

ACMA

AUTOMOTIVE COMPONENT
MANUFACTURERS ASSOCIATION OF INDIA



MAKE IN INDIA

HOW THE AUTO COMPONENTS
INDUSTRY CAN MAKE IT HAPPEN

annual report
14-15





MAKE IN INDIA

HOW THE AUTO COMPONENTS
INDUSTRY CAN MAKE IT HAPPEN

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ANNUAL REPORT 2014-15

ACMA

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PRESIDENT'S MESSAGE



Dear Friends,

Before I commence sharing the key developments at ACMA during 2014-15, I would like to extend my sincere gratitude to the ACMA membership for giving me the opportunity to lead the organisation and contribute to larger cause of development of the Indian auto-component industry as it charts a path of revival and growth through these challenging times.

Indeed, the last few years have been very tough for the auto-component industry in India. The continued

slump in the vehicle industry not only curbed revenue growth for the component sector, but also put severe pressure on the cash flows and industry's ability to service debt. While we have all attended to improving internal efficiencies, it has been a phase, more than ever before, when it has become imperative for the industry to come together and take on the challenges as a collective force. ACMA has certainly been an industry platform, which continues to play a pivotal role in giving direction to the auto component sector.

Although the going has been tough, it must be noted that we have fared much better than several others in the manufacturing industry. This was possible because of our early realisation of the potential India had in terms of manufacturing components for the global market. Not only our focus on exports has provided a much larger market to cater to but has also resulted in many of us transforming our processes, technology and business practices to meet global standards. Also, many of our OEM customers in the domestic market are global companies and as an industry, to a large extent, we have already integrated ourselves as key partners in international supply chains.

As a much wanted and welcome step during 2014, the Prime Minister of India, invigorated the domestic industry by launching the 'Make in India' campaign – a drive that encompasses a gamut of initiatives to promote investments and growth in Indian manufacturing. This has certainly brought in much needed focus and impetus for reforms related to the manufacturing sector. This has also helped revive investor interest, domestic as well as international, in the sector; we now need to tackle the on-ground implementation issues.

We, in the auto-component sector are already, in many ways, propelling this vision of 'Make in India'. Indeed, at this time, such a country-wide campaign is not just encouraging but also gives us a renewed bout of energy to embark on another round of high growth. The focus is on leveraging the country's manufacturing prowess driven by a vast pool of engineering skill and knowledge supported by the power of innovation and entrepreneurship.

The Indian Auto-Component Industry

While the growth in the automobile sector globally is gradually returning, there were also some early signs of recovery in India. According to SIAM the total production of automobiles, including passenger vehicles, commercial vehicles, two wheelers and three wheelers, increased by 8.6% from 21.5 million units in 2013-14 to 23.3 million units in 2014-15. Unfortunately, tractor production showed a downhill trend registering de-growth of 12% to 0.6 million units

in FY2015, owing to erratic monsoons - that tapered the sales in rural areas.

In hindsight, the performance of Indian auto-component sector has been particularly encouraging. After witnessing a 2% reduction in total turnover during 2013-14, even under difficult conditions, the industry bounced back impressively and recorded an 11% growth in total turnover during 2014-15.

In fact, it is also interesting to note that while India's total exports stagnated, the Indian auto component industry exports grew by 11.4% during 2014-15. Consistent growth in auto component exports is a clear indication of the growing credibility of 'India made' components in the global auto supply chain.

ACMA has played a critical role in supporting its members in discovering and harnessing new market opportunities worldwide and engaging with the Government to create a favourable business environment to action it. It must be noted that supportive government policies including the foreign trade policy need to be given due credit for the commendable exports performance.

Broadly, as an organisation, our efforts were focused around the four the domains of public policy advocacy, brand building and business development, enhancing internal efficiencies and knowledge initiatives.

Public Policy Advocacy

We continue to engage with the Government at the Centre and across the States to evolve policies and regulations that can help the auto-component industry overcome challenges and operate unhindered. Stability in fiscal policy, continuation of incentive in the foreign trade policy and government's efforts in enhancing ease of doing business are leading to the creation of a conducive environment in India for manufacturing and exports.

For growth of industry, especially manufacturing some welcome policy initiatives include the announcement of Implementation of GST from April 01, 2016; reduction in corporate tax to 25% over 4 years; MSME investment allowance at the rate of 15% for investment greater than Rs.25 crore in any year for setting up new plant and machinery; 20% additional depreciation on new plant and machinery, which will encourage investments; encouraging R&D by reducing 15% of rate of income tax on royalty and fees for technical services; and enhancement of time limit for taking CENVAT credit on inputs and services from six months to one year.

For exports, there has been simplification with export

incentives being consolidated into two schemes – MEIS and SEIS; provision of incentives for 172 tariff lines under the new Foreign Trade Policy; reduction of Export obligation (under EPCG) by 15% in case of capital goods sourced locally; permitting Basic Customs Duty to be paid in cash or through debit under Duty Credit Scrips to be taken back as Duty Drawback; preferential treatment to status holder exporters under Trade Agreements; and reduction in mandatory documents for export to 3 from 7 and for import to 3 from 10.

At the state level, too, there were some significant achievements. Several inputs provided by ACMA were adopted in the new industrial policy announced by the state of Karnataka in October 2014. Similarly, there were several positives in the Tamil Nadu's new automobile and auto-component policy 2014 including setting up of 1,000 hectares of Auto City, for both domestic and global automotive or component design, prototyping and manufacturing, creation of Automotive Industrial Development Centre (AIDC), Automotive Suppliers Park (ASP) for better logistics, and provision for additional power capacity for the auto-component industry. That apart, ACMA is also working closely with the State Governments of Gujarat, Haryana, Jharkhand, Rajasthan and Uttar Pradesh, facilitating development of policy-framework that encourages the automotive sector.

The industry also needs to prepare itself as the Government legislates the new Road Transport and Safety Bill, making regulations more stringent for safety and emissions. The auto component industry must keep itself abreast of the new provisions especially those pertaining to product liability and upgrade their product quality in-tune with the proposed stern norms.

Branding & Business Development

While at one end our focus has been to build competencies and facilitate creation of environment to best integrate with global supply chains, on the other, we are making concerted efforts to reach out, explore new markets and position India as a global hub for manufacturing of auto-components. In this endeavour, there are also specific platforms created for individual members to promote and propagate their product.

ACMA regularly facilitates the participation of our members in several international trade shows and exhibitions, organises buyer seller meets, takes several member delegations to potential countries to establish strong networks with global counterparts and undertakes events to enhance members' understanding of newer market opportunities. In this regard, ACMA's recognition as an Export Promotion Council by the Government of India has indeed been

a welcome step; grant extended by the Government has enabled us to facilitate several business development activities for our members in overseas markets.

ACMA participated at the 65th International Motor Show (IAA Commercial Show) held at Hannover Trade Show Grounds, Hannover, Germany, which witnessed more than 2,000 exhibitors from 45 countries, out of which 1200 were suppliers, showcasing their innovations and technological highlights.

We organised a first ever Reverse Buyers – Sellers meet with African countries in Gurgaon. The meet witnessed presence of key buyers from seven African countries including Kenya, Nigeria, Tanzania, Uganda, South Africa, Egypt and Botswana. At the meet, over 70 Indian component makers' showcased 'Made in India' aftermarket products.

The 2nd edition of ACMA Automechanika, New Delhi was organised in the beginning of 2015. The Exhibition saw events catering to all segments of Automotive Industry including the MSME Summit, seminar on 'Transformation to be World Class' and the Asli Naqli Campaign. The show, apart from individual international participants, had country pavilions from Germany, China, Korea, Taiwan, Italy and U.K.

Group participation was organised at Automechanika Frankfurt, where 47 member companies participated. For the first time a separate MSME enclosure was organized within ACMA pavilion. On the side-lines of this event, a MSME mission to Germany was also undertaken. ACMA also actively participated at AAPEX 2014, the leading aftermarket show of the US in Las Vegas, which featured nearly 2,400 exhibitors with 5,000 booths.

A CEOs mission to Japan comprising 25-member delegation was organised. They visited and interacted with Suzuki Motor Corporation, Nissan, Kubota, Daihatsu and Tier 1 suppliers. ACMA also organised a CEO's delegation to China, which was followed by a successful China Tech Expo. It was indeed for the first time that we mustered courage and attempted showcasing our products to Chinese OEMs for exports.

ACMA also mounted a highly successful mission to Taiwan to understand the dynamics of Auto electronics business. As the electronics content in Indian vehicles is rapidly growing, several of the Taiwanese electronics manufacturers have evinced keen interest in partnering with Indian auto component manufacturers to cater to the local demand.

That apart there were several initiatives including

participation at International Exhibitions such as Automechanika Dubai, Automechanika Shanghai and Messe Hannover etc., Buyers Sellers meets in Sri Lanka, Egypt, Myanmar and others that provided members opportunities to network and promote their businesses.

While all these international and national events kept the ACMA flag aloft, I am also happy to mention that this year, continuing with our agenda for building a strong brand for the auto components sectors, we were very significantly present in the print and the electronic media as well.

Enhancing Internal Efficiencies

Technology, quality, productivity and best business practices are key to the industry becoming globally competitive. We have always played an active role in introducing new concepts and disseminating information about latest developments amongst our members.

The 'ACMA Centre for Technology' (ACT), established in year 1989, is a technical wing of ACMA that continuously provides guidance to members to improve their manufacturing competitiveness. ACT through its cluster programmes has been playing a major role in transforming Indian companies across tiers into globally competitive entities. Till date we have helped 450 companies attain world-class competencies in manufacturing. Additionally, ACT has been providing technical support to ACMA memberships through various channels like AOTS Training in Japan, specialized trainings seminars in India, JETRO and JIPM interventions. Together with the IPOs, ACMA is also actively engaged in building export capability of its members.

The first ACT Summit was successfully organised in February 2015 with the theme – 'Make in India: Beyond Zero Defect Quality, An ACT Approach'. The summit showcased the growing capabilities and manufacturing excellence of the component sector. In line with our Prime Minister's vision of 'Zero-Defect, Zero Effect Manufacturing', we announced the launch of a cluster program reflecting this ethos at the ACT.

Further, to help upgrade the capabilities of Tier2s and 3s, we launched the ACMA-UNIDO cluster program with support of the Department of Heavy Industry, Government of India. I am glad that over a hundred small and medium auto component manufacturers are taking advantage of this program and we intend to scale up this program rapidly so that many more can benefit.

The quality consciousness across ACMA is evident from the fact that as of March, 662 ACMA members have their business systems certified for ISO9000, 554

are certified under TS16949, 19 have QS 9000, 295 have ISO 14001, 167 have OHSAS, 14 members have secured the prestigious Deming Prize, 5 have Japan Quality medals and 2 Shingo Silver Medallion.

Knowledge Initiatives

ACMA continues to engage renowned global knowledge partners to study specific aspects of automotive business and value chain. Amongst the major studies conducted in 2014-15 were 'Capturing the global opportunity – The next imperative for the Indian auto component industry' by McKinsey that showed Indian suppliers account for 1% of overall global exports of USD 1006 billion – indicating a significant upside opportunity for exports, the other study was on "Export Opportunities for Automotive Components Made in India for China". The study focused on understanding buying behavior, market characteristics, and general macroeconomic conditions and competitiveness of the Chinese auto component manufacturers – and thereby ascertain the feasibility of venturing into the Chinese market.

In collaboration with the Indian Machine Tools Manufacturing Association (IMTMA), we commissioned a study conducted by a globally recognised strategy consulting agency, titled 'Enabling Indian auto component industry competitiveness; Role of Indian machine tool industry'. The study looked at the reciprocal relationships between the Indian auto-component industry and the Indian machine tools industry in light of the more stringent quality and delivery conditions specified by the global customer base and induced by much higher foreign competition.

Along with the Society of Indian Automobile Manufacturers' SIAM, ACMA commissioned a study to understand the challenges being faced by the Ferrous casting industry in India as also remedy the ails facing the industry.

That apart, ACMA also brought out a detailed study on the opportunities in the Aerospace sector and how the Auto Component industry can graduate to effectively harness the burgeoning opportunity in this sector.

Also on the anvil is the study on Free Trade Agreements and their impact on the Auto component Sector in India as also the study on the opportunities in the Auto Electronics space and measures needed for the domestic industry and other stakeholders to capture a slice of the same, considering the base of electronics manufacturing in India is not very strong. We have also commissioned another study to help our members understand the opportunities in the aftermarket in overseas markets.

Conclusion

Clearly, the auto-component industry in India is on a path of revival. The vision of our industry to leverage global opportunities orchestrates well with the Indian government's 'Make in India' campaign. There are, however, going to be a new set of challenges in the coming years and more than ever before, the collective spirit of the industry needs to be leveraged to propel the sector to the next level of growth.

As always, ACMA will continue to be a pro-active organization in charting the sector's next round of growth. The functioning of the secretariat and the execution across different activities has been of the highest quality. The regions have contributed significantly by extending their reach to smaller hubs to improve the capability of the Tier 2s/3s by conducting dedicated local events. This deeper penetration will be essential in the future to build supply chain efficiencies across ACMA's value chain.

Acknowledgements

I sincerely acknowledge the support of the Governments at the Centre and States, who have been extremely receptive to ACMA's suggestions and inputs. I am grateful to the Ministry of Heavy Industry and Public Enterprises, our nodal ministry, for its unstinted support and guidance.

This would be the opportune time to place on record my appreciation for the support extended to us by CII, FICCI, SIAM, IMTMA and other industry bodies.

Finally, I would like to thank all our members for their unwavering support. I would, particularly, like to thank the Vice President, the Regional Committee and Zonal Chairpersons, the Past Presidents, the Chief Mentor-ACT and our Executive Committee members for their guidance and involvement. I also appreciate and applaud the efforts and support provided by the ACMA Secretariat.

I am confident that as an industry we will lead the way for India to succeed in its "Make in India" campaign.

Best Wishes

Ramesh Suri



DIRECTOR GENERAL'S MESSAGE

through active public policy advocacy. On all these fronts, 2014-15, despite all odds, has indeed been very exciting and satisfactory.

Focussing on the industry performance, revival seems to be well on its way. Whilst in 2014-15, the industry faced several macro headwinds including flagging vehicle sales, high capital costs, high interest rates and slowing down of investments, however, with the component industry's focus on exports, quality and various cost saving initiatives, it managed to weather the weak business sentiments and recorded a total turnover of USD 38.5 billion, registering a growth of 11.1 percent, while exports touched USD 11.2 billion, attaining an 11.4 percent growth with a CAGR of 29 percent over the last six years. We are confident that driven by 'Make in India', the component sector will lead the growth story of India. The auto component industry in India is expected to scale USD 223 billion in turnover with exports growing to USD 84 billion by 2026.

We, at the secretariat of ACMA, will continue to strive for the growth and development of the component industry. I would personally like to thank the President, the Vice President, all Past Presidents, all Committee Chairmen and Executive Committee members for their guidance and continued encouragement. I am grateful to all my colleagues at the Secretariat for their tireless efforts through the year without which we could not have delivered the ACMA agenda. I would also like to extend by deepest gratitude to all our members and stakeholders including the government for their unstinted support.

Regards
Vinnie Mehta

The 'Make in India' campaign by our Hon'ble Prime Minister, launched with the objective of establishing end-to-end manufacturing value chain with deep localisation in India and to kick start the virtuous cycle of domestic and international investments could not be more timely. The manufacturing sector, alone has the capability to create the kind of employment opportunities required to absorb and leverage the potential of the country's youth and achieve economic growth. In fact, the Government of India envisages to create 25 million new jobs over the next 10 years through its developmental initiatives.

Today, the automotive and auto components account for more than 40 percent of Indian manufacturing. It is therefore not surprising that the 'Make in India' campaign, which is a blueprint to develop the country's manufacturing, resonates well with ACMA's roadmap of a vibrant auto component manufacturing global hub in India.

As an association, we at ACMA continue to support the industry through initiatives that focus on leveraging global and domestic market opportunities. The gamut of activities, to realise the afore said, include brand building & business development, enhancing internal efficiencies of members, promoting knowledge initiatives and creating a conducive environment for industry

BUSINESS ENVIRONMENT & INDUSTRY PERFORMANCE

World Economy

Global output growth remained at the previous year's level of 3.4% in 2014. Global growth is projected at 3.3% in 2015, marginally lower than in 2014, with a gradual pickup in advanced economies and a slowdown in emerging market and developing economies. In 2016, growth is expected to strengthen to 3.8%

A setback to activity in the first quarter of 2015, mostly in North America, has resulted in a small correction in the expectations for growth. Nevertheless, the underlying drivers for a gradual acceleration in economic activity in advanced economies—easy financial conditions, neutral fiscal policy in the euro area, lower fuel prices, and improving confidence and labour market conditions—remain intact.

In emerging market economies, there has been a slowdown from 5% in 2013 to 4.6% in 2014. The projections for 2015 suggest a further slowdown to 4.2%. This continued slowdown reflects several

factors, including lower commodity prices and tighter external financial conditions, structural bottlenecks, rebalancing in China, and economic distress related to geopolitical factors. A rebound in activity in a number of distressed economies is expected to result in a pickup in growth in 2016.

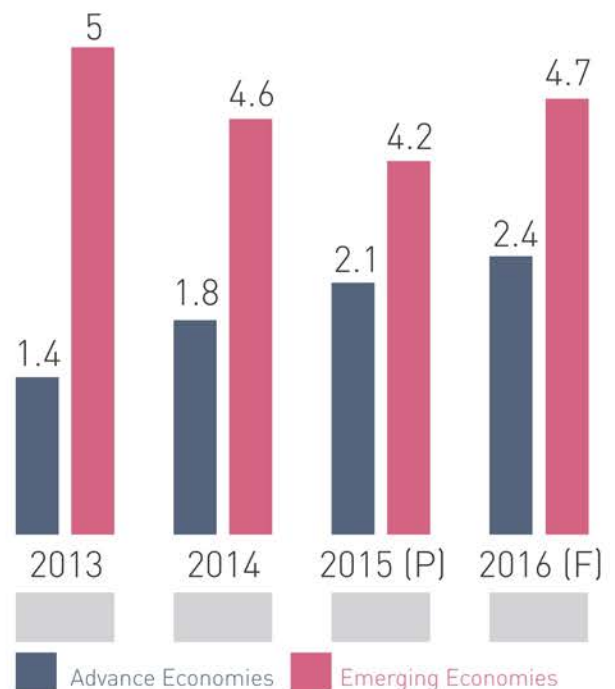
World trade reduced from 3.3% in 2013 to 3.2% in 2014. However, there are expectations of a growth in trade in 2015 to 4.1%

Good news for the automotive industry was the sharp drop in oil prices. In November 2014, oil prices started reducing from levels above USD 100 a barrel and reached around USD 40 a barrel by March 2015. Today, it is trading around USD 60 a barrel. A generally depressed global market condition, increased US oil and gas supplies, non-reduction of supplies by OPEC countries and a reduction in speculative demand have contributed to this fall in price.

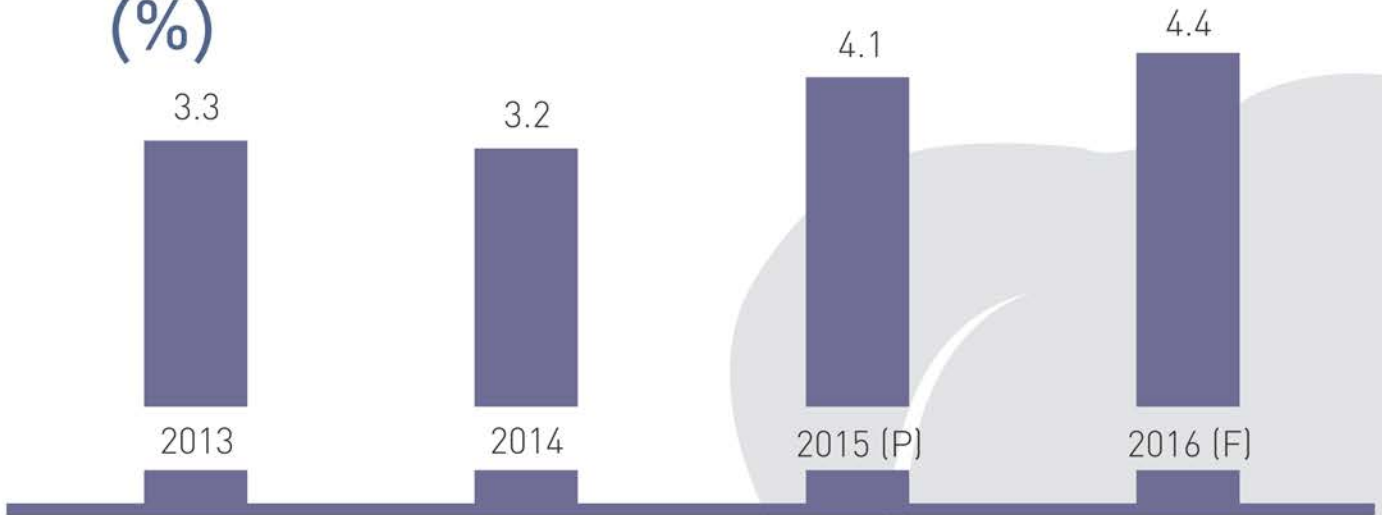
World Output Growth
(%)



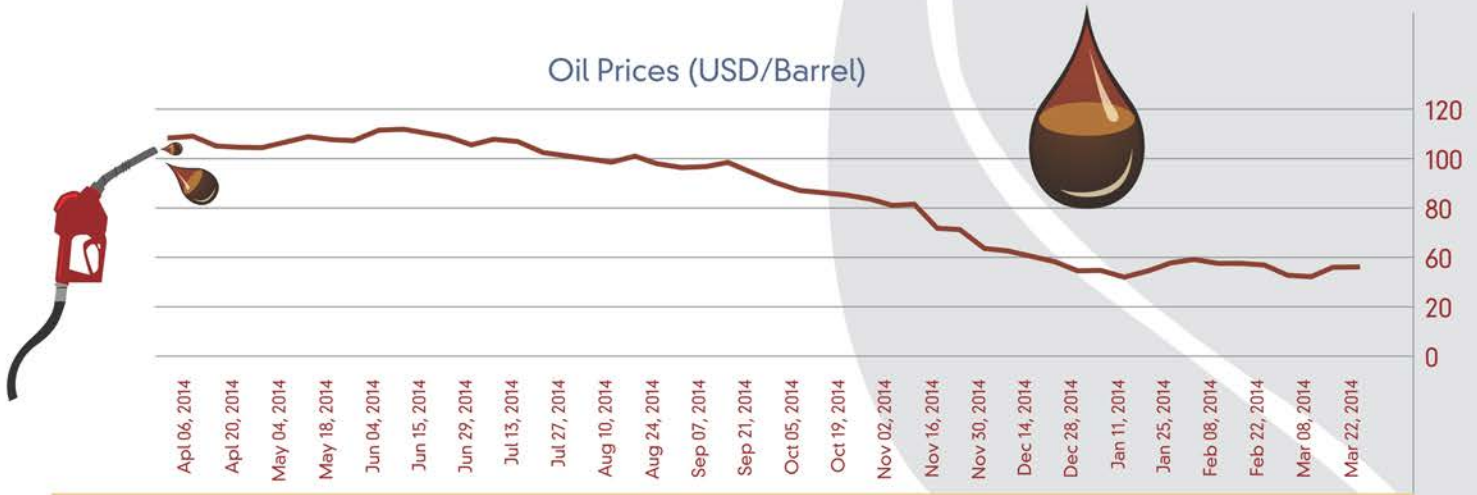
Output Growth in various economies
(%)



World Trade Growth (%)



Oil Prices (USD/Barrel)

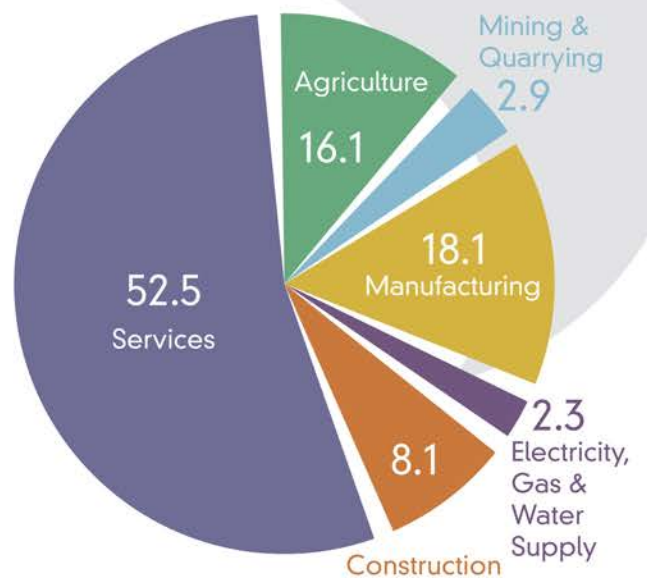


Indian Economy

Growth picked up in 2014, inflation markedly declined, and the external position was comfortable, helped by positive policies and lower global oil prices. The outlook for India is for economic strengthening through higher infrastructure spending, increased fiscal devolution to states, and continued reform of financial and monetary policy. The government underscored its intention to move steadily to tackle politically difficult structural issues that have stalled investment and limited economic performance in recent years.

The growth rate of Gross Domestic Product (GDP) at constant (2011-12) market prices is estimated at 7.3% in 2014-15 (Provisional Estimates). The growth of Gross Value Added (GVA) at basic prices for agriculture & allied sectors, industry sector and services sector are estimated at 0.2%, 6.1% and 10.2% respectively in 2014-15 as compared to the corresponding rates of 3.7%, 4.5% and 9.1% respectively in 2013-14.

Sector Contribution in GVA - 2014-15



Growth rates of industrial production improved overall from (-) 0.1% in 2013-14 to 2.8% in 2014-15 with mining growth improving from (-) 0.6% in 2013-14 to 1.4% in 2014-15, manufacturing from (-) 0.8% in 2013-14 to 2.3% in 2014-15, and electricity from 6.1% in 2013-14 to 8.4% in 2014-15.

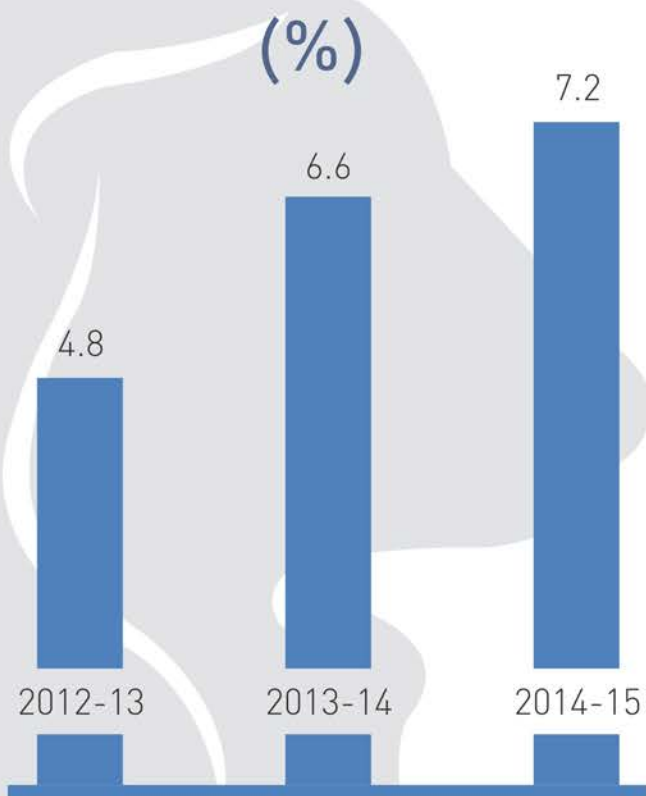
Foreign exchange reserves were USD 341.4 billion at end-March 2015 compared to USD 303.6 billion during end-March 2014. Net FII/FPI investments into India increased from Rs.51,649 crore in 2013-14 to Rs.277,461 crore in 2014-15 – a five-fold increase. More

importantly, FDI inflows increased from USD 36,046 million in 2013-14 to USD 44,876 million in 2014-15.

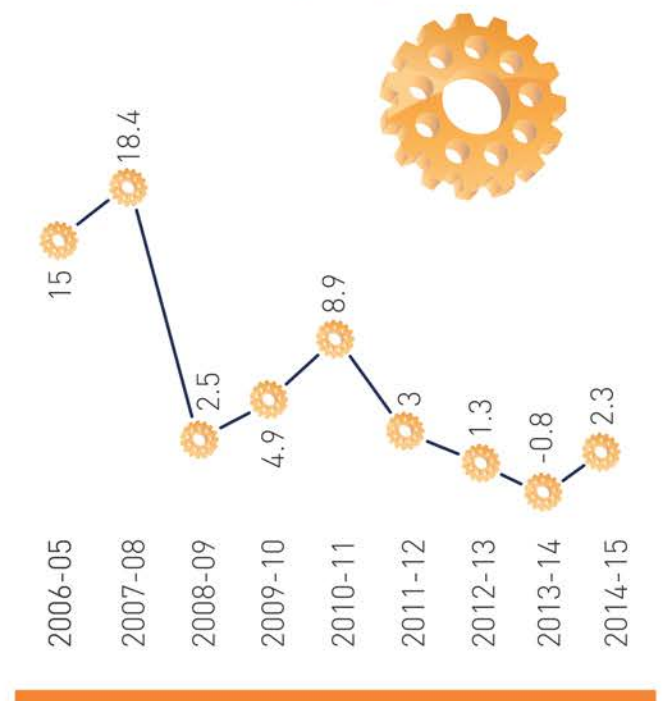
Inflation is also under control. Consumer Price Index (CPI) inflation for industrial workers reduced from 10.9% in 2013 to 6.4% in 2014. WPI based inflation reduced from 6% in 2013-14 to 2% in 2014-15

While foreign exchange rate has remained fairly stable, export reduced by (-) 1.22% to USD 310.6 billion. However, imports were also down by (-) 0.6% and overall trade deficit was maintained around USD 137 billion.

