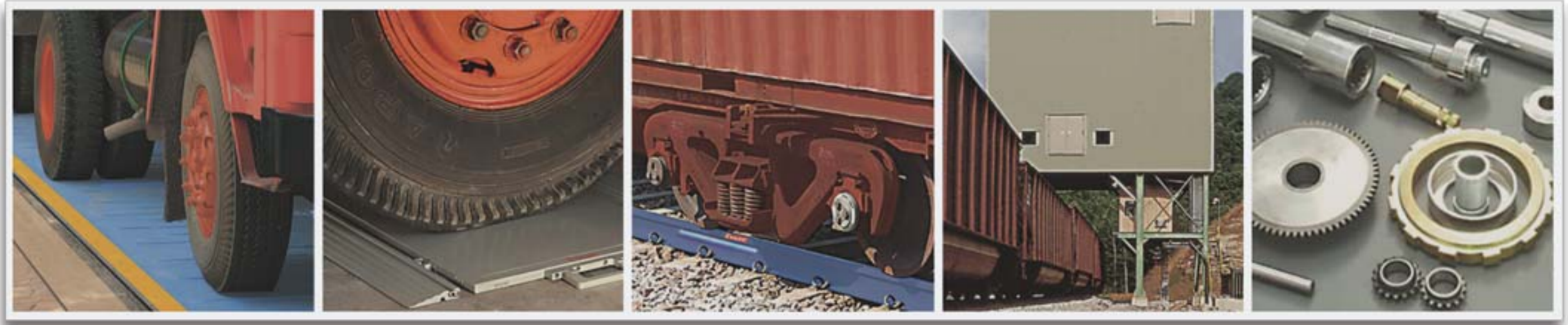


# Protecting Your Profits!



**Essae**  
<http://www.essae.in>



*A view of Essae Digitronics' manufacturing facility at Bommasandra.*



Incorporated in February 1996  
**Essae Digitronics Pvt. Ltd.**,  
an ISO 9001:2008 and  
ISO TS 16949:2008 certified  
company, comprises of FIVE divisions  
with three manufacturing facilities.  
Our business focus includes  
manufacturing and marketing of  
Truck Scales  
(Popularly know as Weigh Bridges).

Transient Weighing Products,  
Rapid Load-out Systems, Machined  
Components, and Speedo Hub  
Drive for Automotive Sector.

#### **Our Corporate Philosophy:**

- Respect humanity and harness the full potential of human beings
- Provide leadership and commitment towards our customer delight and strive to earn customer loyalty
- To have 'Essae Digitronics' synonymous with 'Excellence'
- Enhance the quality of life for all stakeholders – customers, employees, shareholders, vendors and society at large
- Enhance our systems and processes to attain world-class standards
- Adopt and excel in using latest technologies for manufacture and supply

#### **Our Mission:**

To enhance the quality of life of all our business associates by being obsessive with the quality of the products and services.

#### **Our Quality Policy:**

Obsession with the quality of the products and services to earn Customer Loyalty and Prosperity of all business associates through Total Quality is the Compass of Essae Digitronics



*Essae uses shot blasting (Swedish surface finish standards) for the fabricated structure. This eliminates surface contaminants and ensures a micro surface roughness to guarantee the adhesion of paint for a longer duration.*

# Truck Scale Division



*“Essae customers save billions of rupees since our truck scales enable them to know, accurately and consistently, how much they buy and how much they sell.”*

*- P. V. Shreedhar, GM-Marketing, Truck Scales*

Essae Digitronics caters to the needs of weighing in India. The factory layout is especially designed for the mass manufacture of truck scales, which ensures highly repeatable quality standards.

Over the last 15 years, Essae has finely harnessed the quality management process to ensure and assure best practices from sourcing to finishing of truck scales. 100 men are taking the heat everyday to ensure Essae Quality.

We can produce up to 150 Truck Scales per month. The range include :

- a) Load Capacity - 10 tons to 150 tons
- b) Platform size - 2m x 2m to 25m x 6m

With **over 4000 installations** across the country we can provide expert advice on the optimum type of weighbridge to suit your site conditions and meet your operational goals.



Truck Scale Division is  
ISO 9001:2008 certified.



It can be called an Essae weighbridge only after it's been through a rigorous testing here.



*“Uptime and accuracy are paramount importance to our customers. No other weighbridge manufacturer has processes in design, manufacture, testing and service that can better Essae’s.”*

*- Gururaj, GM -Operations, TSD Plant*

**100 percent quality. 200 percent security.** Before delivery we assemble every weighbridge and put it through stringent check for accuracy and workability.

