

ACMA

Automotive Component Manufacturers Association of India

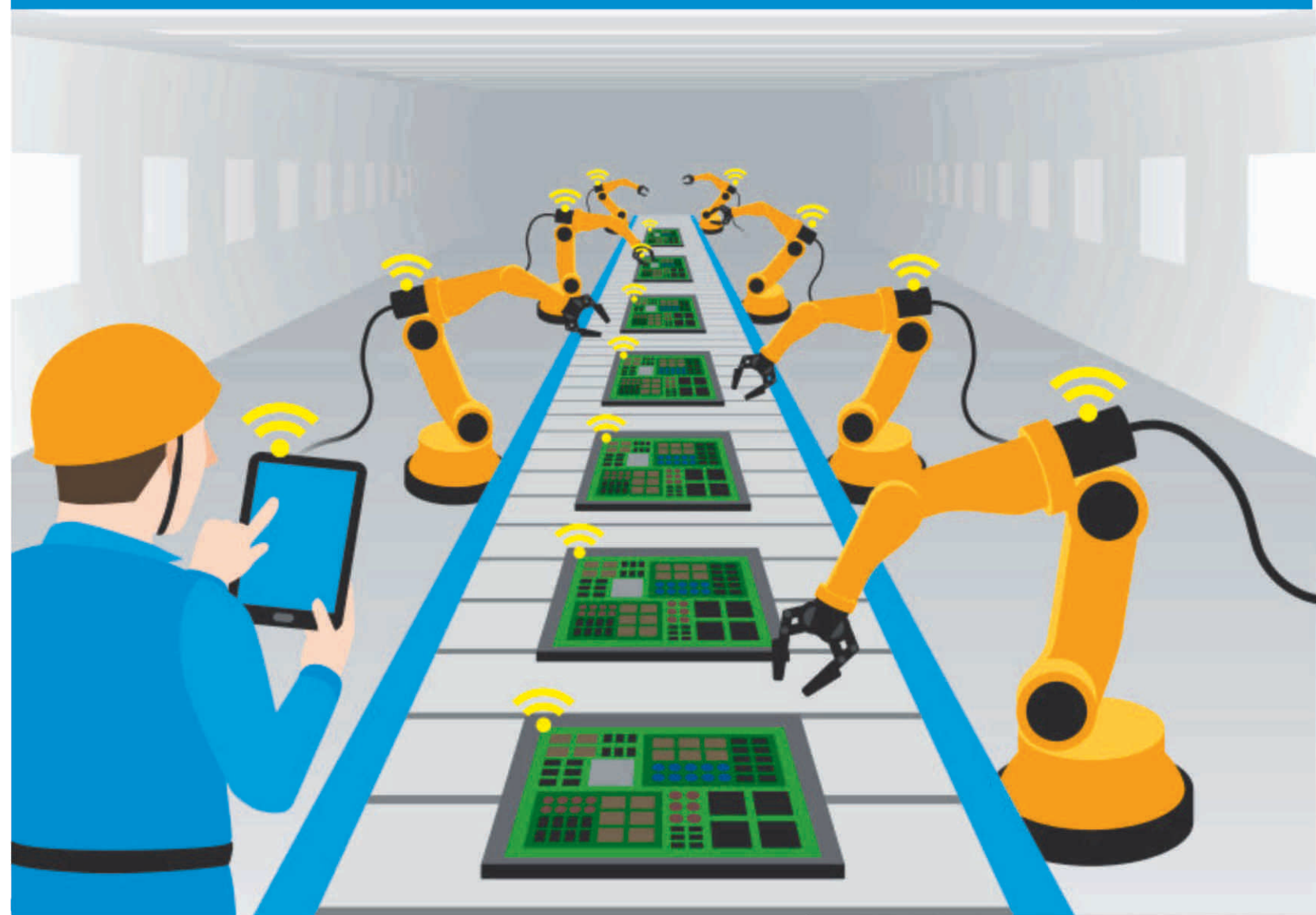
IMPACT

Indian Manufacturing Practices

Vol. 10 No. 2

by
ACMA Centre for Technology

May 2017



Business Focus

Quality
Safety

Cost
Morale

Delivery
Environment

Announcements:

- Highlights of ACT 2nd Summit, Pune
- Culmination of : ACT Advance Cluster 5
- ACMA Awards 2017
- ACT 4th Case Study Competition – October, 2017



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ENVIRONMENT, HEALTH & SAFETY TRACK				
Stage	Training	Location: Kolhapur, Belgaum Sangli	Location: Pune	Location: Nashik
Foundation I	EHS Value & Overview	16 Aug	21 Aug	30 Aug
	Basic Safety Training			
Foundation II	Role of Supervisor in Safety	17 Aug	22 Aug	31 Aug
	EHS Regulatory Compliance	18 Aug	23 Aug	1 Sept
Foundation III	Hazard Recognition & Risk Assessment	8 Sept	14 Sept	25 Sept
	Awareness in ISO 14001 & OHSAS 18001	9 Sept	15 Sept	26 Sept

ENERGY TRACK				
Stage	Training	Location: Pune	Location: Kolhapur Belgaum Sangli	Location: Nashik
Foundation I	Energy Conservation Value & Overview	16 Aug	28 Aug	6 Sept
	Energy Management and Energy Audit			
Foundation II	Role of Energy Conservation Cell	17 Aug	29 Aug	7 Sept
	Financial Aspect in Energy Management			

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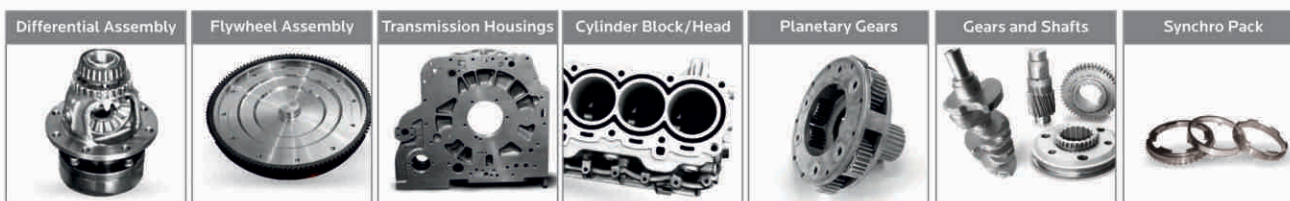
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“Achieve Best to Give the Best”

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Chairman's Message

It is my pleasure to present to you the Vol. 10 Issue 2 of “IMPACT” with special focus on “ACT 2nd Summit held in January 2017 at Pune”.

Friends, the global auto component industry is a strong USD 1.75 trillion industry with USD 500 billion as its contribution in value-addition. Last year top-100 component manufacturers invested close to USD 50 billion in R&D. In the last one-decade, 50% of total innovations in the automotive sector were co-developed by the auto component sector. This clearly indicates the auto component industry is the engine of growth contributing to the global economy.

With the Government of India’s vision to make India a leading destination for designing and manufacturing of automobiles and auto components, the opportunity for India to emerge as a global market supplier of automotive components strengthens further. According to Automotive Mission Plan 2016-26 (AMP) the Indian auto component industry aims to achieve USD 200 billion in revenue by 2026, with exports in the region of USD 70-80 billion and to realise this, the industry requires USD 25-30 billion in investments.

During the FY 2015-16 the Indian Automotive Industry faced several challenges such as inconsistent monsoons leading to a slowdown in the rural demand and also certain regulatory developments like stricter emission norms, safety regulations, end of life regulations, focus on fuel conservation leading to changing usage habits of automotive consumers.

In this milieu, despite all odds, the Indian auto-component industry registered a turnover of 2,55,635 crore (USD 39 billion) growing by 8.8 percent, surpassing the Automotive Mission Plan 2006-16 target. The CAGR of the industry stood at 6 percent over a period of six years.

In the coming decade, driven by needs of safety, fuel efficiency, sustainability and customer preferences, the Indian automotive industry will undergo a significant transformation. Amendment in Motor Vehicle ACT and legislations on Vehicle Recall and Vehicle Scrappage and focus on electric mobility and alternative fuels will also impact the industry dynamics. Over the years the auto component industry has adapted well to the changing environment and customer needs. To keep pace, the Indian auto component manufacturers will be required to develop capabilities for in-house design, harness frugal engineering and create product differentiation through innovation. Further, the industry will be required to focus on Quality and Innovation more than ever before to graduate from being a ‘build to print’ to one that is ‘art to part’.

I am sure you will appreciate the contents shared through this issue and I look forward to your valuable feedback, not only to improve “IMPACT” but also for augmenting the gamut of services from the ACT stable.

Best Wishes

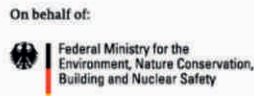
Srivats Ram

One complimentary copy of "IMPACT" is sent to each member of ACMA. Additional copies are available @ ₹ 150/- for each copy. This cost is including service tax & postage charges.

2nd Summit of ACMA Centre for Technology
'Innovations in Manufacturing - Make in India'
 9th & 10th January 2017; Hotel - The Westin, Pune, India



सत्यमेव जयते



of the Federal Republic of Germany

ACMA Center for Technology organised the 2nd Summit of ACT in Pune. Spread across two days, viz. 9th and 10th January, the summit focused on 'Innovations in Manufacturing- Make in India' as its theme.

