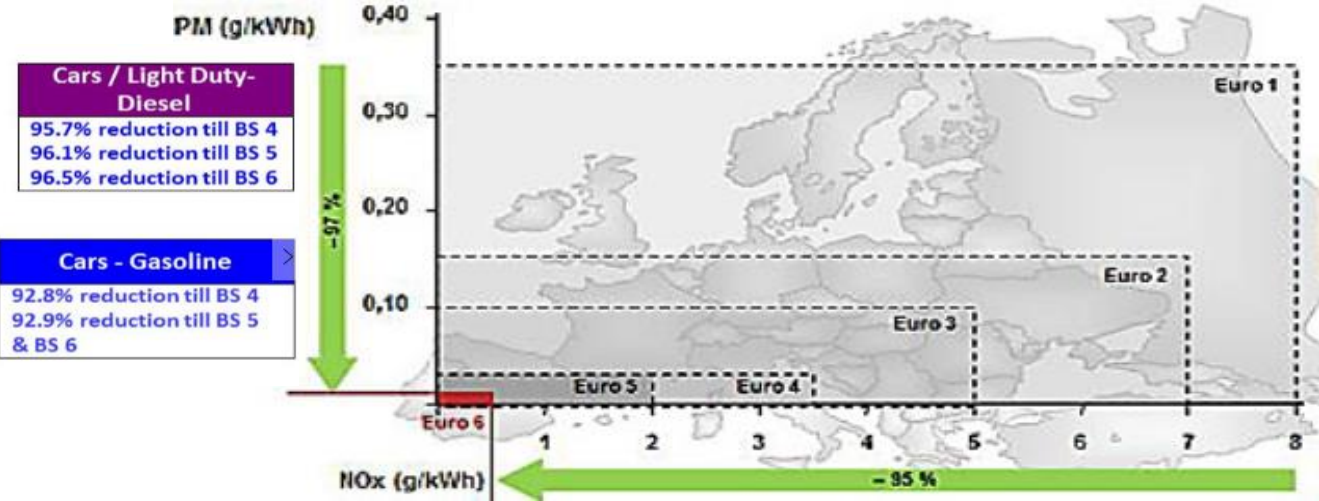
W601 Hubs (6F)

