

Aequs and Agility

Buzzword for sustainability and growth in the fourth industrial age



Aravind Melligeri, Chairman & CEO, Aequs Group

The latest wave of industrial revolution, popularly termed as Industry 4.0, has completely changed the way we look at production and operation in a manufacturing plant. While the third industrial revolution in the 1970s and '80s made the word disruptive take a whole new meaning with the introduction of computers and automation, Industry 4.0 has successfully managed to create a digital world that blurs the lines between the physical, digital, and biological spheres and connect them together in hitherto unimaginable ways.

Needless to say, in such an interconnected world, business leaders and budding entrepreneurs are swept by the wave of disruption and the only way to sustain is by moving with the times and staying agile.

Leveraging technology to achieve the right balance of capacity and capability

The manufacturing industry works on the principles of scale and diversity, and the aerospace sector is no different. The winning strategy is the one that use the right mix of resources – manpower, infrastructure and material – and channelize this for manufacturing diverse products in large volumes. Today, owing to the huge appetite for military, commercial and business aircraft worldwide, and mounting backlogs in clearing these deliveries, aerospace OEMs are under tremendous pressure to keep

costs low and seek out suppliers who have the capacity to absorb large orders and capability to deliver them flawlessly.

Suppliers who can quickly adopt to the latest technology and deliver on time are eagerly incorporated into the larger OEM supply chains. One such innovative technology that is being embraced by the aerospace industry is Flexible Manufacturing System (FMS). Simply put, FMS is two or more automated machining centres linked by a common controller, common load station, and a pallet pool system.

With FMS technology, manufacturers are able to achieve industry-leading agility by leveraging a system that is readily adaptable to changes in the product being manufactured, both in type and quantity. FMS can create precise customer value through goods of higher quality, in a scale dictated by demand, and with exact precision, with little or no operator intervention.

In its endeavor to stay agile and move with changing market dynamics, Aequs has set up an FMS cell to cater to the high demand of parts by major industry players like Airbus and PAG. It is the first of its kind in India in the aerospace sector that enables Aequs to be the top choice of global OEMs in delivering the relatively high mix, low volume product variety that are in great demand today. With the introduction of FMS technology, Aequs has achieved a level of flexibility that we have been seeing in the automotive industry.

With the changing face of manufacturing and supply chain, flexibility and adaptability will be game changers for today's manufacturers. With smart and adaptive manufacturing plants, the world is poised to witness unparalleled efficiency in the industry.