The summit included strategic discussions, addressed by noted industry luminaries, on topics ranging from Automation, Digitization, Future Manufacturing, Innovative business models, Optimizing resources, Zero defect quality and various others. The summit was graced by eminent personalities and dignitaries

Key highlights of Summit:-

- Mr. Anant Geete, Hon'ble Union Minister for Heavy Industries & Public Enterprises, Government of India was the Chief Guest at the inaugural session on 9th January 2016.
- Mr. Baba Kalyani, Chairman & Managing Director, Bharat Forge Ltd. was the Chief Guest at the valedictory session on 10th January 2016.
- The legendary quality guru, Mr. C. Narasimhan, Chief Mentor ACT & Past President Sundaram-Clayton Ltd. was awarded the Life Time Achievement Award.
- The summit was attended by 650+ participants.
- Panel Discussions-
 - Emerging Design and Development Capabilities in Auto-component sector
 - Technology driven quality in manufacturing
- Key note addresses by National & International Experts on-

Digitization, Innovations in Energy management, Adaptive control, Zero Defect quality, Process audits,

Additive Manufacturing / 3D printing, Resource Efficiency, Innovations in Safety, Eco-Management & Audit Scheme (EMAS), Innovative business model, Information Technology (IT), Innovative Work Behavior & Global Automotive Industry.

- ACT Cluster Experience shared-
 - New Product Development, Zero Defect & Zero Effect, Export
- Case Studies presentations on-
 - Zero Defect Quality, Zero Effect Activities, IoT-Internet of Things and Innovation & Automation
- ACMA Award Gold Winners Experience Shared- Excellence in Manufacturing & Technology
- Mission Swayam – Satellite team presentation
- Opportunity to meet the doyens of automotive industry and learn from their rich experience
- Interaction with the IPOs, OEMs, international delegations and other stake holders from the automotive industry
- Exhibition Stalls- Industry Software, AGV, Automation in Material handling, Web applications, simulations, training services, product displays.
- Appreciation of- 1st ACT Cluster participating companies (7 numbers), Best Performing ACT Cluster Companies (32 numbers), ACT Cluster Heroes (41 numbers), Mission Swayam COEP team (40 numbers), ACT cluster slogan competition winner (12 numbers) & Best Stall Award (3 numbers).

Program Day 1 - 9th January 2017



Lamp Lighting by Mr. Anant Geete - Union Minister for Heavy Industries & Public Enterprises, Government of India.



Welcome Address by Mr. Srivats Ram, Past President ACMA, Chairman ACT & Managing Director, Wheels India Ltd.



MOU sign off for joint programs: ACMA-Cardiff, UK



MOU sign off for joint programs: ACMA-DuPont, USA



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Address by Chief Guest: Hon'ble Union Minister for Heavy Industries & Public Enterprises, Government of India

"I acknowledge the unparalleled efforts put in by the ACMA Centre for Technology (ACT) in guiding the auto component industry to adopt international best practices and bring about awareness on path-breaking technologies and development processes. The issues of environment and technology are becoming critical as we evolve and this summit, is certainly the apt forum to advocate innovation in manufacturing. I congratulate ACMA for their efforts to drive the industry forward in a responsible manner and assure that the government will extend full support to ACMA in realizing the Prime Minister's vision of 'Make in India'."



Vote of Thanks by Mr. Nirmal K. Minda: Vice President, ACMA, Chairman & Managing Director, Minda Industries Ltd.

Commenting on the success of ACT's role in promoting the auto component industry.

"The Indian Auto Component industry is at a point of inflection, quality and technology will be the key differentiator for industry's competitiveness. With the 'Make in India' initiative and thrust on increased localization by OEMs, the component industry is actively focusing on delivering enhanced quality products, as well as, on R&D and innovation. In the backdrop of this summit, ACT has signed two MoUs in the area of higher education with Cardiff University, UK and with DuPont on 'Train the Trainer on Safety' respectively. ACT is playing a major role in industry upgradation and I am happy to note that 300 companies including Micro, Small, Medium, Large industries and OEMs, are part of the present running clusters."



Panel Discussion: Emerging Design & Development Capabilities in Auto-component sector

Ashok Taneja, Session Moderator - Past President ACMA, Managing Director & CEO, Shriram Pistons & Rings Ltd.

Lalit Verma - Sr. Vice President, Component Development & Materials Management, Automotive & Truck and Bus Division, Mahindra & Mahindra Ltd.

Srivats Ram - Past President ACMA, Chairman ACT & Managing Director, Wheels India Ltd.

T. Sarangarajan - Sr. Vice President -Tractor Operations, Tractors and Farm Equipment Limited (TAFE)

Peter Wells - Head of Logistics and Operations Management & Co-Director at the Centre for Automotive Industry Research, Cardiff University, UK

Captain Mohan Ram - Advisor & Former President of TVS Motors Ltd., Heads SIAM group on Recycling

Selvamani Sundaramahalingam - Mentor-ACT NPD Cluster Program & Former Engineering Director, Asia Pacific, WABCO Vehicle Control System & Chairman, SAEINDIA Southern Section.

Session : Presentations on Automation, Digitization & IT

Program / Particulars	Speaker	Designation & Company
Industry 4.0- Networked Manufacturing (Digital Manufacturing)	Sanjeev Balan	Senior General Manager, Manufacturing Engineering, Tractors and Farm Equipment Limited (TAFE)
Real-time Visibility of the Shop floor Activities enabling Real-time decision making process	Arun B Nooli	Director, Digital, Smart & IoT Manufacturing and Technology SBU – India and Middle East, Wipro Ltd.
Getting best out of IT (Information Technology)	S. Srinivasan	Mentor, ACT IT Cluster (with ACMA- IT Committee), Former Head of IT of Sundram Fasteners Ltd.
Solutions for Automated world- Assembly & Process Automation	Jayaram M S	Director, Micrologic Integrated Systems (P) Ltd.



Session : Presentations on Future Manufacturing & Innovative Business model

Program / Particulars	Speaker	Designation & Company
Additive Manufacturing	Dr. Bharatkumar B. Ahuja	Director, College of Engineering, Pune & Professor at Department of Production Engineering & Industrial Management
Factory of Tomorrow, Decoupling of “pre-production,” “production” and “post-processing” by 3 D Printing Mfg Lines	Sven Günther	Regional Sales Manager, Concept Laser GmbH, Germany
Process to drive consistent business results out of investments in R&D and innovation	Abhay Deshpande	Technical Services and Application Development manager, E I DuPont India Pvt. Ltd.

Session : Success Case study presentations on Right first TIME NPD by ACT Cluster companies & OBTE

Program / Particulars	Speaker	Designation & Company
Developing Gear box assembly-Right At First Time	Vijayaraghavan	Managing Director, IM Gears Pvt. Ltd.
	T. Nagappan	Vice President- Engineering, IM Gears Pvt. Ltd.
Developing New Product Development (NPD) capabilities	Rajesh Oommen	President, Sundaram Auto Components Ltd.
Outcome Based Technology Education (OBTE) Relevant for the industry	M. L. Bapna	Advisor (Industry-Academia), IIT Jodhpur, Former CEO Tata Enterprises Ltd.



Session : Presentation on Reaching beyond skies

Program / Particulars	Speaker	Designation & Company
Mission Swayam (satellite)- Developing a bi-directional communications platform	Dr Manisha Y. Khaladkar	Associate professor of chemistry, Department of Applied Science, College of Engineering, Pune.
	Sayed Umair Daimi	Project Manager, COEP's Satellite Initiative (CSAT), College of Engineering, Pune.

Appreciation of Mission Swayam team by ACMA



Experience Sharing by ACT 3rd case study competition- Gold award winners

Program / Particulars	Speaker	Designation & Company
Stream - Zero Defect Quality	Elimination of paint coverage rework in Tractor Front Wheels.	Wheel India Ltd., Rampur
Stream - IoT- Internet of Things	Reduction of Tool Cost on HAAS-1 machine in PT area by introducing the Tool breakage system.	Cummins India Ltd., Pune
Stream - Zero Effect Activities	Elimination of Paint wastage due to accumulation on CED line Jigs.	Wheel India Ltd., Rampur
Stream - Innovation/Automation	Pressure Fatigue Life Improvement in Diesel Fuel Injection Pump through Process Innovation	Delphi TVS Diesel Systems Ltd., Mannur



Selfie Point- Open to all summit participants



Program Day 2 - 10th Jan 2017

Session : Presentations on Innovative Work Behavior & Global Automotive Industry

Program / Particulars	Speaker	Designation & Company
Innovating Operational Excellence: Moving beyond tools and techniques to innovative work behavior	Dr. Maneesh Kumar	Reader (Associate Professor) in Service Operations, Program Director- Executive MBA, Cardiff University, UK
Fragmentation or consolidation? The future of the global automotive industry and the implications for suppliers	Peter Wells	Head of Logistics and Operations Management & Co-Director at the Centre for Automotive Industry Research, Cardiff University, UK



Session : Presentations on Innovations in Safety & EMAS

Program / Particulars	Speaker	Designation & Company
Innovation in Safety for manufacturing excellence	Jayan R.	Business Development manager, DuPont Sustainable Solution
Eco-Management & Audit Scheme (EMAS) implementation at Schaeffler	Murali Chenrayan	EHS Country Coordinator- India, Schaeffler

Panel Discussion: Technology driven quality in manufacturing

Jayant Davar, Session Moderator - Past President ACMA, Co-Chairman & Managing Director, Sandhar Technologies Ltd.

Srinivas G Shirgurkar - Managing Director, Ace Designers Limited & Past President IMTMA

Dr S. Devarajan - Sr. Vice President, Production Engineering, TVS Motors Ltd.

C. Narasimhan - Chief Mentor ACT & Past President Sundaram- Clayton Ltd.

M. S. Unnikrishnan - Managing Director & CEO, Thermax Ltd.

P. Jeganathan - Vice President, Globle Lean Promotion, WABCO India Ltd.

P V Raju - Executive Director, Yazaki India Pvt. Ltd.