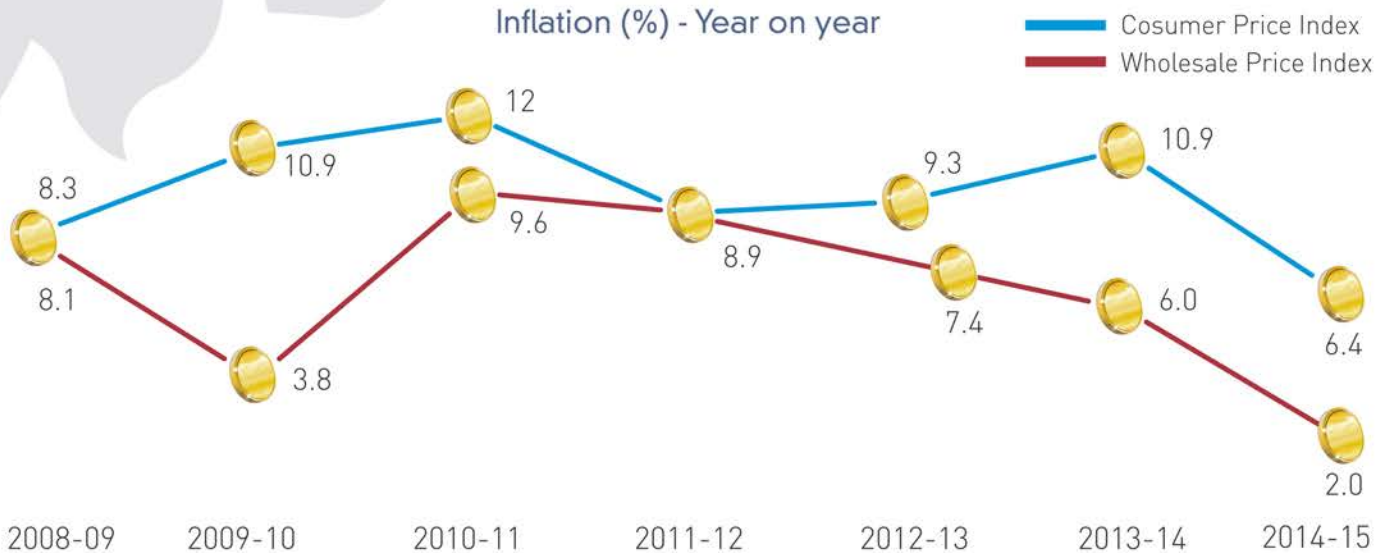
Real Gross Value Added Growth (%)



IIP Growth - Manufacturing (%)



Inflation (%) - Year on year



Exports (USD billion)



Automotive Industry

Data from the International Organisation of Motor Vehicles Manufacturers' (OICA) suggests that growth in world vehicles sales reduced from 4.3% in 2013 to 3% in 2014. Amongst automotive vehicles, passenger car sales increased by 3.4% in 2014 against 4.1% growth recorded in 2013, while commercial vehicles sales growth reduced from 4.7% in 2013 to 2.1% in 2014. Automobile sales in 2015 is expected to be in the

range of 4% with China leading demand growth and other Asian countries like India providing impetus. There has been a strong recovery in the North American countries of USA, Canada and Mexico, while Europe is expected to continue witnessing a slowdown.

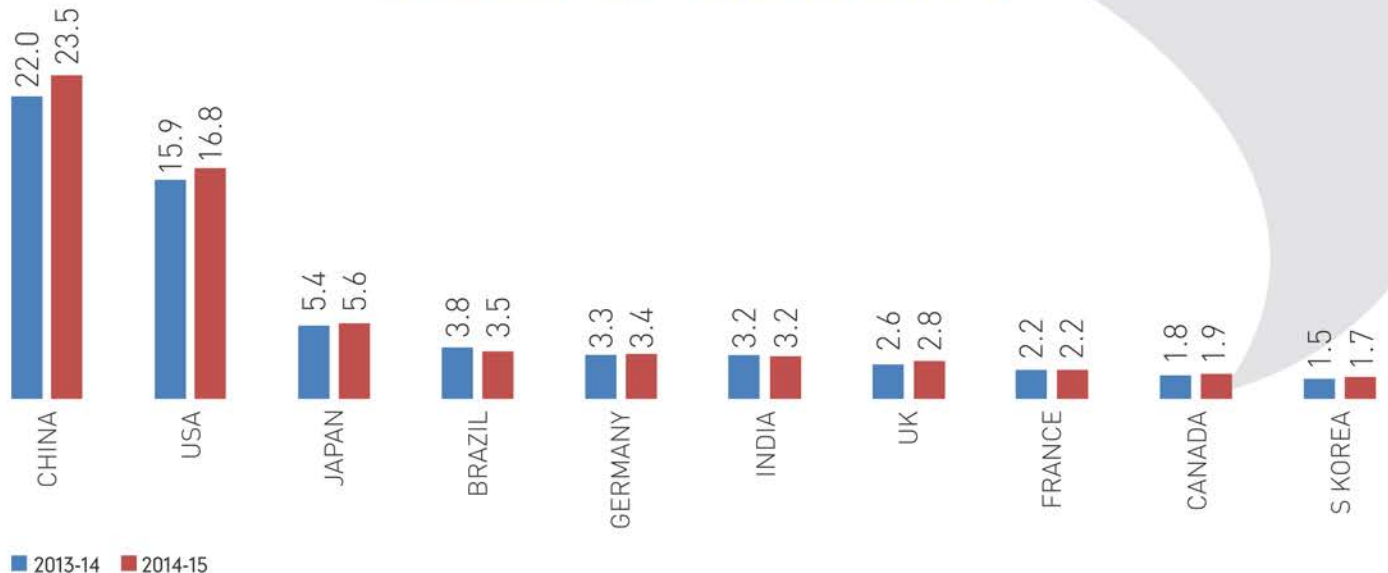
The Indian automobile industry is gradually and steadily coming out of the slump witnessed in the last couple of years. Total vehicle production growth, excluding tractors was 8.7%. The tractor segment had a challenging year with total production reducing by (-) 12% in 2014-15.

FDI inflow in the automobile sector increased by 75% in rupee terms from Rs.9,027 crore in 2013-14 to Rs.15,794 crore in 2014-15. In dollar terms, it increased by 69% from USD1,517 million in 2013-14 to USD2,570 million in 2014-15.

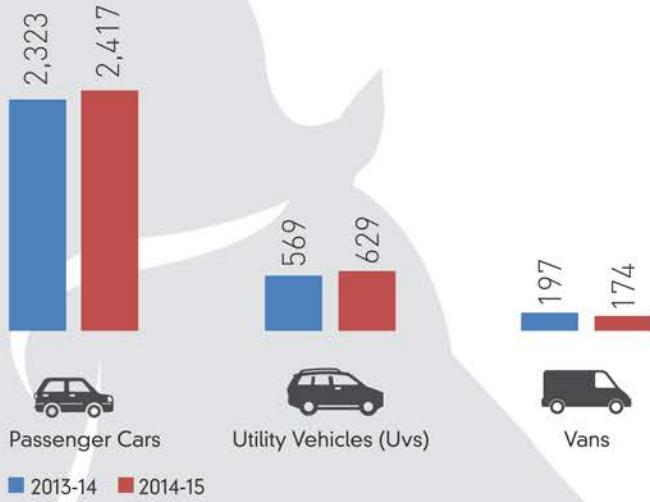
Within automobiles, total passenger vehicles production was up 4.3% with passenger cars growing by 4.1% and utility vehicles growing by 10.7%, while vans production reduced by (-) 11.5%. Total commercial vehicles production was down (-) 0.3% with contrasting performance from the sub-segments – on the one hand, M&HCVs recorded a strong 21.2% growth, on the other hand LCVs production reduced by (-) 10.3% thereby bringing down the performance of the entire CV segment.

Two and Three wheelers production increased by 9.6% and 14.3% respectively. Within the tractor segment, except for high end greater than 50HP tractors that recorded a growth of 19.7%, the others witnessed no growth or de-growth.

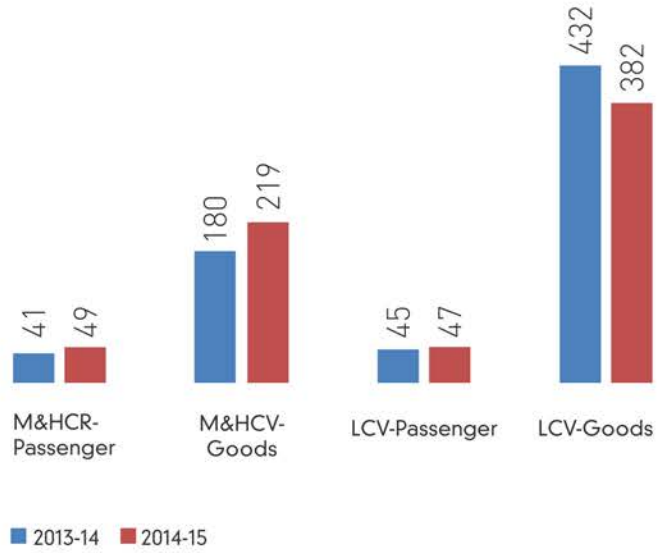
Vehicle Sales - Top 10 countries (in millions)



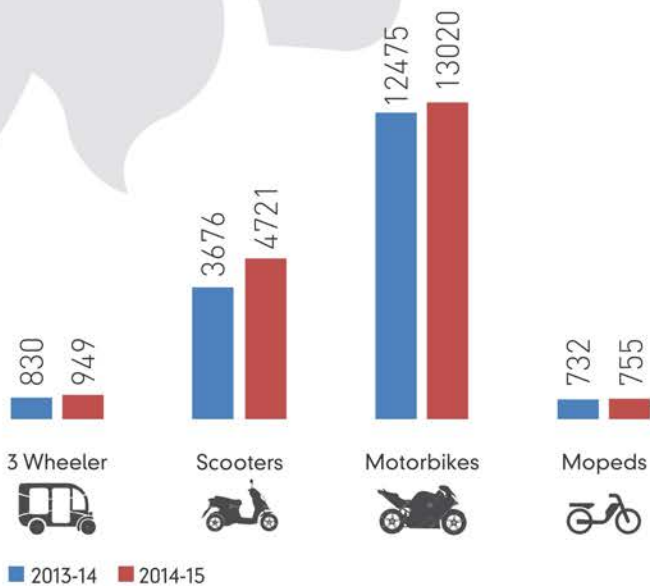
**Total Passenger Vehicles
Production ('000) up
4.3%**



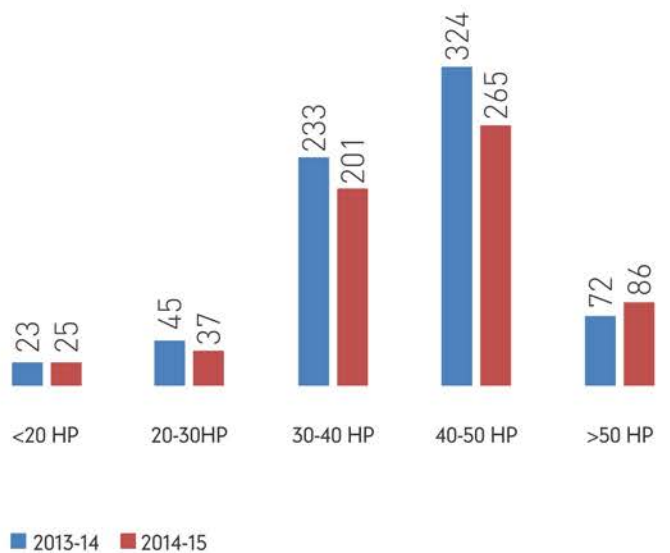
**Total Commercial Vehicles
Production ('000) down
-0.3%**



**Total 2-3 Wheeler Production ('000)
up 9.8%**



**Total Tractor Production ('000)
down -12%**



Indian Auto-Component Industry

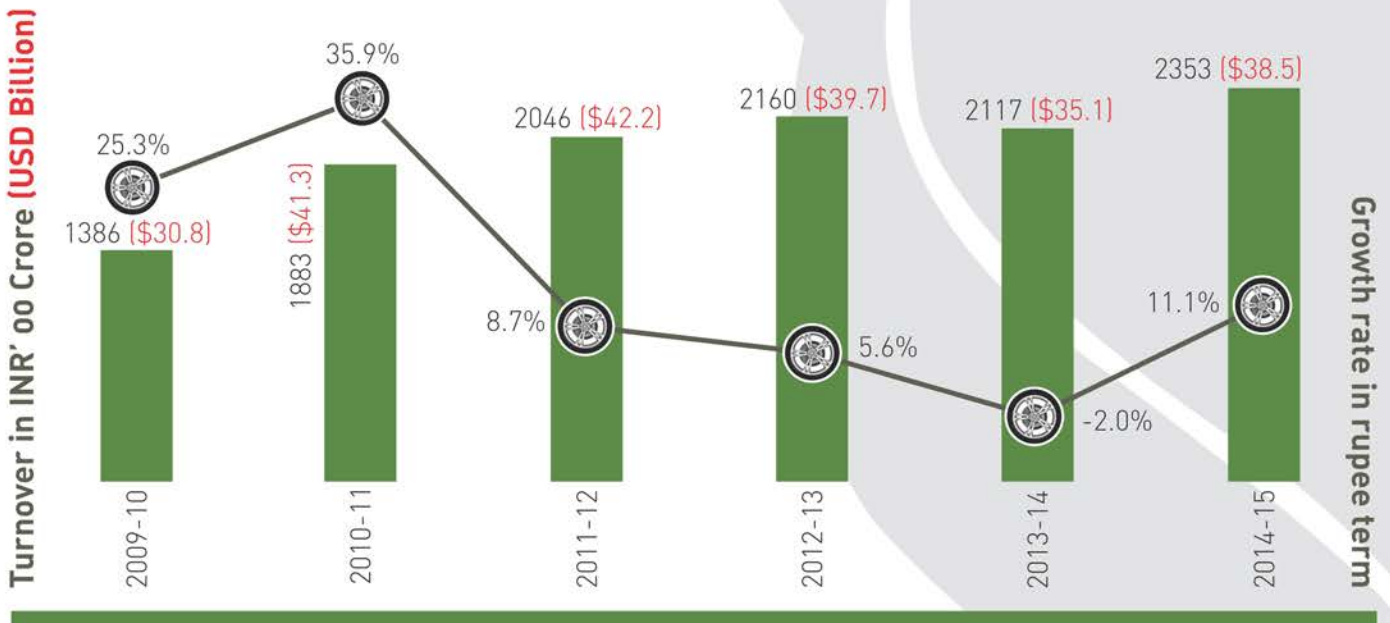
After a bleak 2013-14, the Indian auto-component industry showed some early signs of a turnaround in 2014-15. The Government of India, too, was proactive and intervened positively on several counts for the industry. However, there is still a lag between policy announcements and actual transformation of conditions on the ground.

ACMA estimates a turnover of Rs.2,34,000 crore or US\$ 38.5 billion the period April 2014 to March 2015; the auto-component industry in India registered a growth of 11% over the previous year and a CAGR of

11% over the last six years. This data represents the entire supply from the auto component industry in India to the on-road and off-road vehicle manufacturers and the aftermarket in India as well as overseas. The data also includes that of captive suppliers to the OEMs and the unorganized and smaller players.

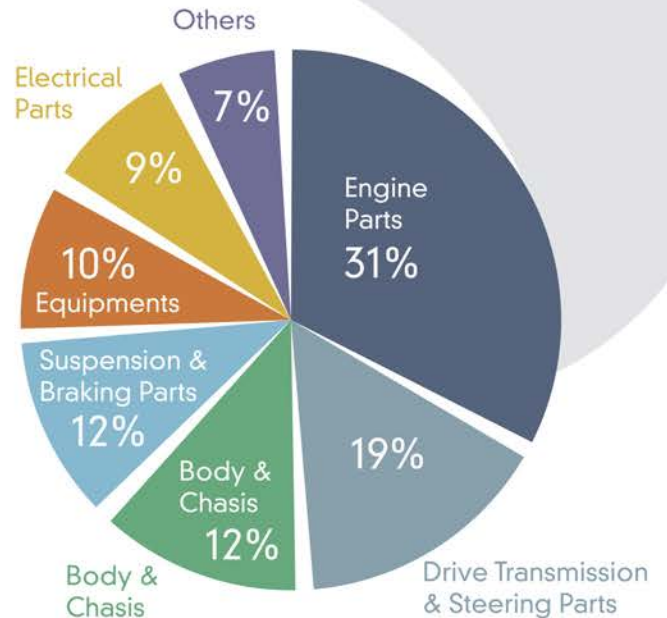
Importantly, it is interesting to note that while India's total exports stagnated and actually declined in 2014-15, the Indian auto component industry witnessed an impressive 11.4% growth in exports. The consistent growth in the auto component exports over the last few years is an indication of growing credibility of 'India made' components.

Auto-component turnover and Annual Growth in 2014-15



The industry continues to produce high quality cost competitive products across all products segments.

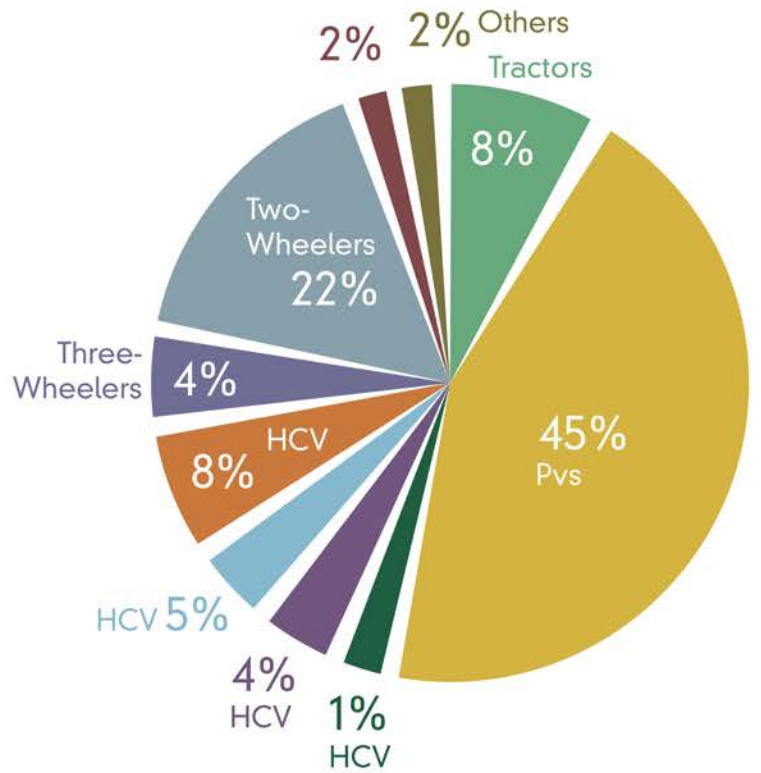
Product Range - Segment wise (2014-15)



Auto-component supply to OEMs (2014-15)

SCV	Less than 2T
LCV	2 to 7.5
MCV	7.5 to 16 T
HCV	More than 16 T

*OEMs consumption includes locally produced Components and Imports



Exports

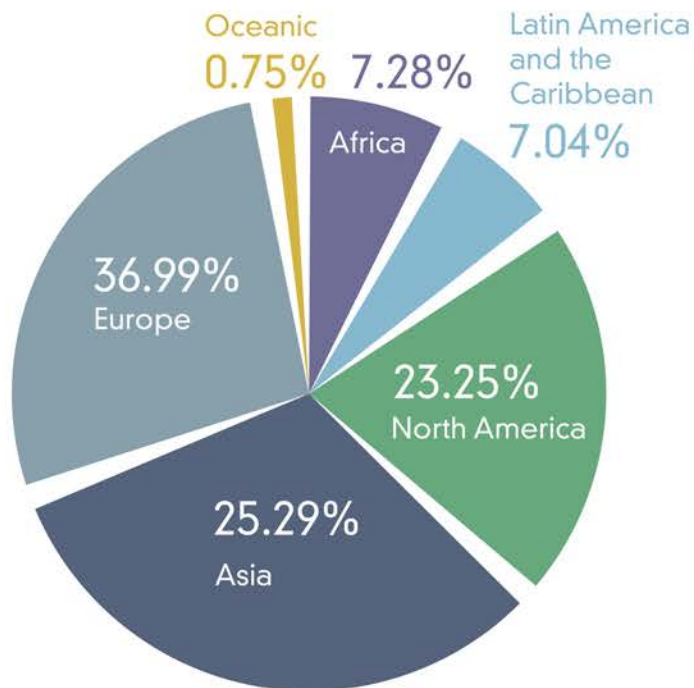
Exports of auto components grew by 11.4% from Rs.61,400 crore (USD 10.2 billion) in 2013-14 to Rs.68,500 crore (USD 11.2 billion), registering a CAGR of 29% in the last six years. Europe accounted for 36.9% of exports followed by Asia at 25.2% and North America at 23.2%. Exports to Africa, Latin America and North

America increased by 12.6%, 4.6% and 18.9% respectively, over the previous fiscal. The key export items include engine parts, transmission parts, brake system & components, body parts, exhaust systems and turbochargers.

Auto-component Export and Growth in 2014-15



Exports - By Regions (2014-15)



Export Destinations: Top 10 Countries in %			
USA	22.35	Thailand	3.38
Germany	7.51	Brazil	3.37
Turkey	6.49	China	3.07
UK	5.43	UAE	2.95
Italy	4.79	France	2.92

Key Auto Components Exported

EXPORTS	Hydraulic Power Steering Systems & Steering Gear Systems and Parts
	Gear boxes and parts
	Parts of Diesel Engines
	Parts for automobiles and earth moving Equipment
	Drive-axles and parts
	Spark Ignition and parts
	Suspension systems and parts
	Crank shaft for engines
	Toothed wheels, other transmission parts
	Brakes and servo-brakes; parts

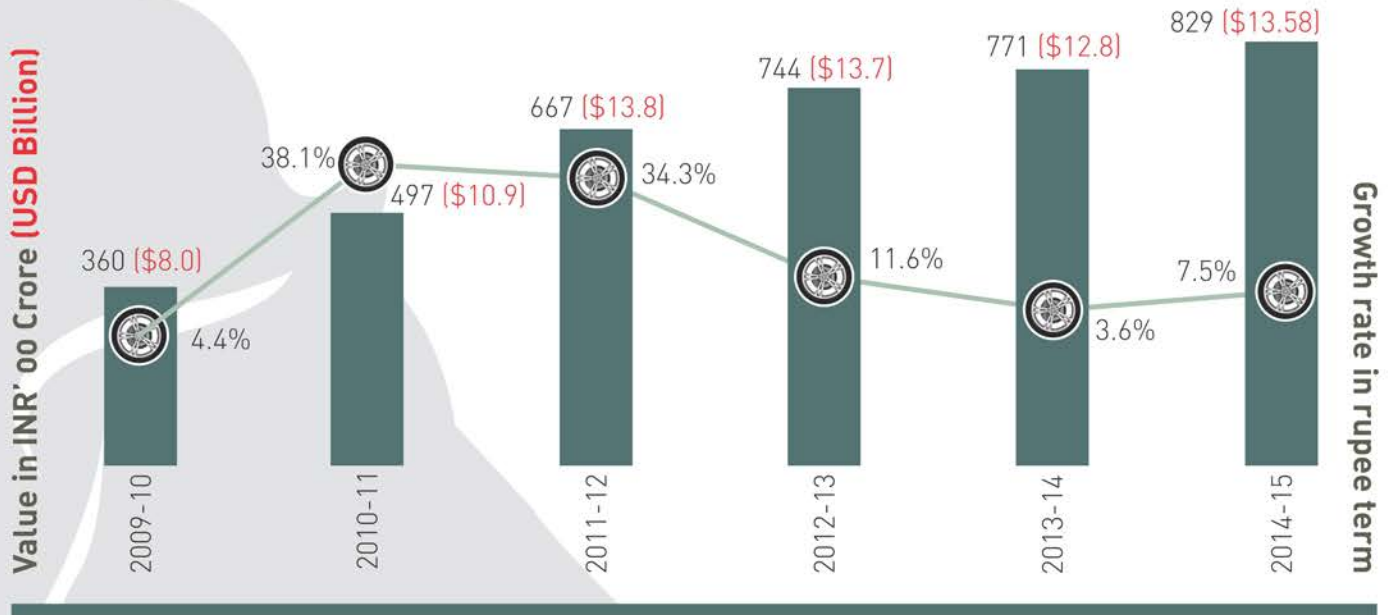
Illustrative list/products in Random order

Imports

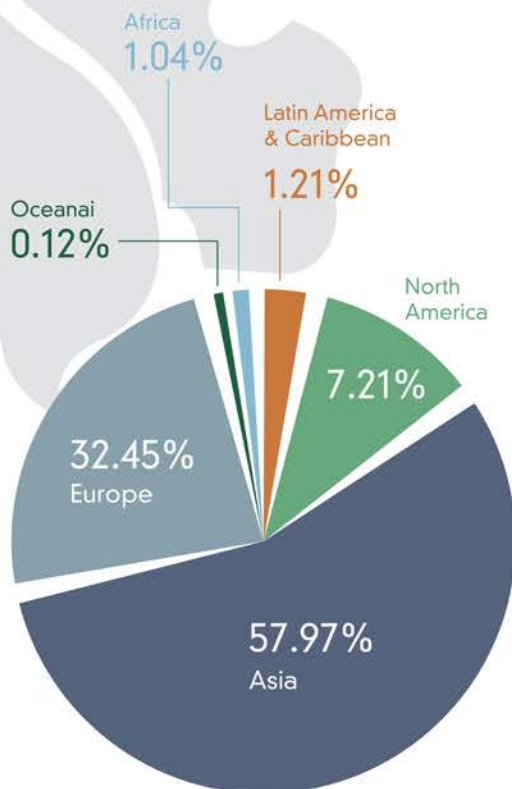
Imports of auto components grew by 7.5% from Rs.77,160 crore (USD 12.8 billion) in 2013-14 to Rs. 82,900 crore (USD 13.58 billion) in 2014-15; Asia and Europe contributed to 57.9% and 32.4% of the imports

respectively. Asia and Europe contributed to maximum imports followed by North America and Latin America.

Auto-component imports (Rs.'00 crore) and Growth



Imports by Regions (2014-15)



Origin of Imports: Share of Top 10 in %

China	23.94	USA	6.96
Germany	14.57	Italy	3.75
Japan	11.53	UK	2.67
South Korea	10.66	France	2.01
Thailand	8.27	Spain	1.40

ABOUT THE ORGANISATION

Introduction

Established in 1959, the Automotive Component Manufacturers' Association (ACMA) represents the collective interests of one of India's most successful manufacturing sectors, the auto-component industry. As an apex body, ACMA has been relentlessly promoting the interests of the auto-component industry be it for conducive policy environment or for business development – locally and internationally, or for enhancing internal efficiencies of its member companies.

The organisation has an illustrious history of executing the objectives of its charter, which is to develop a globally competitive Indian Auto Component Industry and strengthen its role in national economic development as also promote business through international alliances.

ACMA's active involvement in trade promotion, technology up-gradation, quality enhancement and collection & dissemination of information has made it

Membership

Today, with over 700 companies as members, ACMA represents around 85% of the entire auto-component sector turnover in the organised sector in India. Its member companies are spread all across India that either supply directly to OEMs or tier-1 suppliers.

ACMA Membership (as of May 2015)

Regions	Membership
Eastern Region	34
Northern Region	312
Southern Region	154
Western Region	213
Total	732

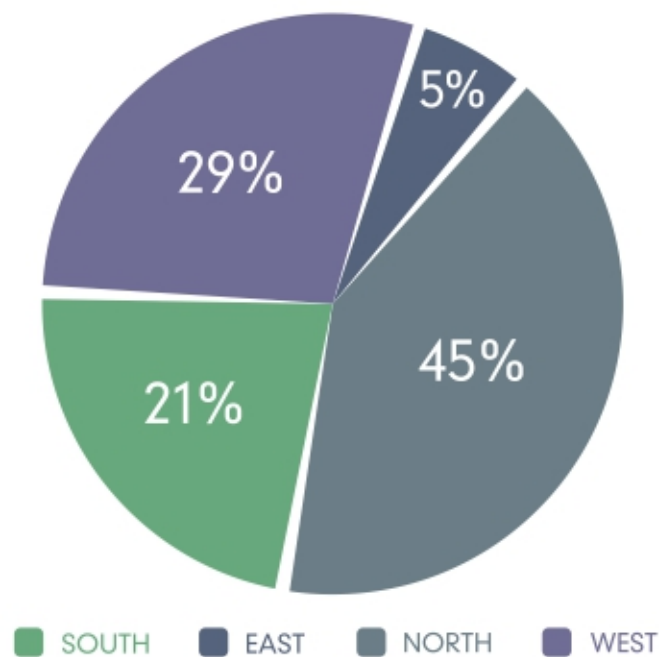
Representation

The organisation is represented in all government and industrial bodies in India pertaining to the auto-component industry. In terms of affiliations and partnership with other industry bodies, ACMA continued its work with the Associated Chambers of Commerce and Industry of India (ASSOCHAM), Confederation of Indian Industry (CII) and Federation of Indian Chambers of Commerce and Industry (FICCI). The organisation continued its regular interface, through the year, with the Society of Indian Automobile Manufacturers (SIAM), Automotive Research Association of India (ARAI), Indian Machine Tools Manufacturers Association (IMTMA), National Automotive Testing and R & D Infrastructure Project (NATRiP), Automotive Skill Development Council (ASDC) and other member Association of the Associations Councils of CII.

