

Investor Meet

October 2010

Agenda

- Systech Evolution & Overview of Key Verticals
- Environment & Market Situation
- Short Term Initiatives & Financials
- Long Term Outlook & Strategy
- One Systech Key Differentiator
- Mahindra Forgings Deep Dive
- Aerospace An Introduction

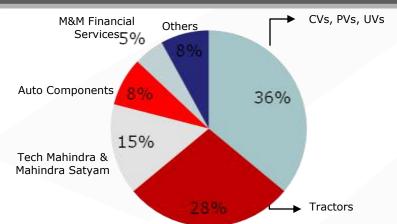


Systech - A Significant Part of M&M Group

M&M Group Overview

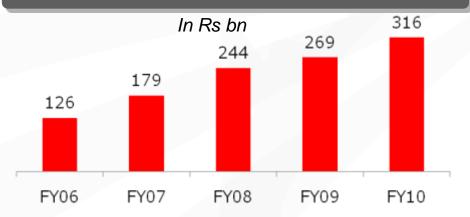
- USD 7.1bn Indian conglomerate
- Among the top tractor manufacturers in the world (by volume) and the market leader in multi utility vehicles in India
- Over 50,000 people & several facilities in India & overseas
- High standards of corporate governance
- Vice-Chairman & Managing Director Mr. Anand Mahindra

Revenue Break up by Segments (FY10) *



* Net External Revenue; Others includes Trading, Hospitality, Infrastructure etc Source – M&M Annual reports, website and Stock Exchange Filing

Strong Historical Growth in Consolidated Revenue



Recent Awards & Recognition

- Forbes' top 200 list of most reputable Global companies, 2009 (among the top 15 Indian companies in that list)
- Recipient of ICSI National Award for Excellence in corporate governance for the year 2008
- Assigned the Governance and Value Creation (GVC) Level 1 by CRISIL for Governance and Value Creation
- Reputation Institute (US) ranked Mahindra Group among the top 10 Indian companies in its Global 200: The World's Best Corporate Reputations list



^{*} Source - Bloomberg (as on February 4, 2010),

Systech Formed in 2004 with the objective of becoming a Global Auto-Component Player

Background

- Around 2004-2005, European and US auto component manufacturers were going through tough times
 - 35+ auto part makers filed for bankruptcy protection; S&P downgraded 25 US-based auto component suppliers
- Auto components was increasingly being looked at as a global business out of low-cost countries
 - Rapid increase in exports from India and China with India being recognized for expertise in engine components

M&A to fill in strategic gaps

Key Considerations

- Technology
- Market Access
- Quality of Management
- Location: Europe
- Complementary product portfolio
- No auction
- Optimal size: 75-100 mn Euros

Acquisitions



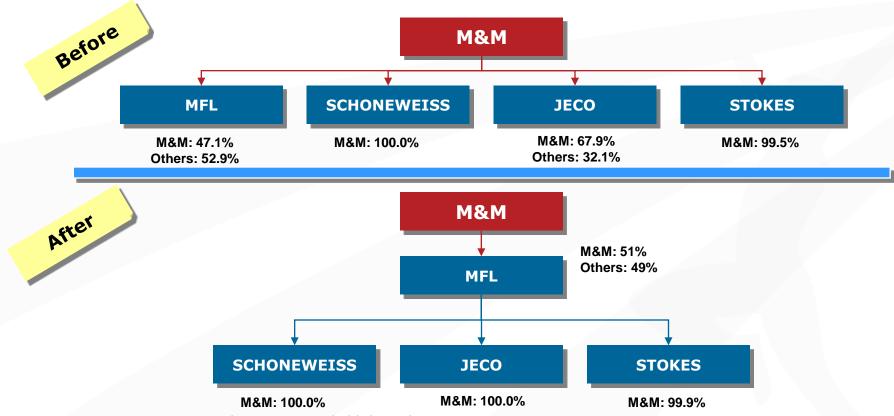








Holding Structure Created to Enable Global Strategy: MFL case study



Note: Investments in JECO & Schöneweiss are held through investment companies in Mauritius

