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Jaya Hind Industries forays into Large Aluminum Structural Components

Pune, August 06, 2019 Jaya Hind Industries (Estd: 1947), a part of the Dr. Abhay Firodia group of companies, is amongst the country's largest and most trusted, "End-to-End Solutions" provider for aluminum castings to leading domestic and global OEMs. It now enters into manufacture of structural components for automobiles. Jaya Hind Industries has a technical agreement with a leading European company for producing complex aluminum structural parts. It has just concluded the development and manufacture of its first structural part for an auto OEM's forthcoming model using the high pressure die casting route.

The use of aluminum for various engine components like engine blocks, cylinder heads, clutch housing and transmission components, has been proven and adopted for a long time. However, adoption of aluminum for structural parts has not been on most OEMs' agenda in the Indian environment, primarily due to non-availability of component makers who had capability to do concurrent engineering with OEMs and develop such complex structural parts.

In its drive for improved fuel efficiency, lower emissions, the vehicle manufacturers are looking for ways to reduce weight of the vehicle. Light-weight cast components made from aluminum are becoming increasingly popular as they meet the weight reduction objectives without compromising on strength, reliability and durability. In this particular case the component identified for replacement with aluminum was a critical part, the chassis cross member assembly that supports and takes the load of the transmission.

Moving to the aluminum cross member helped the OEM achieve a weight reduction of 4kg (35%) without compromising on bending or torsional strength. In fact, the simulation tests indicate improvement of bending rigidity and torsional strength by over 60% as well as better NVH performance and consistency.

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The other advantages for the OEM were that this is a single stage manufacturing, with higher dimensional accuracy, without any additional processes like machining, primer application or top coat paint application. This part goes straight to the final assembly line.

Mr. Prasan Firodia, Managing Director Jaya Hind Industries said, “Though automobile manufacturers abroad are regularly using aluminum structural parts, in India this is being done for the first time. I am sure it will open up for Jaya Hind Industries, a whole new avenue of opportunities given the severe pressure on OEMs to light weight the vehicles”.

About Jaya Hind Industries

Jaya Hind Industries (part of the Dr. Abhay Firodia Group and established in 1947) is among the country’s largest and most trusted, end-to-end solution provider for aluminum castings for global OEMs.

Jaya Hind has developed a wide portfolio of critical parts ranging from 5 gms to 30 kgs, serving a variety of industries in automotive as well as non-automotive fields. With intelligent investments in tool design/ manufacturing on the upstream side and in machine / assembly on downstream side , Jaya Hind is able to offer end to end solutions to auto manufacturers for their various weight reduction /localization requirements.

With manufacturing facilities at Akurdi and Urse in Maharashtra, Jaya Hind has the largest in-house tool design and manufacturing capability and capacity in the die casting industry in India.

In line with its strategy of being close to its strategic customers based in South India and supporting international opportunities from Chennai port, Jaya Hind Industries has built a new green field plant in Chennai. This plant is dedicated for High Pressure Die casting process and has world-class, state-of-the-art die casting and machining equipment.

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