Maithilee Tambolkar - Managing Director, Sanjeev Auto Parts Manufacturers Pvt. Ltd. (Sanjeev Group)



Session : Presentations on Optimising Resources

Program / Particulars	Speaker	Designation & Company
Innovation in resource efficiency	Uwe Becker	Senior Advisor, Resource Efficiency & Management of Secondary Raw Materials, International Zusammenarbeit (GIZ) GmbH, Germany
Success story of ACMA-GIZ-TERI 1st Resource Efficiency Project- Resource optimisation in Auto component sector	Amitrajit Sinha	Vice President, Sterling Tools Ltd.
Innovations in Resource Management (water & energy)	Prahlad Kumar Tewari	Fellow, Energy Environment Technology Development (EETD) Division, The Energy and Resources Institute (TERI)
Innovations in Energy Management	Rajat Batra	Chief Executive Officer, STENUM Asia Sustainable Development Society



Session : Success Case study presentations on Customer delight by Zero Defect Quality

Program / Particulars	Speaker	Designation & Company
Achieving zero defect quality in engine assembly line	Dr Devarajan	Sr. Vice President, Production Engineering, TVS Motors Ltd.
ACT Zero Defect & Zero Effect (ZED) cluster program	Deepa Dinesh	Assistant Vice President, Yazaki Wiring Technologies India Pvt. Ltd.
Structured approach for Achieving RFT in process audit through ACT export cluster	Rajiv Kulkarni	Technical Director, Sanjeev Auto Parts Manufactures Pvt. Ltd.
	R. S. Gawali	D G M Technical, Sanjeev Auto Parts Manufactures Pvt. Ltd.

ACMA Gold Awards winner 2016 - experience sharing

Program / Particulars	Speaker	Designation & Company
Manufacturing Excellence (Large category)	L M Joshi	General Manager Plant Operations, Minda Corporation Ltd
	Neeraj Sharma	Deputy General Manager Quality & Improvement Cell, Minda Corporation Ltd
Excellence in Technology (Large category)	Dr. A. K. Prakash	Head of Advance Engineering, Hella India Automotive Pvt. Ltd.
	Sarang Deshpande	Head of Quality, Hella India Automotive Pvt. Ltd.



Award Ceremony (Part 5 of 5) & Valedictory Session
Welcome Address by Srivats Ram Past President ACMA, Chairman ACT & Managing Director, Wheels India Ltd.

1st ACT Cluster participating companies' felicitation



Life Time Achievement Award



Address by Chief Guest Baba Kalyani, Chairman & Managing Director, Bharat Forge Ltd.

Speaking on the evolution of the auto component industry in India remarked, "Years of sustained efforts by the auto component sector and a pro-active government policy framework have transformed a relatively small domestic industry into one with world-class manufacturing practices and a global footprint. The rapid developments in the fields of automation and the robotics in recent times have helped the automotive industry to significantly improve quality, productivity, delivery and at the same time reduce cost. Therefore, it is imperative that higher levels of automation will be integral to manufacturing. This is critical to the growth of the sector to meet global quality and productivity levels. Moreover, with India being a volume driven market, high automation will allow of appropriately sweating the assets."

Vote of Thanks by Dinesh Vedpathak Head Cluster Program, ACMA Centre for Technology (ACT)



ACMA Centre for Technology Team behind the two Days Mega Event



Culmination of ACT Advance Cluster 5 10th January 2017 at Hotel Westin, Pune



The Culmination ceremony of ACT Advance Cluster 5 was organized on 10th January, 2017 at Pune. The event attended by Mr. Srivats Ram, Chairman ACT, Mr. Dinesh Vedpathak, Head Cluster Program ACT, Mr. VK Sharma, Dy. Head Cluster Program ACT, Mr. SB Dokey Expert ACT Cluster Program along with the CEO's & representatives of cluster companies and the entire staff of ACT.



Mr. Srivats Ram, Chairman ACT congratulates all participating companies for successfully completing this improvement journey and wishes them the best for future sustenance.

All companies made substantial progress in overall improvements and their concerted efforts resulted in overall saving of INR 1212.3 Lakhs in this cluster. The overall feedback received from the cluster participating companies is very encouraging and the satisfaction level is 96%.



Following companies were part of this cluster:

1. Autofit Pvt. Ltd., Dharuhera
2. Delux Bearings Pvt. Ltd., Wadhwan
3. Gold Seal SaarGummi India, Daman
4. J. K. Fenner (India) Ltd., Hyderabad
5. Nipman Fastener India Pvt. Ltd., Bawal
6. NTF (India) Pvt. Ltd. Unit-III, Manesar
7. Setco Automotive Ltd., Kalol
8. Setco Automotive Ltd., Sitarganj

Score *(on a scale of 10)										
S.No	Head	Autofit	Delux Bearing	Gold Seal	J.K. Fenner	Nipman	NTF(India)	Setco (kalol)	Setco S.Ganj	Over All Score
1	Counselor Visits	10	10	10	10	10	10	9	10	10
2	Training hours provided	10	9	10	10	10	10	9	10	10
3	Training topics coverage	10	10	10	9	10	10	9	10	10
4	Delivery as per plan (roadmap)	10	10	10	9	10	9	9	10	10
5	Learning from MRMs	9	9	9	9	9	9	10	10	9.5
6	Learning from model plant visits	9	9	10	10	9	9	10	9	9.3
7	Total score (out of 60)	58	57	59	57	58	57	56	59	461
Score in % (Out of 100)		97	95	98	95	97	95	93.3	98	96

Overall Value for Money (Value In INR lacs)																
S.N	Head	Autofit	Delux	Gold Seal	J.K.Fenner	Nipman	NTF(India)	Setco	Setco							
1	Red Tag	7.0	2	8.5	10.1	4.25	3	17.82	1.7	1.65	18	10	40	10	16	4
2	Energy / Toolings	2.6	1.2	4.0	3.5	16.50	10	7.40	3.3	10.68	17.6	1	1	6	4	6
3	Kaizen	4.86	4	36	45	68	60	11.26	2.75	1.27	2.97	6	5	12	10	15
4	OCC	6.24	5	11.1	16.5	330	100	43.27	10	0.975	1.67	3	5	5	5	4
5	Productivity	31.7	16.74	6.5	8.5	63	45	10.45	5.2	2.8		7	9	4	12	7
6	Quality	5.43	2	6.0	5	205	100	13.69	6.5			3	3	8	4	13
7	Other	21	18	2.9	4	50	15	9.45	45			9	5	5	4	
8	Total Savings	78.83	48.94	75	92.5	736.75	333	113.34	74.45	17.382	22.44	41	33	84	50	66
9	Cluster Fees	16.50	-	16.50	-	16.50		16.50		1.65		16.5	16.5	16.5		
10	Net Savings	62.33	48.94	58.5	92.5	720.3	333	96.84	74.45	17.382	22.4	24.5	33	67.5	50	49.5
Over all Net Saving During Cluster Program = 1212.3 lacs,													Expected Saving in the year 2017-18 = 703.93 lacs			

ACMA Centre for Technology - NEWS

International Plant Visit by ACMA Centre for Technology Team – Thailand 16th March 2017 at Mercedes – Benz, CKD Manufacturing Plant, Bangkok



The team headed by Mr. C Narasimhan (Chief Mentor – ACMA Centre for Technology) & Mr. Dinesh Vedpathak (Head Cluster Program – ACMA Centre for Technology) for a guided tour of your manufacturing facility in Thailand. This visit was highly appreciated by all.

The team visited are a part of ACMA & all are technical counselors in the areas of operational Excellence & supporting Auto – Component industries in India. The team is keen to transfer the visit learnings to companies in India through the cluster programs.

This will go a long way in upgrading them through adoption of “World Class Manufacturing Practices”, learnt from the Company.

Mr. C Narasimhan (Chief Mentor – ACMA Centre for Technology) shared that - this was a great learning about Green Surroundings, Factory Visuals, Efficient material handling & Material Logistics, Compact layout and the robust “Monitoring & Review System”.



Mr. C Narasimhan (Chief Mentor ACT) Appreciated People of Mercedes Benz plant.

International Plant Visit by ACMA Centre for Technology Team – Thailand 16th March 2017 at Tokai Rika Thailand Company (TRT), Thailand



TOKAI RIKAI (Thailand) welcomes
Automotive Component Manufacturers Association of India
on March 16, 2017

Mr. K Chandrasekhar (National Program Coordinator-UNIDO) shared that - this was a great learning about Green Surroundings, Factory Visuals, Efficient material handling & Material Logistics, Compact layout and the robust "Monitoring & Review System".



Mr. Dinesh Vedpathak (Head Cluster Program – ACT) & Ms. Sapana Baravkar (Sr. Counselor - ACT) Appreciated People of Tokai Rika Thailand plant.



ACMA Centre for Technology 10th Team Meeting
 ACT sets a vision to transform 8000 companies in next 3 years
 17th March 2017 at Thailand



ACMA Centre for Technology conducts its review twice a year to calibrate the learnings & work towards future need of industry. This time review was conducted at Thailand by connecting with 2 plant visits. The Event started with Group photo & Introduction of Team.

Brief of the event was given by Mr. Dinesh Vedpathak, Head Cluster Program. He shared that ACT has grown up from 1 type of Cluster program to 19 types of Cluster programs with a total of 32 clusters running at a time. Till date ACT supported 650 companies.

He also shared ACT program location all over India, towards Digital India mission launch of www.digitalact.in website & Start working on Patents.



Ms. Sapana Baravkar (Sr. Counselor ACT) shared that now ACMA Centre for Technology have National & International Joint Programs with GIZ, Cardiff, DuPont, HIDA. She added this year is full of Mega Events like ACMA Awards 2017 at Pune, ACT 4th case Study Competition – Sept 2017 at Pune & 3rd Summit of ACT on theme of Digitizing Auto Component Manufacturing in India, 8th & 9th December 2017, Pune.



