

**‘TASK FORCE’ ON “TOYS MANUFACTURING”**  
**IMTMA DELEGATION to Aequs Private Limited, Belagavi on 12 January 2021**  
**Summary of the Visit**

**Aequs Plant Visits:**

**1) Precision Machining division: Aequs Aerospace Vertical**

- Precision machining for AeroStructures, AeroSystems (for wing and fuselage), Landing gear and Engine components are being carried out in this facility.
- Aequs Aerospace facility houses Vertical Machining Centres- 3 to 5 axis from DMG, HMC's VTL's for Mill-turn operations, deburring facility, CMM based inspection, bench assembly, component marking, assembly tooling(Jigs and Fixtures) and tool room for repair and reworking in-house needs.
- Sub-systems for plug door and over-wing exit door for aerospace majors are manufactured and assembled (partially) in this facility.
- Steel, Aluminium (soft) and Titanium, Inconel -exotic and hard material components are manufactured in the aerospace facility
- Aequs has two branches one in Paris- France and another in Houston-USA for supply chain management
- Aerospace components being manufactured for aerospace industries are exhibited in their facility.

**2) Toys Manufacturing division: Aequs Consumer Manufacturing(ACM) Vertical**

- Aequs has JV with GFT, world's largest toy manufacturer.
- ACM has two integrated toys product development facilities for making plastic and plastic metal toys.
- Toys manufacturing division has Molding and Assembly infrastructure where toys for Hasbro, MATTEL and Spin Master are manufactured under contract.
- Sports, battle gun toys, water gun toys, nerf gun(foam dart) toys are manufactured in one of the shop/units. Dolls, theme based toys based on movies and TV shows, toy models of super heroes - Batman, Avengers and other such toys are manufactured in the second shop/unit.
- Majority of machines are blow moulding and plastic injection moulding machines, mostly Chinese and three machines are from Milacron. Injection molding machines are of HT- HIATIAN make in theme based toy making unit. Injection molding, printing & decoration, pad printing, assembly and packing sections are fully integrated in both the facilities.
- Toys are assembled using a line based conveyor system.
- Theme based toys need painting of the toys by skill based workforce.

**3) Requirements captured during the visit and interactive session:**

- a) **Plastic Injection Moulding machines and blow moulding machines** are required in substantial numbers (for the new unit in Koppal) in FY2021-22 and FY2022-23. *Requested Aequs to share the technical specifications and requirements of their requirement in advance to build / configure machines to match their requirement*
- b) Required substantial number of **Ultrasonic Welding Machines** for toy making
- c) Development of specific machines currently imported from China (e.g. automated painting machines)
- d) **Automation of Toys Painting related activities.** Toys painting is currently done manually by skilled workers. Automation although required, is difficult in painting related function zones due to frequent product changes, job type and quantities (volume). **This is a Priority area.**
- e) Pick, Place and Conveying(belt type), Packaging (assembly line) needs automation
- f) Automated toy testing rig / equipment
- g) Automation of final inspection of toys using image processing or visual inspection systems.
- h) Mechanism for identifying 'Missing Parts' (tiny parts) in finished products
- i) Open to purchase machines and try out products / machines offered by domestic players.
- j) Open to considering procurement of VMC's from domestic industries meeting their techno-commercial requirements. Aequs may not be considering purchase of VMC's in the financial year 2021-22.
- k) Aequs will also be venturing in to motorised and high technology toys in the near future

**4) Aequs expectation from vendors:**

- a) ***Apart from technically compliance Aequs expects long term credit or flexible financing options (e.g. leasing, payment in instalments etc.) matching offers from global players***
- b) Long term price stability
- c) Good service back up - onsite 24x7 support and availability of spares
- d) Partnership approach

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12 January 2021 : Belagavi**

<i>Time</i>	<i>Schedule</i>
<b>AEQUS Private Limited, Belagavi – Tuesday, 12 January 2021</b>	
1300 - 1400 <i>hours</i>	◆ Travel to Aequs from Belagavi Airport
1400 - 1430 <i>hours</i>	◆ Formalities / Lunch
1430 - 1730 <i>hours</i>	◆ Visit to Aequs facilities
1730 - 1740 <i>hours</i>	◆ Address by key official of Aequs
1740 – 1800 <i>hours</i>	◆ Address by IMTMA Office-bearer, Introduction of IMTMA delegation, and discussions with officials of Aequs.
1800 <i>hours</i>	◆ Vote of thanks & Departure of IMTMA delegation from Aequs.

**The following Delegates visited Aequs Private Limited, Belagavi on 12 January 2021**

<b>Sl.No</b>	<b>Company Name</b>	<b>Representative</b>	<b>Designation</b>	<b>Email</b>
1	Miven Mayfran Conveyors Pvt. Ltd.	Mr. Sandeep Sirur	Executive Director	sandeepsirur@mivenmayfran.com
2	Rajamane Industries	Mr. Rajendra S Rajamane	Managing Director	rajamane@rajamane.com
3	Nagel Special Machines	Mr. Nikhil Agrawal	Managing Director	nikhil.agarwal@nagelindia.in
4	Taurus Private Limited	Mr. Shuvo Mukhopadhyay	Business Head	sm@tauruspm.com
5	Milacron India Pvt. Ltd.	Mr. M. Amarnath	Assistant General Manager - Sales	M_Amarnath@milacron.com
6	Electronica Plastic Machines Ltd	Mr T A Rajshekhar	Regional Manager-Sales & Marketing	tar@electronicapmd.com
7	YUKEN India Limited	Mr. Hemanth N Gopal	CTO	hn_gopal@yukenindia.com
8	Setco Spindles India	Mr. Yogesh Patil	Sr. Sales Engineer	YogeshP@Setco.com
9	IMTMA	Mr. Satish Kumar	Senior Advisor	satishk@imtma.in
10	IMTMA	Mr. Lakshmipathi B	Executive Officer	lakshmipathi@imtma.in