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*

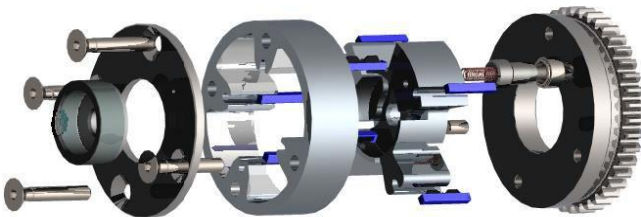
*-Proposed

PM Components – New Development for BS-VI

Scissor Gears



VVT Components



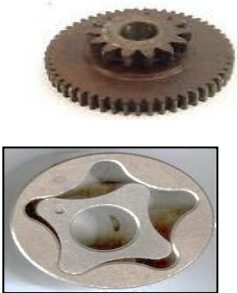
PU Coated Components



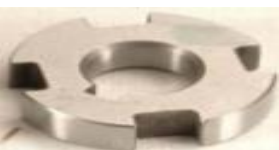
PM Components with Weight Reduction



Conversion parts



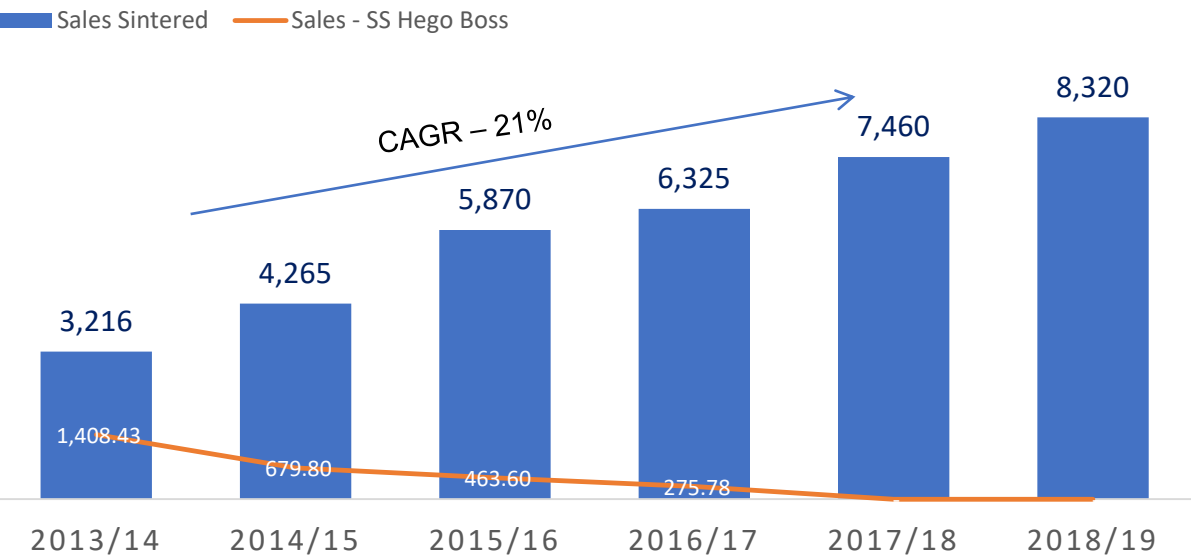
Sensor Boss



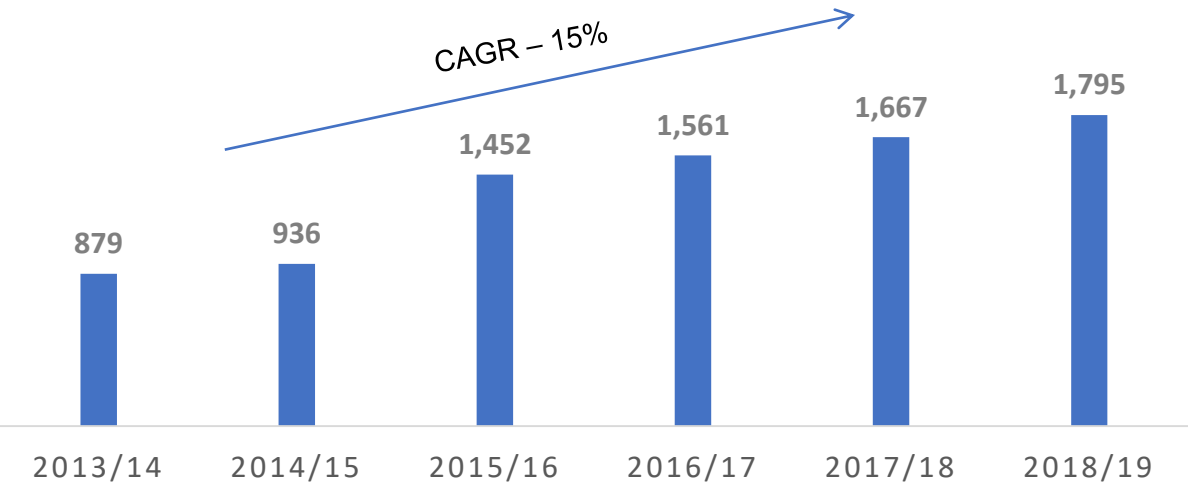
EFI & Pump Components

SIL FINANCIAL PERFORMANCE – GRAPHS

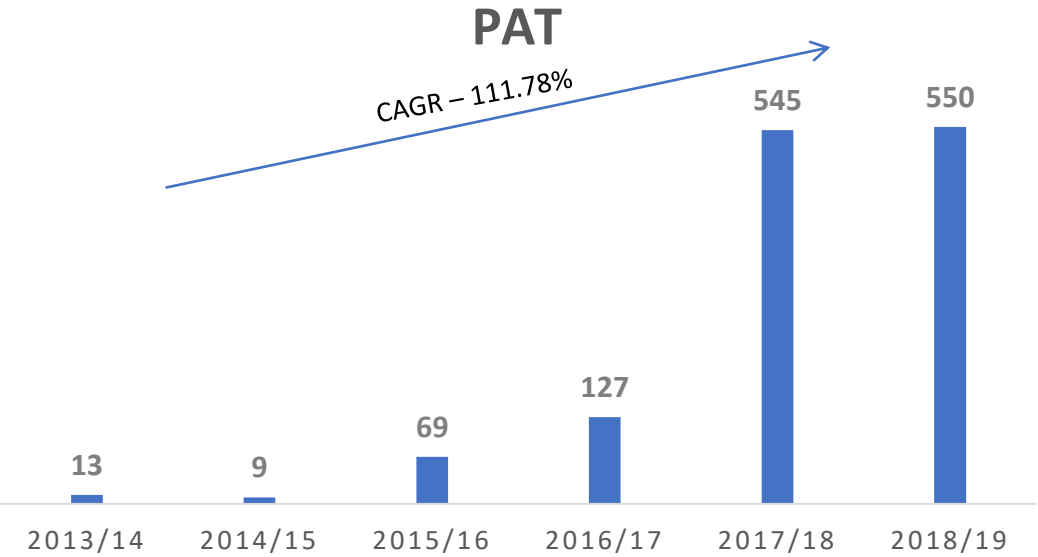
SALES



EBITDA

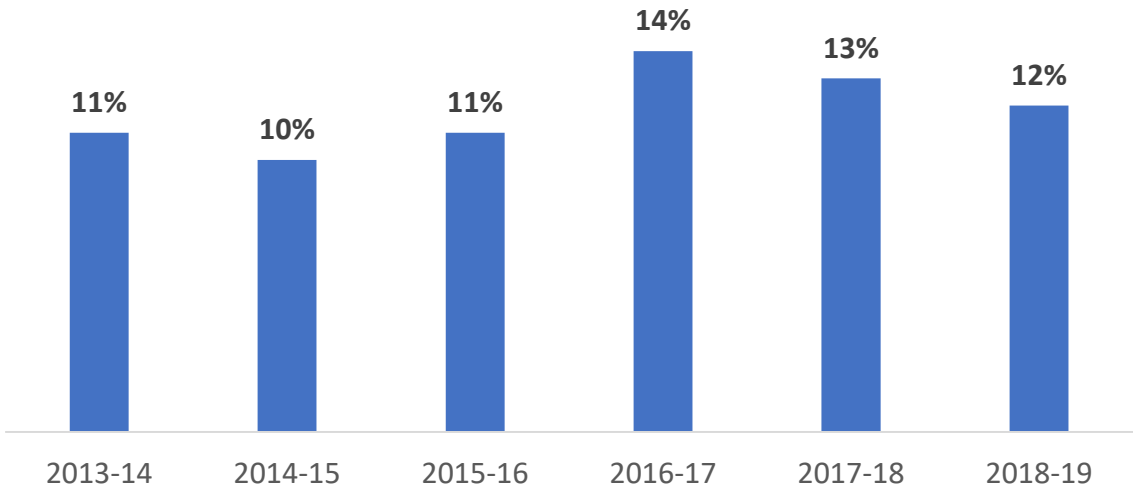


PAT

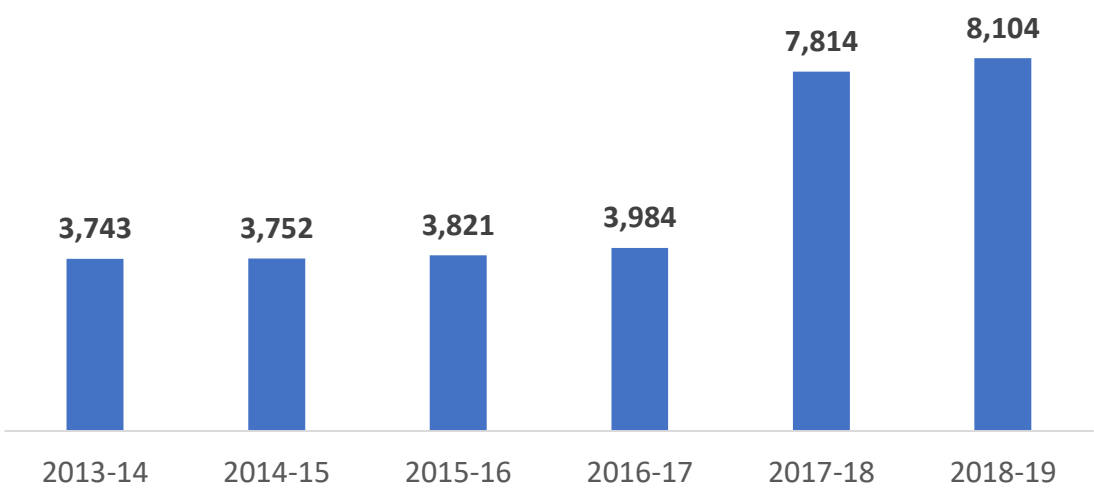