ACMA continues to be represented on the following government bodies:

- Automotive Industry Standards Committee
- Automotive Research Association of India (ARAI)
- Automotive Skill Development Council (ASDC)
- Bureau of Indian Standards (Transport Engineering Division)
- Central Motor Vehicles Rules-Technical Standing Committee
- Development Council for Automobiles and Allied Industries

ACMA MEMBERS - REGIONAL PRESENCE (INDIA)



- Development Council for the Machine Tool Industry
- Indo-German Joint Working Group on Automotive Sector
- India-Netherland Joint Working Group on Automotive Sector
- National Automotive Board (NAB)
- National Automotive Testing and R&D Infrastructure Project (NATRiP)
- National Board for Electric Mobility
- WP.29 and Subsidiary technical bodies of WP.29

International Alliances

With an increased focus on globalisation of the Indian auto-component industry, ACMA has developed strong relationships with several counterpart organisations across the world that help better integrate the Indian auto-component industry in the global supply chain.

COUNTRY	ORGANISATIONS	MOU Partners
Brazil	Brazilian Association of Automotive Components Manufacturers (SINDIPECAS)	
Canada	Automotive Parts Manufacturers Association (APMA)	
Egypt	Egyptian Auto Feeders Association (EAFA)	
France	Federation des Industries des Equipments pour Vehicules (FIEV)	
Germany	Verband der Automobilindustrie (VDA)	
Germany	Fraunhofer-Gesellschaft zur Foerderung der Angewandten Forschung e.V.	
Germany	ACMA-Messe Frankfurt - Trade Fairs	
Hungary	MAJOSZ (Association of Hungarian Automotive Component Manufacturers)	
Iran	Iranian Autoparts Manufacturers Association (IAPMA)	
Italy	Unione Industriale Torino (UIT)	
Japan	Japan Auto Parts Industries Association (JAPIA)	
Korea	Korea Auto Industries Cooperative Association (KAICA)	
Malaysia	Malaysian Automotive Component Parts Manufacturers Association (MACPMA)	
Nigeria	National Automotive Council (NAC)	
Pakistan	Pakistan Association of Automotive Parts and Accessories Manufacturers (PAAPAM)	
Russia	National Association of Automotive Components Manufacturers (NAPAK)	
South Africa	The National Association of Automotive Components & Allied Manufacturers (NAACAM)	
South Korea	Economic Cooperation Agreement between Gunsan City, Jeollabuk-do Province, Republic of Korea & ACMA	
Spain	Asociation Espanola de Fabricantes de Equipos y Componentes para Automocion (SERNAUTO)	
Sweden	Scandinavian Automotive Suppliers Association (SASA)	
Thailand	Thai Auto-Parts Manufacturers Association (TAPMA)	
Tunisia	UTICA / L' Association Tunisienne des Fabricants de Composants Automobiles (UTICA/ATFCA)	
Turkey	Association of Automotive Parts & Components Manufacturers (TAYSAD)	
UK	The Society of Motor Manufacturers & Traders Ltd. (SMMT)	
USA	Motor & Equipment Manufacturers Association (MEMA)	
USA	Society of Automotive Engineers (SAE)	
USA	Original Equipment Suppliers Association (OESA)	
USA	Auto Care Association (earlier known as Automotive Aftermarket Industry Association - AAIA)	
Uzbekistan	The Association of the Enterprises of Automotive Industry of the Republic of Uzbekistan (UZAUTOSANOAT)	

Secretariat

The operations are executed by a strong secretariat with presence across all regions of India. In keeping with ACMA's continuous pursuit for excellence, the secretariat has adopted best practices; ACMA is an ISO 9001-2008 certified institution.

Execution

The association executes its activities through a network of regional set up, national committees and specialised divisions like ACT and YBLF. Broadly the spectrum of activities can be categorised under four segments of operations:

Brand Building and Business Development: This is done with a focus to enhance the appeal of the Indian auto-component industry as a whole and also provide a platform and opportunities to individual companies within the industry to promote themselves. Activities are done both within the country and abroad.

Government Affairs and Policy Advocacy: As the apex industry body representing the auto-component industry in India, primary goal of the association is to create a conducive policy environment that helps the industry flourish and manage effectively the dynamic external

environment. ACMA also assists the government in evolving appropriate policies and regulatory mechanism conducive to the growth and development of the sector in India as also allow it to integrate into the global automotive value chain.

Enhancing Internal Efficiencies: While promoting the larger interests of the industry, the association plays a critical role in upgrading the manufacturing competence of its members to global standards through various process interventions as also by promoting deployment of latest technology & practices.

Thought Leadership, Knowledge Initiatives and Competitions: ACMA, through its engagements with various Knowledge Partners of international repute keeps its members abreast of global trends and best practices. That apart, the association organises several seminars and events, through, creating platforms for information and Knowledge dissemination.

Driven by the goal of achieving the targets envisioned in Automotive Mission Plan of the Government of India, ACMA continues to work through its regions and committees to promote the interests of the industry. Each of ACMA's regional and national committees has specific objectives and scope, which are highlighted in a separate chapter subsequently.

ACMA QUALITY POLICY

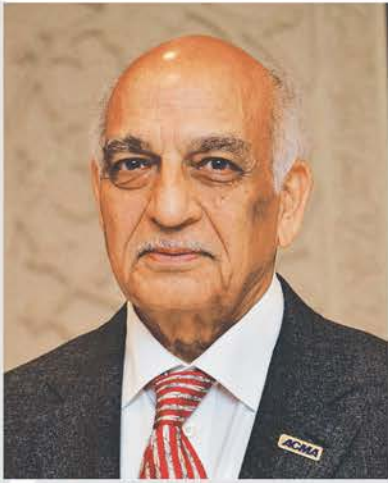
ACMA is committed to provide leadership and quality services to it's customers. This would be achieved by:

- Evolving & delivering innovative services through consensus and in partnership with members/other stake holders.
- Contributing to the developmental needs of the customers in the backdrop of changing external environment.
- Enhancing ACMA's capabilities and competence portfolio commensurate with emerging industry needs and expectations.
- ACMA is committed to comply with the requirements of the Quality Management System and to continually improve its effectiveness through employee involvement.

President

Director General

OFFICE BEARERS 2014-15



President
Mr Ramesh Suri
 Chairman
 Global Autotech Ltd
 New Delhi



Vice President
Mr Sandeep Balooja
 Executive Chairman
 Mando Automotive India Ltd.
 Pune

Regional Chairpersons



Northern Region ■
Nirmal K. Minda
 Chairman & Managing Director
 Minda Industries Ltd. Gurgaon



Southern Region ■
Arvind Balaji
 Joint Managing Director,
 Lucas TVS Ltd. Chennai



Western Region ■
Mr Kirti Rathod
 Chairman & Managing Director,
 Deluxe Bearings Ltd. Mumbai



Eastern Region ■
Killol Kamani
 Managing Director,
 Samarth Engineers Co. Pvt Ltd.
 Jamshedpur

WHAT WE DO...

GOVERNMENT AFFAIR AND POLICY ADVOCACY:

Continuously engage with the Government and related bodies to create a regulatory environment best suited for the Indian auto component Industry.

BRAND BUILDING AND BUSINESS DEVELOPMENT:

Promote brand India globally and assist Indian companies in getting market abroad and domestically. Assistance is also provided in developing network.

ACMA

THOUGHT LEADERSHIP, KNOWLEDGE INITIATIVES AND COMPETITION:

Undertakes seminars and studies to develop knowledge base pertinent to the industry so that members can stay ahead of time in synch with global competition.

ENHANCING INTERNAL EFFICIENCIES:

Training and sharing of globally acknowledged best practices for the collective benefit of companies in the industry. Also assist in optimising IT infrastructure for competitiveness.

MARQUEE EVENTS

ACMA AUTOMECHANIKA, NEW DELHI (FEBRUARY-MARCH 2015)



The second edition of ACMA Automechanika, New Delhi was successfully organized in collaboration with Messe Frankfurt at the Pragati Maidan, New Delhi between February 26 and March 1, 2015. The event witnessed an enthusiastic response from auto part majors, the aftermarket and business visitors. With a total of 12,861 business visitors from India and abroad and 436 exhibiting companies from India and countries like Brazil, China, Germany, Hungary, Indonesia, Italy, Japan, Korea, Malaysia, Poland, Spain, Taiwan, Thailand, UAE, UK and USA, the event reinforced its positioning as a leading networking and sourcing platform for India's auto-component players addressing both OEM and aftermarket.

ACMA Automechanika, New Delhi provided the perfect platform to launch and showcase new products and technologies especially for the aftermarket in the region, with 20 companies unveiling new products and component lines. The exhibits on display were a representation of the latest products in mobility and vehicle maintenance & up-keep. The exhibition presented innovative auto-components in 6 different categories – parts and systems, accessories and tuning, tyres and batteries, repair

and maintenance, IT and management, service stations and car washes.

ACMA's 'Asli Naqli' pavilion and Messe Frankfurt's 'Against Copying' campaign, not only educated after market professionals about disadvantages and risks involved in using fake parts for vehicles, but also provided visitors an opportunity to evaluate components and distinguish the real from fake, enabling them to take well-informed buying decisions.

The other highlights of the event were a white paper on transformative technologies of future cars and a seminar presenting comprehensive insights on next generation of electronics and safety systems and managing cost of innovation. Concurrent to the event the first ACMA Global MSME Summit – 'Make in India – evolving manufacturing through globalisation' was also organised that focused on Indian small and medium enterprises and with lessons from SME enterprises in the developed world on their evolution in terms of entrepreneurial ability, technology upgradation and innovation.

ACMA Automechanika, New Delhi – Key Highlights

Over 436 world-leading manufacturers and suppliers

245 Indian Exhibitors

171 International exhibitors from Brazil, China, Germany, Indonesia, Italy, Korea, Malaysia, Spain, Taiwan, Thailand and UK

Spread over 16,000 square meters

12,861 business visitors from India and abroad

There was a 58% increase in the number of exhibitors

90% increase in occupied space

34% surge in international participation, since 2013

7 exclusive pavilions – China, Germany, Korea, Taiwan, Thailand and the UK

Aftermarket Conference – 18 speakers from India, Germany, UK and USA

FIRST ACT SUMMIT, PUNE (FEBRUARY 2015)

The ACMA Centre of Technology (ACT) commemorated its 25 years of service by organising the first ACT summit on 16 and 17 February at Pune. The theme of this event was 'Make in India: Beyond Zero Defect Quality – An ACT approach'.

Mr Anant Geete, Hon'ble Minister for Heavy Industries and Public Enterprises, Government of India, was the chief guest at the summit, where he released two books titled ACT Improvements Photo Gallery (Before and After) and ACT Journey – Towards Excellence.

The summit demonstrated the essence of manufacturing excellence journey through competition, case study presentations, panel discussions and addresses from industry experts.

The highlights of the event included:

- Panel discussions on 'Zero Defect Quality' and 'Industry – Academia Interface'
- MOU Signing: ACMA – CII ZED Cluster (Zero effect and Zero Defect)
- Competitions through 'Case Study Presentations' under 4 broad topics – Environment: Conservation of energy and resources; Total Employee Involvement; Innovation – Technology and productivity; and cost
- Showcasing cluster learning from ACT cluster programmes – ACT Advance cluster and ACT engineering cluster
- Experience sharing by ACMA Awards 2014 Gold Award winners
- Recognition of ACT Heroes – the change agents from the shop floor.



ANNUAL SESSION AND NATIONAL CONFERENCE, NEW DELHI (SEPTEMBER, 2014)



With focus on 'Capturing the Global Opportunity – the next imperative for the Indian auto-component industry', ACMA hosted its 54th Annual Session and National Conference on 11 September 2014.

The session was addressed by key ministers and leaders from the Indian automotive industry, which included Mr Nitin Gadkari, Union Minister of Road Transport and Highways, Mr Anant Geete, Union Minister of Heavy Industries and Public Enterprises, Mr Piyush Goel, Union Minister of State for Power, Coal and Renewable Energy, Mr Sumit Mazumder, President Designate CII, and Mr Vikram Kirloskar, President SIAM among others.

The highlight of the event was the panel discussion on the ACMA-Mckinsey study on "Capturing the Global Opportunity – the next imperative for the Indian auto-component industry", which was unveiled by Mr Anant Geete, Hon'ble Union Minister of Heavy Industries and Public Enterprises. The study findings suggest that globalization in the auto-suppliers industry is an irreversible trend and is likely to increase. There are five macro trends, which will drive this:

- Globalising OEMs with suppliers following them;
- Maturing of low-cost countries (LCC) as export hubs;

- Platform consolidation and shift towards large global suppliers;
- Increasing aspiration of emerging market suppliers to access new markets;
- Technologies and market diversification for margin resiliency.

The report also identifies and suggests that Indian suppliers are well positioned to benefit from these global trends and can significantly accelerate their international presence in the next few years. Based on market comparisons, supplier and OEM surveys, the Indian suppliers can nurture a three-pronged 2020 aspiration:

- Increase exports from the current USD 10 billion to USD 35 to 40 billion
- Increase revenues from overseas assets from the current USD 6 billion to USD 20 to 22 billion
- Increase count of Indian suppliers in global top 100 from the current lone figure to five by 2020

The report has identified potentially 12 globalisation models and six critical functional imperatives for Indian suppliers to evaluate and successfully globalize. In the coming years, ACMA will work to enable the realization of such a vision for the industry.



ACMA AWARDS



ACMA Award Winners 2014

Excellence in EXPORTS

Small Category

Certificate of Recognition	Bohra Rubber Pvt. Ltd., Faridabad
Certificate of Recognition	Stork Auto Engineering Pvt. Ltd., Manesar

Large Category

Gold Trophy	Hi-Tech Gears Ltd., Bhiwadi
Silver Trophy	Polyplastics Industries (India) Pvt. Ltd., Yamunanagar
Bronze Trophy	Shriram Pistons & Rings Ltd., Ghaziabad

Excellence in TECHNOLOGY

Small Category

Gold Trophy	Litens Automotive (India) Pvt. Ltd., Pune
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Large Category

Gold Trophy	Wheels India Ltd., CV, Padi
Silver Trophy	Lumax Industries Ltd., Pune
Bronze Trophy	Technico Industries Ltd., Bawal

Excellence in QUALITY & PRODUCTIVITY

Small Category

Gold Trophy	Sellowrap Industries Pvt. Ltd., Gurgaon
Silver Trophy	Bohra Rubber Pvt. Ltd., Faridabad
Certificate of Recognition	Devilog Systems (India), Bangalore
Certificate of Recognition	Stork Rubber Products Pvt. Ltd., Gurgaon

Large Category

Gold Trophy	Nipman Fastener Industries Pvt. Ltd., Haridwar
Silver Trophy	Neolite ZKW Lightings Pvt. Ltd., Bahadurgarh
Bronze Trophy	Delux Bearings Ltd. (Plant-1), Wadhwan

Excellence in MANUFACTURING

Small Category

Gold Trophy	Bosch Ltd., Bangalore
Silver Trophy	Lumax DK Auto Industries Ltd., Pantnagar
Silver Trophy	Subros Ltd., Manesar
Bronze Trophy	Lucas TVS Ltd., Puducherry
Bronze Trophy	Pranav Vikas India Ltd., Palwal
Bronze Trophy	Rane Brake Lining Ltd., Trichy

ACMA in Press

ACMA Automechanika scores high in its second innings



Text: J Srikant

NEW / HEADLINE Association has signed an MoU with PAAPAM
ACMA exploring JV with Pak

Karnataka's new Industrial Policy hailed by ACMA



Auto Parts Industry Growth At 4-Yr High

India's auto component industry grew 11% in 2014-15, clocking its highest jump in four years, to post a turnover of ₹2.34 lakh crore, aided by rising demand from the domestic market and overseas buyers in the US and Europe. The industry, which suffered a 2% decline in 2013-14, recovered in five months as a result of expansion.

ACMA report outlines business opportunities in China

ACMA organises meet with African countries

ACMA welcomes new Foreign Trade Policy

Acma to start training for zero-defect mission



ACMA report outlines business opportunities in China



ACMA hails new foreign trade policy

ACMA automechanika

to raise awareness about spurious parts



Auto component sector to grow 8-10% this financial year: Acma



Delux Bearings is one of the 40 Indian auto component manufacturers who have signed a MoU with PAAPAM. The MoU was signed as part of ACMA's Outreach Campaign for Research and Development. ACMA is exploring a joint venture with Pakistan's PAAPAM. The MoU was signed on the sidelines of the 54th Annual Session and National Conference of ACMA in New Delhi. The MoU is aimed at strengthening the ties between the two countries. The MoU is aimed at strengthening the ties between the two countries. The MoU is aimed at strengthening the ties between the two countries.

ACMA to hold buyer-seller meet in Egypt



Indian auto component manufacturers reach out to Africa

ACMA organises reverse buyers-sellers meet ^{us}

enhance export of goods and services. This will subsequently lead to employment generation in line with Prime Minister Narendra Modi's "Make in India" vision. Local sourcing and manufacturing has also been encouraged.

M&As in Indian auto sector down but road ahead looks bright

Although mergers and acquisitions saw a decline in the last four years, the future should see Indian companies actively scout for growing their footprint. Shobha Mathur reports.



ACMA's 54th Annual Conference exhibits the 'ocean of opportunity across the seven seas'



They all make winning parts, great and small

The ACMA Annual Convention 2014 was a proud moment for a number of deserving automotive component manufacturers from across the country.



ACMA meet on leveraging M&As
Stress on growth, tech upgrade

ACMA buyer-seller meet in Colombo well attended

The Automotive Component Manufacturers Association of India (ACMA), with the support of the Department of Commerce, organised a first-ever buyer-seller meet in Colombo on March 26, which held a detailed discussion on opportunities of automotive component suppliers in India. The meet was organised against the backdrop of Prime Minister Narendra Modi's recent visit to Sri Lanka to strengthen business ties between the two countries.

At the event, 26 leading Indian component manufacturers showcased 'Made in India' aftermarket products, while over 50 key buyers, including dealers, distributors and importers from Sri Lanka, showed keen interest in these. Additionally, a seminar on 'Indian Auto Industry: Opportunities & Challenges' was organised by ACMA in co-operation with the High Commission of India, which served as an ideal platform for the Sri Lankan delegates to get an insight into the growing capabilities of the Indian auto component industry.

Talking on the positive outcome of the meet, Mr. Vinod Mehta, ACMA Director General, said, "The meet was a great success and we are looking forward to similar events in the future."

REGIONS & COMMITTEES

AN INTRODUCTION

ACMA's activities are carried out through an organisation structure comprising regions and committees. In this chapter, we provide a brief description of these regions and committees highlighting their core structure, objectives and activity profile.

REGIONS

In this section we provide a brief description of the ACMA's four regions, highlighting their core objectives, scope and activity for 2014-15.

SCOPE AND OBJECTIVES

There are four regions – North, South, East and West. The Northern Region operates from the head office in Delhi while the other regional offices are at Jamshedpur (Eastern Region), Chennai (Southern Region) and Pune (Western Region). In addition to regional offices, there are four Zonal offices at Bangalore in the South, Mumbai and Ahmedabad office in the West and Pantnagar in the North. This expansive network helps ACMA reach out to a wider spectrum of membership and service their requirements.

In terms of the organisation structure, a regional office is headed by the Regional Chairperson elected by the respective regional members of the Association. The Regional Chairman supported by the Regional Committee and Regional Secretariat is responsible for the Region and is expected:

- To create awareness, promote and market the gamut of services being provided by ACMA (inclusive of all Divisions and Departments) among the entire membership
 - To take proactive steps on regional problems/issues related to the industry
 - To enhance, strengthen, develop the membership in the region
 - Make concerted efforts in realising payments pertaining to membership, subscription, services and events
 - To initiate, design, plan and organise activities for the Region based on the domestic/regional trends and needs of the members in the Region aligned to the National work plan and within the ambit of services stipulated by ACMA.
- To form Regional Committee and to have zonal coordinators from the regional membership to facilitate efficient and effective dissemination of services in the zones in order to enhance participation from member companies
 - To continuously assess, address and communicate issues related to regulatory amendments in terms of technology, drive export enhancement efforts, design and conduct programs to meet the larger interest of members related to issues such as HR, Productivity, Quality, Exports, Technology, Materials and IT
 - To play a catalytic role in organising interactions with customers (OEMs, IPOs, etc), potential buyers, and visiting delegations etc. Also, explore possibilities of regional delegations overseas in consultation with HO
 - To address concerns of the memberships to the State Governments and its bodies.
 - To work closely with other Regions and National Committees to develop, organise and execute events / services
 - To improve visibility by interacting with the Press and Media at the Regional Level

ANNUAL ACTIVITY HIGHLIGHTS

The major activities undertaken by various regions of ACMA during 2014-15 are given below:

EASTERN REGION

15 April '14: Visit and Interaction with Tata Motors Ltd, Jamshedpur



A 15 member CEOs delegation visited Tata Motors and gained valuable insights on better understanding of quality within manufacturing and build positive relations with vendors through implementation of best practices.



9 May '14: Third Kaizen Competition, Jamshedpur



In order to maintain the idea of Kaizen and quality improvement continually in the minds of the members and motivate participants to bring changes and share the outcome with associates from similar industry, this competition was organised. Twenty four team participated.



3 June '14: Member's Interaction with IBM, Jamshedpur

The aim of the interaction was to discuss the health of the automotive market, opportunities available and the impact of the new government. The interaction also covered the performance of the autoDX where Ms Sridevi Srivastava, Senior Marketing Manager, IBM gave a presentation on the EDI platform and cleared member's queries.



20 August '14: Training Program on Swot Analysis, Jamshedpur

20 delegates participated in this program. The training was provided by an expert on basic concept of Strength Weakness Opportunities and Threats (SWOT) analysis. The program covered the objective of training, benefits and pitfalls, execution, brainstorming and prioritisation of SWOT. The session also witnessed practical application of the concept where all participants were divided into groups and made to discuss the SWOT for their present roles.

22 August '14: Buyer-Seller Meet, Jamshedpur

This meet was organised to bring together local industry members and major Tier 1 buyers. It highlighted the strength of the region, its capabilities and opportunities and was also beneficial for buyers as they could access a ready supply base. 34 members of 17 member companies attended the event.



19 September '14: Interaction with IPO Forum, Kolkata
This event was an interaction between Eastern Region members with the International Purchase Officer (IPO) forum. 23 member companies from the region interacted with 12 IPOs. The meet helped understand the capability of vendors in the region and mapped requirements against capabilities. Going forward emphasis will be on one to one site meetings and plant assessments, which would translate into RFQs and orders.

31 October '14: Training Program on Advance Product Quality Planning (APQP), Jamshedpur

APQP is a framework of procedures and techniques used to develop products in industry, particularly automotive, which involves 75% planning and 25% implementation on production, to determine customer satisfaction and continuous improvement. Through this program the benefits of APQP were communicated including direct resources to satisfy customers, promote early identification of required changes, avoid late changes and promote quality product on time at lowest prices. The session was attended by 31 delegates.



11 December '14: Workshop on Lean Tool – Value Stream Mapping, Jamshedpur



The objective of the program was to understand the benefits of lean manufacturing through practical exercises. The dissemination methodology was a fine balance between lectures and audio-visual aid. Interest was further enhanced by adopting the play-way method. Participants were involved throughout and understood the importance of 5S and ways of improvement through Value Stream Mapping. The program was attended by 31 delegates.

12 December '14: Awareness Program on TS16949, Jamshedpur

This one-day awareness program made the participants understand the importance of TS audits and reduce the time of preparation of documents related to it. The program was attended by 24 delegates.

9 January '15: Second Workshop on Lean Tool Kit: Value Stream Mapping, Jamshedpur



This follow up program was organised after the overwhelming response from the first workshop. With the objective of propagating the benefits of lean manufacturing, the delegates were first introduced to the history, basic concepts, value added activities and types of wastes in lean manufacturing. As a second part of the program a game setting with a visual factory was created to further elucidate the concepts in a practical manner. Finally, the participants were taught how to map or calculate the value stream. 27 delegates attended the event.

6 February '15: Workshop on Emergency Action Plan and Personal Safety, Jamshedpur

The emergency action plan is an outline of a structured evacuation to ensure the safety of employees, which acts as a guidance in case of any unforeseen occurrences like floods, fires, explosions etc. The faculty used videos, pictures and charts to explain the concepts of first aid and emergency evacuation. Participants were also given a basic understanding of personal safety and life-saving techniques. It was attended by 24 delegates.

Northern Region

11 April '14: Training Program on Quality Circles

Quality Circles (QC) consist of a small group of employees, form the same work area, who voluntarily meet at regular intervals to identify, analyse, and resolve work related problems in their respective functions. This one day training program was conducted to promote quality circles and help delegates increase their ability to identify and resolve problems, sharpen skills to improve productivity, promote organisational development through total employee involvement, promote team building, improve bottom-line by cost reduction through quality and promote the QC movement with the organisation in a systematic manner.

22 April '14: Training Program on Visual Management, New Delhi

The program explained the importance of visual management and how a visually managed factory can be created at the workplace. This can be achieved by adopting the visual management technique, one can improve quality, reduce changeover time, improve safety, increase employee morale and help in reducing storage costs, cycle time and machine down time. These concepts were shared with participants in a focussed manner.

25 April '14: Training Program on Single Minute Exchange Dies (SMED), Rudrapur



This one day program focus on CMED and its positive impact on productivity of manufacturing units. SMED provides rapid and efficient way of converting a manufacturing process from running the current line of production to moving to the next process. The program was designed to introduce this concept to people involve on the shop floor, while it was also conveyed as to how the concept could be extended beyond manufacturing to stores and logistics.

16 May '14: Training Program on EMS and OHSAS, New Delhi

The program covered five basic principles of environment management systems (EMS), commitment and policy, planning, implementation and operations, checking and corrective action and management review. Apart from managing hazardous wastes, the participants were introduced to the idea of using EMS as a tool to promote operational control and employee stewardship. Occupational Health and Safety Assessment series for management systems was also explained to the delegates highlighting how OH&S risks are controlled and performance improves by adopting these systems.

18-20 June '14: Workshop on Enhancing Project Management Capability, New Delhi

To overcome emerging challenges like responsiveness, timely execution and closing of projects, ACM with the IPO forum organised a three-



day workshop to provide participants an awareness of good practices in Project Management for projects of any scale. It also included an understanding of essential elements, including the leadership role of the project manager, project planning, risk management and stakeholder engagement.

4 July '14: Training Program on 5S – The Way of Life, Manesar (Gurgaon)

The objective of the program was to inform, motivate and bring about excellence in the shop floor. It trained the participants on the key essence of 5S and its influence on quality and productivity thereby being a major change management tool. 47 people participated in the program

25 July '14: 11th Northern Region Quality Circle Competition, New Delhi



The Competition was held in three concurrent stream with 3 sets of jury members. 54 companies from the region participated with around 350 delegates visiting to witness it.



31 July '14: Training Program on Process Capability, New Delhi

The program focused on explaining the concept of process capability as a measure of robustness for the process and its ability to deliver the products within specifications consistently. This is achieved by using statistical process control techniques, which will access the process behaviour and even predict the possible level of rejects.

13 August '14: Training Program on Cost Reduction, New Delhi



This program shared an approach for systematically reducing costs by identifying opportunities in different areas like 3M usage and Value Stream Mapping – VSM, VAVE, Process engineering and Scrap reduction. The program highlighted three main analytical tools for identifying cost reduction opportunities including contribution margin analysis, breakeven analysis and operating leverage analysis. 22 September '14: Workshop on Quality Assurance and SPC

The workshop elaborated on the basic parameters of performance ie. PQCDsME and established the primary objective of quality to be the provision of zero defect products and services to the customer. The method of improving operations through use of 'cost of quality' was also discussed. The concept of statistical process control (SPC) was explained in detail and its applicability beyond manufacturing process to other measurable business processes. 15 October '14: Training Program on Advance 7QC Tools, New Delhi

The program was aimed at training delegates on Advance 7QC tools, which is a method to analyse process, based on the thinking approach and identify potential causes to resolve problems related to process and product. It was attended by 13 participants.

28 October '14: Training Program on Enhancing Supervisory Skills, Pantnagar

The workshop provided the participants with techniques and skills to enhance their effectiveness as supervisors and established the critical role played by the supervisors as the link between planners and doers. The effort to right skill supervisors was imperative as in the changing business environment the supervisors play a critical role in maintaining the momentum of improvements at the ground level. 21 people participated in the program

30-31 October '14: Training Program on SMED and Poka-Yoke, New Delhi

This two day program highlighted SMED as an approach to overcome or reduce losses due to changeovers. This Japanese methodology has improved company efficiencies by reducing set-up, adjustment and change over times to a large extent. In addition, the fundamental of Poka Yoke, another Japanese technique, which is primarily for error proofing of processes, was also shared with the participants. There were 17 people who attended the training.

18 November '14: Training Program on Productivity and VAPCO Enhancement through Waste Elimination, New Delhi

Waste elimination is a fundamental aspect of lean manufacturing and Toyota Production Systems (TPS). TPS identifies 7 types of wastes in a manufacturing system and there has to be continuous focus on elimination of these wastes. This program imparted an understanding of the seven types of wastes and their elimination to improve productivity and value added to personnel cost (VAPCO) of companies. The training was attended by 20 participants.

19-10 November '14: Final Assessment and Certification Ceremony of 14th Batch of Six Sigma Black Belt, New Delhi



After an extensive 6 months training the 12 participants from 7 companies were conferred the Six Sigma Black Belt Certification for successfully completing the final assessment exam. With this ACMA Northern Region has created a total of 243 Six Sigma Black Belts who have completed 412 projects with a saving of Rs.177 million.

20 November '14: Training Program on Daily Works Management Practices, Pantnagar

It was made clear how 'daily works management' is essential to all organisations and it is a proven model for managing the processes with local resources in a team environment. The team defines, standardises, controls and continuously improves the process, without constant senior management direction.