Use of Plasma cutting, MIG welding, NDT testing, Shot blasting, Protective coating, Epoxy finishing help in creating quality weighbridges every time.

The calibration and testing for each system is carried out. The weighbridge is not setup at the customer site unless we are completely satisfied with the test results.

**A promise only available at Essae**



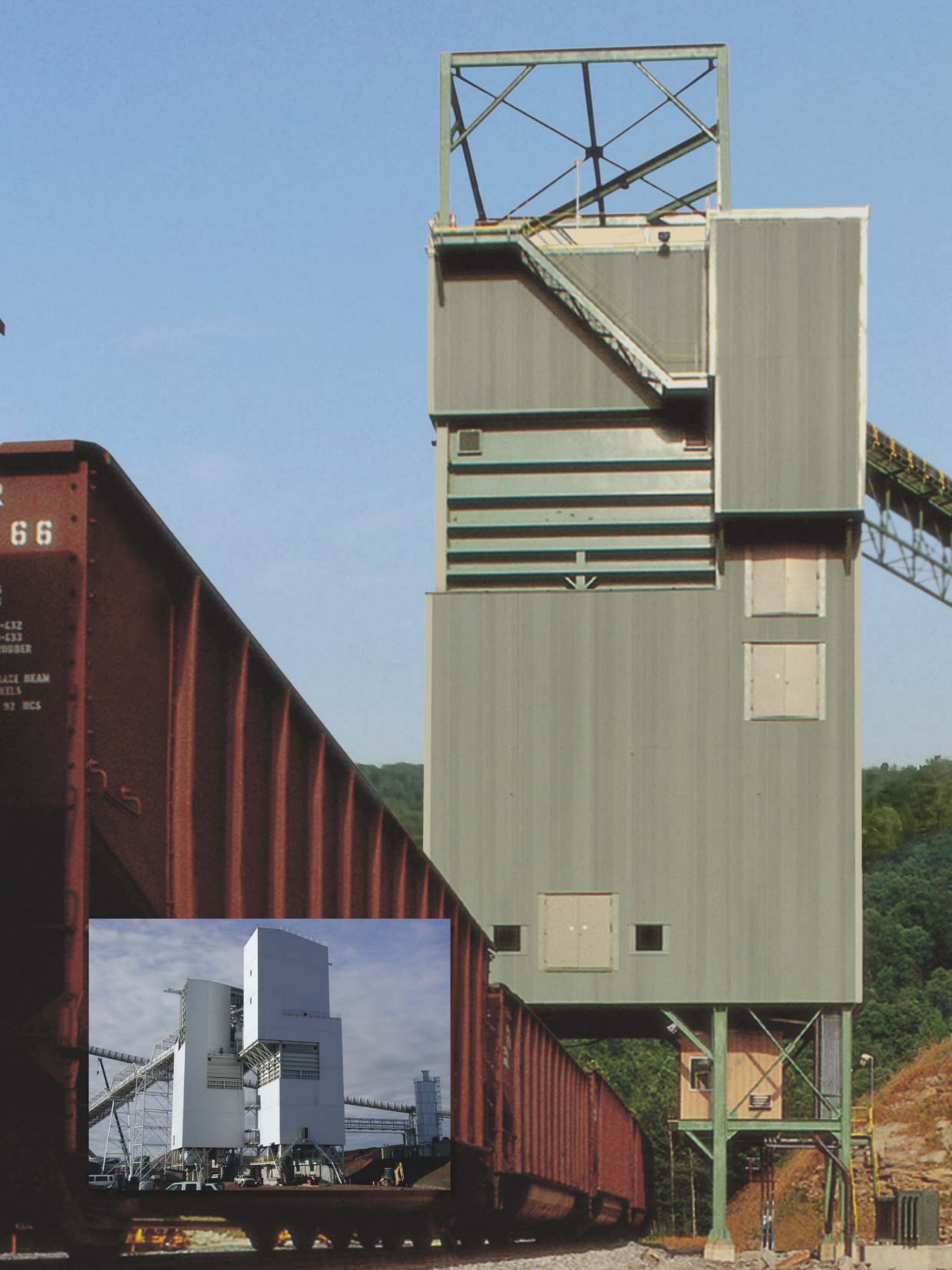
### **Steel Weighbridge**

Our steel weighbridge decks offer higher strength, greater reliability and faster installation than conventional systems. Their simple foundations, fast, bolt-down sitting and innovative box construction have made them the preferred choice of operators across the country.



### **Concrete Weighbridge**

A concrete weighbridge is the ideal choice when you are looking for a weighbridge to operate in extreme corrosive environment. Our concrete decks are designed to keep installation, maintenance and operations as simple as possible.