- Effective April 1, 2007, all units were consolidated under 1 listed umbrella being MFL
 - Focused single entity with aligned objectives to achieve seamless integration

Source - M&M Annual Report (FY07), MFL Annual Report (FY09), www.bseindia.com



Mission Statement – To Become Global "Art to Part" Player

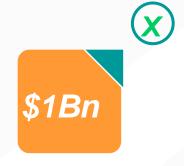
To create India's most Valuable, Innovative, "Art to Part" auto component entity that partners with its global customers to meet & surpass their business needs

Aspiration – Thinking Big











Overview of Key Verticals

Verticals at a Glance



Systech is diversified presence across products, customers & geographies

Products (% of Revenue – FY10)

Key Customers

Plant Locations



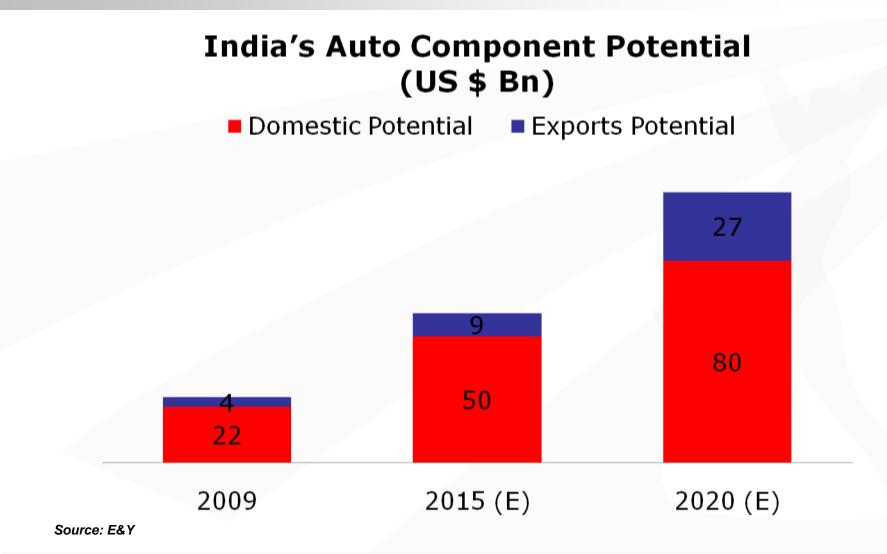
100%= \$725 mn

Note: 1. Others include businesses like Mahindra Composites

2. % of revenue calculated without considering intercompany transfer & HQ costs



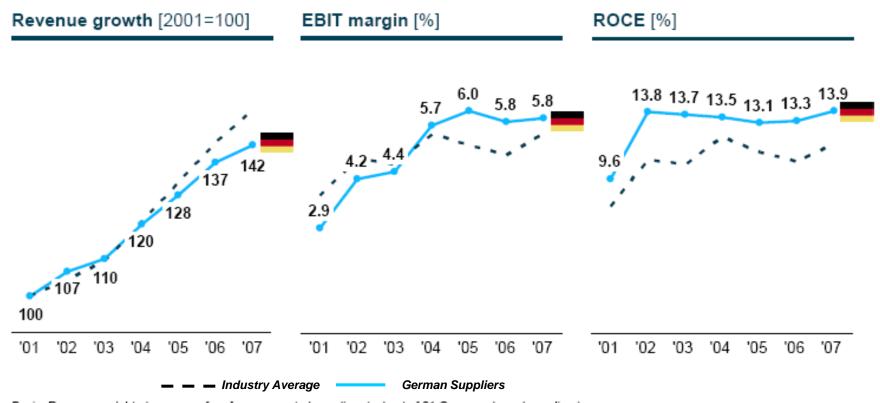
Indian auto component industry expected to double by 2015





German auto component industry is inherently strong

Key performance indicators 2001-2007 – German suppliers



Basis: Revenue-weighted average of performance-rated suppliers (subset of 21 Germany-based suppliers)