27 November '14: Training Program on Safety, Manesar

The program was conducted to integrate Tier 2 and

Tier 3 suppliers to OEMs and Tier 1 suppliers in terms of practices followed to preserve safety standards in operations



2 December '14: Training Program on 5S, Pantnagar

This was organised to train participants on '5S' and to motivate the personnel to realise the efficacy of '5S' implementation in bringing about overall change in the organisation

17 December '14: Training Program on Vendor Management Systems (VMS) & Sharing of Experiences Visit to Lakshmi Precision Screws, Rohtak Vendor Management System is aimed at increasing the efficiency and the effectiveness of managing the procurement process right from vendor identification, selection, to monitoring the performance and quality. The training program was combined with a visit to shop floor facilities at Lakshmi Precision Screws to understand the best practices implemented by member companies at their facilities.

17 December '14: Training Program on Vendor Management, Selection, Auditing & Upgradation, Pantnagar



This was designed to train participants in analysing supplier's problems and adopting solutions likewise. It helped develop cooperative relation with suppliers, which could lead to reduction in cost of procurement, reduce inventory, reduce cycle times and achieve mutually beneficial relationships. It also

supported in developing a culture where suppliers are accountable for quality and timely delivery in the organization. This was attended by 15 participants.

19 December '14: Training Program on Flexible Manufacturing Systems (FMS) & Sharing of Experiences Visit to Abilities India Pistons & Rings, Ghaziabad



The program introduced participants to Flexible Manufacturing Systems (FMS), which helps provide companies the flexibility to produce several parts simultaneously using high levels of automation. It enables short lead times and small batch sizes while preserving all the benefits of mass scale production. The session was held at the facilities of Abilities India Pistons and Rings and included a shop floor visit

23 December '14: Training Program on Attitude Development, Manesar

The course covered topics such as self-motivation, how attitudes influence behaviour, importance of attitude to make life successful, and the balance theory in job involvement and commitment. It also included a short presentation from faculty of Sri Sri Ravi Shankar's institute – Art of Living

13-14 January '15 (Module 1): Quest for Quality (QFQ) – Methodology for Improvement Identification and Execution in Manufacturing Processes, New Delhi

This new initiative is primarily a shop floor improvement program. The program was aimed at educating managers, supervisors and workers on all aspects related to quality. The program delivering methodology was broken into three phase. At the end of the first module, participants were trained in identifying and understanding the problem areas; pin pointing the causes for the problems and the techniques to monitor and control the processes. Further, the faculty visited the participants companies on 16-17 February '15 to hand-hold and support them in their quest. During the second module held on 9 March '15, the participants shared their experiences and learnings in completing the projects taken by them.

16 January '15: Training Program on SMED and

Manufacturing Excellence through Waste Elimination, Pantnagar

The program highlighted SMED and Waste Elimination, both of which are critical to the industry. The 7 detailed wastes were introduced to the participants. At the end of the program managers of member company gave a live examples, which allowed participants to get better understanding.

21 January '15: Training Program on Daily Work Management & Sharing of Experiences with a Visit to Mindarika Pvt. Ltd, Manesar

In essence, the daily work management is an application of PDCA to operate in a repetitive, systemic way. The main topics covered were Hoshin Kanri, policy deployment, vision/mission/strategy, managing points and checking points, value addition, Kaizen, PDCA, roles and responsibilities, functions of management, KRAs and KPIs. The participants were taken for a plant visit to Mindarika where they were given detailed understanding of how 'Daily Work Management' is implemented on their shop-floor

28 January '15: Training Program on Visual Management & Sharing of Experiences Visit to Sadhu Forging Ltd, Faridabad



During the program participants were introduced to the concept of visual management, which is a tool that provides clarity and transparency of information. It aims to increase efficiency, effectiveness, and transparency of business processes.

To get first hand experience, the delegates undertook a plant visit to Sadhu Forging Ltd.

14 February '15: Training Program on Finance - Developing an Effective Business Plan, New Delhi

Participants were taught how to use these modelling techniques and sensitivity analysis and how this would make an impact on the financial performance.

16-17 February '15 and 9 March '15: Plant visits and Module II of the Quest for Quality Program, Delhi NCR There were 19 participants from 10 companies. The faculty visited the companies in February to support them in their shop floor problem solving projects and also guided them further in resolving issues related to

these. The Module II was held in March and participants made presentations on the projects undertaken by them and shared their observations



19 February '15: Third SMED Competition, New Delhi

Single Minute Exchange of Dies is one of the many lean production methods for reducing waste in the manufacturing process, which can also be extended to related processes like stores and logistics. The objective of this competition was to help companies view, understand and take learnings through actual case studies from participating companies to help reduce their non-value added activities. 11 companies participated.

2 March '15: Interaction with Principal Secretary and Additional Secretary of UP Government and the CEO of Greater Noida Authority, New Delhi

Mr Mahesh Gupta, Principal Secretary, Mrs Kanchan Verma, Additional Secretary and Mr Rama Raman, CEO Greater Noida Authority, Government of UP met ACMA members at the EC Meeting. Discussions were centred around concessions and subsidies provided by the Government, while members highlighted certain challenges facing the state.

10-11 March '15: Problem Prevention and Control Method using Monte Carlo Simulation Techniques - Batch 1, New Delhi

This two day workshop introduced the Monte-Carlo Method, a computerised simulation techniques that identifies process variations at design stage by simulating plant operations. This helps set the correct tolerances for product or process dimensions at the design stage. 21 participants from 12 companies attended the workshop

14 March '15: One Day Training Program on Advance 7QC Tools, Pantnagar

The faculty explained advance 7QC tools managers. These tools that have been put together by a set of Japanese quality professionals Most of these are qualitative tools and do not use numerical data and rely more on visual depictions that help managers.

SOUTHERN REGION

7-9 April '14: Launch of 3rd Batch of Six Sigma Green Belt Training Program

The Module 1 of the workshop was attended by 16 delegates from 8 companies. Participants were introduced to improve methodology in six sigma initiatives, how to select and prioritise improvements, understanding the problem, observation and data analysis, identification of suspected sources of variation, measure and analysis of data based techniques to pinpoint causes.

11 April '14: Workshop on Costing and budgeting, Bangalore

This program focused on non-finance executives and was held at Aditya Auto Products and Engineering (India) Private Limited. It covered various types of costing: direct and indirect, fixed, variable, differential costing, marginal and full costing, standard costing and variances. Also looked in calculation of returns and budgeting.

17 April '14: Campus recruitment of skilled and trained manpower, Chennai

This recruitment drive for skilled and trained manpower provided 15 weeks training to 43 mechanical, 28 electrical and 10 civil engineers at TVS Training and services. There were interviews as well. The module included lessons on industrial automation, CAD/CAM and CNC machining, production drawing and GD&T, manufacturing systems, quality systems, material handling and maintenance management, supervisory management, material management, industrial electrical and industrial electronics, communication skills and soft skills

22 April '14: Visit to Continental Automotive (India) Pvt Limited, Bangalore



Continuing to foster the process of sharing of best practices, a 17 member delegation visited

Continental Automotive where they were exposed to the business and history of the company. It also included a detailed plant tour that helped delegates absorb the underlying processes and practices.

22-23 April '14: Workshop on APQP and PPAP

In this two day workshop, definition, goal, objectives and benefits of APQP were discussed and detailed step by step approach to APQP and control plan methodology was taught. For PPAP, an introduction, purpose, applicability and approach, quality certification requirements, comparisons with older techniques, production runs, and submission levels were discussed.

13-14 May '14: Workshop of Process and Design in FMEA

The 2 day workshop helped participants understand the process to be followed and adopted while utilising the FMEA tools for process and design. At the end of the meet, a test was also conducted to gauge the knowledge depth of the delegates

23-24 May '14 & 9-10 June '14: Internal Auditors' Training, Coimbatore

Module 1 of this four day program was conducted at Roots Industries India Limited. It covered aspects of both EMS and OHSAS standards including evolution of standards, quality definitions, QMS principles, goals of EHS, importance of the process benefits of EHS, requirement of EHS systems, establishing EHS systems, documentation, implementation and guidance.

Module 2 covered topics like audit, its purpose, definition, audit requirement, steps in the auditing process, basic approach of auditing and interview techniques for auditing. At the end of this, participants were given an internal evaluators examination and 15 candidates got certified.

12 June '14: Interaction with Smt Ratna Prabha, Additional Chief Secretary, Government of Karnataka, Bangalore

The delegation briefed her on the status of the industry and the difference made by ACMA along with the Department to enhance the investment climate of the state through automotive sector. She was appraised of the challenges and opportunities. On her behalf, she confirmed that the department would fully assist in setting up of parks to facilitate automotive and component manufacturing.

13 June '14: Workshop on Low Cost Automation, Chennai

The workshop held at the WABCO plant, showcased low cost automation ideas and implementations through

case studies. Three members shared their experiences with the participants. The 27 participants gained insights from these presentations and visited WABCO.

17 Jun '14: Workshop on low cost automation, Bangalore

The workshop covered topics like the need for automation, the tools required and types of automation – CNC Automation, SPM Automation, belt conveyor automation, and automation of conveyors and pallet. These were explained through videos. The program emphasised that low cost automation was only possible at a place where production happens and with the full assistance of people on the shopfloor. The interactive workshop was attended by 21 people.

20 Jun '14: Special Session on Changes in Companies' Act 2013 and its implications, Bangalore

Experts from KPMG apprised members on the changes in the act. It was an interactive session where the experts used examples to elucidate their points.

24 Jun '14. Visit to Honda Scooters and Motors India, Narsapura



This plant is one of the largest in Asia that provided a good learning platform for delegates in terms of project execution, speed, productivity and quality. The HMSI team shared their experiences and best practices related primarily to skill mapping, quality and safety.

12 July '14: 9th Quality Circle Competition, Chennai

59 teams participated in the competition and were divided into three streams. The event was adjudicated by eminent jury members from OEMs and Quality Circle Forum of India. The exercise was a good knowledge sharing platform and brought in

high levels of bonding and confidence amongst team members and management. All participants were given a participation certificate, while winners were commended with trophies.

7 August '14: Training Program on Kanban – Toyota Kirloskar Auto Parts, Bangalore



The visit to the Toyota facility was organised for those companies who wanted to adopt Kanban at their facilities and understand the pros and cons of the technique. The TKAP team highlighted the principles of Kanban and conducted a mock group exercise for participants to better understand the basics and implement the concepts at their workstations.

21-22 August '14: Two Day Program on Calibration – Roots India, Coimbatore

The training program covered topics like meteorology and testing lab, awareness on QMS and Control of monitoring and measuring equipment, terminology on calibration, length measuring tools, calibration procedures for vernier calipers, micrometer, dial gauge and clip gauge, mass calibration and pressure calibration and fixing of calibration interval and interpretation of reports including acceptance criteria. Delegates had to undertake pre-training and post-training evaluation. Successful candidates received a joint certificate from ACMA and Roots Meteorology and Testing Laboratories.

23 August '14: Ninth National Quality Circle, Bangalore Quality Circle is a platform that promotes synergy amongst people and builds team strength. While in competition, the participants work together to improve and simplify their work area and processes to enhance quality and customer satisfaction. 10 teams from across regions secured different awards.



24 September '14: Conference on Smart Manufacturing, Bangalore

Laser is getting rapidly adopted by the automotive sector, due to its economical pricing and production. ACMA invited experts from the laser industry to talk about latest trends in Laser technology, flexibility, safety and efficiency. Application and usage of laser technology was covered during the conference. It was well attended with 40 participants



18 September '14: Learning from Best Practices – Visit to Sandhar Technologies, Hosur

In continuation of efforts to promote sharing and learning from peers in the industry, a 10 member visit and interaction was organised with Sandhar Automotives, Bommasandra. The company shared



their experience, knowledge and benefits learnt from the ACT advanced cluster program, on 5S, visual management, SMED and others implemented in the plant.

24 September '14: Problem Solving using 7QC tools at Bimetal Bearings, Coimbatore

The training program primarily provided knowledge and expertise in solving problems using statistical tools. It also instilled an in-depth practical understanding of concepts and methodology related to 7QC tools. This was explained using case studies and issues related to certification standards on quality were also discussed. The program was attended by 13 members

26-27 September '14 & 20 November '14: Two days training program on Calibration principles and techniques followed by a Practical Session, Chennai

This training program, organized in association with Roots Metrology & Testing Laboratories covered topics like Meteorology & Testing lab, awareness on QMS & Control of monitoring and measuring equipment's, terminology on calibration, length measuring tools, calibration procedures on Vernier calipers, micrometer, dial gauge and slip gauge, mass calibration, pressure calibration and fixing of calibration interval and interpretation of reports including acceptance criteria.

A test was conducted at the end of the theory and practical session. Successful candidates were issued a joint certificate from ACMA and Roots Meteorology & Testing Laboratories.

15 October '14: Annual Regional HR Conclave, Chennai

This Annual Regional HR Conclave of ACMA with the theme on 'Building a Great place to Work' witnessed 48 delegates from 19 companies. It comprised three panel discussions on high potential leadership development, taking charge of talent conversations and making manufacturing careers attractive for young people.



29 October '14: Visit to Scania Commercial Vehicles India Pvt. Ltd & Aisin Automotive Karnataka Pvt. Ltd, Bangalore

The Scania India plant at Narsapura is known for the implementation of best practices on its shopfloor. The Company specified the desire to increase localisation and discussed about their quality requirements. The shop-floor visit exposed the delegates to the highest qualities of training and standardisation adopted by the company.



At Aisin, delegates were exposed to the strong Japanese focus on visual management, kaizen, kanban and other TPS modules. The Company also shared their experience on setting-up of its plant in India.



7 November '14: Training Program on improving productivity through elimination of hidden costs at Pricol, Coimbatore

The program covered topics such as, identification of non-value added activity, cost of poor quality, 7 wastes, 3M, kaizen, 5S, Poka Yoke, value stream mapping, total productive maintenance, overall equipment effectiveness, 16 manufacturing losses, 8 pillars of TPM, cycle time reduction and lead time reduction. Apart from the above topics, there were practical activities to help delegates understand the concepts. 21 delegates from 5 member companies participated in this program.

12 November '14: Sharing of Best Practices and visit to Devilog Systems (India), Bangalore



The Company's quality processes improved significantly with the support of its primary customer

Bosch's vendor development program. With active participation in the cluster programs, Lean Manufacturing, Visual Management, 5s, Kaizen, Poka Yoke, Inventory management, total employee involvement has helped Devilog grow and sustain its place in the industry. The Plant visit demonstrated how the cluster program had revolutionized the working at the facility and in the company. Visiting members had the opportunity to witness some of the best visualization, Kaizen Gallery, Poka -Yoke and do it right concepts.

20-22 November '14: In-house Training Program on Six Sigma Green Belt at Tube Investment of India, Chennai

The module one of an in house Six Sigma Green Belt certification training program for its member company Tube Investment of India was conducted, which covered topics like How to identify problems and solving it by using Shainin methodology; Splitting generic problems into specific problems; Defining the problem, understanding the problem and Past data analysis to identify the possible cause(s) for the problem.

21-22 November '14: One Day Training Program on Problem Solving using 7QC tools in Tamil, Chennai

The training was attended in two batches – first batch of 22 members on November 21, 2014 and second batch of 24 members on November 22, 2014. The topics covered included introduction to problem solving, statistics, 7 QC tools, detailed interpretation of each quality tool, case studies on each quality tool and usage of 7 QC tools in problem solving. The program was designed to provide knowledge and expertise in solving problems using statistical tools and also to provide an in-depth, practical understanding of concepts and methodology adopted related to 7QC tools.

4-5 December '14: Training program on Statistical Process Control (SPC) & Measurement System Analysis (MSA), Coimbatore

This two day training program organised at Roots Industries detailed out concepts of SPC and MSA. SPC is a key component of Total Quality initiatives and ultimately seeks to maximise profit by improving product quality, improving productivity, streamlining process, reducing wastage and reducing variation. Measurement System Analysis evaluates the test method, measuring instruments, and the entire process of obtaining measurements to ensure the integrity of data used for analysis (usually quality analysis) and to understand the implications of measurement error for decisions made about a product or process.

13 December '14: 6th Kaizen Contest, Bangalore



Various participating companies showcased Kaizen in the areas of Quality, Cost, Delivery, Productivity and Safety. 44 Kaizens from 24 companies were presented during the day which included 3 teams from 2 SSI companies, and had 30 delegates. Several awards were given out.

19 December '14: Workshop on Managing Customer Complaints, Bangalore

The topics at the workshop included importance of handling customer complaints, relevance of solving in TS 16949, techniques to analyse complaints, PDCA Cycle and corrective measure to handle unhappy customer.

The workshop had presentation, videos, case studies, group exercise and interactions. Various tools available to handle customer complaints like 635 brainstorming method and others were demonstrated during group exercises.

23-24 December '14: Training program on Statistical Process Control (SPC) & Measurement System Analysis (MSA) in Tamil, Chennai

This program was conducted in the local language, Tamil, for the ease of members and it covered key concepts of SPC and MSA

9 January '15: Visit to Harita Seating Systems, Hosur



10 participants represented the ACMA delegation to Harita Seating Systems Ltd. The objective of the visit to the company was to share best practices at shop floor and low cost automation among ACMA members. Details of the VSME Program, Visionary Small & Medium Enterprises a joint program by CII and JICA, were shared. The effective use of material

and information flow and its benefits were illustrated. Various projects in Low Cost Automation and process improvements were explained.

23-24 January '15: In house training on Statistical Process Control (SPC) at Pricol Ltd, Coimbatore

Two day in-house training program covered the types of process control, definitions of mean, mode, median, range and standard deviation, identification of special causes, process capability

28 January '15: Visit to Roots India, Coimbatore

This one day training program focused on improving productivity, quality, safety, cost and delivery through Kaizen practices along with a visit to the shop floor of Roots Industries India Limited.

30 January '15: Train the Trainer Workshop, Bangalore

The training covered areas on knowing your participants / audiences, understanding participant's, learning styles, listening skills, understanding trainee needs, effective use of role-plays, case studies, presentation skills and styles. The trainer used presentation, videos, case - studies and group exercises for better effectiveness of the program. 14 participants attended this workshop. Two non-member companies also joined this workshop.

11th February '15: Program on 5S in Kannada, Bangalore

This program was specifically designed in Kannada for the shop floor employees with an intention to impart and reinforce the tools and concepts of 5S in the local language for better effectiveness. The participants learnt about 5s and were motivated to apply the same in their work area. 14 participants attended and benefitted from this program.

14th February '15: 4th SMED Competition, Chennai

10 companies representing 18 teams participated in the competition. Through the competition, the core strength of SMED was disseminated to participant. It was conveyed how besides meeting varied customer demands and cost savings through inventory reduction, it also improves equipment utilization, quicker response to demand changes among many others. The animations displayed by various teams in their presentations was appreciated by the jury.

18th February '15: Session on latest trends & development in injection molding and material behavior, Chennai

This session with Prof. Dr. Jurgen Wieser, Fraunhofer LBF, Darmstadt on latest trends & development in

injection moulding and material behaviour. This included trends followed in injection moulding and new materials development process using machine technology and long fibres and also explained new design by tooling technologies outstanding design capabilities and surface quality. The session was attended by 14 delegates from 9 companies.

25th February '15: Visit to Yazaki India Ltd, Bangalore

This visit was organised for member companies to show the best practices followed at its facility to ACMA members. The company focused its visit on Kanban, Bar-coding & Floor Display Management System. At the Plant visit delegates witnessed one of the best visual display, 5s and planning mechanism, Kanban was used at its best for effective communication. Floor management display system, weak-point management system, bar-coding systems was appreciated by all participants. The importance of OBAYA, employee engagement team work was very evident during the visit. In all 13 participants represented the ACMA delegation. 25th and 26th February '15: Training program on Geometric Dimension and Tolerancing (GD&T), Chennai

The training covered topics like introduction to GD&T, Engineering Drawing and Tolerance, Geometric Tolerancing Symbols and Terms, Rules and concepts of GD&T, Form Control, Datums, Orientation Controls, Tolerance of Position, Concentricity and Symmetry Controls, Runout controls and Profile controls

The participants were able to understand the hierarchy of geometric tolerancing and recognize the proper application of GD&T. It also helped the participants to calculate geometric tolerances and boundaries along with GD&T inspection skills and knowledge. 13 delegates from 7 companies participated in the training program

26th February '15: Training program on process failure mode and effect analyses (PFMEA) at PRICOL Ltd, Coimbatore

16 delegates from 5 companies participated in the training, which facilitated the participants to understand the use of Failure Modes Effect Analysis (FMEA), the steps to developing FMEAs, summarize the different types of FMEAs, and learn how to link the FMEA to other Process tools

9 March '15: Meeting with Government of Andhra Pradesh on recommendations for the auto and auto component policy at Commisionarate of Industries, Hyderabad

ACMA participated in a consultation meeting with the Government of Andhra Pradesh and other

stakeholders for providing inputs and recommendations to the formulation of Andhra Pradesh auto and auto component policy. In addition to policy inputs, the Government sought inputs to promote innovation and R&D in the state.

12 March '15: Regional Convention on Safety & plant visit to TVS Motor Company Ltd, Hosur

The visit to the TVS Motor Company Limited Plant showcased the application of best practices in safety in the plant. The 27 participants and the speakers from various ACMA member companies found the program a platform for cross learning and appreciated the initiative.



18 March '15: 5th Annual Safety Convention at Ford India Private Ltd, Chennai

The Region has been celebrating March as the Safety Month by promoting the safety culture amongst its members and the industry at large. The convention saw four presentations made in the areas of plant and machinery safety, electrical and fire safety, material handling safety and behavioural Safety. The guided plant tour at Ford gave an opportunity to the delegates to observe the various safety measures implemented by Ford at its facility. The visual management at ford plant was appreciated by the delegates that included Ford Production system with focus on safety, quality, delivery, cost, people, maintenance and environment.

19 March '15: Special Session on mapping white collar productivity, Chennai

The session explained concepts like internal and

external customers, key responsibilities, measuring success, and meeting overall organizational objectives, bill of activities and increasing speed and quality while reducing costs. It suggested employees to understand why their function exists and align it to business outcomes. The session also highlighted that while defining job descriptions is important, it is equally important to update and re-design the job descriptions with time. The event was appreciated by 12 participants from 9 member companies.

WESTERN REGION

15-16 April '14: Two day workshop on 'Statistical Process Control' and Bharat Forge plant visit, Pune

This was organised with the objective of improving participant's ability to analyse manufacturing processes at their facility and enhance its effectiveness. It exposed participants to SPC tools that could track process performance on a real-time basis, allowing for corrective actions to be taken before failure occurs. With the objective of showing the participants the actual implementation of SPC at the shop floor after going through the class room training, a visit to Bharat Forge was organised for the participants.



22-23 April '14: Training Program on 'Daily Work Management' in Gujarati, Ahmedabad

Catering to the people involved in the shop floor activities such as Production, Quality, Production Engineering, Managers, and Sr. Engineers / Engineers, a training was organised that covered topics on daily work management including role clarity, functions of management, responsibilities of management, standards and exactness, business process diagram and method of daily work management

6 May '14: Visit to Gabriel India and Mahindra & Mahindra, Nashik

The visit comprised a 27 member delegation. At Garbiel, the participants got the opportunity to visit



the assembly line of front fork and shock absorber, R&D, raw material inspection site and kaizen gallery, which highlighted the high operating quality of the company. The plant has been twice awarded FICCI Quality System and has also been awarded for TPM & TQM Excellence by Bajaj Auto Ltd. At Mahindra, the delegates got to visit the 'Xylo' (a SUV product) body shop and assembly line. The highlights of the plant was to witness automation, TPM policy and preventive maintenance



13-14 May '14: Two Day Workshop on 'Geometric Dimensioning and Tolerancing (GD&T)', Pune

With the twin objectives of teaching the standard method of interpreting the Geometric Dimensioning & Tolerancing given in the drawing and how inspection gauges and fixtures have to be designed based on the GD&T drawing. The workshop covered topics like Engineering Drawing Dimensioning and Tolerancing philosophy, legal issues pertaining to part definition & GD&T, basic dimensioning practices, defaults for Tolerancing screw threads, splines and gears, actual mating envelopes, location tolerances, runout tolerances and profile tolerances

20 May '14: Workshop on Productivity: Importance, Measurement and Improvement in Gujarati, Ahmedabad

The workshop focused on educating the participants about productivity improvement principles and steps to implement the productivity improvement plan to increase productivity through interactive sessions and group exercises. Topics discussed included Importance of Productivity, Relationship between Productivity & Profitability, The 3P Model, concept of efficiency & effectiveness, productivity measurement models, process mapping, sphagati diagram, production levelling, productivity appraisal and productivity improvement & improvement techniques

21 May '14: Final Assessment & Certification Ceremony of Certification Program on Value Stream Mapping (VSM), Mumbai

The program was conducted over five days and was divided into five modules, spread over a six month period. All participants made presentations on the projects undertaken and the improvements made over the period. The effectiveness of the analysis done and actions implemented were checked by the faculty

20-21 June '14: Two Day Workshop on 'Plant Machinery – Operations & Maintenance', Pune

The workshop was aimed to help Engineers, Plant Managers, Supervisors from projects, operations, maintenance, stores & purchase so that they can take appropriate actions to achieve higher plant equipment utilization, impart knowledge and understand the effects on plant life and performance. The workshop, conducted through discussions, audio visuals, and Case studies, enabled participants to understand gears, bearings & plant machinery, understand factors effecting equipment performance, care to be taken for equipment lubrication, understand lubrication failures, and operation & maintenance and troubleshooting of problems.

9 July '14: Launch & Module -1 on 'Systematic Problem solving', Pune

The 1st Batch of Systematic Problem solving (with Shop floor facilitation) Certification Program was organised as a 6 days program divided into 3 Modules, spread over a period of 3 months (July – September 2014). It included on-site facilitation of problems. The objective of the program is to impart the scientific skill to pinpoint the root cause(s) and permanently solve the problem experienced in manufacturing, which is achieved by focusing on the four critical aspects of problem solving - Definition,

Measure & Analysis, Improvement and Control. The module -1 of the program was held from July 9-10, 2014. The on-site facilitation of the problems was done in August followed by module-3 and certification ceremony in the month of September.

16 July '14: 9th Quality Circle Competition, Pune

Quality Circle Competition, the mega annual event has become one of the most popular platforms to gain exposure, motivate employees and enables team building with a focus on enhancing the ability to solve problems at grass route level, promoting QC movement within the organization and creating awareness about quality among ACMA members and the auto component industry. Thirty Eight participants attended the competition.



21 July '14: Training Program on Statistical Process Control (SPC) and SQC (7 QC tools) in Gujarati & English, Ahmedabad

The objective of the training program was to develop data analysing and related corrective action qualities to achieve organizational benefits. The key content of the program were an overview & importance of SPC and SQC for quality and productivity improvement; data and its relevance; tools and techniques for SPC and SQC and its practical application; cause and effect analysis for solving day to day problems; managing processes without defects; case studies; and continual feedback for assessment of understanding.

25 July '14: Western Region HR Forum meeting, Pune

The meet, organised to provide a platform for cross learning and exchange of ideas for the professional

HR community, featured presentations and discussions on recent wage settlement and changes in structure brought about at Bharat Forge and on linkages between industry and academia. The meeting was attended by 60 HR professionals.

28 July: Workshop on Product Liability, Warranty, Recall, Mergers & Acquisitions, Pune



The workshop was organized to understand the global norms, regulations and issues related to liability, distribution of products and risks, warranty and recall, and Mergers & Acquisitions. The eminent professionals from the industry, insurance company and risk management advisory presented their experiences with the participants on these topics.

13-14 August '14: Two Day Workshop on Production Part Approval Process (PPAP), Pune

The objective of hosting this two day workshop was to understand how PPAP is important and how execution of all activities helps the organisation in timely product development and supply while keeping costs under control

22 August '14: Workshop on Failure Mode Effect Analysis (FMEA), Ahmedabad

FMEA provides an analytical approach, when dealing with potential failure modes and their associated

causes. With an objective to inculcate this amongst



participants, the program covered topics like FMEA Process Overview, Necessity of FMEA, FMEA Terminology, FMEA Development Methodology, Functions / Failure Modes / Effects of Failure / Severity, Causes / Prevention Controls / Occurrence, S.O.D. rating scales, Keys to Success and Efficient FMEA Development., Practical Application of the Process, FMEA Techniques and how to reduce RPN and Poka Yoke methods

5 September '14: Workshop on "Advanced Quality Tools for Problem Solving", Pune

The workshop was aimed to help managers, supervisors, executives of various departments of the organisation to introduce them to various new tools used for solving quality/management problems, set up & manage the systems necessary to solve major quality problems, train participants to think/anticipate about potential quality problems and eliminate defects before it occurs.

13 September '14: 2nd Kaizen Competition in Gujarat, Ahmedabad



This was organised primarily to provide an opportunity for knowledge sharing, networking and to uplift the morale of the employees. All leading manufacturers having plant in Gujarat participated.

During the event, manufacturers voiced common challenges being faced by the auto industry. This kind of platform also brings together local suppliers to actively explore ideas to achieve productivity and improve quality. In all there were 68 delegates including 46 contestants and awards were given to the winners.

25 September '14: Workshop on 'HRD & Its Linkage with Business - Tips to Operational Executives', Pune

The objective of the workshop was to establish the strong linkages that HR has with business and establishing its role in ensuring positive business results even under difficult business conditions. The key content of the program was Paradigm Shift (then & now); Change Management; Appraisal Systems, importance of communication & Teams, causes for the attrition and steps for retaining talent team building, and excerpts of Labour laws.

15 October '14: Training program on 'Leadership Skills & Team Building for Workmen & Supervisors' in Gujarati, Ahmedabad

The training was organized to enhance the level of understanding, responsibility and accountability of a workman and supervisor. It was conducted through lecture, presentation and group exercise.