Mr. Srivats Ram (Chairman ACT) shared his thoughts on Continuous Improvement, finding out new areas & start working with partners for better results. He suggested that we have to focus on Academia/ Schools for building culture of improvements at start. He explained the word “flow”, means the notion of optimal experience refers to a state of concentration & Deep Enjoyment.



Mr. C. Narasimhan (Chief Mentor ACT) shared that Success is Progressive. During plant visits we have to see work culture & there is always some good things in each company, for this Detailed & In-depth study required.

Must be Facilities, Bad habits & Undesirable practices should be followed by each cluster company.

We have to Work for Future, for this we have to learn from Past, do not Create past. He also added 5S Lab required in Schools & colleges, so we can build it as a culture at the start of age.

He shared to work on Logistic Engineering, Tool Engineering & Documentation.

Mr. Vinnie Mehta (Director General ACMA) appreciated efforts by ACMA center for technology team to transform companies into “Hospital Clean & Garden Green” concept which represents a true Lean scenario. He shared his experience on Robotics that some companies in Developed countries creating robots & put them in exhibition for schools’ children’s. All they want to create thinking at the start of age, so they got innovative ideas. He suggested to take this forward under ACT activities.



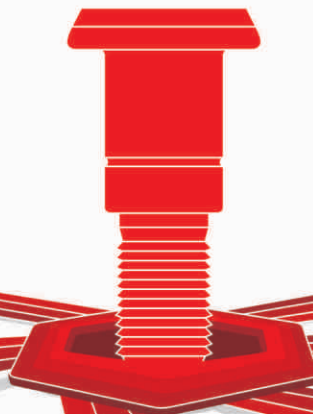
STERLING TOOLS LIMITED



STL manufactures high tensile fasteners for the automotive industry catering to passenger cars, two wheelers, commercial vehicles, agri equipment and construction equipment manufacturers.

We address the demands of a dynamic market environment in accordance with quality standards and environmental regulations. Responding to the needs of prominent OEM and Tier 1 players worldwide, we offer a variety of surface finishes such as Zinc Phosphating, Zinc Plating and Dip Spin Coating on fasteners. We use leading brands for coating finishes on fasteners, such as Geomet, Magni are done in-house. We have in-house facility to do Product Design Simulation, Fastener Endurance Test and Bolt Joint Simulation.

We classify our fasteners into four categories and these can be manufactured to suit customer requirements.





STANDARD FASTENERS



SPECIAL FASTENERS



CHASSIS FASTENERS



ENGINE FASTENERS

Nuts

M6 to M22 and equivalent inch series

General Specifications for Fasteners

Diameter Range M5 to M26

Length range

10 mm to 300mm

Heat Treatment Grades

7T, 8.8, 9T, 10.9, 11T and 12.9

Surface Finishes

Zinc Plating with Trivalent Chrome,
Zinc Phosphating, Zinc Flake Coating
(Geomet and Magni)

CORPORATE OFFICE:

5A DLF Industrial Estate, Faridabad
Haryana - 121003

PHONE: +91 (0) 129 -227 0621, 0622, 0623, 0624, 0625

FAX: +91 (0) 129 -227 7359

EMAIL: sterling@stlfasteners.com

WEBSITE: www.stlfasteners.com



Mr. V.K. Sharma, Dy. Head Cluster Program ACT shared the progress for various ACT Cluster Programs running, programs completed this year & New launches happened in this year. All the companies are doing very well in terms of Lean scenario.



Mr. Sunil Mutha, Principal Counselor ACT shared the progress of Engineering Excellence Cluster program & the various cluster programs running in Force Motors Ltd. Company.



Mr. K. Chandrasekhar, National Program Coordinator ACMA-UNIDO shared the progress of various cluster programs running in Tier 2 & Tier 1 companies.

Training on Safety by DuPont Sustainable Solutions 3rd to 5th April 2017, ACMA Office, Pune



ACMA has signed MOU with Dupont for training it's counselors to upgrade present safety training modules by in-depth learning of Safety Management system, Hazard Identification & its Risk Assessment, Safety Audits, Safety Training Effectiveness, Safety basic principles, Safety Rules, Emergency Response Procedure. This training is spread out over 6 months.



Safety Trainer Dr. G Krishna Prasad giving Training



Participants during training program of Dupont:



Safety Trainer Mr. S Thirumalai giving Training

Training by Indian Machine Tool Manufacturers' Association (IMTMA) on Tools & Fixtures 6th April 2017, ACMA Office, Pune



We learnt about importance of Tool Design to achieve Zero Defect, Tool design process, 8 ways to select right cutting Tools, Requirement of the correct fixture & its importance.

MRM-14 of ACT Foundation Cluster - 9

08th April. 2017 at Meenakshi polymers Pvt. Ltd., Gurgaon

Mr. Vibhav Soni, Cluster CEO – MPPL, Gurgaon welcomed all Cluster delegates & ACT officials. He acknowledged the cultural changes witnessed in the plant during cluster activity. He felt privileged to host first QC competition of FC 9 (Foundation cluster-9).

Mr. Dinesh Vedpathak, Head Cluster Program ACT thanked MPPL for hosting the MRM & asked to all for start real time data capturing. ACMA is now starting an IT cluster to support industry in this regard. Implement bar code / laser marking system for your products and tools/fixtures. 100 % jogging track required. No deviation allowed in the company. Make customer complaint zero, start work from today. Safety: capture near miss data in each company

Spend 2% of total turnover on CSR activities, contribute to 'Swachh Bharat Abhiyan', outskirts must be clean and garden green.

Mr. Sanjeev Soni, MD, M/s Meenakshi polymers Pvt. Ltd., Gurgaon shared his experience with ACT clusters, he stated that MPPL, Binola unit experienced 300 % change in all aspects like Mind set of people, Shop floor looks, Customer view and appreciation.

Presentations were delivered by all the cluster member companies

- Meenakshi Polymers Pvt. Ltd., Gurgaon: By Mr. Vibhav Soni, cluster CEO
- Auto Comp Panse Pvt. Ltd., Pantnagar: By Mr. Regode, Cluster CEO.



- INEL, Rewari: By Mr. Shailender, Cluster Coordinator.
- Meenakshi Polymers Pvt. Ltd., Binola: By Mr. R.K. Rana, GM, Business development
- Admach Auto, Faridabad: By Mr. Amritpal singh, cluster CEO
- Neokraft Global Pvt. Ltd., Noida: By Mr. Anil Munjal, cluster CEO
- Mehta Engineers Pvt. Ltd., Ludhiana: By Mr. Jagjit singh, cluster CEO.

Winners of Quality Circle Competition of ACT Foundation Cluster 9

Presentation given by line operators. This was their first attempt to present quality circle in any event.



Best Quality Circle award won by India Nippon Electricals Ltd., Rewari.



1st runner up prize won by Meenakshi Polymers Pvt. Ltd., Binola



2nd runner up prize won by Auto Comp Panse Pvt. Ltd., Pantnagar

Mr. V.K. Sharma appreciated the operators for coming and presenting the quality circles fearlessly. He added below mentioned points for further enhancement in the capabilities of Quality circles teams.

- Why- why analysis for root causes.
- Take action against each why.
- Eliminate defect make it zero.
- Use Pareto with full understanding.

Industry-Institute interface by ACMA Centre for Technology with IIT – Delhi, College of Engineering - Pune, Dr. DY Patil School of Engineering & Technology – Pune & Cardiff University - UK

The Automotive Component Manufacturers Association of India (ACMA) represents the Indian Auto Component Industry and has over 750 Indian manufacturer members that together, form more than 85% of the auto component industry's turnover. This prestigious organization has played a pivotal role in the growth and development of the sector thanks to its active involvement in trade promotion, technological innovation and quality enhancement activities. The ACMA acts as a catalyst to share best practice in all of these areas, raising the performance of the sector as a whole. As part of this work, ACMA seeks to build international links to assist trade delegations to

experience the latest manufacturing developments across the world, to ensure that the organizations that they represent have access to cutting edge expertise.

Indian Institute of Technology (IIT – Delhi) –

IIT is one of the renowned Institute in India to contribute the World through excellence in scientific and technical education and research and to serve as a valuable resource for industry and society. ACMA Center for Technology is going to start collaborative projects which offer opportunities for long-term interaction with academia and industry.



Mr. Vinnie Mehta (Director General) & Mr. Dinesh Vedpathak (Head Cluster Program – ACT) meeting with IIT Delhi Professors in IIT Delhi campus

College of Engineering (COEP – Pune)

As per the results of the National Ranking Framework (NIRF 2017), COEP has bagged 24th Position amongst top 100 Engineering Institutes in the country.

To be a leader amongst engineering institutions in India, constantly pursuing excellence, and offering world class education with values.

ACMA Center for Technology is going to start collaborative projects which offer opportunities for long-term interaction with academia and industry with College of Engineering – Pune.



Mr. Dinesh Vedpathak (Head Cluster Program – ACT) & Ms. Sapana Baravkar (Senior Counselor) meeting with College Professors in campus

Dr. DY Patil School of Engineering & Technology - Pune

The college is working on to help build an enlightened, culturally and economically vibrant India developed through education in diverse disciplines.

ACMA Center for Technology is going to start collaborative projects which offer opportunities for long-term interaction with academia and industry with Dr. DY Patil School of Engineering & Technology – Pune.



Cardiff University – UK

Cardiff University and Cardiff Business School has a unique lean heritage and is a leading lean light in pushing the boundaries of our knowledge about operational excellence.