Source: Automotive Supplier Study 2008 by Rothschild & Roland Berger



Environment

Globally, Auto and auto component industries are undergoing transformation

<u>OEMs</u>

- Increasingly focused on light weighting and materials
- Increased reliance on electronic technology
- Focus on alternative power trains
- Increasing profitability pressures
 - Global industry EBITDA: 7%, ROCE: 4%

Components Industry

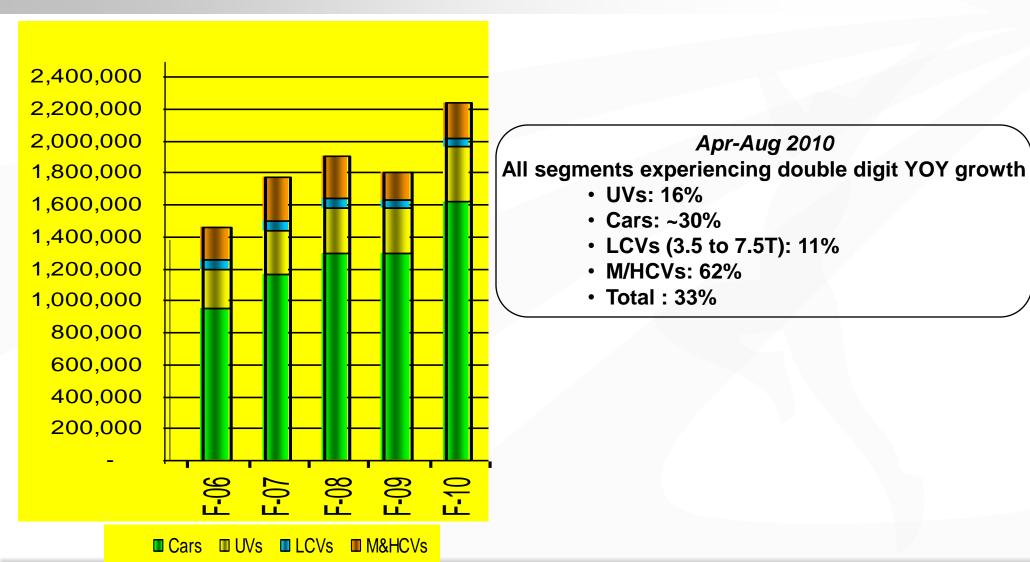
- Companies are diversifying their products
- Moving away from build to print essentially "art to part"
- Adding original content to program in vehicles
- Increasing emission regulations are driving reduced power trains
- "Greening" of vehicles

With dual shore presence in India & Europe, Systech is well positioned to focus on both technology change and cost optimization required in the future

Source: E&Y

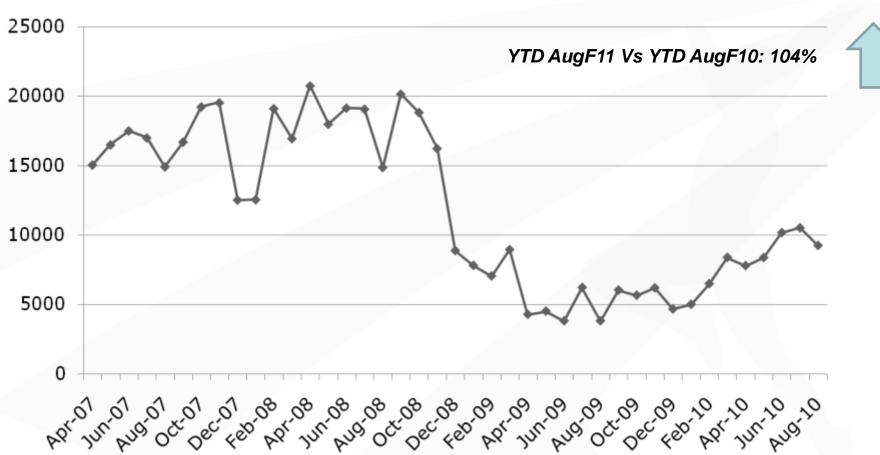


India: Auto sector experiencing double digit growth



German Market improving

Production of Heavy Trucks (>6T) in Germany (Month-wise)



Germany experiencing export driven growth but need to watch the sustainability



Short Term Initiatives & Financial Results

F10 results lower than F09 because of downturn especially in Europe

All figures in Rs cr.