21 October '14: Western Rgion HR Forum Meeting, Pune

This meet held at Bharat Forge focused on CSR. A presentation was made on various CSR initiatives taken up at Bharat Forge. It was explained how CSR is a close integration of the community's economic, environmental and social aspirations with the company's business goals and objectives. CSR aims to embrace responsibility for corporate actions and to encourage a positive impact on the environment and stakeholders including consumers, employees, investors, communities and others.

14 November '14: Workshop on 'Productivity Improvement through Line Balancing & Just In Time', Nashik

The workshop stressed on imparting an understanding of how to improve material flow, increase labour productivity through Line Balancing and Flow & Inventory Management using techniques of Just in Time. It was conducted through presentation, games and group exercises which was attended by 42 participants.

26 November '14: Workshop on Product Liability, Warranty & Recall, Mergers & Acquisitions, Ahmedabad

Eminent professionals from the industry, insurance company and risk management advisory shared their



experiences with the participants on various issues related to the product liability, warranty & recall, Mergers & Acquisitions. The workshop helped understand the global norms, regulations and issues related to liability, distribution of products and risks and Mergers & Acquisitions, which are critical to operations in a globalized business environment.

17 December '14: 5th Kaizen Competition, Pune



The competition was held to motivate and recognise the continuous efforts of the employees of member companies. All leading auto component manufacturers having plants in western region participated in the event and the competition saw record participation from 61 contestants.

10 January '15: 2nd Low Cost Automation Competition in Gujarat Zone, Ahmedabad



The event provided a unique opportunity and platform where ACMA members could showcase their achievements in the field of Low Cost Automation. Apart from showcasing the achievements, the event was also a key knowledge sharing forum that provided great opportunity for networking and uplift the morale of the employees. With most leading auto component manufacturers having plant in Gujarat participated in the competition. There were 45 delegates including 12 teams. The competition also saw participation from eminent OEMs present in Gujarat such as Ford India and Tata Motors.

17 January '15: 6th HR Summit 'People First-Business will follow', Pune

The theme of the summit was decided to address specific needs of conducting a human capital environment scan to help predict the future and to develop methods to understand skilling requirement and plan to integrate it with business.



The summit focused on discussions related to various aspects of Human Resource, its management and role in the present, uncertain and volatile business environment. Topics discussed included understanding the strategic role of HR in business development, HR's technological implementation, emerging paradigm shifts in industrial relations, role of CEO in providing HR direction, and people capability development. The summit saw record participation of 100 delegates from HR professionals including CEOs and COOs.

30-31 January '15: Two Day Workshop on 'Problem Prevention Using Monte Carlo Simulation Technique', Pune

Monte Carlo Simulation is a computerized technique that allows people to simulate the manufacturing

process without producing a single part. The objective of the workshop was to assess the rejection % from the process for a particular dimension. The Monte Carlo Simulation technique allows one to find out variations without producing any part and purely using simulation.

17 February '15: Workshop on 'Productivity Improvement through Line Balancing & Just In Time' in Gujarati, Ahmedabad

The workshop provided an understanding on how to improve material flow, increase labour productivity through Line Balancing and Flow & Inventory Management using techniques of Just in Time. It used interactive session coupled with group exercises. Further, to ensure that the concepts are clearly understood, a lean chart was presented, which incorporated all the elements of lean manufacturing and showed how these techniques can be used at plant to gain benefit.

24 February '15: Training Program on "Value Stream Mapping", Nashik

The training created awareness on value stream mapping as a lean manufacturing or lean enterprise technique used to document, analyze and improve the flow of information or materials required to produce a product or service for a customer. Value stream maps serve as a critical tool during the review process and can reveal substantial opportunities to reduce costs, improve production flow, save time, reduce inventory, and improve environmental performance.

13th March '15: 3rd Regional Low Cost Automation Competition (LCA), Pune

The competition was conducted for cross learning and to create awareness of Low Cost Automation as a technology that creates some degree of automation around the existing equipment such as tools, methods, people etc. using mostly standard components available in the market with low investment so that the payback period is short (less than a year). In all 24 teams from leading manufacturers of the region participated.



COMMITTEES

In this chapter, we provide a brief description of various committees highlighting their core objectives, scope and activity highlights for 2014-15.

List of Committees and Chairpersons for 2014-15

	Committees	Chairperson
1	ACT Division	Mr. Srivats Ram
2	ACMA Centre for Excellence	Mr. Arvind Kapur
3	ASDC Interface	Mr. Jayant Davar
4	Aerospace, Defence & Railways	Mr. F R Singhvi
5	Consumer Affair & Anti-Counterfeiting	Mr. Sriram Viji
6	Finance	Mr. Srivats Ram
7	Globalisation	Mr. Deepak Kapuria
8	HR, IR & Skill Development	Mr. Deepak Jain
9	IMTMA Interface	Mr. Vikram Mohan
10	Information Technology	Mr. Sanjay Malhotra
11	Knowledge Partner Engagements	Mr. A K Taneja
12	Membership	Mr. Sandeep Balooja
13	MSME	Mr. U S Ahuja
14	OEM Interface	Mr. A K Taneja
15	Past Presidents' Council	Mr. Harish Lakshman (Convenor)
16	Public Policy & Govt. Affairs	Mr. Ramesh Suri
17	Raw Materials	Ms. Shradha Suri Marwah
18	Supply Chain	Mr. Rattan Kapur
19	Sustainable Development	Mr. Sunjay Kapur
20	Trade Fairs & AutoExpo	Mr. Arvind Kapur
21	Technology, Safety & Regulatory Matters	Mr. Harish Lakshman
22	YBLF	Mr. Sanjay Labroo (Mentor)
		Mr Anmol Jain (National Co-ordinator)

SCOPE AND OBJECTIVES

AEROSPACE, RAILWAYS AND DEFENCE COMMITTEE

Given the Government of India's recent focus on promoting self-reliance, revamping procurement processes, increasing FDI allowances and harnessing the growth of local industry to service the demands for the aerospace, railways and defence sector, has led to a world of opportunities for the auto component manufacturers to diversify. This committee's activities are designed to support ACMA members to understand and leverage opportunities in these sectors in a newly evolving regulatory regime.

Set up in 2012, the activities of the Committee focuses on the following:

- Stronger net-working and engagement: The Committee has already initiated a great deal of networking with leading players, including OEMs, of all 3 sectors – Aerospace, Defence and Railways. The efforts have been particularly successful with the defence forces, where networking opportunities created have opened door for members to be suppliers to the army, navy and air-force of India
- Specialised Events: First Aerospace & Defence Summit was held on 4th August 2014 to strengthen relationships of the suppliers with the OEMs
- Engagement with Knowledge Partner: After detailed evaluation, the committee has appointed KPMG for a study on the aerospace and defence sectors in order to understand the opportunities and the way forward
- Study and Opportunity Evaluation Missions: Specific activities are carried out for interaction with large potential customers to gauge business potential as suppliers
- New Business Opportunities: Providing platform and disseminating information of new business opportunities and increasing awareness amongst ACMA Members^{IP}

CONSUMER AFFAIRS AND ANTI-COUNTERFEITING COMMITTEE

The ACMA Consumer Affairs Committee primarily addresses issues related to the aftermarket with a special focus on dealing with identification and prevention of counterfeiting

The Committee continues to periodically update the IPR Manual – a pan India directory of the aftermarket distribution channels.

On the issue of counterfeiting, there is special focus. It

has released a white-paper suggesting legislative improvements to combat counterfeiting. The committee regularly conduct IPR related seminars and road shows against counterfeiting and has been in regular dialogue with the Government ministries to make counterfeiting a non-bail-able offence.

‘Asli Naqli’ has been a popular and focused campaign against counterfeits. This has been highlighted in all auto component related events like the Auto Expo and ACMA Automechanika New Delhi. The Asli Naqli Road Shows are conducted in busy retail auto market clusters to educate retailers on visible dissimilarities in real vis-a vis fake products and also on potential punitive actions against sale of counterfeits. National level seminars, interactive sessions with the customs and senior police officers have been organised as a continued need to voice concerns against illegal sale and import of counterfeits in the country.

The Committee has also created an IPR Cell for ACMA members, which lists a set of attorneys who take forward assignments on service fee basis for work related to:

- Copyright, Trade Mark Patent and TRIPs registration.
- Custom related activities on fake imports
- Civil action

GLOBALISATION COMMITTEE

In terms of globalisation of the Indian auto-component industry, there is a three pronged strategy to achieve ACMA’s vision 2020. These include:

- Increase exports from the current USD 10 billion to USD 35 to 40 billion
- Increase revenues from overseas assets from the current USD 6 billion to USD 20 to 22 billion
- Increase count of Indian suppliers in global top 100 from the current lone figure to five by 2020
This is being pursued by adopting four specific areas of intervention

First, there are efforts on internationalisation of member companies by expanding linkages with global counterpart organisations. These linkages are developed by formulating a strong global network of ‘Association of Component Manufacturers’ in order to strengthen relationships, trade, build alliance and a platform of sharing some of the best practices; supporting each other in their respective events/ Summits/ Trade; Organising a Global Summit at regular interval with the support of other association partners, which could provide futuristic insight and a networking platform for global leaders. In addition, efforts at internationalisation of companies is being done by organising overseas and incoming trade

delegations, engaging expats and consultants at company level for cross cultural exchanges, and building on the India brand and showcasing the growing capability of the industry through participation at international conferences and symposiums.



Second, all support is provided to facilitate exports including extending ACMA's outreach to international domain and to create the “Made in India Brand” by continuing its efforts in assisting members through establishing and creating new linkages both in India and overseas market (OE and Aftermarket). This includes conducting buyer seller meets, cooperating with partner associations, cooperating with IPOs in India and organising tech expos. In this endeavour, the committee is researching on identifying countries or regions with potential for aftermarket and gauge interest. Efforts are being made to get funding support from relevant ministries for participation in these aftermarket shows.

Third, there is continuous Information sharing and learning. This includes:

- Inviting export awardees to share their experience and also to address export related issues like contract and INCO terms (international commercial term), risk management, logistical challenges and product liability at the regional level
- Sharing success stories of member companies on how they are able to break through in managing their footprints overseas
- Regular interaction with the existing MoU partners other international bodies by sharing information and publications as well as organising webinars on specific issues and challenges with regard to commercial practices, regulatory issues, IPR and patents



- Engagement with IPO forum in creating a marketing organisation and act as a facilitator in bridging the knowledge gap between the suppliers and its overseas customers. These forums also help fill gap in engineering capabilities
- Tracking of performance on overseas markets which may have an impact on the global outsourcing potential for Indian suppliers and also on other opportunities emerging in different countries

Fourth, is the organisation of International Trade Fair. The committee regularly participates in established trade shows and tech fairs. ACMA has now been recognised under MoC's Market Access Initiative Scheme (MAI Scheme) and Market Development Assistance Scheme (MDA Scheme) for funding support for various trade fairs participation worldwide and hold various events such as Buyers Sellers Meet, Reverse Buyers Seller Meet and others.

HR, IR AND SKILL DEVELOPMENT COMMITTEE

Recognising the present short comings of the industry and shortage of skilled manpower, the committee works specifically to address these challenges and devise solutions. To fulfil this, the committee:



- Engages with the Government at the centre and the state to explore new initiatives with regard to labour reforms.
- Industrial Relations – Given certain unfortunate incidents related to IR that have taken place in the recent past in the auto industry, the committee is working on the need to simplify and rationalise procedures pertaining to labour laws and its enforcement, which should bring in harmony and peaceful environment within the industry. For this, there are also efforts at research with external agents
- ACMA HR Excellence Awards – With the following objectives, the Committee would like to explore the possibilities to institute ACMA HR Excellence Awards
- To set a benchmark with respect to HR Practices
- To create a platform for showcasing the HR Best Practices being followed and get recognition

- To identify the gaps / improvement areas and provide objective feedback to participants
- To help participants to learn from other member companies
- To encourage organisations to adopt best practices
- Skill Development – Automotive Skills Development Council (ASDC) promoted by ACMA, SIAM and FADA under the aegis of the NSDC. The committee works closely with ASDC for the benefits of the members
- Works at the regional level with members to share best practices and create strong HR related networking platforms

INDIAN MACHINE TOOLS MANUFACTURERS' ASSOCIATION (IMTMA) COMMITTEE

The machine tools industry in India has been instrumental in supporting the engineering industry including those manufacturing auto-components by helping in setting up plant machine layouts. With advancements in technology and stringent product norms in global markets, the challenge for support from the machine tools industry has been mounting and there is an increased competition from foreign machine manufacturers.

The Charter of the ACMA Committee on IMTMA in 2013-14, included identifying and highlighting areas where the machine tool sector should focus to support and augment the competitiveness of the Indian Auto Component sector. For the Government's vision of 'Make in India', with manufacturing given a thrust area, the importance of the machine tool sector would increase manifold. While it would be challenging, the machine tool sector in India would have to compete with global players in Indian turf and even look at gaining new markets and customers through this drive. The IMTMA committee focuses on supporting this kind of development in the machine tools industry.

The activities of the committee focus on short term, near term and long term goals.

In the short term this includes efforts to:

- Build confidence amongst ACMA companies that use Indian machine tools
- Improve machine performance and reliability
- Offer low cost automation solutions/ frugal machines for standard tasks to ACMA companies.
- Organise platform for forging linkages between machine tool manufacturers-integrators-ACMA members for low cost / appropriate automation
- Organising knowledge seminars on machine tool technology/ reliability/improvement/ application engineering

In the near term this includes efforts to:

- Foster reliability
- Launch project management excellence programs
- Adopt standards for data collection and standardise implementation across IMTMA member companies.
- Detail machine performance benchmarking by IMTMA Companies
- SPM development

In the long term this includes efforts to:

- Promote joint cooperative development of new machines for ACMA Companies
- Develop a "Solution" based approach in IMTMA

INFORMATION TECHNOLOGY (IT) COMMITTEE

Promote, facilitate and increase adoption of Information and Communication Technology (ICT) solutions at member firms that will help ACMA achieve its vision 2020.

The key focus areas are people, process and technology.

On the people's front with a focus on developing human capital, knowledge capital and management priorities, the efforts are on educating senior management of member firms about the importance of ICT

In terms of process interventions, there are concerted efforts at fostering improvements amongst members on decision management, budgeting, planning, execution and business processes. The emphasis is on optimising business drivers like quality, cost and delivery, productivity and decision support. The Committee is also working on establishing processes to evaluate RoI on ICT and deploy only those ICT solutions that generate value.

For technology, the goals are to enhance viability, affordability, availability, and alignment with business that can deliver sustainable benefits like seamless integration of value chain, standardisation of processes, institutionalisation of procedures, automation of repetitive activities, optimisation of resources, and differentiation to gain competitive advantage

KNOWLEDGE PARTNER ENGAGEMENT COMMITTEE

ACMA has initiated engagements with nodal agencies related to Government matters to address the growth potential and challenges faced by the auto component industry. With the rapid evolution of

the industry the issues that need to be addressed have become much more complex and need a much higher level of micro-scoping. In this backdrop, the association has furthered its engagements with consultants and specialised knowledge service providers.

The committee for Knowledge Partner Engagements works on two broad objectives. First, it assists and advises the secretariat as a knowledge resource provider. Second, it provides guidance to ACMA in its endeavour to develop a comprehensive collection of documents and reports as per industry needs. The goal is to provide the membership with timely, relevant and critical information and resources that positively impact the industry.

To fulfil these objective, the Committee continues to operate at two levels:

The first comprises identifying a Knowledge Partner for ACMA who delivers a list of predefined deliverables. During 2014-15, Ernst & Young was the pre identified ACMA Knowledge Partner. The partnership will be reviewed for the next year.

The second involves of identifying Knowledge Partner/s who would be best suited to work with the association on specific identified subjects.

MEMBERSHIP DEVELOPMENT COMMITTEE

The objective of the Committee is to enhance the membership base, revitalise dormant and inactive members, and ensure periodic interaction with members for better services, and arrange programs to create awareness on ACMA services.



To fulfil these objectives, the Committee pursues activities that address four broad aspects of member relationships. First, it enhances engagement by arranging regular interaction with existing members. Second, it works on enhancing the membership base and bringing more companies from the industry into the ACMA fold. Third, is to create greater awareness, which includes programs targeted at increasing the awareness of services provided by the association. Fourth, is to sort out member grievances including resolving issues of existing members.

MICRO, SMALL AND MEDIUM ENTERPRISES (MSME) COMMITTEE

On one hand, the fast changing global economic scenario has thrown open many opportunities for MSMEs, while on the other, it has necessitated them to upgrade their competencies to meet increased competition with new products that has to be made available in short time. The MSME committee works primarily to align MSMEs in the auto-component industry with the evolving business scenario and integrate them with global supply chains.



To achieve this, the committee undertakes regular interactions with Micro, Small and Medium enterprise members, understand their requirements and meet with relevant bodies for redressal. The committee is also evolving specific programs for the benefit of MSMEs and facilitate their development by strengthening Tier 2 / 3s. In addition, there are regular interactions with the Ministry of MSME.

The objective of the committee is to take stock of and address issues of MSMEs on the following fronts:

- Finance – availability and utilisation
- Awareness on specific MSME policies by the Government
- OE, Tier 1, Aftermarket related issues covering exports
- Technology up-gradation related professional advisory
- Sharing of best practices

To fulfil, these efforts are made to create awareness on Government schemes of assistance specific to MSMEs, meet regularly with government agencies, identify and disseminate information on technology developments and promote innovation.

OEM INTERFACE COMMITTEE

Given the industry structure, a large number of Indian component manufacturers depend on either the OEM or on their JV partners for technical/product design capabilities. In future, product design, testing and validation capabilities are expected to become even more important as OEMs rely more on their suppliers for product design. Shortening product life

cycles, new products/variants and increasing localisation, drive these needs.

In addition to remain competitive globally, companies across the value chain need to work on raising capital, optimising capacities, upgrading technologies, build R&D competence across the ecosystem, develop managerial skills and promote worker skill development.

To facilitate these developments, ACMA has instituted a formal mechanism to work with SIAM and the OEMs through the Committee for OEM Interface. The Committee further strengthens the relationship between OEMs and the domestic auto component manufacturing companies. It continues to work with SIAM and the OEMs towards identifying strategic issues, addressing issues of common concern, sharing best practices and would serve as a bridge / forum for a healthy dialogue between ACMA and SIAM.

The Committee does not carry out activities or interventions directly. It brings back the issues and recommendations from SIAM and the OEMs to the Executive Committee and seeks the support of the regions or respective committees in ACMA to work with on specific issues or areas of supplier development.

Some of the specific issues being addressed by the committee include:

- The Committee addresses the challenges that the domestic suppliers, especially small and medium component manufacturers, have to face and work towards addressing the issues such as access to cost-effective capital, fluctuations in raw material prices, capacity creation, skilled resources, technology upgradation, material substitution and the aftermarket
- The Committee accesses the increasing competition from overseas suppliers, especially from LCCs. The Committee will also keep track of the steady increase in imports, especially from China and those countries with which India has signed trade agreements
- The Committee, through the OEMs and Tier 1 suppliers, is helping upgrade the Tier 2 and Tier 3 suppliers to world-class levels on all aspects of their businesses

PUBLIC POLICY AND GOVERNMENT AFFAIRS COMMITTEE

For the Indian auto-component industry to optimally leverage the opportunities available world-wide, it is imperative for the industry and the Government of India to partner in a positive manner and devise the regulatory environment that addresses the

requirements of all stakeholders without compromising the growth objective of the industry as a whole. This is the only way to ensure success, competitiveness and sustainability of the auto component industry in India.

ACMA continues to work proactively with the Government of India. This is ensured by participating as industry representatives on appropriate panels / committees / councils / working groups, and the like, and putting forward the industry's views and opinions to different ministries and government agencies in matters pertaining to Trade Policy and Promotion, WTO, Technology, and all such issues that impact the auto component sector. It also brings to the fore the opportunities that exist for members.

With the increasing and proactive role to be played by the association in Economic Affairs & Public Policy related matters, the association continues to strengthen its engagement with the following government Ministries / Departments:

- Development Council for Automobile and Allied Industries (DCAAI) - Department of Heavy Industry
- Development Council for the Machine Tool Industry - Department of Heavy Industry
- National Automotive Board - Department of Heavy Industry
- Inter-Ministerial Groups – Department of Heavy Industry
- Indo German Joint Working Group on Automobile Sector - Department of Heavy Industry
- India-Netherlands Joint Working Group on Automobile Sector - Department of Heavy Industry
- Financial Packages / Schemes for the industry - Banks & E.C.G.C.
- Fiscal Policy and Direct & Indirect Tax Matters - Ministry of Finance
- Safeguard Issues Directorate General of Safeguards - Ministry of Finance
- Anti-Dumping Issues Directorate General of Anti-Dumping and Allied Duties - Ministry of Finance
- Foreign Trade Policy, Export Benefits and related matters - DGFT, Ministry of Commerce & Industry, Ministry of Finance
- W.T.O. and related matters - Department of Commerce, Ministry of Commerce & Industry
- Trade Negotiations - Department of Commerce, Ministry of Commerce & Industry
- CMVR/Technical Regulations - Department of Road Transport, Ministry of Road Transport & Highways
- Periodic Meetings / Updates on Issues Impacting the auto component industry - N.M.C.C, Dept. of Heavy Industry, Dept. of Commerce, Dept. of Industrial, Policy & Promotion, Ministry of Finance, NITI Ayog, Ministry of Road Transport & Highways

RAW MATERIAL COMMITTEE

The Raw Material Committee deals with material related issues of members at various fora. To do this, the Committee has been addressing the concerns of members by interfacing with suppliers to understand issues like material shortages, price and quality. It is also collating information from members' on their material requirements and disseminating it to the supplier industry.

In the past, the Raw Material committee, has liaised with senior government officers specifically on price escalations that have required urgent government intervention. To understand new product developments and to understand the demand supply scenario, the committee has been organising regular interactions with the senior management of material suppliers.

Through the Committee, ACMA continues to bring out the monthly bulletin on ruling metal and commodity prices. It continues collecting information on various raw materials as used by members and deciphers their utilisation pattern. Seminars are used to disseminate information on new technologies/product development materials in the auto component industry including developing an understanding of new age materials that are fuel efficient, environment friendly and cost effective.

ACMA continues interactions with various raw material suppliers and whenever applicable with supplier associations (ASPA, Aluminium Association of India, Indian Lead Zinc Manufacturers Association, Rubber, Plastics association) to address issues on quality, availability and price volatilities.

The Committee is working on developing a quarterly auto index for ferrous and non-ferrous metals and polymers/plastic ingredients, to support members in their price discussions.

SUPPLY CHAIN COMMITTEE

Clearly, the industry stands to gain from increased engagement across the value chain. OEMs today are consolidating and looking to optimise the points of contact for efficient and effective supplier management and cost savings. Such consolidation of supplier base will call for Tier-1 suppliers to manage, continuously upgrade and even handhold the Tier-2 suppliers. This will enhance business opportunities in the future, but will pose challenges, as Tier-1s will have to invest in requisite skills and resources to manage an integrated supply chain.

The Supply Chain Committee works to address the basic hygiene factors of Quality, Cost and Delivery,

especially among the tier 2-3-4 besides tier-1 companies and strengthen the capacity and capability creation amongst the supply chain.



The broad objectives of the Committee are:

- To bring in seamless integration of auto-component suppliers in different tiers in terms of Quality, Cost and Delivery
- Build capability in terms of forecasting and adapting to changes and become more dynamic.
- To organise programs aimed at improving capability of Tier 2/3 suppliers
- Identify suppliers in various tiers in different regions to support multiple locations.
- To provide a platform for International Exposure by visiting and benchmarking against suppliers from international countries like Thailand
- Organise Buyer-Seller meets – Tier 1 & 2/3 to display products for sourcing/developing
- International buyer – seller meets with international sellers and national buyer for items where no alternatives available within country.
- Work in tandem with OEM committee of ACMA to understand and translate customer requirements.

SUSTAINABLE DEVELOPMENT COMMITTEE

The Committee maintaining a constant engagement with relevant authorities that define various aspects of sustainable development of auto-component players. There is regular interaction with MOHI, NATRIP, SIAM and OEMs. There are regular efforts at promoting localisation and indigenization, which provides greater opportunities for members. Finally, there is focus on creating awareness through awareness program for members that deal with technologies, best practices, carbon footprint, green mobility and global practices

The objectives of the Committee are:

- To keep the Industry updated with various technologies including Hybrid technology available in the country through plant / institutions visits within India
- To promote, adopt and adapt sustainable technologies within ACMA members
- To create awareness on green mobility and

global practices, re-cycle ability/ hazardous wastes/ carbon footprint

- Continue sharing and learning from the best practices being followed by various organisations / ACMA members on energy savings and renewal energies
- Visit R&D institutions of global players and that of the Government and Industry PPP Model
- Work proactively with the Government of India and OEMs to bring to the fore new opportunities that will arise due to the National Electric Mobility Mission Plan 2020 of the government

This is being pursued through regular interaction with organisations like MOHI, NATRIP, SIAM and OEMs, exploring opportunities for members arising out of need for localisation or indigenisation, and increasing awareness of members on sustainability related issues through programs on technologies, best practices, carbon footprint, green mobility and global practices.

TECHNOLOGY, SAFETY AND REGULATORY MATTERS COMMITTEE

Expansion of express ways, national highways and state highways has increased the need for even more safe vehicles that need to cope with higher load capacity and speed demand. The increased load, speed, driving habits and the sheer increment in vehicles and traffic density has brought in newer challenges on road safety.

With increased focus on safety and recognising the need for change in the outdated Motor Vehicles Act of 1988, the Ministry of Road Transport & Highways has released the Draft Road Transport & Safety Bill (RTSB) on 13th September 2014. The Bill has clearly stated the vision – to provide a framework for safer, faster, cost effective and inclusive movement of passengers and freight in the country, thus enabling the mission of 'Make in India'.

This committee at ACMA works primarily to deal with issues related to regulatory changes with matters related to technology and safety at the time of formulation and later in creating awareness amongst members.

To do this, the committee is working to:

- Prepare Safety and Regulatory Road Map in sync with SIAM to recommend to government
- Ensure regular dialogue with the Ministry of Road Transport and Highways to ensure that the views of the auto component manufacturing industry in India are appropriately considered
- Regularly interface with BIS, for standards related to the aftermarket.
- Regularly interface with ARAI, NATRIP, VRDE,

ASRTU and any other international / domestic agency working on issues related to vehicular safety, technology or regulatory matters.

- Keep ACMA membership informed of changes / impending changes on matters within the scope of the committee.
- Collate and disseminate authentic and credible reports and information.

ANNUAL ACTIVITY HIGHLIGHTS

The major activities undertaken by various committees of ACMA during 2014-15 are given below:

AEROSPACE, DEFENCE & RAILWAYS COMMITTEE

12 June '14: Interaction with the Purchase Team & Visit to the Integral Coach Factory, Chennai



The mission of 18 ACMA members visited the shell division, wheel assembly division, LHB coaches, project site and rail museum. Subsequently, Mr. Jagdish Prasad, Head of Procurement and Controllers of Stores and Mr. S Srinivas, Dy. CME – Design and Mr. K Veerasekaran, Dy. Chief Mechanical Engineer / Design along with their team members joined the interaction with the ACMA Mission members.

During the presentation, a list of 65 components was shared for which ICF was looking for new vendors. ACMA members were welcomed to be ICF suppliers for 5 crucial components - Chair Car Seats, FRP Windows, Aluminum Water Tanks, Stainless Steel Door Assembly & other major parts, and Metal bonded parts. The Process of Vendor Registration, Selection Processes were also highlighted during the deliberation.

During the interaction, ACMA members' concern of getting consistent long time orders from ICF was highlighted in order to equate the investment made by the member companies.

24 June '14: Interaction with AIRBUS Sourcing Head-India, Delhi



ACMA ADR Committee organized an interaction with Mr. Chandra Shekhar Yavarna, Head, India Sourcing, Airbus with an aim to explore opportunities for the ACMA members in the aerospace sector. Over 30 participants joined the interaction. Mr. Frederic Barthe, Director, Aerolia Services one of the group companies of Airbus from France also joined to interact with ACMA members. Aerolia services helps suppliers to develop products into Aerospace standards. Airbus has already advised its purchase officers to source 15% from Indian Tier 1 component companies. In 2006, Airbus was sourcing only Aerostructure. Now it is extended to Electronics, Engineering and IT services too. Contract time is usually 5 year period. Mr. Yavarna also explained the Supplier Selection Process for the benefit of ACMA members and stated that, members must have AS 9100 certification.

4 August '14: Aerospace and Defence Summit, Delhi

The first aerospace and defence summit was organised by ACMA with the objective to build local manufacturing capabilities and develop the Aerospace & Defence supply ecosystem in the country. It was an initial step to understand and address the Opportunities & Challenges in these sectors to be able to build a long term road map.



The automotive sector has emerged as a torch bearer for showcasing India's strength in the manufacturing

and engineering domain globally. The country has gradually been able to successfully build a thriving ecosystem of automotive OEMs and component suppliers who are recognized worldwide for their quality and cost effective product offerings. These factors have enhanced the importance of India in the eyes of global Aerospace and Defence manufacturing companies. The global primes are looking towards increasing their manufacturing and sourcing base from this region as a part of their realigned global strategy. The deliberations at the conference led to a detailed policy, infrastructure and global collaborations related recommendations that would create a globally competitive positioning for the industry.