Cardiff Lean University program, decided to focus on better understanding the transfer of lean skills and knowledge to change teams and managers

ACMA Center for Technology signed a MOU with Cardiff University on 9th Jan 2017 in 2nd Summit of ACT about “ACMA Cardiff Operational Excellence Study Tour & Training Program at Cardiff”.

This training program is planned from 12th June 2017 to 16th June 2017 in Cardiff University- UK.

Faculty is very Experienced in Lean. Dr. Maneesh Kumar: is a Reader of Service Operations & Program Director of Executive MBA at Cardiff Business School, Cardiff University. Dr. Stephen Disney: is a Professor in Operations Management. His research interests involve the application of control theory and statistical techniques to operations management and supply chain scenarios to investigate their dynamic, stochastic and economic performance. Sarah Lethbridge: Sarah is the Director of Executive Education at Cardiff Business School and her role is to assist organizations to access our academic expertise to improve. Dr. Ying Liu: Ying is a Senior Lecturer with the Institute of Mechanical and Manufacturing Engineering at the School of Engineering.

MRM - 2 of ACT Zero Defect & Zero Effect Cluster – 2 11th & 12th April 2017 at Fairfield Oerlikon – Belgaum



Mr. V. Muthu, cluster CEO & Plant head – Fairfield Oerlikon shared that we have made very good progress under the various ACT cluster programs and there is a total turnaround in the culture of the company. **Company has grown from 100 crores 500 crores.**

Mr. Dinesh Vedpathak, Head Cluster Program ACT & Mentor, ACT ZED-2 program shared about Must be facilities (each company should achieve minimum 90% score), Abnormalities capturing through 5-senses (target is 130 abnormalities per person), Travelling trend chart (TTC), DRVME sheet (Defect, Reason, Validation, Monitoring, Effectiveness), PERT chart (Program evaluation review technique), Star diagram, Error & Defect differentiation. Capturing of abnormalities is very important. These abnormalities only turn into defects at a later stage/time.

Types of Quality in a company:

- Segregated Quality – Good parts, Bad parts
- Inspected Quality – Good parts only (ritual activity)
- Reworked Quality
- Hold Quality
- Deviated Quality
- Seconds Quality
- First time right Quality – Virgin Quality

MRM Presentations were showcased by all cluster companies.

- Fairfield Oerlikon, Belgaum - Mr. V. Muthu, Cluster CEO and Mr. Nesarkar, Mr. Sagar Patil, Coordinator.
- Sansera Engineering, Manesar - Mr. Sanjeev Sharma, cluster-CEO
- PHA India, Sriperumbudur - Mr. Arumugam, Cluster CEO
- Sundaram Clayton Limited, Oragadam - Mr. Manikandan, Cluster Coordinator
- Sundaram Auto Components Ltd, Oragadam - Mr. Chander, cluster CEO and Mr. Balaraghavan, Cluster coordinator
- Sanjeev Auto, Aurangabad - Mr. Gawali, Cluster Coordinator

Plant visit feedback given by Mr. Dinesh Vedpathak, Mentor.

He shared some Good points like Stainless steel displays, Interlinked PM, Hydraulic lifter, Visual displays, Digital display of accident free days, 5-senses, CCV display, Tiles, Good training hall, ZED logo display, Efforts on Garden green outskirts, Emphasis on safety, Tree plantation, Oil free shop floor, fairly good machine condition, PM jacket, HT shop – smoke free, not hot.

Concluding remarks given by Mr. Dinesh Vedpathak

- Temporary manpower is the future – so you require barcode like facilities on your tools/fixtures.
- Convert go no-go gauging to variable inspection
- Achieve WIP ITR more than 100 – then inventory will reduce so much that 'star diagram' will become redundant



- Add slides on Safety, Incoming rejection, Customer complaints – company level and model line level
- Form supplier clusters or such other improvement programs for your suppliers
- Follow FPP method to capture before-after photographs
- Bring one hard copy each of DRVME sheet, PERT chart, TTC in next MRM

Mr. Sanjeev Sharma from Sansera Engineering, Manesar delivered the vote of thanks. He thanked all delegates for attending the MRM.

Launch Program of Total Transformation Journey Launch Program
 22th February 2017 at Wheels India Ltd., Padi, Chennai

Mr. Srivats Ram, MD-Wheels India Ltd. informed all senior team about achieving total transformation journey in one year across plant at Padi and Sriperimbatur plant through ACT.



Mr. C Narasimhan – Chief Mentor of ACT shared that if we want to achieve something, we have to visualize first & about Hospital Clean Inside & Garden Green Outside. He explained below topics:

- Hygiene Factory
- Happy to Work Employees
- Happy Customers
- Leading Manufacturing Technology

Mr. Dinesh Vedpathak – Head Cluster Program ACT shared about Well Maintained Must Be facilities of manufacturing Plant.



Mr. Sunil Mutha, Principal Counselor ACT shared various improvements done under ACT 3rd Engineering Excellence cluster program in Wheels India Ltd. Padi Plant.



Mr. Bhoopalan, Expert ACT Cluster Program gave thrust on giving timely and complete communication to all employees for objectives of this program. This project will have mentored by Mr. V.K Sharma, Dy. Head Cluster Program.



Mr. Narasimhan, Vice President, Wheels India Ltd thanked CN, ACT team and entire team of Wheels India Ltd. plant and assure that entire plant will undergo total transformation to move towards Hospital Clean & Garden Green. He added - WE CAN -WE WILL

ACMA AWARDS: 2016 - 2017

The ACMA Awards are today among the most coveted recognitions of the Auto Component Industry. The awards process has been continuously refined and honed to truly reflect aspects of current world-class manufacturing practices.

ACMA Awards have a long history of about 50 years. Excellence in Exports was the first Award instituted in 1966. Thereafter Technology Award, Quality Awards & Productivity Awards were instituted. In the year 2002, Quality Awards and Productivity Awards were merged and one single award was instituted, viz. Excellence in Quality & Productivity Award. Manufacturing Excellence Award was instituted in the year 2003. Mfg. Excellence Award is based on the Shingo Award Model instituted by Utah University, USA.

As a step towards "Greening" 'ACMA Awards Online Management System' was introduced from 2014. Thereafter, Manufacturing Excellence MSME Category and HR Excellence awards got instituted in 2015, followed by Supplier Development Award in 2016. **This year, we are introducing Best ACMA Company of the Year, Excellence in HSE (Health, Safety & Environment), Small Category Awards and Technology awards redesigned separately for Product & Process Innovation.**

To give more space for ACMA award winners, the Awards function would be attached to Summit of ACMA Centre for Technology (ACT) which would be held in Dec 2017 at Pune.

Members are requested to download appropriate templates from hyperlinks provided into award category table A and start collecting required data. 'ACMA Awards Online Management System' will be accessible from 21st May 2017 for filling and submitting applications online.

We are pleased to invite applications for the year 2016-17 under following categories:

- (a) Excellence in Export
- (b) Excellence in Technology- Product Innovation
- (c) Excellence in Technology- Process Innovation
- (d) Excellence in Quality and Productivity
- (e) Recognition in Manufacturing Excellence
- (f) Excellence in HR (Human Resource)
- (g) Excellence in Supplier Development
- (h) Best ACMA Company of the Year
- (i) Excellence in HSE (Health, Safety & Environment)
- (j) Small Category Awards

A) Details of ACMA Awards categories-

Award application document & data, key customer

feedback, key supplier feedback and manufacturing facility upkeep are important factors while deciding the winners.

Excellence in Export

The ACMA Export Award gives recognition to outstanding achievements of member units in the field of exports. It aims at promoting export of value-added products. Criteria like net foreign exchange earned, consistency in export, penetration into new markets etc., are also given due weightage for analyzing a company's export performance. Thus the aim of the Export Award is to recognize the component manufacturer's actual export performance along with manufacturing capabilities.

Excellence in Technology - Product Innovation

ACMA Award for Excellence in Technology recognizes independent innovations in Product by member companies within their own fields of activity, which have, as a result, benefited their customers / Company themselves. The technology Award is given for outstanding innovations in product by member companies through their own efforts, which would benefit the Indian Automotive Industry as a whole.

Excellence in Technology -Process Innovation

ACMA Award for Excellence in Technology recognizes independent innovations in Process by member companies within their own fields of activity, which have, as a result, benefited their Customers / Company themselves. The technology Award is given for outstanding innovations in process by member companies through their efforts, which would benefit the Indian Automotive Industry as a whole.

Excellence in Quality and Productivity

ACMA introduced this Award to recognize outstanding achievements by member companies in the area of Quality and Productivity. The award criteria focus on the foundation elements needed to build a Quality and Productivity culture in an organization.

Recognition for Manufacturing Excellence

This recognizes organizations that use Best Manufacturing Strategies and Practices to achieve high performance. It is based on the Shingo Prize Model that is currently administered by Utah University, USA.

The "Recognition for Manufacturing Excellence" includes key elements of manufacturing starting with organisation vision, leadership, strategy, support functions and employee involvement to achieve higher level of customer satisfaction and business performance.

Excellence in HR (Human Resource)

Excellence in HR award introduced with the following key objectives:

- Enhancing the Capability and HR Practices resulting in Performance Excellence and Customer Satisfaction
- Provide platform to Showcase the best HR Practices and get recognition

This award will recognize organizations that design and implement the best HR Practices resulting in superior business performance and developing an engaged employee workforce.

Excellence in Supplier Development

In a value chain, a weak link decides the strength of entire chain. To assure Zero Defect quality at end customer it is necessary to operate from start to end. ACMA initiated a new category for Supplier Development to improve this link.