Business	F10 Actuals		F09 Actuals	
	Revenue	EBITDA	Revenue	EBITDA
Forgings Consolidated*	1330	(6)	2243	127
Steel & Stampings	1086	81	1072	64
Castings & Ferrites	298	28	259	(3)
Gears*	370	29	408	84
Engg Services	191	38	206	36
Total	3173	162	4141	304

^{*} Substantial European presence

Note: Total calculated after considering other businesses like Composites, intercompany transfers and HQ costs



Systech put a systematic program in place to face the crisis

Mahindra Forgings

India : Operational

improvement

• Europe : Fixed cost reduction

and technology innovation

MUSCO

- Power Cost Reduction @ Steel
- Stampings now the lowest cost & price in the industry

Mahindra Gears

Cost Reduction Program: RM costs, Job work charges and fixed expenses

Mahindra Hinoday

- P10 Cost Reduction: 10%
- Mgmt strength reduced: 25% ♣
- Foundry operations:
 - Rejections from 11-12% to 6%
 - 130 new products developed
- New Products @ MPD: Electrode
 Less lamp

Short Term Initiatives & Financial Results

Q1F11 results reflect the results of action taken and market upturn

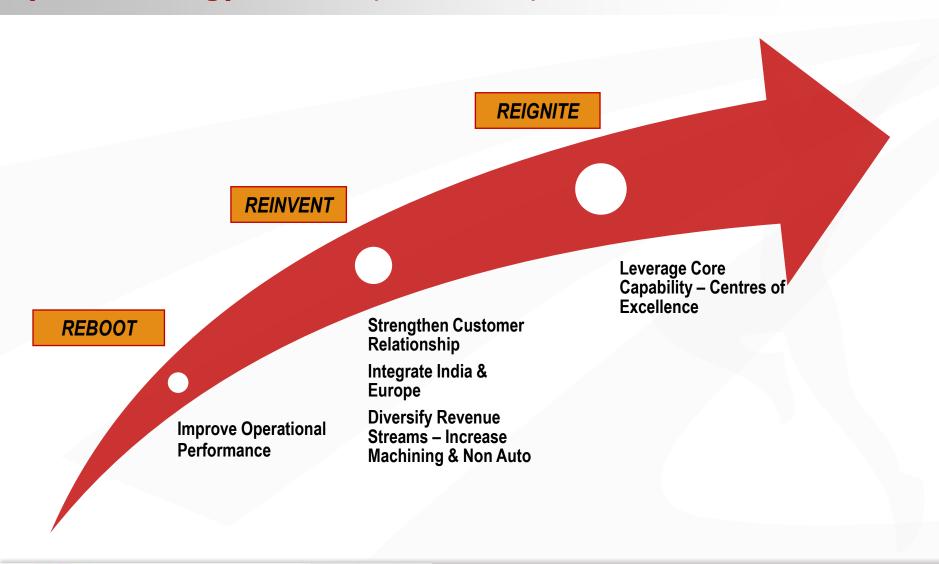
All figures in Rs cr.

Business	Q1F11 Actuals		Q1F10 Actuals	
	Revenue	EBITDA	Revenue	EBITDA
Forgings Consolidated	405	41	302	(26)
Steel & Stampings	303	24	225	11
Castings & Ferrites	90	7	55	3
Gears	110	9	97	14
Engg Services	42	6	50	12
Total	919	84	703	10

Note: Total calculated after considering other businesses like Composites, intercompany transfers and HQ costs



Systech Strategy: REBOOT, REINVENT, REIGNITE





Long Term Strategy: Create centres of excellence

Vertical	Centre of Excellence
Forgings - India	Crankshafts
Foundry	Turbocharger housings
Gears	Off Highway gears, Transmission systems
Steel	Micro alloy



We will utilise MES capabilities in this journey

Strategy: Vertical Wise

Vertical	Strategy
Engg Services	□Expand auto presence in US, Europe □Enter emerging markets viz. China, Iran, India □Enter aerospace & hitech engg services
Forgings	 □Return Europe to profitability - increase share at OEMS through innovation □Build a centre of excellence in crankshafts in India – further investments in machining & 12500T press □Increase exports and non auto presence in India
Foundry	□Reach global top 3 in turbine housings □Retain no 1 in axle parts in the Indian foundry market
Magnetic Products	□Retain no 1 position in India □Move from ferrites to intermediates and branded products

Strategy: Vertical Wise...contd.