22 January '15: Interaction with Maj Gen S Bhattacharya, ADG, (Indigenisation), Indian Army & visit to Army Base Workshop, Meerut Cantt, New Delhi

The objective of the interaction was to understand the indigenisation efforts being carried by Department of Indigenization, Indian Army and how the auto component industry could engage more with their larger indigenization plans. Post which ACMA ADR committee organized a visit to Army Base Workshop, Meerut Cantt on January 23, 2015 and a meeting with Indigenization sub-committee of Indian Army to



assess the feasibility of development of items / sub-assemblies / assemblies within the country, pertaining to HRV AV-15. In total 15 delegates from 12 member companies of ACMA participated at the interaction and the visit. The members congratulated the new initiative taken up by the ACMA, ADR Committee.

GLOBALISATION COMMITTEE

April 28, 2015 ACMA National Conference focuses on leveraging Mergers & Acquisitions for Inorganic Growth

ACMA organised a national conference on leveraging Mergers & Acquisitions to explore inorganic growth in the industry. The event saw the release of the ACMA – Grant Thornton special report 'Auto & Auto Components Sector Dealtracker – Providing M&A and Private Equity deal insight'. The

report summarised the current economic and political landscape for the automotive sector and gave an insight on the overall inorganic growth scenario based on trends in the mergers and acquisitions space and the private equity placement space over the last few years with a specific focus on the year 2014.



The ACMA conference highlighted case studies of Sona Koyo Steering Systems, Jumps Auto Industries, Amtek Auto and Sandhar Technologies. These auto component manufacturers took recourse to M&As for expanding their global footprint and have successfully raised the bar for the industry.

4 June '14: IPO Forum Meeting, Bangalore

During this second meeting of the IPO forum, ACMA-ACT Division and ACMA IT Committee were invited to brief about their activities and how they can engage with the forum for future projects. They made presentations on cluster programs and AutoDx software.

13 October '14: Interactive Session with Hon'ble Minister of Economic Development of the State of Jalisco, Government of Mexico, Delhi

ACMA organised an interactive session with the visiting delegation from Mexico led by the Minister of Economic Development of the State of Jalisco, Government of Mexico, Mr. José Palacios. The visit aimed at promoting investment opportunities for the members in the State of Jalisco. ACMA gave a presentation on the Indian automotive industry and opportunities followed by a presentation by Mexican delegation.

17-21 November '14: Interaction with the Hon'ble Nikki R. Haley, Governor, State of South Carolina, USA, at New Delhi

A 20 member delegation from Carolina, USA, led by Hon'ble Nikki R. Haley, Governor, State of South Carolina, visited ACMA with an aim to promote the state as the ideal location for Indian companies to spread their operations in US South.

HR, IR & SKILL DEVELOPMENT COMMITTEE

14-19 April '14: Relationship Management Program, Lonavala

This program organised concurrently with ACMA-YBLF designed for young CEOs of the auto component industry. The Relationship Management Program has been carefully crafted and designed by Mr. Homi Mulla, an expert with over 3 decades of experience, to help people connect with some fundamental threads of behavior that determine their success in both personal and professional life. 16 YBLF members attended the six day program at Hotel Fariyas, Lonavala. The pre-requisite of attending this session required the participants to undertake a mandatory 20 hours pre-work assignment which was given before the session to each.



The program allows the participants to experience the importance of working in teams through a unique experiential learning process, the Gestalt Method, and his unique story-telling mode. The program made the participants understand various behavioral styles.

26 September '14: HR Conference on '4 Disciplines of Execution', New Delhi



The session introduced the participants to '4 Disciplines of Execution' and apprise them of the process and reasons of failures while execution. During the session, experts highlighted the barriers

towards achieving successful executions in manufacturing such as skill gap, delegation v/s dumping, the last mile failure, over commitment of employees and communication. There was also a Panel Discussion on 'Execution'. 50 delegates attended the event.

15 January '14: Awareness Session on 'Prevention, Prohibition & Redressal of Sexual Harassment of Women at Workplace', New Delhi

The objective of organizing this session was to create an awareness on 'The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013'. It is mandatory for all the private organizations to include it in their HR policy and form an Internal Redressed Committee. The participants were apprised about the constitutional rights, relevant articles to safeguard in Indian Constitution for Protection of Female Rights, need for the act and the complete process for handling such complaints.

IT COMMITTEE

8 May '14: The First AutoDX Governance Committee Meeting, Bangalore

This committee has been formed to govern the overall activities of the autoDX initiative. It is responsible for promoting, facilitating, overseeing and guiding the adoption of common information exchange standards by the Indian Automotive Industry. Information exchange includes commercial, logistics, financial, engineering and other kinds of data that are exchanged by automotive firms with trading partners, logistics providers, banks and the government through electronic, paper, labelling (barcode, RFID) and other means.

23-30 May '14: Formation of Design Sub- committee for AutoDX

Under the Governance Committee, the AutoDX team formed 4 Design groups / sub committees to focus on the standardisation of design of 14 messages. The Design Group has been divided into 4 clusters where each region is leading the cluster. Demand, fulfilment, processing & financial cluster has been formed to cover the 14 message types under AutoDX. The Design group kick-started the activities in all regions with a face-to-face meeting in Pune on May 23, 2014, Chennai on May 27, 2014, NCR on May 28, 2014 and Bangalore on May 30, 2014. They scheduled a plan to carry forward the standardization work that has been accomplished till date. 60 industry participants from companies across India attended these meetings and pledged their contributions to the AutoDX standards design activity. ACMA, Jamshedpur invited the core group of AutoDX team for its members to introduce and understand the Auto Data Exchange

platform on June 3, 2014.

19 December '14: 3rd Governance Committee meeting on autoDX, Pune



The committee meets every quarter to review the progress of autoDX. At this meeting the OEMs like HeroMotocorp, Tata Motors and Bajaj Auto Limited took a lead and discussed plans of rolling it out to its suppliers. Discussion on Adoption, System Integrators Selection, Formation of Technology Committee, Focus on aggressive marketing and moving towards 100% production Go-Live through the support of the committee members were the key highlights of this meeting. Effective use of social media like Watsapp, Linkedin, Twitter & Facebook was suggested to create awareness about autoDX.

18 March '15: 4th Governance Committee meeting on autoDX, Pune

This platform is also used to exchange the experience of the companies with autoDX, their learnings and concerns. During the meeting, ACMA had invited Global Standards1 (GS1) to make a presentation on standardisation and Bar-coding. The implementation partner - IBM - joined for the experience sharing session. Several companies shared their experiences in getting the system going with their vendors and the positives and negatives were taken stock of.

IMTMA COMMITTEE

22 January '15: Release of ACMA-IMTMA Joint Study on Machine Tool Industry at IMTEX Tooltech 2015, Bangalore



The study, conducted by a consulting firm, was conceptualised to identify the roadblocks faced by machine tool industry and suggest a way forward for

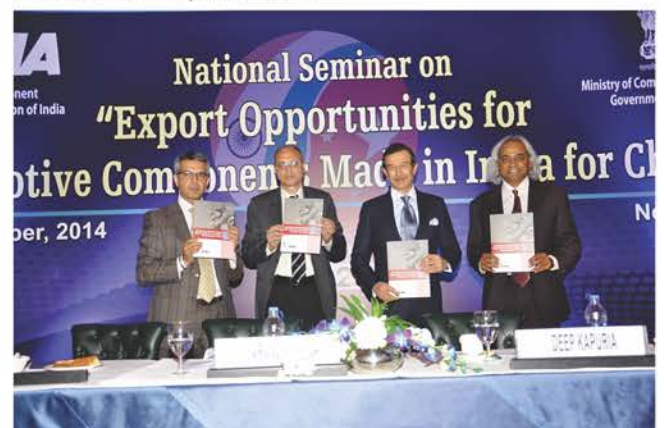
the segment. The study undertook a detailed survey with 60 ACMA-members (across Tier I to III) and more than 20 IMTMA-members. The Study findings suggest recommendations for a 5-year improvement roadmap. These have been prioritized as immediate, near-term and long-term plan. Over the next 5 years, the entire Indian automotive industry across vehicle and component segments is expected to witness robust growth. The growth in the automotive sector will propel the machine tool consumption in India to grow from USD 1.3 bn in FY14 to USD 3 bn by FY20 (14% CAGR). The growth rate for Indian machine tool suppliers can potentially be higher as import substitution is high on agenda of the automotive industry due to the adverse impact of fluctuation in exchange rates.

27th January '15: ACMA delegation visit to IMTEX 2015

A 20 member delegation of ACMA, visited IMTEX – Tooltech 2015. Members from the Eastern, Southern, Western and Northern Region including the Executive Committee members joined the delegation. There were discussion around the joint study and the next steps and actionable items arising out of the study. The delegation members went around the exhibition and interacted with the exhibitors, witnessing technologies and machines on display. ACMA took this opportunity to promote the industry and its services to the engineering sector through an information booth at IMTEX. The ACMA Information booth at IMTEX Tooltech 2015 saw many companies enquiring about ACMA membership. The information booth gave an opportunity to interact with the Machine tool manufacturing companies who supply to the Auto / Auto component companies and want to increase their client base. ACMA also disseminated information and sold its publications through the information booth.

KNOWLEDGE PARTNER ENGAGEMENT COMMITTEE

20 November '14: Release of Report on business opportunities in China for Indian auto components manufacturers, New Delhi



The study, partly funded by Ministry of Commerce, Government of India was conducted by a consulting outfit, focussed on understanding the buying behaviour and market dynamics of the Chinese automotive market as also competitiveness of the Chinese auto component manufacturers. The aim was to ascertain the feasibility of venturing into the Chinese market. The report identifies specific export opportunities, estimated at USD 20 billion, for auto components to select OEMs in China. Of this, the 'addressable opportunity' is about USD 7.5 billion.

MSME COMMITTEE

4 June '14: Awareness Session on Mini Clusters for implementation of Lean Manufacturing for MSMEs, New Delhi



The Ministry of MSME under the office of the Development Commissioner announced a scheme to fund the MSME units in order to implement Lean Manufacturing in their units to enhance the competitiveness of the MSME companies by way of formation of various clusters under the NMCP Scheme. ACMA, in association with the National Productivity Council (NPC) – the nodal Agency for implementation of Lean Manufacturing Competitiveness Scheme (LMCS) would facilitate the formation of such clusters and implementation amongst ACMA member companies.

A prelude to this exercise was held by way of an Awareness Session on the Scheme on June 4, 2014 in New Delhi, which was organized jointly by ACMA MSME Committee and ACT.

16 June '14: Visit to Rane TRW Steering Systems & Comstar Automotive Technologies, Chennai



In order to give exposure to the MSME companies, a visit was organised to two of ACMA Award Winning Companies – Rane TRW Steering Systems Ltd. and Comstar Automotive Technologies Pvt. Ltd. 24 members were part of the visiting mission.

At Rane TRW Steering Systems, a presentation was made on their TQM journey, which made them globally competitive. Ever since TQM was adopted it has drastically reduced PPM levels which has resulted in 30% in cost reduction. This has also resulted in "JIT" on daily basis. In addition, there were detailed presentation on the Lean Production System and HR practices being followed at Rane. This was followed by a visit to their shop-floor facility. At Comstar Automotive Technologies, a presentation was made on the growth story of Comstar in spite of various market challenges and how they withstood the VUCA situation. This was followed by a visit to their shop-floor facility.

15-19 September '14: ACMA MSME Mission to Germany



ACMA's MSME committee organised a twelve-member CEO's delegation to Germany with an objective to explore opportunities and interact with German counterparts. During the five days visit, the delegation visited Automechanika Germany and met with German auto companies such as Rebolution GmbH - a Robotics Company and Brose Fahrzeugteile GmbH & Co. - manufacturer of door latch, window regulator and seat adjusters. The objective of this visit was to update the German companies on the growing capabilities of the Indian automotive component industry as well as build business engagements between the two countries.

27 January '15: Visit to Sansera Engineering Pvt. Ltd. & Devilog Systems (India) for Manufacturing & Operational Excellence, Bangalore

This was aimed at giving exposure to MSME companies to learn from these companies' experiences and journey to manufacturing & operational excellence. 18 members were part of the delegation, Sansera Engineering shared its experience in building an employee driven and socially responsible global engineering company using innovative methods and efficient management



or lasting customer loyalty. Sansera's business area is into machining assembly of core engine & Transmission components including '2Cs' namely connecting rod & crank shaft assembly. The mission members were fascinated to see how the company received operational excellence by reducing the New Product Development Cycle through development of in-house machines.

At Devilog Systems (India), the members had a chance to glance at their passion for continuous improvement projects with a focus on Total Employee Involvement and the best practices followed through the ACMA – ACT Clusters.

26 February '15: 1st ACMA Global MSME Summit on 'Make in India' – Evolving Manufacturing through Globalization, New Delhi



This summit was organised during ACMA Automechanika New Delhi, aftermarket exhibition. Eminent speakers discussed issues related to the MSME sector. Primarily, it was recognised that the MSME sector played a critical role in economic growth and job creation. However, there were several obstacles to its growth like access to capital, access to technology, hiring the right talent and retaining them. It was imperative to identify and overcome these challenges to boost up the sector, especially at a time when demand slump has had a

particularly negative impact on the segment

RAW MATERIALS COMMITTEE

15 May '14: Conference on Polymers Composites & New Age Materials, New Delhi



The conference was organised to address the usage of advanced, high performance composites used in making vehicles lighter, safer and more fuel-efficient in synch with the existing global standards.

Presentation by speakers deliberated on application of polymer composites vis-à-vis metals with process relevance that have scope for weight reduction by as much as 20-25 kg/vehicle. These high performance polymer grades offer various advantages like reduction in CO2 emission, elimination of paints on the material, high impact strength, good flow ability, chemical resistance and high heat tolerance.

The conference focused on new age materials like Poly-olefins, special polypropylene composites, long fiber composites, thermoplastic composites and engineering plastics. The Indian composite industry is pegged at Rs.15,000 crore and is expected to grow at 15% per annum over the next four years.

18-19 February '15: ACMA visit and interaction with NALCO, Bhubaneshwar & Angul (Orissa-India)

The 12 member delegation made these visits to understand new developments in the aluminium market. On day one, NALCO arranged meetings with each of the visiting members where they addressed procurement related matters and other company specific. The visiting members visited the Angul Smelting plant on day two where alumina is processed to aluminium and the semi-finished products.

SUSTAINABLE DEVELOPMENT COMMITTEE

21 April '14: Interaction with Mr. Chetan Maini, Founder & CEO, Mahindra Reva Electric Vehicles Pvt Ltd., Bangalore



Mr Maini and the members discussed various opportunities that lie in the EV sector. There were certain recommendations made to make the sector more attractive and viable which includes focus on Electronics, high-end process, sensors (design/development) all Electric – Motor, AC, AC Inverter, Battery, use of lightweight material (design using advance methodology), introduce infotainment, connectivity on E-mobility (eg. Driverless car), high level of designing is required, industry to identify possible opportunities, potential JV partners for R&D - if companies start doing R&D they will become preferred partners for OEMs.

5 August '14: National conference on Sustainable E-Mobility to map out opportunities for growth of e-mobility components, Delhi



The second national conference on Sustainable E-Mobility jointly organised by (ACMA) and Society of Indian Automobile Manufacturers (SIAM) not only brought together experts to throw light on the road ahead for e-mobility in India, but also brainstormed on the roadblocks and shared best practices. It stressed on the need to develop and grow an ecosphere of e-mobility in the country. The agenda for the conference was to explore the opportunities present against the backdrop of the government's efforts to enthruse suppliers to be future ready and to

take e-mobility to the next level.

20 January '15: Webinar on 'Life Cycle Costing'

The webinar highlighted three pillars that encompasses Sustainability - Environmental, Social and Economic. In order to declare a product as sustainable it is important to balance all three. While Life Cycle Assessment (LCA) is used to quantify environmental impacts, Life Cycle Costing (LCC) is used to calculate the cost of a product across its life cycle, from cradle to grave. An economic analysis procedure that uses engineering inputs to calculate the cost, Life-cycle Costing (LCC) is used to estimate the total cost of ownership for the user and allows comparative cost assessments to be made over a specific period of time.

SUPPLY CHAIN COMMITTEE

27-28 June '14: First Buyers Sellers Meet, Ahmedabad



The objective of the event was to provide a platform for integration of auto component suppliers in order to enhance and engage the business linkages within the supply system at different tiers. This event encouraged companies to explore new business opportunities in terms of quality, cost, delivery and capacity utilization. The total number of participants at this event was 45, out of which 19 were Tier-1s and 26 were Tier-2s. This platform provided a great opportunity for participants to show case not only their strengths and capabilities in terms of products to OEMs, IPOs and Tier1 companies but also provided a unique opportunity to interact directly with the people responsible for sourcing. This also led to exploring new business opportunities.

TRADE FAIRS COMMITTEE

10-13 October '14: 3rd Auto Ancillary Show 2014 - 'Light Weighting', Pune

This year India Trade Promotion Organisation (ITPO), the premier trade promotion agency of the Government of India, organised the show in partnership with ACMA and Auto Cluster Development and Research Institute (ACDRI), Pune.

The show focused on the theme - 'Light Weighting' – and aimed to sensitise the auto industry about the importance of polymers, composites and other advanced materials in reducing the weight of automobile thereby enhancing fuel efficiency. The show served as a platform for the automotive industry to network, seek technology tie-ups, explore joint ventures and interact with government institutions to help them in their quest for expansion and technological up-gradation. The exhibition was spread over an area of 2,000 sq. mtrs the show housed over 44 prominent players of automotive industry including 12 of ACMA member companies showcasing a range of products. The show also housed an Asli Naqli pavilion that contributed towards spreading awareness amongst the traders, wholesalers, workshop and garage owners on counterfeit auto components sold in aftermarket.



10 October '14: Conference on light weighting with focus on Composites and Polymers, Pune

To understand the latest trends in composites, ACMA along with ITPO organized a conference on Light weighting with focus on Polymers and Composites on October 10, 2014 in Pune. The conference aimed to address the usage of advanced, high performance composites in making vehicles lighter, safer and more fuel-efficient in synch with the existing global standards and practices. Speakers in their presentation focused on the role of thermoplastic materials, technology beyond injection moulding, polymer composites and other weight saving solutions with discussions on input technologies-their function ability, performance and strengths as needed for various applications.

INTERNATIONAL EVENTS

3-5 June '14: ACMA Joint Stand participation at Automechanika, Dubai

The show was positioned as one of the largest trade fair's for the automotive aftermarket. It featured key aftermarket products including workshop equipment



bodywork and paintwork, car wash, IT & management, tyres and batteries. This 12th edition of Automechanika Dubai 2014 saw over 1,695 exhibitors from 59 countries which is 19 percent more than the previous year. ACMA received financial assistance from the Ministry of Commerce, Government of India under MAI scheme towards group participation at the Automechanika Dubai 2014. ACMA had a joint stand participation at the show with 46 members participating in a total display area of 400 sq.mts (app). The exhibition generated USD 33.85 million worth business enquiries including a one member received a confirmed order of USD 1.5 million.

16-20 June '14: 'Tech Expo' for Indian auto component companies, USA



A consortium of 20 auto component manufacturing companies participated in one of its kind 'Tech Expo' with 5 global OEMs in USA with the objective to showcase the growing capabilities of the Indian auto component industry. Supported by Ministry of Commerce, Government of India, this 5 day Tech Expo attracted more than 800 visitors. A team of 32 delegates from 20 member companies travelled together, covering cities from Detroit to Minnesota. The forum provided the right platform to the Indian auto component manufacturers that have been enhancing their capabilities in R&D, engineering, design and development capabilities to meet the expectations of global OEMs. This expo facilitated direct interaction between OEMs and Tier I manufacturers.

2-4 July '14: India Seminar in Japan, Osaka, Nagoya and Tokyo

At the invitation of PwC Japan Auto sector, ACMA delegates participated in their "Indian Automotive Seminar" held across 3 Japanese cities. The broad objective of the Seminar was to give a perspective on India Automotive Industries as well as to further strengthen the business opportunities between the two countries. Overall the seminars was well attended by more than 300 Japanese auto companies and the participants carried a better perspective of India and the opportunities that exist.

22 August '14: MOU between ACMA and Pakistan Association of Automotive Parts & Accessories Manufacturers (PAAPAM) sign MOU to bolster trade relations, Lahore

The MOU was signed as part of ICRIER's (Indian Council for Research on International Economic Relations) initiative on India-Pakistan trade



normalization. The meeting at Lahore brought together participants from both the associations with an objective to exchange views on the potential of auto component trade between India and Pakistan; understand the challenges of the automotive parts manufacturers on either sides; and develop a common understanding for the way forward, including the scope for joint initiatives.

4-6 September '14: MYANAUTO 2014, Yangon (Myanmar)



For the first time, a 2 company ACMA delegations participated in MYANAUTO 2014 ACMA, through its booth at the show, disseminated information on the Indian Auto-Component Industry. Four ACMA member companies also displayed their product catalogues at the ACMA information booth and their product information was freely distributed to

business visitors.

16-20 September '14: Participation at Automechanika – The World's Leading Trade Fair for the Automotive Industry, Frankfurt (Germany)



ACMA organised a group participation at the 23rd Automechanika Frankfurt. This was a key event to showcase innovations and solutions in the fields of parts, systems, tuning, workshop equipment, bodywork & paintwork, car wash, IT & Management and the latest automobile services. The fair set a new record with 4,631 companies from 71 countries who participated as exhibitors that offered latest automotive products and technologies to over 140,000 trade visitors from 173 countries. ACMA had reserved 651 sq. mtrs. of exhibition space where 48 of its member companies participated with their products to showcase the potential and technology of the Indian auto component industry.

25th September – 2 October '14: Participation at the 65th IAA International Motor Show (Commercial Vehicles), Hanover (Germany)



The event organised by ACMA's counterpart in Germany - Verband der Automobilindustries (VDA), witnessed more than 2,000 Exhibitors from 45 Countries out of which approx. 1,200 were suppliers

showcasing their innovations & technology. The show with the theme "Driving the Future" had 32 special events and 12 special shows/ activities held alongside of the exhibition on an area of 265,000 Sq mt. ACMA through its information booth at the show disseminated information on the Indian automotive and auto component industry. 8 ACMA member companies also took the opportunity of displaying their product catalogues. The "IAA-India-Day" is already a tradition at the IAA-shows and a meeting forum for representatives from industry, institutions and government. VDA with the support of The Government of India, ACMA, SIAM and the Indo-German Chamber of Commerce, IGCC organised the 9th IAA India Day on the October 01, 2014.

29 October '14: India-Africa Reverse Buyer Seller Meet (RBSM), Delhi

With support of the Department of Commerce, Ministry of Commerce & Industry, Government of India, ACMA organised the first ever reverse buyers-



sellers meet with African auto component dealers and distributors. The meet witnessed presence of 38 key buyers from seven African countries including Kenya, Nigeria, Tanzania, Uganda, South Africa, Egypt and Botswana who are keen to source automotive aftermarket components from India. The African delegation comprised of OEMs, Auto Component Manufacturers, distributors, importers and agents. At the meet, over 70 Indian component makers' showcased 'Made in India' aftermarket products, which served as a platform for the visiting delegation to get an insight into the growing capabilities of the Indian Auto Component Industry. The event also witnessed a MoU signing with the National Automotive Council, Nigeria adding to the list of 31 MoUs with our counterpart associations across the globe. The National Automotive Council was set up to ensure the survival, growth and development of the Nigerian automotive industry using local human and material resources. The council aims to enhance industry's contribution to the national economy in the areas of employment, technology acquisition, effective utilisation of local raw materials and resources and in the transportation of people and goods.

3-6 November '14: Participation at AAPEX 2014, Las Vegas (USA)



The show is held every year at the Sands Expo Centre, Las Vegas that features nearly 2,400 exhibitors with approximately 5,000 booths. Known as the leading B2B aftermarket exposition of USA with an annual show case of USD 477 billion global automotive exposition, AAPEX, is a conglomeration of key decision makers and perceived as an ideal platform to meet new business partners. ACMA, as a marquee exhibitor took 10 companies to the show. ACMA stand was visited by these dealers and distributors with queries for parts primarily in the PVs, CVs segments. Visitors from Canada, China, Mexico, South America, South East Asia and USA also visited ACMA stand. The information was not only related to import and distribution of parts but also for setting up service centres in India; for exploration on bulk procurements of parts.

9-12 December '14: Participation at Automechanika Shanghai

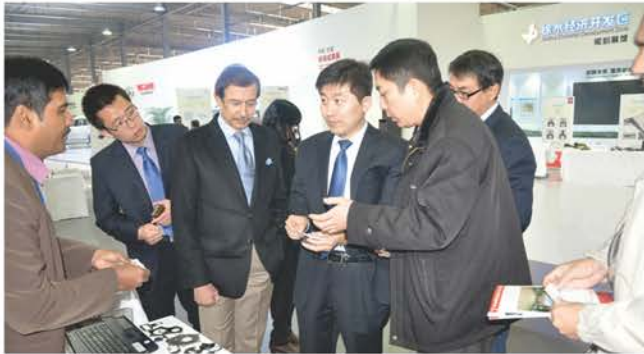


Automechanika Shanghai 2014, Asia's largest trade show for automotive parts, accessories, equipment and services, reported another record breaking edition of 4,906 exhibitors and more than 86,000 visitors from around the world. The exhibition mainly focused on the three industry sectors which were Parts & Components, Repair & Maintenance and Accessories & Tuning. Automechanika Shanghai 2014 also featured a number of seminars, conferences and networking opportunities, headlined by global authority figures within the industry. ACMA booked a

space of 140 Sq. mtrs for the group participation of its members. 13 member companies participated in the ACMA - India joint pavilion along with their group companies.

15-19 December '14: Tech Expo China

In line to ACMA CEOs delegation to China in March and with the release of joint study on 'Export Opportunities for Made-in-India auto components for China' in November 2014, which was undertaken to explore opportunities and engage with Chinese automotive industry, to further this ACMA organized Tech Expo in China. The initiative was jointly organized by Ministry of Commerce & Industry and ACMA with support of Ministry of External Affairs, especially the Indian Embassy in China. The objective of the expo was to display products and technologies in the premises of leading Chinese OEMs and have multi-level interactions with various departments and



teams of the OEM. Over 23 companies participated to explore the large and exciting market of China.

The first leg of the visit, took the delegates to Chongqing -2 wheeler hub of China which is emerging as a major passenger car hub. The trip started with an exhibition in the premises of Lifan Motors, a leading 2 wheeler manufacturer and a 4 wheeler manufacturer. The following day ACMA had a business meeting with Changan motors – where the delegates were informed of their India plans and also shown their R&D centre. The delegates had meaningful meetings with the buyers of their respective categories.

The next destination was Beijing premises of Beiqi Foton which also the largest CV manufacturer in china. There were meaningful interactions over the tech expo with buyers, R&D teams and senior management. Beiqi Foton shared their plans of making India a global manufacturing market as part of their global aspirations – being the largest global CV manufacturer by 2025.

After spending full day at Beiqi Foton, in the evening ACMA organized an "India-China Seminar-Focus on Auto Component Industry" in association with Indian Embassy in China. Later the delegation travelled to

Great Wall Motors in Baoding, the largest and fastest growing SUV manufacturer in China.

Next the delegates headed to Weifang, the premises of Weichai, the largest engine manufacturer in China.

28 March '15: ACMA's first ever Buyers – Sellers meet in Sri Lanka, Colombo

ACMA with support of the Department of Commerce, Ministry of Commerce & Industry, Government of India, organised this meet focussed on exploring aftermarket opportunities in the country. The event was organised in the backdrop of the recent visit of Indian Prime Minister, Narendra Modi to Sri Lanka, to strengthen business ties between the two countries. At the event, sixteen leading Indian component manufacturers showcased 'Made in India' aftermarket products while over fifty key buyers



including dealers, distributors and importers from Sri Lanka participated at the event. Additionally, a seminar on 'Indian Auto Industry: Opportunities & Challenges' was organised by ACMA in cooperation with the High Commission of India, Sri Lanka.



2-5 February '15: CEOs' Mission to Japan

A delegation of 25 member companies visited Japan to update the Japanese automotive industry on the



growing opportunities and the capability of the Indian auto component industry through a seminar/networking event, explore opportunities for enhancing business linkages and understand the Japanese automobile manufacturers' global outlook in relation to India. The delegation visited Suzuki, Nissan and Kubota and met their senior purchasing teams. The delegation also had an opportunity of interacting with Daihatsu's purchasing team. It was

an opportunity for everyone to meet Mr. Osamu Suzuki, Chairman & CEO, Suzuki Motor Corporation. Apart from this ACMA organised a seminar with Japan External Trade Organisation (JETRO) which was supported by the Indian embassy and Japan Auto Parts Industries Association (JAPIA) with the objective to strengthen trade and partnership between the two countries. Over 150 delegates attended this networking event.



ACMA CENTRE FOR TECHNOLOGY (ACT)

INTRODUCTION

The ACMA Centre for Technology (ACT) was setup in 1989 with a mandate to provide technical support and service to ACMA members; one of the major objectives of ACT is to transform operations of the Indian auto-component industry to global standards.

SCOPE AND OBJECTIVES

ACT's primary focus is providing expert guidance to members in improving their manufacturing competitiveness, enhancing their quality standards and increasing productivity and profitability through various specific interventions. Services to the industry are delivered through collaborative programs with involvement of domestic & international domain experts and institutions of excellence.

ACT interventions through cluster programs for shop-floor improvement are well accepted by the component sector. These clusters aim to create competitiveness among ACMA memberships for domestic and global markets. ACT also ensures that these programs result in profitable and sustainable improvements.

Providing collaborative technical support from global experts to ACMA memberships is a major scope of ACT's functions. This is executed through various channels like AOTS Training in Japan, Specialized Trainings and Seminars in India, JETRO and JIPM Interventions. In addition, an enabling platform has been developed for the members to avail technology advantages, which are done in partnership with various institutions like TIFAC, DSIR, NATRIP, Fraunhofer and MIT.

Efforts are continuously undertaken to create an environment and culture of improvement amongst members through Quality Circle and Six Sigma initiatives with a focus on institutionalizing these capabilities.