- Build Zero Defect culture at supplier end
- Build good customer supplier relationship for your supplier
- Upgrade supplier capability
- Partnering with supplier

Best ACMA Company of the Year

The Best ACMA Company Award is given for outstanding

performance by member companies through their efforts, which would benefit the Indian Automotive Industry as a whole. The award recognizes effort by member companies within their own fields of activity, which have, as a result, benefited their Customers, Employees, Society, Suppliers and Environment.

Excellence in HSE (Health, Safety & Environment)

ACMA Award for Excellence in Health, Safety & Environment recognizes efforts by member companies within their own fields of activity, which have resulted in creating a safe environment within their companies. The HSE Award is given for outstanding improvements by member companies through their efforts, which would benefit the Indian Automotive Industry as a whole.

Small Category Awards

ACMA has introduced this Award to recognize outstanding achievements by Small companies. The award is for efforts made by member companies within their own fields of activity, achieving higher level of performance in various areas as per award categories.

B) Eligibility criteria for Awards-

Company needs to apply for a particular plant under any Award category, subject to fulfilling company group sales turnover criteria as per "Table A".

TABLE A - ACMA Awards Category & Criteria					
Sr No	ACMA Award Category	ACMA Award - Sub category			
		*Small Category	Medium Category	Large Category	Very Large Category
	Company Group Sales Turnover : Apr 2016 to Mar 2017	Upto INR 30 Cr	> INR 30 to 100 Cr	> INR 100 to 500 Cr	> INR 500 Cr
	Application Total Marks	100	1000	1000	1000
1	Excellence in Exports	Not Applicable	Applicable	Applicable	Applicable
2	Excellence in Technology- Product Innovation		Not Applicable	Applicable	Applicable
3	Excellence in Technology- Process Innovation		Not Applicable	Applicable	Applicable
4	Excellence in Quality & Productivity		Applicable	Applicable	Applicable
5	Recognition for Manufacturing Excellence		Applicable	Applicable	Applicable
6	Excellence in HR (Human Resource)		Applicable	Applicable	Applicable

7	Excellence in Supplier Development		Not Applicable	Applicable	Applicable
8	Best ACMA Company of the Year #		Applicable	Applicable	Applicable
9	Excellence in HSE (Health, Safety & Environment)	Applicable	Applicable	Applicable	Applicable
10	Excellence in Business Growth	Applicable	Not Applicable		
11	Excellence in Digitization	Applicable			
12	Excellence in Resource Optimization	Applicable			
13	Excellence in Make In India Drive	Applicable			

1. The applicant company should be a member of ACMA as on 21st Jun 2017. The company group sales turnover of registered ACMA Member company, including all its registered plants will be considered for deciding if the applicant falls under Small, Medium, Large or Very-Large Category.
 2. ACMA-UNIDO Cluster Members (ongoing cluster or completed cluster since Jan 2014 onwards) are eligible to apply for ACMA Awards without becoming ACMA Member- this is applicable only for company group sales turnover Upto INR 30 cr.
 3. If a plant has won Gold trophy in the year 2015 or 2016 in any of the above categories, then that particular plant will not be eligible to apply in the same category. But they can apply for any other category.
 4. #Best ACMA company of the year -Applicable for ACMA Award Winners from 2014, 2015 & 2016 all categories, subject to fulfilling turnover criteria for the year 2016-17. (Ref Table A).
- C) The Award/ Benefits to Award Applicants**
- a) Applicable to all Award categories- One complimentary delegate for each submitted application for 3rd Summit of ACT in Dec 2017 at Pune for 2 days.
 - b) *Small Category – If same company / plant applies for more than 3 categories then 50% discount will be offered on site diagnosis fee for shortlisted applications.
 - c) Winners will be awarded with a trophy during the ACT Summit where we expect over 1000 delegates from the vehicle industry, component industry, engineering industry, machine tools industry, academia and government along with other stakeholders.
 - d) Gold winner’s synopsis from all categories will be published into IMPACT magazine (Circulation to 760+ ACMA members, OEMs in India)
 - e) Recognition by OEM- Jury Panel Members & Summit participants.
 - f) ACMA Awards helps to uplift a Company Brand Image
 - g) Step towards winning business- Award helps to generate new avenues for growth in business & possibility of alliances with new customers
 - h) Inspires and aligns the entire work force to rapidly accelerate the speed of Improvements.
 - i) Winners company name will be displayed on ACMA/ ACT website
 - j) Self-evaluation by filling up of application & leading to bridge the gap to achieve global levels of manufacturing excellence practices
 - k) Gap analysis by Industry Experts during site diagnosis and you will get complimentary feedback reports from us.

D) Schedule for ACMA Awards-

Award Activity	Timelines
Release of Circular	Mar / Apr 2017
Complimentary 1 day plant visit to ACMA member companies (Group turnover less than 200 cr.)	Apr & May 2017
ACMA Awards Application Awareness Meetings (Optional)	Apr 2017 - Refer Table B
Deadline for receipt of online applications	21 st Jun 2017
Scrutiny of Applications & 1st Shortlisting of applications for Site diagnosis	Jul 2017
Site diagnosis of the shortlisted companies	Jul to Sep 2017
2nd Shortlisting of applications and submission of report to the Jury	Sep / Oct 2017
Jury Meeting for selection of Awardees	Dec 2017
ACMA Awards distribution in ACT 3 rd Summit, "Digitizing Auto Component Manufacturing in India", Pune	8 th & 9 th Dec 2017

For any administrative and technical queries, contact details:

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ACMA Award Awareness Session at Various locations in India Pune, Chennai, Delhi, Gujrat & Jamshedpur

Mr. VK Sharma (Dy. Head Cluster Program, ACT), Ms. Sapana Baravkar (Senior Counselor, ACT), Mr. KPS Raghuvanshi (Expert, ACMA-UNIDO) & Ms. Nilu Singh (Counselor, ACMA- UNIDO) shared that the ACMA Awards are today among the most coveted recognitions of the Auto Component Industry. ACMA Awards have a long history of about 50 years.

ACMA Awards Awareness Program (Applicant Companies)					
Location	Chennai	Pune	Jamshedpur	Delhi	Gujrat
Program Date	20-Apr-17	17-Apr-17	29-Apr-17	25-Apr-17	22-Apr-17



ACMA Award Awareness Session at Pune by Ms. Sapana Baravkar



ACMA Award Awareness Session at Chennai & Delhi by Mr. V K Sharma



ACMA Award Awareness Session at Gujrat by Mr. KPS Raghuvanshi



ACMA Award Awareness Session at Jamshedpur by Mr. KPS Raghuvanshi & Ms. Nilu Singh

These awareness programs were an overview of ACMA Awards process & it helped applicant companies to understand application contents.

ACT 4th Case Study Competition

3rd & 4th October 2017 at Hotel Westin, Pune



To achieve excellence in manufacturing, we need competent people and robust systems / processes. In keeping with industry needs, ACMA Centre for Technology (ACT) has been implementing quality projects in auto component / automobile industry. Since inception, ACT helped more than 650 manufacturing plants all over India through its signature – ACT Cluster Programs. ACT is also involved in designing and implementing ACT Summit, ACMA Awards, Domestic & International Study Tours, Seminars and Conferences.

ACT organized “1st ACT Case Study Competitions” at Pune in 2015 which was a grand success. Encourage by the success the 2nd ACT Case Study Competition at Pune & Delhi in October, 2015 & 3rd ACT Case Study Competition in November, 2016 were organized. We are pleased to announce the ACT 4th Case Study Competition in October, 2017 at Pune.

The groups & streams for the competition are as follows (For details of topics, please refer enclosed ‘Guidelines for Case Study Competition’):

Group Category A (Company Group Turnover < INR 250 Cr)

Stream A1 to A7- Best Improvement in PQCDMSME

Group Category B (Company Group Turnover > INR 250 Cr)

Stream B1- Digitization

Stream B2- Hospital Clean & Garden Green

Stream B3- Material Handling Innovations

Stream B4- Zero Defect Quality

Stream B5- Resource Optimization

Stream B6- Frugal Engineering

Stream B7- Tool Engineering

Group Category C (Open to all companies of Group Category A + B - for any of above-mentioned streams / topics)

Stream C1- Documentary film (Time duration Max. 7 Minutes)

Stream C2- Poster / Collage / Prototype Model Presentation

Streams of ACT 4th Case Study Competition

Streams		Streams of ACT 4th Case Study Competition for Group Category A 2017			
		(Company Group Turnover < INR 250 Cr.)			
		Stream A : Best Improvement in PQCDMSME			
Topics	Productivity improvement	Reduction/ Elimination of Defects	Waste elimination / reduction	Reduction in Effect (Zero Discharge	
	Manpower optimization	Reduction / Elimination in Rework	WIP reduction	Energy Savings	
	Reduction in cycle time	Reduction / Elimination in Customer Complaints	Reduction in machine breakdown	Water Saving	
	Improvements in layouts for material travel reduction	Reduction in Customer returns	Increase in Inventory Turn Ratio	Conservation of Resources	
	Multi-machine concept	Reduction / Elimination inhouse Rejection	Increase in Accident Free days	Use of renewable Energy	
	Changeover time reduction	Reduction / Elimination inhouse Scrap	Reduction / Elimination of Accidents	Carbon Foot Print reduction	
	OEE Improvement	Reduction in Incoming Quality Rejection	Cost saving through LCA	Paper elimination	
	Automation	Reduction in Handling Damages	Yield improvement	Wood elimination	
	CPk Improvement	Reduction in Mis-Shipments	Recycle / Reuse	Use of environment friendly materials	
	COPQ Improvement	Cost Reduction	Oil saving	Tool life improvements	