Vertical	Strategy
Gears	□Consolidate Rajkot & Italian operations □Create greenfield gears unit to cater to European OEMs □Explore transmissions
Stampings	☐Be the lowest cost and price player☐Enter warm stampings and products like tailor welded blanks
Steel	□ Fully utilise existing capacity □ Enter higher margin segments like oil & gas, defence, engg □ Create micro alloy based product applications for customers □ Fully utilise capacity of rings plant and leverage to sell steel

MES capabilities will help us differentiate ourselves





MES – the engineering department of Systech





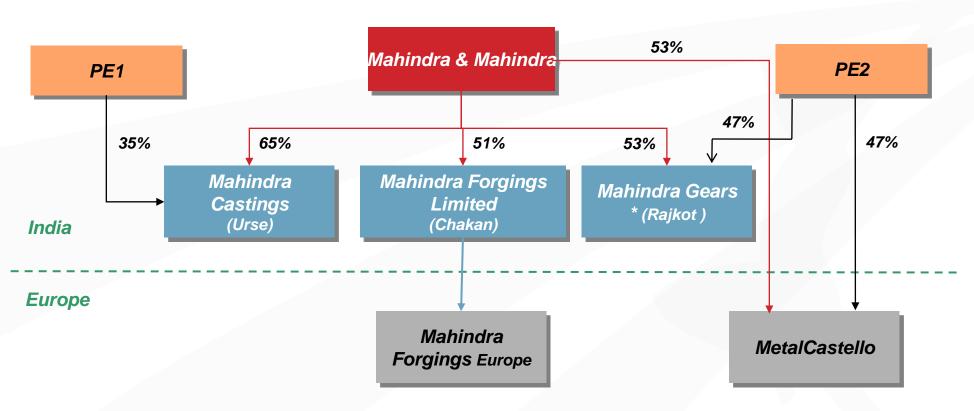
Seat Project for Honda

@ Contract Sourcing



'One Systech' – Key Differentiator

Systech Today - One Systech being created



We are considering combining all Indian entities under one company –
All European entities would be subsidiaries of this company
All investors will be folded into this one entity
New partners will also invest in this entity

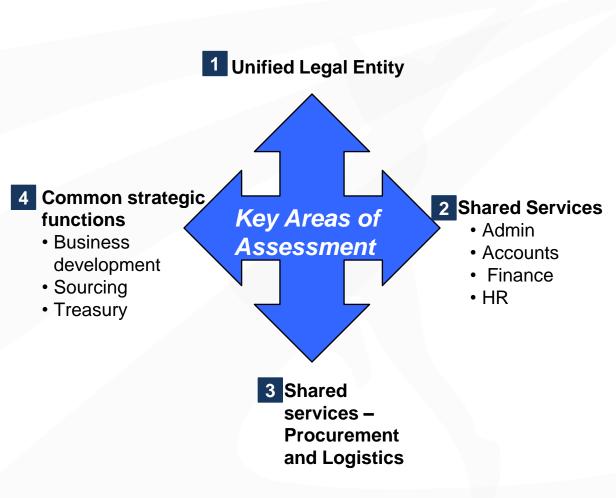
Note: Equity holding figures are approximate