DEPLOYMENT

ACT services are deployed through the following mechanisms:

Clusters: The cluster based deployment is an integrated and a holistic approach, which is an effective way for all round development and competitiveness of the country's MSME sector. Not only does it enhance employee capabilities, it also upgrades quality and technology know-how.

This approach has proved to be an effective and successful tool for upgradation of industry all over the country in a cost effective manner. The development initiatives in various clusters have delivered remarkable results. Apart from quantitative benefits, it also enhances employee capabilities and helps in achieving excellence in manufacturing processes.

Cluster Services are rendered through a well-selected pool of technical experts specializing in different disciplines. These experts extend support to members and help them overcome their problems and weaknesses.

5S, Total Employees Involvement (TEI), Quality & Productivity improvement, Equipment and Inventory management, Lean Processes, tooling are some major areas which are emphasized upon during the cluster programs.

The major programs include ACT MSME cluster, ACT SME cluster, ACT SME Advanced cluster, ACT UNIDO partnership cluster, ACT foundation cluster, ACT Advanced cluster, ACT Engineering Excellence cluster and the new product development (NPD) cluster.

ACT believes there is ample evidence to suggest that a cluster policy brings additional positive effect to existing SME policy in industrialized economies and strives for perfection in that sphere.

Competitions: Several competitions are conducted amongst members to promote the objectives of ACT. This includes case study based competitions on customer delight, environment, total employee involvement and innovation.

Overseas Training: ACT, in cooperation with Association of Technical Scholarship (AOTS) and HIDA organises several overseas training programs on various topic that the auto-industry demands namely Lean Machine and Production Management. Typically, the introductory program is organized in India for 2 days and the completion of the same course is done with a 15 day residential program abroad in countries like Japan and Thailand.

Certified Courses: To achieve excellence in manufacturing, the industry needs competent people and robust systems and processes to compete globally. In order to meet this objective and create a skilled workforce, ACT Professional Certification Courses (PCC) are conducted, which will help companies develop expertise within their organizations. The courses being offered are:

- **PCC-1:** Lean Hydraulic & Lubrication Systems (Breakdown free Systems)
- **PCC-2:** Lean Electrical Systems (Breakdown Free & Without Air Conditioning Systems)
- **PCC-3:** Lean Coolant and Lubrication Systems (Contamination Free Systems)
- **PCC-4:** Quality Management (Move towards Zero Defect Quality Culture)
- **PCC-5:** Productivity Improvement through Flow Mfg. & Low Cost Automation (Multifold productivity improvement and Line Balancing)
- **PCC-6:** Inventory Management (Releasing blocked Capital)

Publications: ACT's publications play a crucial role in knowledge dissemination. Some of the noteworthy ACT publications this year include –

ACT Now: To upgrade ACMA members on technology front and keep them abreast of the latest developments in the auto component industry, ACT launched its first newsletter called "ACT now" in 2007. Over a period of time "ACT now" has established itself as an information disseminator on Cluster Activities, Six Sigma, WP.29, ACT AOTS programs, Kaizen, QC, AIS, BIS, CMVR, NPD and various other Government related activities. Besides this, it has been regularly sharing the Best Practices among ACMA member companies. From 2014, ACT has started publishing the September issue as a special issue on ACMA Awards. The ACMA Awards are the most coveted in the auto component industry. It recognises the outstanding achievements of its members in manufacturing, quality & productivity, exports and technology. These awards are not only a hallmark of excellence but also set the bar for creative growth, nationally as well as internationally, and for evolution in manufacturing and innovation.

- CN's Sayings: C.Narasimhan, is the Chief Mentor ACT, his thoughts have been compiled by ACT Team for the benefits of industry under "Excellence in Manufacturing - Inestimable Matras by CN's"
- Book on Indian Production System by CN: Vol - I of Indian Production System by CN
- Book on Before - After Photos: This publication with Before-After Photos is a testimony of the transformation that be brought about through ACT interventions.
- ACT Journey Book: This publication shares various services of ACT, including success stories from its various cluster programs.

Research and Development Projects: To make ACMA members technically strong, ACT has taken various initiatives in collaboration with several institutions like the Technology Information Forecasting Assessment Council (Under Department

of Science & Technology, Government of India) and Fraunhofer Institutes in Germany. ACT organizes various workshops and interactive sessions with Fraunhofer Institutes on topics like Resource Efficient Production, Light Weighting, Product Design and Testing, which are critical for the industry today.

Conferences / ACT Manufacturing Excellence Summit: The first ACT International Conference combined with ACT summit was held in February 2015.

ACTIVITY HIGHLIGHTS: 2014-15

APRIL 2014

- Third MRM (Model Plant Visit) to Faridabad and Ghaziabad - ACT Foundation Cluster 8N
- 4th and 5th MRM – 4th ACT Advance Cluster was held at Indore
- ACMA Awards Awareness Meeting held at Chennai
- 4th MRM – 8th ACT Foundation Cluster was conducted at Rampur
- 8th MRM ACT SME Northern Region was organized at Dadri
- ACMA Awards Awareness Meetings were held at Pune, New Delhi and Kolkata
- 8th MRM (Model Plant Visits) to Pantnagar – ACT SME Cluster Pantnagar
- 4th MRM – ACMA UNIDO Cluster was held at Kolkata
- 5th MRM - 4th ACT Advance Cluster conducted at Haridwar
- 4th MRM – 8th Foundation Cluster at Satara
- ACT Team training on Personal Grooming was conducted in New Delhi
- 5th ACT Team internal review held at New Delhi

MAY 2014

- ACMA Awards Awareness Meeting at Chennai

JULY 2014

- 6th MRM of ACT Advance Cluster 4(N) at Gurgaon
- 9th MRM of ACT SME Cluster at Pantnagar
- 13th MRM of 2nd ACT Engineering Excellence Cluster at Chennai

AUGUST 2014

- Awareness Session on 1st ACT NPD Cluster at Chennai
- Launch of ACT IPCL Improvement Project at Bhavnagar
- 4th MRM & Model plant visit for ACT SME Advance Cluster at Bangalore
- 7th MRM ACT Advance Cluster 4(N) at Bahadurgarh
- 8th MRM of ACT Advance Cluster 4(SW) at Vadodara
- 7th MRM of ACT Foundation Cluster 8(N) at

- Haridwar
- 6th MRM of ACMA UNIDO Cluster at Jamshedpur

SEPTEMBER 2014

- ACMA Awards Jury Meeting at Mumbai followed by ACMA Awards Ceremony and Award Distribution held at Delhi
- Release of ACT Now September, 2014 issue at Taj Palace, Delhi
- Closing of ACT SME Cluster NR at Delhi
- Launch of 1st ACT MSME Lean Cluster NR at Delhi
- Closing of ACT SME Cluster NR at Pantnagar
- Launch of 1st ACT MSME Lean Cluster at Pantnagar
- 9th MRM of ACT Advance Cluster 4(SW) at Indore
- Launch of 1st ACT New Product Development Cluster at Chennai
- 5th MRM of ACT SME Advance Cluster at Bangalore
- Closing of the 6 month ACT Forbes Marshall Improvement Project at Pune

OCTOBER 2014

- 8th MRM of ACT Foundation Cluster 8(N) at Haridwar
- 7th MRM ACMA UNIDO Cluster at Jamshedpur
- 72nd session on Lighting and light signaling Device (GRE) at Geneva
- 6th MRM of ACT SME Advance Cluster at Bangalore
- Receipt of feedback of ACMA Awards 2013-14 from all applicants and assessors across India

NOVEMBER 2014

- 10th MRM of ACT Advance Cluster 4(SW) at Vadodara
- Launch of ACT MSME Lean Project at Satara
- 9th MRM of ACT Foundation Cluster 8(N)
- 9th MRM of ACT Advance Cluster 4(N) at Haridwar
- 11th MRM of ACT Foundation Cluster 8(SW) at Anantapur
- 7th MRM and Closing of SME Advance Cluster at Bangalore
- 14th MRM 2nd ACT Engineering Excellence Cluster at Kolhapur
- 8th MRM & Closing of ACMA UNIDO Cluster at Jamshedpur
- 1st MRM of ACT 1st NPD Cluster at Kolhapur

DECEMBER 2014

- PDCA Meeting of ACMA Awards at Pune
- AISC Meeting at Pune
- Launch of ACT MSME Lean Cluster (Haridwar-Pantnagar) at Pantnagar
- Launch of ACT Advance Cluster 5 at New Delhi
- ACT - AOTS - HIDA Training Workshop and Study Tour to Thailand on "Essential Skills on Automotive Industry"
- Launch of ACT MSME Lean Cluster at Ludhiana
- 6th ACT Meet at Chandigarh

- 10th MRM of ACT Advance Cluster 4(N) at New Delhi
- 12th MRM ACT Foundation Cluster (SW) and Plant Visit to Bharat Gears Ltd at Lonad
- 13th MRM of ACT Foundation Cluster (SW) and Plant Visit to Mutha Founders Ltd at Satara
- ACT Professional Certification Course on Lean Hydraulics System (PCC) for Ecocat India Pvt Ltd. Held at Faridabad
- ACT Professional Certification Course on Lean Electrical System (PCC) for Ecocat India Pvt Ltd at Faridabad
- 11th MRM of ACT Advance Cluster 4 (SW) at Bangalore

JANUARY 2015

- ACT Professional Certification Course on Productivity Improvement (PCC) at Delhi
- Launch of ACT MSME Lean Cluster for Suppliers of Greaves Cotton (Two individual clusters for Pune & Aurangabad), was done at Aurangabad
- 10th MRM of ACT Foundation Cluster 8(N) & Plant Visit to Rockman Industries & Munjal Auto at Haridwar
- 15th MRM of ACT Engineering Cluster 2 Aurangabad
- 11th MRM of ACT Advance Cluster 4(N) at Haridwar
- Release of ACT Now December, 2014 issue at Delhi
- 2nd MRM & CEOs' Meet of ACT NPD Cluster at Chennai
- SIAT EXPO 2015, Pune

FEBRUARY 2015

- IPO Forum meeting at Pune
- Toyota meeting for proposed joint working with ACT at Chennai
- First ACT Summit

MARCH 2015

- 12th MRM & Model Plant Visit of ACT Advance Cluster 4SW at Shirwal & Lonad
- 11th MRM of ACT Foundation Cluster 8N held at Rampur
- Launch of ACT MSME Lean Cluster at Bangalore
- 12th MRM of ACT Advance Cluster 4N at Gurgaon
- Model Plant Visit (MRM 1) of ACT Advance Cluster 5 at Bahadurgarh
- Model Plant Visit (3rd MRM) of ACT MSME Lean Cluster NCR, at Bahadurgarh
- ACT Professional Certification Course on Lean Electricals for Ecocat India Pvt. Ltd., Faridabad
- Announcement of ACMA Awards 2014-15

YOUNG BUSINESS LEADERS' FORUM (YBLF)

INTRODUCTION

YBLF comprises young, second and third generation entrepreneurs, between the age of 25-40, many of whom are in leadership positions in the auto-component industry in India. Typically, the members of YBLF are ambitious, dynamic and fully energized to leverage high growth opportunities. The YBLF Membership across India has crossed the "170" and the group is keen to share and learn together to enhance business confidence and acquire leadership skills required to face the emerging challenges in the industry.

SCOPE AND OBJECTIVES

With a vision 'To nurture leadership skills and to bring about successful transformation of corporate leaders of tomorrow', YBLF provides a platform for its members to share common issues and concerns with respect to their companies/businesses and to collectively suggest and seek solutions. YBLF stands to give its members an opportunity to share, across the table, critical information on latest developments in the Indian and overseas automotive industries, which may have an impact on their individual businesses.

YBLF has been making all efforts to bring about 'transition and succession planning', 'greater levels of competitiveness', 'entrepreneurship development' and 'promoting CSR' amongst its members. It engages in activities which inspire, motivate and impart learnings to enhance competitiveness and leadership skills and facilitate creating of an environment that encourages mutual co-operation; a better understanding and knowledge of global business practices; international linkages with counterpart bodies and a clearer vision of the future directions of business.

YBLF is focusing on programmes that generate greater participation and would also encourage others to join the membership.

ACTIVITY HIGHLIGHTS: 2014-15

APRIL 2014

Relationship Management Program by Mr. Homi Mulla, Process Facilitator & Consultant, Human

Resource Management held at Lonavala



AUGUST 2014

Interaction with Mr. Ashok Minda, GCEO, Spark Minda Group at Gurgaon



SEPTEMBER - NOVEMBER 2014

Interaction with Mr. Ashok Taneja, Managing Director & CEO, Shriram Pistons & Rings at New Delhi on 'Winning in VUCA times'



DECEMBER 2014

A Knowledge Session with Mr. Sanjay Labroo, Managing Director & CEO, Asahi India Glass Ltd. on "Strategic Planning and Financial Planning" organized at Gurgaon

JANUARY 2015

Visit to Volkswagen and Bharat Forge at Pune



MARCH 2015

YBLF Mission to Thailand: 19 member delegation had informative meetings with Indian Embassy in Thailand, Thailand Board of Investments, Frost & Sullivan, Thai Auto-parts Manufacturers Association (TAPMA), Honda Automobile (Thailand) Co., Kobelco Research Institute, Aapico Hitech Co. Ltd., Tokai Rika Thailand etc. The delegation also visited manufacturing facilities of Paracoat Products Ltd. and NRB Bearings (Thailand) Ltd..



Knowledge Pool Development through Syndicated Studies

SUBJECT	CO-ORDINATING COMMITTEE
Capturing the global opportunity - The next imperative for the Indian component industry	Knowledge Partner Engagements
Identifying attractive export opportunities for automotive components to China	Globalisation
Enabling Indian auto component industry competitiveness Role of Indian Machine Tool Industry	IMTMA
Importers Directory	Globalisation
Affordable & Accessible Technology innovations	Sustainable Technology Development
The Changing Face of Automotive Industry: Transformative Technologies of Future Cars	Globalisation

ACMA | Publications

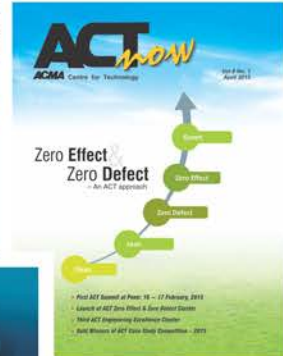
2014-15



Identifying Attractive Export Opportunities for Automotive Components to China



November 2014



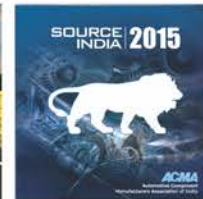
Zero Effect
Zero Defect

• First ACT Award at Pune - 16 - 17 February, 2015
• Launch of ACT Plus Award & Best Award Scheme
• Next ACT Engineering Excellence Center
• 10th Edition of ACT Expo (2015) - 2015



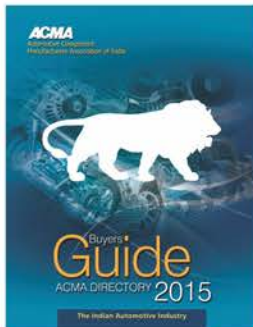
Indian Automotive Industry

The Auto Component Industry - Can become Engine of Growth
Auto Components Made in India for the World



ACMA IMTMA Joint Study

Enabling Indian auto component industry competitiveness
Role of Indian machine tool industry



Buyers Guide
ACMA DIRECTORY 2015



Capturing the global opportunity - The next imperative for the Indian auto component industry

September 2014

During 2014-15, ACMA continued to publish its regular newsletters including the Auto News, International Newsletter, ACT Now, Customs and Exim Newsletter and Indirect Tax Newsletter that provide insights on the developments related to the auto-component sector and highlight the key activities of the association.

- The joint ACMA-McKinsey study titled 'Capturing the global opportunity - The next imperative for the Indian auto component industry' was released at the 54th Annual Session of ACMA. The study pointed out that globalisation in the auto-component industry is an irreversible trend, which is likely to grow. There are five macro-trends which will drive this including globalising OEMs with suppliers following them, maturing of low-cost countries (LCC) as export hubs, platform consolidation and shift towards large global suppliers, increasing aspiration of emerging market suppliers to access new markets, and technologies and market diversification for margin resiliency.
- ACMA, in cooperation with the Ministry of Commerce, Government of India published a study titled, 'Identifying attractive Export Opportunities for automotive components

to China'. The study focused on understanding buying behavior and market dynamics of the Chinese automotive market as also competitiveness of the Chinese auto component manufacturers. The report identified specific export opportunities, estimated at USD 20 billion, for auto components to select OEMs in China. This was compiled after a rigorous analysis of macroeconomic and trade data with Chinese automotive and auto components companies.

- ACMA and IMTMA released the findings of the joint study - 'Enabling Indian auto component industry competitiveness; Role of Indian machine tool industry'. The study delineated five year roadmap, with near-term and long-term actionable. The immediate measures to be adopted by machine tool industry included improving machine performance and reliability through better machine maintenance practices and implementation of safety standards; building confidence in ACMA companies that use Indian machine tools; offering low cost automation solutions/ frugal machines for standard tasks to ACMA companies; and organize knowledge seminars on topics such as machine tool technology, reliability improvement, and application engineering topics. These near term initiatives must be rolled out within 1-3 years. In the long term of around 3-5 years, efforts should be made for joint cooperative development of new machines - involving ACMA companies and auto OEMs and develop a "solution" based approach in IMTMA.
- ACMA released the 30th Edition of Buyers Guide and the Source India CD. Buyers Guide and the Source India CD (Soft version of ACMA Members' Directory - Buyers Guide) are the only sourcing guides/repositories for the auto component industry in India.

PEOPLE AT ACMA

Past Presidents

Dr. Pranlal Patel (Late)	1959-1966	Dr. Surinder Kapur (Late)	1991-1992
Mr. M.K. Raju (Late)	1966-1968	Mr. S. Viji	1992-1994
Mr. W.N. Talwar (Late)	1968-1970	Mr. D.K. Jain	1994-1996
Mr. P.V. Shah (Late)	1970-1971	Mr. K. Mahesh	1996-1998
Mrs. Sharayu Daftary	1971-1972	Mr. Dinesh Munot	1998-1999
Mr. M.S. Shastri (Late)	1972-1973	Mr. V.K. Mehta	1999-2000
Mr. D.R. Sondhi (Late)	1973-1974	Mr. L. Ganesh	2000-2001
Mr. V.R. Sivaraman (Late)	1974-1975	Mr. K. Kejriwal	2001-2002
Mr. M.K. Jhawar (Late)	1975-1976	Mr. Deep Kapuria	2002-2003
Mr. Harjan Singh (Late)	1976-1977	Mr. K.V. Shetty (Late)	2003-2004
Mr. S. Muthukrishnan (Late)	1977-1978	Mr. Deep Kapuria	2004-2005
Mr. R. Bhandari	1978-1979	Mr. A.K. Taneja	2005-2006
Mr. N. Venkataraman (Late)	1979-1980	Mr. Raghu Mody	2006-2007
Mr. V. Chidambaram (Late)	1980-1981	Mr. Sanjay Labroo	2007-2008
Dr. Abhay N. Firodia	1981-1982	Mr. J.S. Chopra	2008-2009
Mr. Suresh Krishna	1982-1984	Mr. Jayant Davar	2009-2010
Mr. Pran Talwar (Late)	1984-1986	Mr. Srivats Ram	2010-2011
Mr. L. Lakshman	1989-1987	Mr. Arvind Kapur	2011-2012
Mr. Amar Singh	1987-1989	Mr. Surinder Kanwar	2012-2013
Mr. T.K. Balaji	1989-1991	Mr. Harish Lakshman	2013-2014

Executive Committee

President	Vice President	Immediate Past President
Mr. Ramesh Suri	Mr. Sandeep Balooja	Mr. Harish Lakshman
Global Autotech Ltd.	Mando Automotive India Ltd.	Rane TRW Steering Systems Ltd.

Elected Members

Member	Company
Mrs. Pilloo C. Aga	Gold Seal Engg. Products Pvt. Ltd.
Mr. Soumitra Bhattacharya	Bosch Ltd.
Mr. P. Kaniappan	WABCO India Ltd.
Mr. Rattan Kapur	Mark Exhaust Systems Ltd.
Mr. Sudhir Munjal	Munjal Auto Industries Ltd.
Mr. F.R. Singhvi	Sansera Engineering Pvt. Ltd.
Ms Shradha Suri Marwah	Subros Ltd.
Mr. Beni Daga	Baynee Industries
Mr. S.K. Arya	Jay Bharat Maruti Ltd.
Mr. Deepak Jain	Lumax Industries Ltd.
Mr. Pranav Kapuria	Hi-Tech Gears Ltd.
Mr. S. Ganesh	Liners India Ltd.
Mr. Vikram Mohan	Pricol Ltd.
Mr. C. N. Prasad	Sundaram - Clayton Ltd.
Mr Sriram Viji	Brakes India Ltd.
Mr. Upkar Singh Ahuja	New Swan Enterprises
Mr. Ranjot Singh	Emdet Jamshedpur Pvt. Ltd.
Mr. Piyush Munot	ZF India Pvt. Ltd.
Ms. Harshbeena S. Zaveri	NRB Bearings Ltd.

Co-opted Members

Member	Company
Mr. Amit B. Kalyani	Bharat Forge Ltd.
Ms. Arathi Krishna	Sundaram Fasteners Ltd.
Ms. Gayathri Sriram	Ucal Products Pvt. Ltd.
Mr. Jagdeep Singh Rangar	Stork Rubber Products Pvt. Ltd.
Mr. S.J. Taparia	The Supreme Industries Ltd.
Mr. Sunjay Kapur	Sona Koyo Steering Systems Ltd.
Mr. Umesh Talwar	Talbros Automotive Components Ltd.

Special Invitees

Member	Company
Mr. Dharmesh Arora	INA Bearings India Pvt. Ltd.
Mr. Nishant Behera	RSB Transmissions (I) Ltd.
Mr. Deepak Chopra	Anand Automotive Ltd.
Mr. Tarang Jain	Varroc Engineering Pvt. Ltd.
Mr. Randeep Jauhar	Jamna Auto Industries Ltd.
Mr. Mayank Kejriwal	Kiswok Industries Pvt. Ltd.
Ms. Shuba Kumar	Natesan Synchrocones Pvt Ltd
Mr. Sanjay Malhotra	Jumps Auto Industries Ltd.
Mr. Anuj Mehta	Macas Automotive
Mr. Utkarsh Munot	ZF Steering Gear (India) Ltd.
Mr. Rohit Relan	Bharat Seats Ltd.
Mr. Rohit Saboo	National Engineering Industries Ltd.
Mr. Harish K.Sheth	Setco Automotive Ltd.
Mr. Gursharan Singh	Raunaq Automotive Components Ltd.
Mr. J. Sridhar	Magal Engg. Tech Pvt. Ltd.
Mr. Anmol Jain	Lumax Industries Ltd.

Regional Chairpersons

Member	Company
EASTERN REGION	
Mr. Killol Kamani	Samarth Engineering Co. Pvt. Ltd
NORTHERN REGION	
Mr. Nirmal K. Minda	Minda Industries Ltd.
SOUTHERN REGION	
Mr. Arvind Balaji	Lucas - TVS Ltd.
WESTERN REGION	
Mr. Kirti Rathod	Delux Bearings Ltd.

Deputy Regional Chairpersons

Member	Company
EASTERN REGION	
Mr. Sanjay Sabherwal	Metaldyne Industries Ltd.
NORTHERN REGION	
Mr. Sunil Arora	Abilities India Pistons & Rings Ltd.
SOUTHERN REGION	
Mr. A. Venkataramani	India Pistons Ltd.
WESTERN REGION	
Mr. Arvind Goel	TATA AutoComp Systems Ltd.

Zonal Co-ordinators

Eastern Region

Name	Zone	Company Name
Ranjot Singh	Jamshedpur	Emdet Jamshedpur Pvt Ltd
Mayank Kejriwal	Kolkata	Kiswok Industries Pvt Ltd

Northern Region

Name	Zone	Company Name
Sunil Arora	UP	Abilities India Piston & Rings Ltd
Sanjay Malhotra	New Delhi	Jumps Auto Industries Ltd
Rajesh Jain	Rohtak	Lakshmi Precision Screws Ltd
Sheetal Dhawan	Uttarakhand	Minda Industries Ltd
US Ahuja	Ludhiana	New Swan Enterprises
Satish Garg	Faridabad	Sadhu Forgings Ltd

Southern Region

Name	Zone	Company Name
KN Prasad	Karnataka & Hosur	Toyota Kirloskar Auto Parts Pvt Ltd
S Ganesh	Andhra Pradesh	Liners India Ltd
Vikram Mohan	Coimbatore	Pricol Ltd
J Sridhar	Chennai	Magal Engg Tech Pvt Ltd

Western Region

Name	Zone	Company Name
Piyush I Tamboli	Gujrat	Investment & Precision Castings Ltd
Balbir Singh Chhabra	Nashik	Right Tight Fastners Pvt. Ltd
Sunil Kumar	Pithampur/Dewas (Madhya Pradesh)	AVTEC Limited - Power Unit Plant
Anirban Mukherji	Pune	Bharat Forge Ltd
Pawan Choudhary	Aurangabad	Hindustan Composites Ltd

WORKFORCE 2014-15

Head Office

Abhishek Chopra
Amit Mukherjee
Anjali Nair
Anupam Kaushik
Ashok Kumar
Ashok Kumar Kamath
Ashwani Kumar
Chandu Chaudhary
Debasish Maity
Deepak Rajput
Deepti Panikker
Ecktta
Harish Kapoor
Harkaran Malhotra
Lokesh Raina
Monika S. Handa
Niladri Mallick
Pooja Sharma
Prem Kumar
Rajat Gaur
Rajat Puri
Rajeshwar Rai
Rupender Kaushik
Sapna Vijn
Seema Babal
Sheetal Gupta
Subhag Naqvi
Sushil Rajput
Vijay Kanojia
Vikram Saigal
Vinnie Mehta

Act Division

Aniket Khasnis
Arun V. Bage
Atul Kr. Gupta
Binny Tomy
Dinesh A. Vedpathak
D. Umadevi (Ms.)
Jitender Rana
K. P. S. Raghuvanshi
K. R. Bhoopalan
L. Murughendra
Rahul Kumar
Rajan Ramanathan
Sakshi S. Karkamkar
Sapana Milind Baravkar
S B Dokey
S. Narayanan
Srinidhi Sharma
S. Selvamani
Uday S Harite
V K Sharma

Eastern

Rahul Kumar
Vadivelan Gounder
Yogita Satpathy

Southern

Anil Kumar Unni
G Mani
Neeraja S. Rao
Priya Sriram
R. Hariram
R. Raja Shekhar
R. Sharma

Western

Ashwani Anupam Kulkarni
Ashwani Jotshi
Jeetendra Kumar Singh
K Chandrasekhar
Lincy Varghese
Sudesh Janardhan Sutar
Suhas Appa Pandave
Sunil Mutha
Vijith Vijayan Nair

Northern

Hansraj Sharma
Jairaj Kumar
Mahesh Gupta
Mayank Nigam
Meenakshi Narayanan

LIST OF MEMBERS

A

A Raymond Fasteners India Pvt. Ltd.
 A.G.Industries Pvt. Ltd.
 Aar Aar Technoplast Pvt. Ltd.
 ABC Bearings Ltd.
 Abhijeet Plastics India Pvt. Ltd. Unit III
 Abhijeet Techno-Plast (I) Pvt. Ltd.
 Abilities India Pistons & Rings Ltd.
 Accurate Products Corporation Pvt. Ltd.
 Ace International
 Acey Engineering Pvt. Ltd.
 Aditya Auto Products & Engineering (I) Pvt. Ltd.
 Admach Auto India Ltd.
 Advance Forgings Pvt. Ltd.
 Advik Hi-Tech Pvt. Ltd.
 Aequus Automotive Pvt. Ltd.
 Agrasen Engineering Industries Ltd.
 Agrim Components Pvt. Ltd.
 Aisin Automotive Karnataka Pvt. Ltd.
 Akal Spring Ltd.
 Akar Tools Ltd.
 ALF Engineering Pvt. Ltd.
 Alfa Flexitubes Pvt. Ltd.
 A Raymond Fasteners India Pvt. Ltd.
 Alicon Castalloy Limited
 All India Rubber Industries Association
 Allena Auto Industries Pvt. Ltd.
 Allevard IAI Suspensions Pvt. Ltd.
 Allied Nippon Ltd.
 Almighty Auto Ancillary Pvt. Ltd.
 ALP Nishikawa Company Ltd.
 Alphaa Springs Chennai (P) Ltd.
 Amalgamations Repco Ltd.
 Ambattur Industrial Estate Manufacturers' Association (AIEMA)
 American Axle and Manufacturing Services (I) Pvt. Ltd.
 Ample Auto Tech Pvt. Ltd.

Amtek Auto Ltd.
 Amul Industries Pvt. Ltd.
 AMW Auto Component Ltd.
 Anand Automotive Pvt. Ltd.
 Anand I-Power Ltd.
 Anand Motor Products Pvt. Ltd.
 Anand NVH Products (P) Ltd.
 Anand Piston International
 ANG Industries Ltd.
 Anu Industries Ltd.
 Apls Automotive Industries Pvt. Ltd.
 ARB Bearings Ltd.
 Aristocraft International Pvt. Ltd.
 Arvind Engineering Works Ltd.
 Asahi India Glass Ltd.
 Ashok Iron Works Pvt. Ltd.
 Ashra Consultants Pvt Ltd.
 Ashutosh Rubber Pvt. Ltd.
 ASK Automotive Pvt. Ltd.
 ASL Industries Pvt. Ltd.
 Aspee Precision Components Pvt. Ltd.
 Aspee Springs Ltd.
 Aspra Engineering India Pvt. Ltd.
 Associated Manufacturing Company
 Aurangabad Electricals Ltd.
 Auro Plastic Injection Moulders Pvt. Ltd.
 Auto Cluster Development and Research Institute Ltd.
 Auto Ignition Ltd.
 Auto Pins (India) Ltd.
 Auto Shell Perfect Moulder Ltd.
 Autocomp Corporation Panse Pvt. Ltd.
 Autocop (India) Pvt. Ltd.
 Autofit Pvt. Ltd.
 Autoflex Pvt. Ltd.
 Autoline
 Autolite (India) Ltd.
 Autoliv India Pvt. Ltd.
 Autometers Alliance Ltd.