SIL FINANCIAL PERFORMANCE – GRAPHS

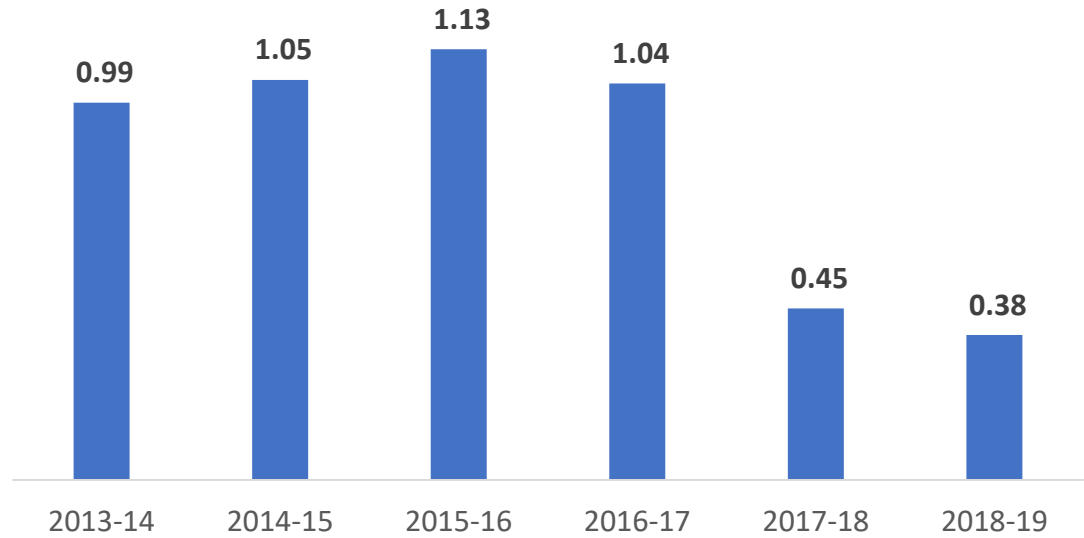
ROCE



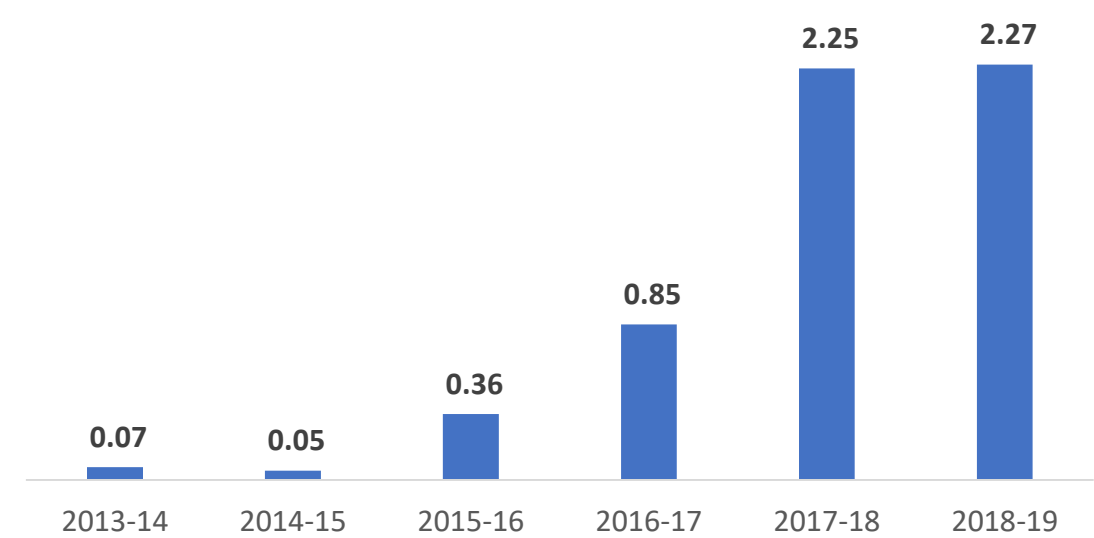
Net Worth (Rs. Lakhs)



Debt Equity Ratio



EPS



Thank You

Sintercom India Limited

Gat No. 127, At Post Mangrul, Taluka Maval, Talegaon Dabhade, Pune – 410 507, Maharashtra, India
CIN: L29299PN2007PLC129627