'One Systech' - Key Issues being assessed

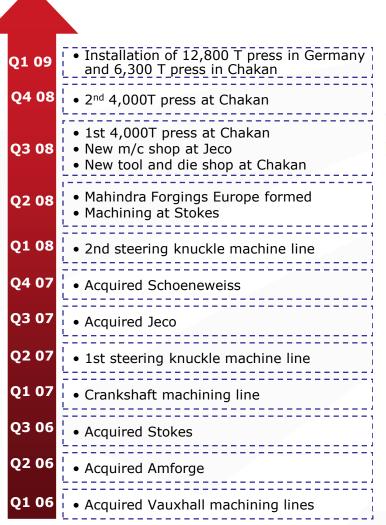
Objectives

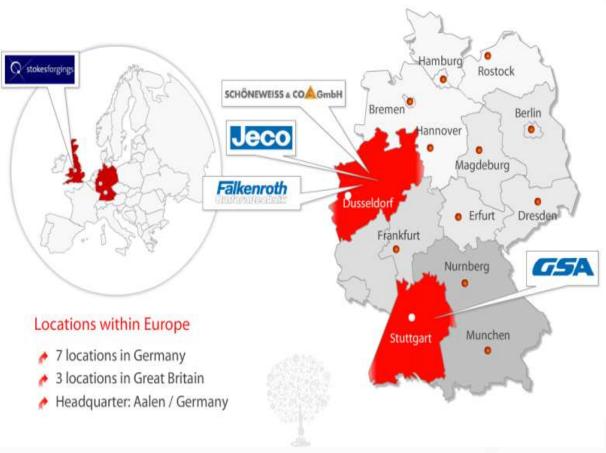
- Driving homogeneity of culture
- Presenting single face to market
- Deriving maximum scale benefit
- Maximizing shareholder value



Mahindra Forgings - Deep Dive

Mahindra Forgings: Organic and Inorganic growth to achieve scale, technology and customer reach







Mahindra Forgings - Deep Dive

Overview of Operations

Europe

- Main area of operation CV Forgings
- >100 years of manufacturing history
- Strong innovation culture 3 patents awarded and applied for 11 others
- Co-development partner of OEMs
- Wide range of forging capabilities hammer forging, press forging, hot extrusion, precision forging, friction welding, 12,800T press in Germany
- Strong tool, die and machining capabilities
- Daimler and MAN are top customers

End-User Segments

- Commercial Vehicles segment accounts for more than half of the revenue
- **Non-auto segment** also accounts for a significant portion of the revenues. It includes
 - Marine (stationary engines)
 - Railways
- Passenger Cars
- Tier I Suppliers

India

- A Leading manufacturer of crankshaft and stub axles for Indian cars/ MUVs and tractor manufacturers
- Non-M&M business accounts for >70% of total sales
- New Chakan unveiled after acquisition
 - 4 new presses installed
 - 2 machining lines installed
 - Invested in well equipped die-shop
- Exports to customers like Renault, Benteler, ZF, VM
 Motori

End User Segments

- Passeneger Cars & UVs constitute >60% of revenues
- Non-auto segment also accounts for 20% of the revenues. It includes –
 - Tractors
 - Others incl. railways
- LCVs



Diversified & Complementary Product Portfolio

Passenger Cars • Links/Arms Knuckles · Wheel Carriers **Schoneweiss** Spindles Shafts Hubs/Spindles

- Links/Arms
- Piston
- Knuckles
- Ball Joints
- Axle Shafts

MFL India

Jeco

Knuckles

Con Rods

• Links/Arms

Crankshafts

Stokes

- Links/Arms
- Shafts/Gears
- Flanges/Yokes
- Levers/Bracket

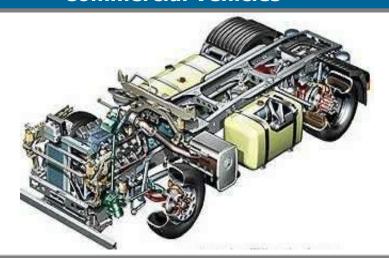
Commercial Vehicles

Schoneweiss

- Front Axle Beams
- Crankshafts
- Camshafts
- Knuckles/Spindles
- Wheel Carriers
- Brackets
- Con Rods