Streams of ACT 4th Case Study Competition for Group Category C - 2017	
(Open to all companies of Group Category A + B for mentioned streams / topics)	
Stream C1 : Documentary film (Time duration Max. 7 Minutes)	
Stream C2 : Poster / Collage / Prototype Model Presentation	

Streams of ACT 4th Case Study Competition for Group Category B - 2017 (Company Group Turnover > INR 250 Cr.)							
Streams	Stream B1 : Digitization (Business IT / Mfg IT)	Stream B2 : Hospital Clean & Garden Green	Stream B3 : Material Handling Innovations	Stream B4 : Zero Defect Quality	Stream B5 : Resource Optimization	Stream B6 : Frugal Engineering	Stream B7 : Tool Engineering
Topics	RFID / Passive RFID	Visual Management	Auto Material Handling	Zero Defect	Conservation of Resources	Design Thinking	Tool Life Improvement
	Artificial Intelligence	Visual Factory	AGV-Automated guided vehicle	Zero Rework	Use of renewable Energy	Social / BOP innovations	Intellegant Toolings
	Barcodes- usage for FIFO	Green Factory	RGV -Robotic guided vehicle	Zero Customer complaints	Paper elimination	Designing within functions	Zero Setup Fixture
	Wi-fi- enabled m/cs	Wet to Dry Factory	Innovations in containers	Zero Customer Returns	Wood elimination	Mate functions	Online Tool Life monitoring
	Mobile Computing	Fume and Dust free factory	Pick to Light systems	Zero Rejection / Scrap	Recycle / Reuse	Cost reduction through Frugal specifications	Innovations in Tools
	DNS	Container free factory	Innovations in storage	Zero Warranty Rejection	Waste Management	Cost reduction through Frugal design	Zero Defect Quality through Tool
	GPS Tracking	4C Management- Clean containers, Clean Parts, Clear Parts, Covered parts	dent and damage free material handling	Zero Incoming Quality Rejection	Water Saving	Liaison Matrix	Digital Tools
	Sensors - Security / Condition / Grid			Zero Process Quality Rejection	Oil saving	Functions analysis	Tool Tidy Management
	Telematics	Hospital Clean Inside : Clean floor, Well Ventilated (Sunlight), Jogging Track in shop floor, Shop Floor Index, Pleasant, Visible, Offices.		Zero Handling Damages		Reduction in internal functions	
	Near Field Communication (NFC)			RFT (Right At First Time)		Reduction in cost of functions	
	CDMA / GPRS / 4			Reduction in Errors			
	Mechatronics	Garden Green Outside : Dust free, Wet to Dry, Trees, Lawns, Buildings, Road Ways, Pathways, within Campus –Curbs, Mud Free, Pleasant &					
	Networking of Machines						
	Intervention free modules						
	Mesh Networks						

These competitions provide a platform to the participants for direct learning as live case study presentations are shared by various competing companies nationwide.

It also provide the much needed exposure to the employees and also motivate them to deliver their best to their organizations.

The objective of this competition is to help companies witness actual Case Studies from various companies, take clues and reduce their own Non-value added activities, besides abundant cross learning opportunities.

We hope you would like to avail the opportunity to participate in this competition. As a part of digitization drive, we would like to invite synopsis of case studies thru online software, it will be accessible from 21st June 2017 for filling and submitting case studies online. Enclosed 'Entry Form for Case Study' for collecting data. Last date to submit Case Studies online is 10th August, 2017, there is no entry fee for case studies and companies can submit multiple case studies as per turnover criteria.

Various sponsorship options have been worked out for the companies interested to promote their brand in auto component industry through such events. The details of

these sponsorship options are mentioned in the enclosed 'Brand Promotional Opportunity' Form.

Shortlisted Case Studies will be eligible for ACT 4th Case Study Competition scheduled on 3rd & 4th October 2017 in Hotel Westin at Pune where case studies will be presented in front of jury panel.

In addition to participating in Case Study Competition, you may like to nominate your employees to participate as delegates. We have kept very nominal fee for delegate participation (the details can be referred from enclosed 'Registration Form').

Should you have any query please do not hesitate to contact:

For technical information: Ms. Ekta Agrawal, Counselor ACT, Mobile: 9657657258, Email: ekta.agrawal@acma.in

For administrative information: Ms. Sakshi Karkamkar, Email- sakshi.karkamkar@acma.in, Mobile- 7387002181, Desk phone- 020-66061219 (Ext 29) or

Mr. Binny Tomy, Email- binny.tomy@acma.in, Mobile- 9711138869, Desk phone- 011-26160315.

ACMA – CARDIFF Executive Education Program OPERATION EXCELLENCE STUDY TOUR & TRAINING PROGRAM

Cardiff, UK from 12th to 16th June 2017

ACMA in coordination with Cardiff University, UK organized an Executive Education Program focusing on Operation Excellence. The program was attended by Sr. Leadership team from ACMA Centre for Technology, Mr. Dinesh Vedpathak, Head Cluster Program, lead the entire delegation along with Mr. V. K. Sharma, Dy. Head Cluster Program, Mr. K. Chandrasekhar, National Program

Coordinator, ACMA-UNIDO Partnership Program and Ms. Sapana Baravkar, Sr. Counsellor. Ten participants from ACMA member companies like Fairfield Atlas Limited, IP Rings Ltd., JK Fenner (India) Ltd., Pranav Vikas (India) Pvt. Ltd., Tej Industries and Wheels India Ltd. took part in the study Tour.

Interaction with Prof. Martin Kitchener, Dean and Head of Cardiff Business School



Interaction with Prof. Mohamed M Naim, Deputy Dean, Chair in Logistics & Operations Management



A brief on Cardiff University:

Cardiff Business School is one of the leading business and management schools in the UK. In addition, the Business School is AACSB accredited putting it in the top 5% of the World's Business Schools (out of approx. 25000 schools).

Cardiff Business School is ranked among the world's top 100 universities. It offers a variety of programs mainly in the areas of Executive Education like Lean Six Sigma, Design thinking for Service, Systems Thinking, Innovations within Sales and Marketing, Service Improvement Interconnections and IT, M.Sc. In various areas, MBA programs for UK and international students. Over 30,000 students are undergoing various courses with 4000 faculties in various fields.

Trainings were given on the following topics:

Lean and Innovation

How the TPS continues to innovate.

Lean and Six Sigma

Learning from Kingsman Equation

Setting the Cadence of your Pacemaker Process

- Identification of mura and muri.
- Match your replenishment strategy to the economics of your value stream.
- Select and optimize appropriate forecasting methods to use inside your replenishment algorithms.
- Set the cadence of your pacemaker so as to avoid the Bullwhip Effect, minimize inventories and meet

service level agreements.

- Present the desired production plan to the shop floor and how to measure and manage the realization of the production plan.
- Place stable call-off orders and order forecasts onto suppliers so as to avoid creating mura and muri in your supply base.

Blending a Lean Service approach with a lean manufacturing approach. Embracing our Soft Sides!

- How can manufacturing learn from developments in the service sector?
- John Seddon's Systems Thinking. The importance of changing manager's mindsets
- Applying lean and continuous improvement from a cultural perspective. Tips, tricks and pitfalls.
- How is lean evolving? Lean Start Up movement. Minimum viable products, Highly aligned and loosely coupled organisational structures which learn from Netflix, Google and Valve models.

Visit to Sony Manufacturing Centre of Excellence, Pencoed

At Sony UK Technology Centre have developed an enviable reputation for building the world's best technology products. Few plant visit observations-

- State-of-the-art manufacturing technology
- wide range of commercial successes from medical to LED
- Green Surroundings
- Factory Visuals
- Compact layout
- Robust "Monitoring & Review System"



Lean Digitisation

Conceptual Design, Robust Design and DFMA, Sustainable Design (DfE), Product Family Design.



IMPACT
ACMA Centre for Technology

Visit to MINI Oxford

Plant Oxford is the birthplace and heart of MINI production. Manufactured to individual customer specifications, hundreds of MINIs leave the plant's assembly lines each day, off to meet new owners in more than 110 countries around the world.



Since production of new MINI started in 2001, more than 2.5 million cars have been made at Plant Oxford. But the plant's heritage goes back much further than that - it is a site with 100 years of automotive manufacturing history, which has become a landmark in the "city of dreaming spires".

Few plant visit observations-

- Material handling & Material Logistics- AGVs
- Industry 4.0- simulation center
- Automatic tip changing – welding robots
- Aluminum foil under machine – avoid oil leakage to earth
- Wire trenches on ground
- Bottleneck board
- My ideas for excellence board
- AGVs self-charging points
- Super market
- Layered audits
- Robotics & Automation

The feedback received from the participants is tremendous and it has given ACMA a boost to organize and conduct many more programs in coming future.