Automotive Axles Ltd.
 Automotive Valves Pvt. Ltd.
 Autostart India Pvt. Ltd.
 AVO Carbon India (P) Ltd.
 AVR Valves Pvt. Ltd.
 AVS Brake Linings Pvt. Ltd.
 Avtec Ltd.
 Axles India Ltd.

B

Badve Engineering Ltd.
 Bajaj Motors Ltd.
 Balu India
 Banco Products (India) Ltd.
 BASF Catalysts India Pvt. Ltd.
 Baynee Industries
 Benara Bearings & Pistons Ltd.
 Benara Udyog Ltd.
 Besmak Components Pvt. Ltd.
 Besoto Starting Systems Pvt. Ltd.
 Best Koki Automotive (P) Ltd.
 Beta Industrial Products
 Bharat Axles Pvt. Ltd.
 Bharat Forge Ltd.
 Bharat Gears Ltd.
 Bharat Seats Ltd.
 Bhavani Industries
 Bill Forge Pvt. Ltd.
 Bimetal Bearings Ltd.
 Bindra Motors Pvt. Ltd.
 Birla Precision Technologies Ltd.
 BMC Metalcast Ltd.
 Bohra Rubber Pvt. Ltd.
 Bollhoff Fastenings Pvt. Ltd.
 Bond Safety Belts
 Bony Polymers Pvt. Ltd.
 Borgwarner Cooling Systems India Pvt. Ltd.
 Borgwarner Morse Tec India Pvt. Ltd.

Bosch Chassis Systems India Ltd.

Bosch Ltd.

Brakes India Ltd.

Brakewel Automotive Components (I) Pvt. Ltd.

Brembo Brake India Pvt. Ltd.

Bright Autoplast Ltd.

Brose India Automotive Systems Pvt. Ltd.

Bundy India Ltd.

C

C.M. Smith & Sons Ltd.

Calex Auto

Caltherm Thermostats Pvt. Ltd.

Carl Bechem Lubricants (India) Pvt. Ltd.

Carrier Wheels Pvt. Ltd.

Chamber of Marathwada Industries and Agriculture

Champak Plastics Pvt. Ltd.

Chandok Automotive Manufacturers Ltd.

Chang Yun India Ltd.

Chaphekar Engineering Pvt. Ltd.

Chennai Institute of Technology

Chopra Autotech Pvt. Ltd.

CI Car International Pvt. Ltd.

Circlips India Pvt. Ltd.

Citizen Press Components

Climax Overseas Pvt. Ltd.

Clutch Auto Ltd.

Comstar Automotive Technologies Pvt. Ltd.

Concentric Pumps Pune Pvt. Ltd.

Conic Automotive Pvt. Ltd.

Continental Automotive Components (India) Pvt. Ltd.

Continental Engines Ltd.

Cooper Corporation Pvt. Ltd.

Coventry Coil-O-Matic (HR) Ltd.

CRP (India) Pvt. Ltd.

Cummins Technologies India Ltd.

D

D P Engineering Industries Ltd.

Daewon India Autoparts Pvt. Ltd.

Dali & Samir Engineering Pvt. Ltd.

Dana India Pvt. Ltd.

DCM Engineering Products

Dell'orto India Pvt. Ltd.

Delphi Automotive Systems Pvt. Ltd.

Delphi-TVS Diesel Systems Ltd.

Deltronix India Ltd.

Delux Bearings Pvt. Ltd.

Demanik Enterprises

Denso International India Pvt. Ltd.

Deusch Motocomp Pvt. Ltd.

Devendra Exports Pvt. Ltd.

Devilog Systems (India)

Dhanjal Impex Pvt. Ltd.

Dhoot Transmission Pvt. Ltd.

Dipty Lal Judge Mal Pvt. Ltd.

DME (India) Pvt. Ltd.

Donaldson India Filter Systems Pvt. Ltd.

Duroshox Pvt. Ltd.

Durovalves India Pvt. Ltd.

DVS Industries Pvt. Ltd.

Dyna-K Automotive Stampings Pvt. Ltd.

Dynamatic Technologies Ltd.

E

E.I. Dupont India Pvt. Ltd.

Eaton Industrial Systems Pvt. Ltd.

Ecocat (India) Pvt. Ltd.

Elcomponics Sales Pvt. Ltd.

Electrica Engineers (India) Pvt. Ltd.

Electromags - A Division of Bombay Bermah Trading Corp. Ltd.

Elofic Industries Ltd.

Emdet Jamshedpur Pvt. Ltd.

Emission Controls Manufacturers Association

Emkay Automobile Industries Ltd.

Emmbros Autocomp Ltd.

Endurance Technologies Pvt. Ltd.

Engineering Technologies

Escorts Ltd.

Essae Digitronics Pvt. Ltd.

Excel Polymotive

Exedy India Ltd.

Exotech Zanini Industries Pvt. Ltd.

F

FAG Bearings India Ltd.

Fairfield Atlas Ltd.

Fanuc India Private Ltd.

Faurecia Automotive Seating India Pvt. Ltd.

Faurecia Emissions Control Technologies India Pvt. Ltd.

Faurecia Interior Systems India Pvt. Ltd.

Federal-Mogul Goetze (India) Ltd.

Ferromatik Milacron India Pvt. Ltd.

Fiem Industries Ltd.

Fine Blanking Pvt. Ltd.

Flash Electronics (I) Pvt. Ltd.

Fleetguard Filters Pvt. Ltd.

Flowwell Castings Pvt. Ltd.

Flywheel Ring Gears Pvt. Ltd.

Foundation Brake Manufacturing Ltd.

Friends Auto (India) Ltd.

Friends Castings Pvt. Ltd.

G

G B Rubber Products

G I Auto Pvt. Ltd.

G. S. Auto International Ltd.

Gabriel India Ltd.

Gajra Gears Pvt. Ltd.

Gala Precision Engineering Pvt. Ltd.

Galaxy Bearings Ltd.

Galaxy Indicators (I) Pvt. Ltd.

Gatiman Auto Pvt. Ltd.

Gearock Forge Pvt. Ltd.

Ghaziabad Precision Products Pvt. Ltd.

Gilard Electronics Pvt. Ltd.

GKDITR- Tooling Centre

GKN Driveline (India) Ltd.

GKN Sinter Metals Pvt. Ltd.

Global Automotive Components (P) Ltd.
 Global Autotech Ltd.
 GNA Axles Ltd.
 GNA Duraparts Ltd.
 GNA Udyog Ltd.
 Gold Seal Engineering Products Pvt. Ltd.
 Gold Seal-SaarGummi India Pvt. Ltd.
 Goldy Precision Stampings Pvt. Ltd.
 Grace Infrastructure Pvt. Ltd.
 Graziano Trasmissioni India Pvt. Ltd.
 Greenfuel Energy Solutions Pvt. Ltd.
 Gulati Auto Electricals Pvt. Ltd.
 Guru Nanak Auto Enterprises Ltd.

H

Haldex India Ltd.
 Halla Visteon Climate Systems India Pvt.Ltd.
 Halonix Ltd.
 Happy Steels Pvt. Ltd.
 Harita Seating Systems Ltd.
 Harman International (India) Pvt. Ltd.
 Harsha Engineers Ltd.
 Hella India Automotive Pvt Ltd.
 Hella India Lighting Limited
 Helvoet Rubber & Plastic Technologies (India) Pvt. Ltd.
 Hero Cycles Ltd.
 Hero Motors Ltd.
 Highco Engineers (P) Ltd.
 Highway Industries Ltd.
 Hilux Auto Electric Pvt. Ltd.
 Hi-Lux Automotive Pvt. Ltd.
 Hinduja Foundries Ltd.
 Hindustan Composites Ltd.
 Hindustan Hardy Spicer Ltd
 Hirschvogel Components India Pvt. Ltd.
 Hi-Tech Engineering Systems Pvt. Ltd.
 Hi-Tech Gears Ltd.
 Hitkari Hitech Fibres Pvt. Ltd.
 Hodek Vibration Technologies Pvt. Ltd.

Honeywell Turbo Technologies India Pvt. Ltd.

Horizon Industrial Products Pvt. Ltd.

Huf India Pvt. Ltd.

I

I E Auto Industrial Enterprise Pvt. Ltd.
 I P Rings Ltd.
 Ibex Products Pvt. Ltd.
 IFB Automotive Pvt. Ltd.
 IFB Industries Ltd.
 IM Gears Pvt. Ltd.
 Imperial Auto Industries Ltd.
 INA Bearings India Pvt. Ltd.
 India Forge and Drop Stampings Ltd.
 India Japan Lighting Pvt. Ltd.
 India Nippon Electricals Ltd.
 India Pistons Ltd.
 Indian Diecasting Industries
 Indication Instruments Ltd.
 Indo Autotech Ltd.
 Indo-Schottle Auto Parts Pvt. Ltd.
 Indo-Shell Mould Ltd.
 Indo-US MIM Tec. Pvt. Ltd.
 Industrial Engineering Syndicate
 Industrial Forge & Engineering Co. Ltd
 Industrial Rubber Products
 Industrial Rubber Products Pvt. Ltd.
 Industrias Del Recambio India Pvt. Ltd.
 Infineon Technologies India Pvt. Ltd.
 Injectoplast Pvt. Ltd.
 Innova Rubbers Pvt. Ltd.
 Insulation & Electrical Products Pvt. Ltd.
 Integra Automation Pvt. Ltd.
 Interface Microsystems
 Inteva Products India Automotive Pvt. Ltd.
 Investment & Precision Castings Ltd.
 IST Ltd.

J

J. K. Fenner (India) Ltd.
 Jagan Lamps Ltd.

Jai Bhavani Mata Engitech Pvt. Ltd.

Jalex Automotive Pvt. Ltd.

Jamna Auto Industries Ltd.

Japji Enterprises

Jay Bharat Maruti Ltd.

Jay Switches (India) Pvt. Ltd.

Jay Ushin Ltd.

Jaya Hind Industries Ltd.

Jayashree Polymers Pvt. Ltd.

Jayem Auto Industries Pvt. Ltd.

JBM Auto Ltd.

JBM Ogihara Automotive India Ltd.

JM Fricttech India Pvt. Ltd.

Johnson Matthey India Pvt. Ltd.

JSK Bearings Company Pvt. Ltd.

Jtekt Sona Automotive India Ltd.

Jumps Auto Industries Ltd.

K

K.M.P. Manufacturing Company
 K.R. Industries
 Kafila Forge Ltd.
 Kalra Overseas & Precision Engineering Ltd.
 Exotech Zanini Industries Pvt. Ltd.
 Kalyani Forge Ltd.
 Kamal Rubplast Industries Pvt. Ltd.
 Kar Mobiles Ltd.
 Kavia Engineering Private Ltd.
 Kay Jay Forgings Pvt. Ltd.
 KCTR Varsha Automotive Pvt. Ltd.
 Keihin India Manufacturing Pvt. Ltd.
 Kems Forgings Ltd.
 Kern-Liebers Springs & Stampings Pvt. Ltd.
 KIE Engineering Pvt. Ltd.
 Kiran Udyog
 Kirat Plastics Pvt. Ltd.
 Kirloskar Toyota Textile Machinery Pvt. Ltd.
 Kishan Autoparts Pvt. Ltd.
 Kiswok Industries Pvt. Ltd.
 Klassic Wheels Pvt. Ltd.

Knorr-Bremse Systems for
Commercial Vehicles India Pvt. Ltd.

Kongovi Electronics Pvt. Ltd.

Kores (India) Ltd.

KOSTAL India Pvt. Ltd.

Kova Fasteners Pvt. Ltd.

Koyo Bearings India Pvt. Ltd.

Krishna Maruti Ltd.

KSPG Automotive India Pvt. Ltd.

KSS Abhishek Safety Systems Pvt.Ltd.

Kulkarni Engineers

Kunstocom (India) Ltd.

Kusalava International Ltd.

L

L. G. Balakrishnan & Bros. Ltd.

Lakhani Rubber Works

Lakshmi Precision Screws Ltd.

Lasko Engineering Co.

Laxmi Metal Pressing Works Pvt. Ltd.

Lear Automotive India Pvt. Ltd.

Lifelong India Ltd.

Linamar India Pvt. Ltd.

Liners India Ltd.

Litens Automotive (India) Pvt. Ltd.

Lucas TVS Ltd.

Luk India Pvt. Ltd.

Lumax Auto Technologies Ltd.

Lumax Automotive Systems Ltd.

Lumax Cornaglia Auto
Technologies Pvt. Ltd.

Lumax DK Auto Industries Ltd.

Lumax Industries Ltd.

Lumax Mannoh Allied
Technologies Ltd.

Luthra Industrial Corporation

M

M & M Machine Craft Pvt. Ltd.

M.D. Industries

M.K. Auto Industries

M.V.D. Auto Components Pvt. Ltd.

Maadhav Automotive Fasteners Pvt. Ltd.

Macas Automotive

Machino Plastics Ltd.

Machino Polymers Ltd.

Maco Pvt. Ltd.

Madhusudan Auto Ltd.

Madras Engineering Industries Pvt. Ltd.

Madras Radiators And Pressings Ltd.

Mag Filters & Equipments Pvt. Ltd.

Magal Engg. Tech Pvt. Ltd.

Magna Closures Automotive Pvt. Ltd.

Magneti Marelli India Pvt. Ltd.

Magnum MI Steel Pvt. Ltd.

Mahindra CIE Automotive Ltd.

Mahindra Gears & Transmissions
Pvt. Ltd.

Mahindra Hinoday Industries Ltd.

Mahindra Sona Ltd.

MAHLE Behr India Ltd.

MAHLE Engine Components India
Pvt. Ltd.

Mahle Filter Systems (India) Ltd.

Mahratta Chamber of Commerce,
Industries & Agriculture

Maini Precision Products Pvt. Ltd.

Makino Auto Industries Pvt. Ltd.

Mandap International Pvt. Ltd.

Mando Automotive India Pvt. Ltd.

Mangal Industries Ltd.

Mann and Hummel Filter Pvt. Ltd.

Mansons International Pvt. Ltd.

Marathwada Auto Compo Pvt. Ltd.

Mark Exhaust Systems Ltd.

Masu Brakes Pvt. Ltd.

Maxop Engineering Co. Pvt. Ltd.

Mayur Uniquoters Ltd.

MEC Bearings Pvt. Ltd.

Meenakshi Polymers Pvt. Ltd.

Mehta Engineers Ltd.

Menon and Menon Ltd.

Metaforge Engineering (India) Pvt. Ltd.

Metal Form

Metal Shaping & Processing Pvt. Ltd.

Metaldyne Industries Ltd.

Metalman Auto Pvt. Ltd.

Metalman Micro Turners

Metalsa India Pvt. Ltd.

Micron Enterprises

Microsign Products

Mikuni India Pvt. Ltd.

Minda Corporation Ltd.

Minda Furukawa Electric Pvt. Ltd.

Minda Industries Ltd.

Minda Sai Limited

Minda Silca Engineering Ltd.

Minda Stoneridge Instruments Ltd.

Minda Valeo Security Systems Pvt. Ltd.

Mindarika Pvt. Ltd.

Mitsuba Sical India Ltd.

Mitsubishi Electric Automotive
India Pvt. Ltd.

MK Autocomponents India Ltd.

MK Fasteners

MM Auto Industries Limited

Mobis India Ltd.

Motherson-Sumi Systems Ltd.

Mrinalini Industries

Mubea Automotive India Pvt. Ltd.

Multitech Auto Pvt. Ltd.

Mungi Engineers Pvt. Ltd.

Munjali Auto Industries Ltd.

Munjali Kiriu Industries Pvt. Ltd.

Munjali Showa Ltd.

Musashi Auto Parts India Pvt. Ltd.

Mutha Founders Pvt. Ltd.

Mutual Industries Ltd.

N

Nachi KG Tecnology India Pvt. Ltd.

Napino Auto & Electronics Ltd.

Nash Products

National Engg. Industries Ltd.

Nelcast Ltd.

Nelson Global Products India Pvt. Ltd.

Nemak Aluminium Castings India
Pvt. Ltd.

Neolite ZKW Lightings Pvt. Ltd.

NeoSymb Industry Ltd.
 New Swan Autocomp (P) Ltd.
 New Swan Enterprises
 Nexteer Automotive India Pvt. Ltd.
 NGK Spark Plugs (India) Pvt. Ltd.
 NHK Automotive Components India Pvt. Ltd.
 Nicks Auto Industries Pvt. Ltd.
 Nipman Fastener Industries Pvt. Ltd.
 Nippon Audiotronix Ltd.
 Nippon Thermostat (India) Ltd.
 Nissim India Pvt. Ltd.
 Nitto Denko India Pvt. Ltd.
 Norma Group Products India Pvt. Ltd.
 NRB Bearings Ltd.
 NTF (India) Pvt. Ltd.

O

Ocap Chassis Parts Pvt. Ltd.
 Oetiker India Pvt. Ltd.
 Omax Autos Ltd.
 Onassis Auto Ltd.
 Orbit Bearings India Pvt. Ltd.
 Oswal Castings Pvt.Ltd.
 Owari Precision Products (India) Pvt. Ltd.

P

Pacco Industrial Corporation
 Padmini VNA Mechatronics Pvt. Ltd.
 Panalfa Autoelektrik Ltd.
 Paracoat Products Ltd.
 Paranjape Autocast Pvt. Ltd.
 Paras Auto Industries
 Parkash Automotive Industries (P) Ltd.
 Pasio Aircon Pvt. Ltd.
 Paul Components Pvt. Ltd.
 Pavna Auto Engineering Pvt. Ltd.
 Pee Aar Exim Pvt. Ltd.
 Perfect Industries (India)
 Perfect Polymers
 Peter-Lacke India Pvt. Ltd.
 Piano Presitel
 Pinnacle Industries Ltd.

Plastic Omnium Auto Exteriors (India) Pvt. Ltd.
 Polyplastics Industries (India) Pvt. Ltd.
 Pooja Forge Ltd.
 Poona Shims Pvt. Ltd.
 Porwal Auto Components Ltd.
 Power Industries
 PPAP Automotive Ltd.
 Prabha Engineering Pvt. Ltd.
 Pranav Vikas (India) Pvt. Ltd.
 Pravin Engineering Pvt. Ltd.
 Precision Auto Industries
 Precision Autowares Pvt. Ltd.
 Precision Camshafts Ltd.
 Precision Engineering
 Precision Tech Enterprises
 Premium Mouldings & Pressings Pvt. Ltd.
 Presco-Mec Autocomp Pvt. Ltd.
 Pricol Ltd.
 Progressive Gear Industries (P) Ltd.
 Propel Metaltech
 PRS Permacel Pvt. Ltd.
 Punch Ratna Fasteners Pvt. Ltd.
 Punjab Bevel Gears Ltd.
 Purofil Auto (India) Pvt. Ltd.

Q

QH Talbros Ltd.

R

R.K. Profiles Pvt. Ltd.
 Radiant Complast Pvt. Ltd.
 Radiant Polymers Pvt. Ltd.
 Rajatdeep Overseas Pvt. Ltd.
 Rajhans Pressings Pvt. Ltd.
 Rajnish Industries Pvt. Ltd.
 Rajsriya Automotive Industries Pvt. Ltd.
 Ramkrishna Forgings Ltd.
 Ramsays Corporation Pvt. Ltd.
 Rane (Madras) Ltd.
 Rane Brake Lining Ltd.
 Rane Engine Valve Ltd.

Rane NSK Steering Systems Pvt.Ltd.
 Rane TRW Steering Systems Pvt.Ltd.
 Rane Polymers Pvt. Ltd.
 Rangamma Steels & Malleables
 Rasandik Engg. Industries (I) Ltd.
 Raunaq Automotive Components Ltd.
 Rawats International Pvt. Ltd.
 RDH Auto
 Remsons Industries Ltd.
 Rico Auto Industries Ltd.
 Rico Castings Ltd.
 Right Tight Fastner Pvt. Ltd.
 Rinder India Pvt. Ltd.
 Ring Plus Aqua Ltd.
 Rising Sun International
 Rockman Industries Ltd.
 Rolex Rings Pvt. Ltd.
 Roop Automotives Ltd.
 Roop Polymers Ltd.
 Roots Industries India Ltd.
 Rosmerta Autotech Pvt. Ltd.
 Rotex Automation Ltd.
 Roulunds Braking (India) Pvt. Ltd.
 RPK India Pvt. Ltd.
 RSB Transmissions (I) Ltd.
 Rucha Technologies Pvt. Ltd.

S

S. M. Auto Engineering Pvt. Ltd.
 S. S. Engineering Works
 S.K. Spring Co.
 SAC Engine Components Pvt. Ltd.
 Sadhu Forging Ltd.
 Sainik Spring Works
 Saint Gobain Glass India Ltd.
 Sakthi Auto Component Ltd.
 Samarth Engg. Co. Pvt. Ltd.
 Samson Industries
 Sanatan Autoplast Pvt. Ltd.
 Sanauto Engineers (India) Pvt. Ltd.
 Sandeep Axles Pvt. Ltd.
 Sandeep Metalcraft Pvt. Ltd.
 Sanden Vikas (India) Pvt. Ltd.

Sandhar Technologies Ltd.	SKH Metals Ltd.	Suprajit Engineering Ltd.
Sandhu Auto Engineers	Sober Auto Industries	Supreme-Treves Pvt. Ltd.
Sanjeev Auto Parts Manufacturers Pvt. Ltd.	SOGEFI MNR Filtration India Pvt. Ltd.	Suraj General Engineers (P) Ltd.
Sankar Sealing Systems Pvt. Ltd.	Somic ZF Components Ltd.	Surya Springs
Sanko Gosei JRG Automotive (I) Pvt. Ltd.	Sona BLW Precision Forgings Ltd.	T
Sansera Engineering (P) Ltd.	Sona Koyo Steering Systems Ltd.	T.K. Precision Pvt. Ltd.
Santech Motors Pvt. Ltd.	Soni Auto & Allied Industries Ltd.	Takata India Pvt. Ltd.
Sathya Auto Pvt. Ltd.	Spaco Technologies (India) Pvt. Ltd.	Talbro's Automotive Components Ltd.
Sati Auto Components Pvt. Ltd.	Special Engineering Services Ltd.	Talbro's Cork Products Pvt. Ltd.
Satyam Auto Components Ltd.	Special Tools Pvt. Ltd.	Talbro's Engineering Ltd.
Sawalka Kel Pvt. Ltd.	Spectra products Pvt. Ltd.	Tata Autocomp Systems Ltd.
Sea Hydrosystems India Pvt. Ltd.	Spicer India Ltd.	Tata Consultancy Services Ltd.
Sebros Auto Pvt. Ltd.	SPM Autocomp Systems Pvt. Ltd.	Tata Toyo Radiator Ltd.
Seema & Co.	Spun Micro Processing (P) Ltd.	Taylor Rubber Pvt. Ltd.
Sekisui DLJM Molding Pvt. Ltd.	SSV Valves	TE Connectivity india Pvt. Ltd.
Sellowrap EPP India Pvt. Ltd.	Standard Radiators Pvt. Ltd.	Tech Auto Pvt. Ltd.
Sellowrap Industries Pvt. Ltd.	Star Engineers (India) Pvt. Ltd.	Technico Industries Ltd.
Senior India Pvt. Ltd.	Steel Strips Wheels Ltd.	Technocrat Connectivity Systems (P) Ltd.
Sensing Technologies Pvt. Ltd.	Steelbird International	Technosystems
SEP India Pvt. Ltd.	Steriware Plastic Products Pvt. Ltd.	Teksons Pvt. Ltd.
Setco Automotive Ltd.	Sterling Tools Limited	Tenneco Automotive India Pvt. Ltd.
Sharada Industries	Stork Auto Engineering Pvt. Ltd.	Terminal Technologies (I) Pvt. Ltd.
Sharda Motor Industries Ltd.	Stork Rubber Products Pvt. Ltd.	Tespa Tools Pvt. Ltd.
Sheet Shapers	Stumpp Schuele & Somappa Springs Pvt. Ltd.	Texspin Bearings Ltd.
Shilpi Cable Technologies Ltd.	Subros Limited	TG Kirloskar Automotive Pvt. Ltd.
Shivam Autotech Ltd.	Sudisa Foundry (P) Ltd.	The Automotive Research Association of India
Shivani Locks Pvt. Ltd.	Sujan Cooperstandard AVS Pvt. Ltd.	The Supreme Industries Ltd.
Shore Auto Rubber Exports Pvt. Ltd.	Sulzer Friction Systems India Ltd.	Tightwell Fasteners
Showa India Pvt. Ltd.	Sumit Enterprises	TKW Fasteners Pvt. Ltd.
Shree Amba Industries	Sunbeam Auto Pvt. Ltd.	Tosy Auto Products
Shree Shyam Global	Sundaram Auto Components Ltd.	Toyota Boshoku Automotive India Pvt. Ltd.
Shriram Alpine Sales Pvt. Ltd. C/o Shriram Automotive Products Ltd.	Sundaram Brake Linings Ltd.	Toyota Kirloskar Auto Parts Pvt. Ltd.
Shriram Foundry Ltd.	Sundaram Clayton Ltd.	Toyotetsu India Auto Parts Pvt. Ltd.
Shriram Pistons & Rings Ltd.	Sundaram Industries Ltd.	Track Components Ltd.
Sigma Automotive Materials Pvt. Ltd.	Sundram Fasteners Ltd.	Transvahan Technologies India Pvt. Ltd.
Sigma Corporation (India) Ltd.	Sunpac Auto (India) Pvt. Ltd.	Trelleborg Automotive India Pvt. Ltd.
Sigma Freudenberg NOK Pvt. Ltd.	Sunstar Precision Forge Ltd.	TrelleborgVibracoustic (India) Pvt. Ltd.
Sigma Moulds & Stampings Pvt. Ltd.	Sunvisors India Pvt. Ltd.	Trigno Engineering Pvt. Ltd.
Singhbhum Machinometal Pvt. Ltd.	Super Circle Auto Ltd.	Trim India Pvt. Ltd.
Singla Forging	Super Nova Auto Industries	TRW Sun Steering Wheels Pvt. Ltd.
	Super Seals India Ltd.	
	Supercircle Pvt. Ltd.	

TSMMPR Theepan Industries
 Tube Investments of India Ltd.
 Turbo Energy Pvt.Ltd.
 TVS Educational Society
 TVS Infotech Ltd.
 TVS Logistics Services Ltd.
 Twenty First Century Auto Locks Pvt. Ltd.

U

Ucal Fuel Systems Ltd.
 Ucal Products Pvt. Ltd.
 Ukay Metal Industries Pvt. Ltd.
 UMC Auto Industries Pvt. Ltd.
 Uni Deritend Ltd.
 Unitech Machines Ltd.
 Universal Wire Forms
 Usha International Ltd.
 USUI Susira International Private Ltd.

V

Valeo India Pvt. Ltd.
 Vanaz Engineers Ltd.
 Varroc Engineering Pvt. Ltd.
 Varroc Polymers Pvt. Ltd.
 VE Commercial Vehicles Ltd.
 Vibrant Auto Components Pvt. Ltd.
 Vibromech Engineers and Services Ltd.
 Victor Reinz India Pvt. Ltd.
 Victora Tool Engineers (P) Ltd.
 Vijayshree Autocom Ltd.
 Vikrant Auto Suspensions
 Vinayaka C.N.C. Centre (P) Ltd.
 Viral Engineers
 Visteon Automotive Systems India Pvt. Ltd.
 VNM Polymers Pvt. Ltd.
 Voith Turbo Pvt. Ltd.

W

WABCO India Ltd.
 Wahi Sons Pvt. Ltd.
 Western Auto Spares
 Western Auto Spares
 Western Thomson (India) Ltd.
 Wheels India Ltd.
 Wings Automobile Products (Pvt.) Ltd.
 Wire Rings
 Wriston Elastomers (P) Ltd.

Y

Yazaki India Pvt. Ltd.
 Yeshshree Press Comps. Pvt. Ltd.
 York Transport Equipment (India) Pvt. Ltd.
 Yoshama And Company Pvt. Ltd.
 Yugal Precision Pvt. Ltd.

Z

Z F India Pvt. Ltd.
 Zenith Forge Pvt. Ltd.
 ZF Steering Gear (India) Ltd.



**AUTOMOTIVE COMPONENTS
MANUFACTURERS ASSOCIATION
OF INDIA**

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Koramangala, Bangalore 560 047
Karnataka,
Tel: +91 80 2570 2855
Fax: +91 80 4093 9689
E-mail: acmakh@airtelmail.in

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Office No. C,
10th Floor, Godrej Eternia "C",
Old Mumbai-Pune Highway,
Wakdevadi, Shivaji Nagar,
Pune 411 005
Maharashtra
Tel: +91 206606 1219
Telefax: +91 20 6606 1220
E-mail: acmawr@acma.in

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Zonal Office
(Mumbai)
80, Dr. Annie Besant Road,
Worli, Mumbai 400 018
Maharashtra
Tel: +91 22 2493 3507
2497 5877, 2498 6527
Fax: +91 22 2493 6527
E-mail: acmawr@acma.in

Western Region

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C/O Delux Bearings Ltd.,
Paritosh Building,
6th Floor, Near Darpana Academy,
Usmanpura
Ahmedabad-380 013, Gujrat
E-mail: acmawr@acma.in