Stokes

- Hubs/Spindles
- Links/Arms
- Shafts/Gears
- Flanges/Yokes
- Levers/Bracket



Jeco

- Front Axle Assly.
- Links/Arms
- Piston
- Knuckles
- Ball Joints
- Axle Shafts

MFL India

- Knuckles
- Con Rods
- Links/Arms
- Shafts
- Stub Axle

Mahindra Forgings - Deep Dive

Forgings: Marquee Customers

Europe SCANIA **DAIMLER** JOHN DEERE VOLVO SAF MAHLE **BOSCH** PORSCHE RENAULT KESSLER-CO



PIAGGIO

TATA

MFL, Chakan Performance: Recovery in Place

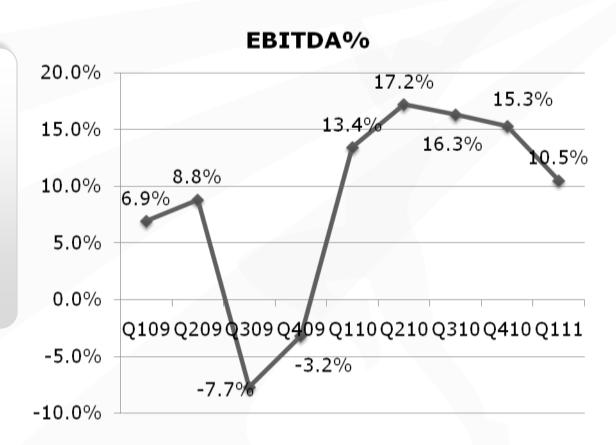
Actions in FY10

Productivity: up by a quarter †

Yield: Savings of Rs 3cr p.a.

Rejections: Halved

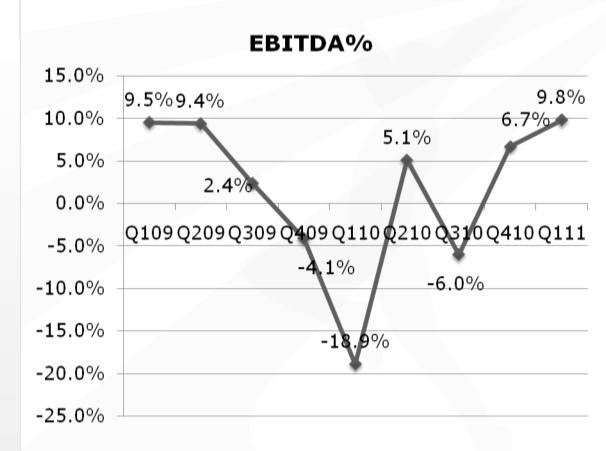
Improve die life: by 2 times



MFE Performance: Starting to Recover

Actions in FY10

- Reduction of personnel costs by 45%
 - reduction of head count by 31 %
 - up to 100 % short time working
- Reduction of fixed costs by 40 %
- Stock reduction by € 20mn
- Closure of Walsall plant, UK
 - Other plants under the scanner
- Centralization of administration for northern companies
- Innovation: 14 patents applied for



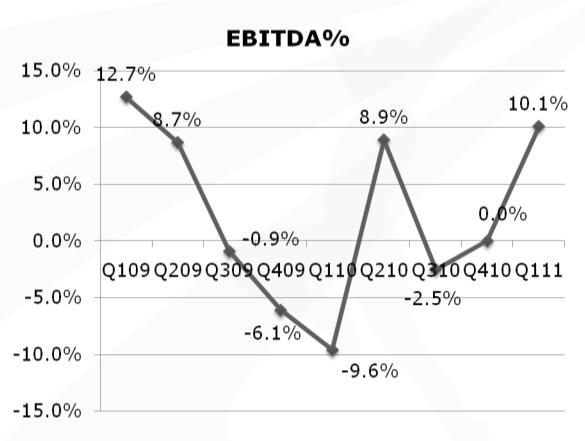
Note: EBITDA% calculated in Euro terms i.e. without currency translation loss



Mahindra Forgings – Deep Dive

Consolidated Performance

Parameters	FY10	FY09
Revenue (Rs cr)	1,327	2,243
EBIDTA (Rs cr)	(9)	143
EBITDA %	0.0%	6.4%