Proposed upcoming programs at UK

1. Data Analytics- January, 2018
2. Innovations in Logistics- March 2018

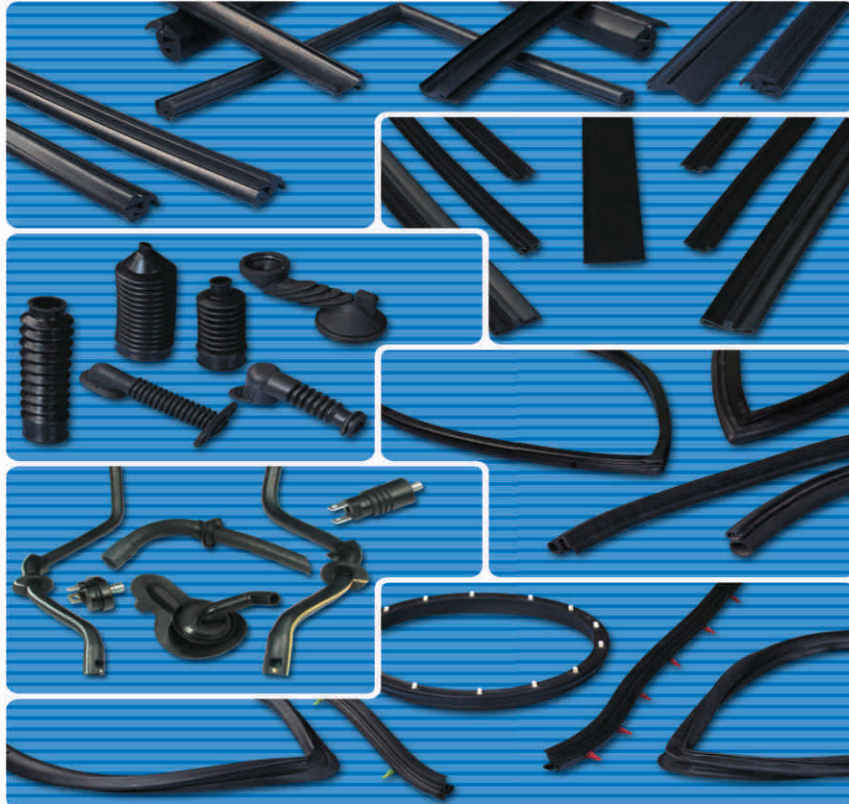
Certification Ceremony





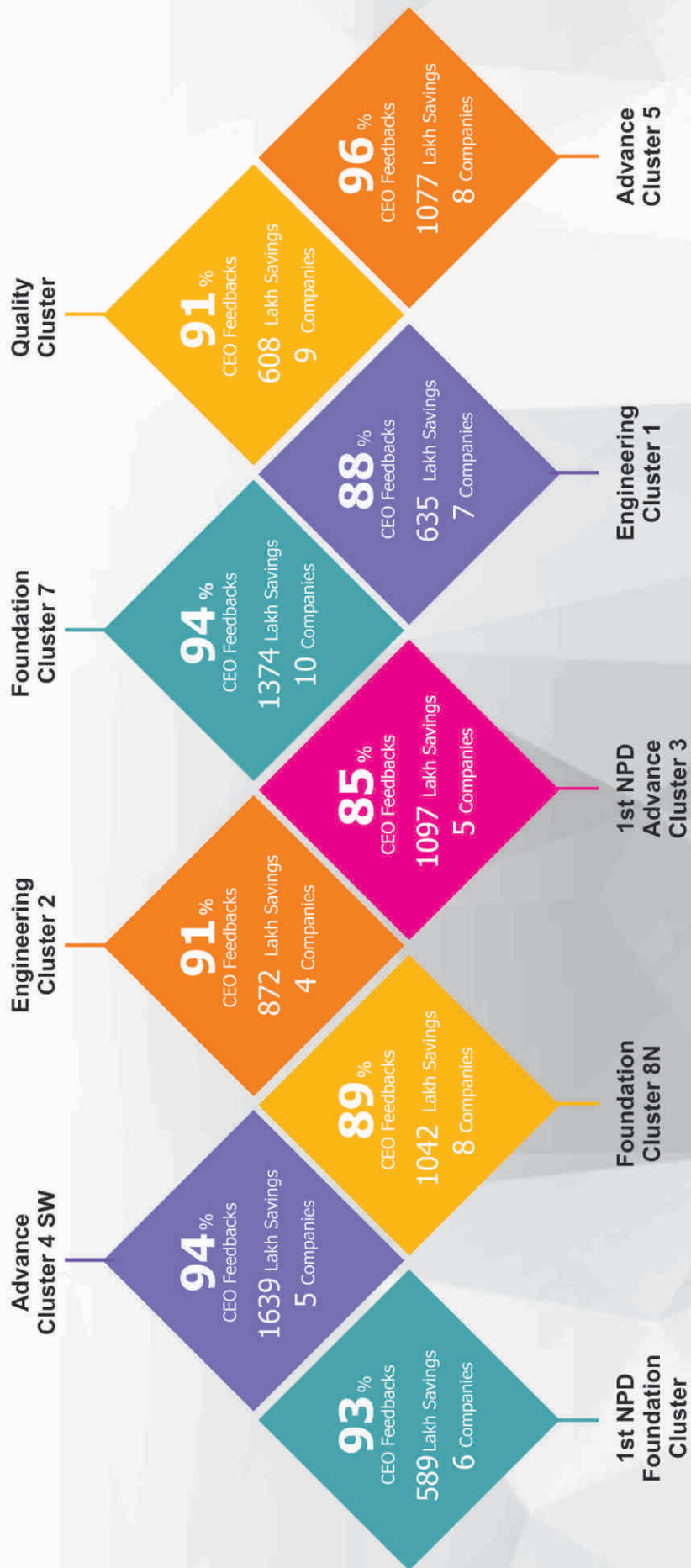
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in Rubber Polymers for
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24/4 Milestone, Delhi-Mathura Highway, Sector-59, Faridabad-121004, Haryana, India.
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July-October 2017	Preparatory 7 days Certification Course on ZED Cluster Pune, India
18th-29th September 2017	ACMA – HIDA Production Management Training Course : Productivity Improvement, Energy Conservation & Carbon Reduction Technology Promotion (CRTP) Program Osaka, Japan
3rd-4th October 2017	ACT 4th Case Study Competition Pune, India
7th December 2017	Culmination of ACT Foundation 9 , ACT Advance 6, 7 & 8, ACT Engineering Excellence 3, ACT Zero Defect & Zero Effect (ZED) 1 Pune, India
7th December 2017	Cluster Launches: ACT Foundation 12 & 13, ACT Advance 11 & 12 , ACT Engineering Excellence 4 & 5 , ACT Zero Defect & Zero Effect (ZED) 3 ,ACT Digitization 1 & ACT Safety 1 (proposed) Pune, India
8th December 2017	ACMA Awards Ceremony Pune, India
8th-9th December 2017	3rd Summit of ACMA Centre for Technology Theme “Digitizing Auto Component Manufacturing In India “ Make in India initiative Pune, India

IMPACT Advertisement Tariff						
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	Member	Non Member	Member	Non Member	Member	Non Member
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Cover Leaf Back - 2 Page Advt.	30000	39000	81000	105000	135000	175000
Footer Advt. - Company Logo & Slogan- (excluding Advt. pages)	30000	39000	81000	105000	135000	175000
Back Cover Outside	20000	26000	54000	70000	90000	117000
Centre Spread (2 Page Advt.)	25000	32000	67000	88000	112000	146000
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3. In case of a mismatch between size of material provided and space booked, the advertiser will be charged the cost of space booked OR actual advertisement printed, whichever is higher.						
4. All payments, through DD, Cheque or Net banking, should reach ACT within 30 days from the date of invoice.						



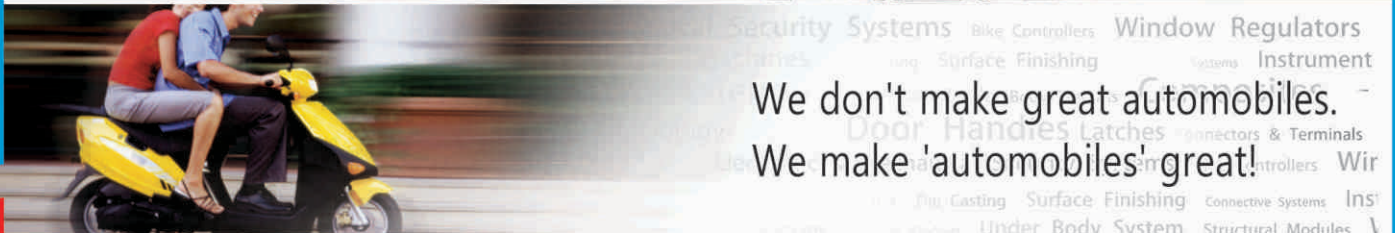
We make them safer



We make them faster



We make them better



We don't make great automobiles.
We make 'automobiles' great!

PRODUCTS

• Safety, Security & Restraint System

Electronic & Mechanical Security Systems, E- Bike Controllers, Immobilizers, Latches, Striker, Door Handles, Electronic Body Controllers, Start Systems, Power Closure Systems, Fuel Lid Actuator, RCDDL, ESCL, PEPS, Hood, Tail Gate, Seat Latch, Hinges, LED Soft Touch, Camera Modules, Keys & Key Duplicating Machines & Die Casting

• Driver Information & Telematics System

Instrument Cluster, Dashboard Assemblies, Digital Clocks, Tank Units & Gauges, Chime Bells & Relays, Speed Sensors, Temperature Sensors, Position Sensors, Pressure Sensors, WIF Sensors, Wiring Harness, Coupler & Terminals, Relay & Junction Box, Steering Roll Connector

• Interior System

Injection Molding, 2K Molding Process: Kinematic Component & Premium Surfaces, Garnish & Trims, Dashboard, Consoles, Parcel Shelf, Air Vent, Air Duct, Ash Tray, Arm Rests, Cup Holder, Glove Box, 5th Door Application, Truck Oil Housing, Cylinder Head Covers, Rear Sheet Structure, Coupling, Transmission, Coolant Tanks, Interior Steering, Tool Production

• Aftermarket

All Group Products under Safety, Security & Restraint Systems, Driver Information & Telematics Systems, Interior Systems
Four Wheelers: Gear Shift Locks, Wiper Blades, Auto Rollup Relays, Filters (Tractors), Starter Motors & Alternators (Tractors)
Two Wheelers: Wheel Locks, Helmet Locks, Control Cables, CDI, Regulators, Rectifiers, Ignition Coil, Igniters, Relays, Filters

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