MFE using innovation to strengthen customer relationships

Example of Innovation

- Steering knuckle and manufacturing process
- DE 202007018728.9
- working title: pierced steering knuckle





SREPUBLIK DEUTSCHLAND

- high uncertainty among our customers due to supplier insolvencies
- No customer lost even in downturn
- Extension of portfolio with existing customers since Mahindra is seen as a sound company, e.g. DAF/PACCAR, SAF etc.
- Extension of portfolio with nonautomotive customers: Swiss & German Rail
- Expression of interest for new parts (peak revenue in 2014) for ~Euro50mn



MFE transferring knowhow to Chakan to improve operations

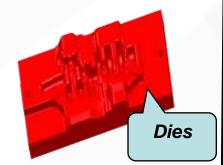
MFE transferring knowhow to Chakan: Key Areas

- 1. Engineering & Design
- 2. Tool Shop
- 3. Forge Shop
- 4. Maintenance
- 5. Quality Management

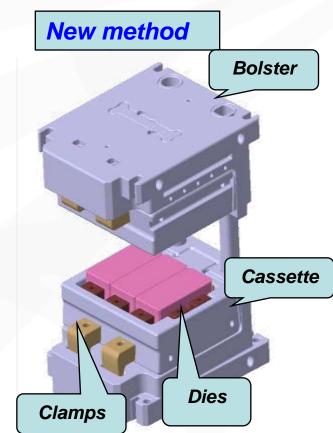
Example of Cross Pollination

Old method





Only the single elements were seen/addressed locally.



Complete System - Bed, Bolster, Cassette, Dies & Clamps



Mahindra Forgings Growth Strategy

Reboot

Europe

- Fundamentally restructure costs
- No further investments required Europe to sustain future growth

<u>India</u>

- Higher capacity utilization
- Improvement in yields leading to saving in raw material consumption
- Improvement in rejection ratios
- Improvement in die life through new die-welding technology

Re-invent

Europe

- Focus on process innovation to differentiate
 - Co-development approach with key OEMs
 - Association with key engineering institutes like Fraunhofer Institute, Germany

India

- Increase customer base through exports
 - Leverage European customer access
- Deeper relationships with new OEMs entering India
- Moving up the value chain
 - Investments into new machining lines completed
- Diversifying into non-auto business (railways and marine)

Re-ignite

- Focused centres of excellence
 - Crankshafts and stub-axles in India
 - CV forgings in Europe
- Increase production capabilities in India by investing in higher tonnage presses and additional machine lines
- Maintain Technology leadership in CV forgings in Europe
- Maintain market share in Europe and grow in India



Setting up Mahindra Aerospace: Grabbing opportunities as they came

"Street-Board MES Plexion Next steps cred" approval: acquired identified established enhanced NM5 2004 2005 2006 2007 2008

- **Then**: Rs10 cr, 100% M&M
- **Now**: Rs 200 cr, 20% M&M
- Excellent aerospace talent pool
- 5 acres of industrial land
- Strong domestic network

- Manufacture of Seabird Seeker
- Design of combat helicopter
- NAL approaches us for 5 seater project, Saras
- Approval of Rs 30 cr to co-develop NM5 with NAL
- Internal call: go upto "type certification"
- Offset policy opportunities
- Overtures from global aero OEMs
- Light aircraft opportunities





Mahindra Aerospace: Building Blocks

Building Blocks Mahindra Aerospace Aero Engg Gippsland – **Services Australian Aircraft** (ESO) Aircraft maker **ESO** Mfg. NM5 – Joint Aerostaff -**Parts MSO** project with Component in India NAL (Component Manufacturer in **Australia** mfg)

- Consolidate the acquired operations
- Reorganize under ONE management umbrella
- Design prototype produce market
- aircraft parts, assemblies & small utility aircraft



Aero Components: Dual Shoring between India & Australia

Small parts: simple & complex...



... sub-assemblies...



... and in time, major assemblies



Increasing complexity handled with time

Aerospace – An Introduction

Aircrafts: Focus on general aviation (<20 seater)



THANK YOU