66

-C32  
-C33  
RUBBER  
LACE BEAM  
WELLS  
92 HCS





# Rapid Load-out Division

*“Only an Essae-Kanawha customer achieves high mining output in a day, pays no penalties & demurrages and recovers their investment in a short time.”*

*- Daniel Swamidas, GM Engineering - RLD*

Essae Digitronics is the licensed partner of high-speed rail wagon load-out systems in India using the technical know-how from Kanawha Scales and Systems, USA. Kanawha has designed, built & commissioned over 80% of load-out systems worldwide for varied industries such as mining and minerals.

Essae has an exclusive expert management team to focus on execution of Rapid loading system projects. Integrated turnkey solutions are provided to individual plants to suit their specific needs.

All loaders come with certificate of conformance from National Conformance of Weights and Measures. Our fully automated Rapid load-out Systems comply with OIMLR-76 requirements providing accuracy of  $\pm 350$  kg/wagon and come with sophisticated reporting capabilities that are un-matched in the industry offering a real-time analysis of loading performance.

## Salient Features:



**Dustless Control Gates:** Double-blade Slide-gate design allows for quick response to control signals for the accurate cut-off assuring consistent weight wagon after wagon.



**Calibration System:** Built-in certified test weights allow testing from the control room assuring accuracy in weighing performance for every train.



**Dustless Chute:** Takes care of 'belching' and 'dusty' environment

# Transient Weighing Division

*“Speed and appropriate weight information is the essence of in-motion weighing. Essae customers experience both efficiency and effectiveness in our solutions.”*

*- B. F. Thomson, VP - TWD & RLD*

## Rail Weigh-In-Motion System

A dynamic weighing system is designed for measuring the weight of loaded railway wagons at speed up to 15 kmph. It incorporates the load cell sensor technology with quad sensor full bridge techniques.

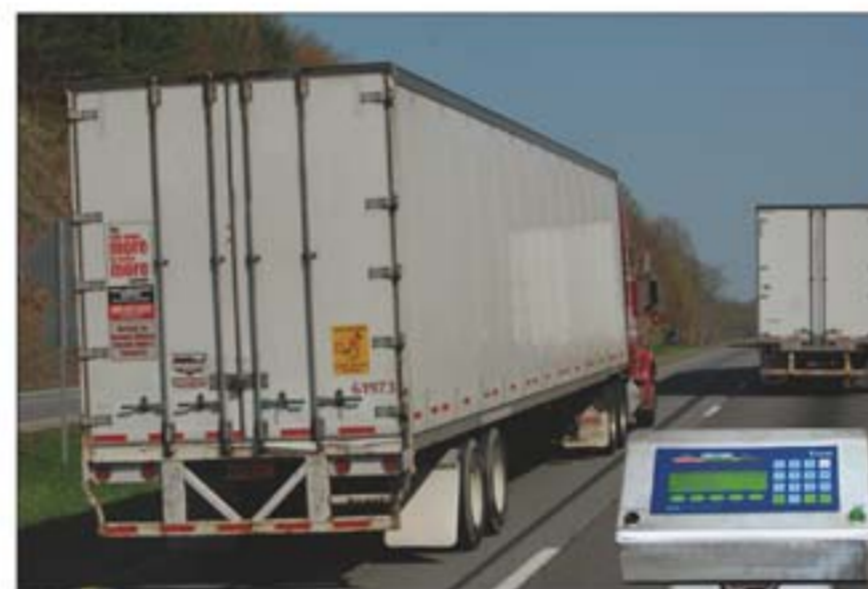
The strain gauges used are imported from the world leader in strain gauge technology.

Micro-processor based modular electronics ensure accurate, reliable and consistent performance. The software generates printouts for rail weighing and reports for MIS.



## Portable Axle Weigh Bridge

Axle weigh bridges can weigh loads from 1-50 tons per axle. The data management unit has built-in software that records each axle weight separately and indicates the sum total of all the axles to get gross vehicle weight (GVW). Portable Axle Weigh Bridges are useful for weighing GVW up to maximum 120 tons.



## Truck Weigh-In-Motion

An extremely important investment at Check Posts, Octroi Nakas, and Transport Department to detect overload of the vehicles.

It is designed to take maximum load of 40 to 50 ton per axle.

When any vehicle passes over the platform, the individual axle weight, the number of axles and the total weight of the vehicle are detected.



## Portable Weigh Pads

Very light in weight (19Kg each pad), it can be placed on any compacted level surface for weighing. Due to its lightweight, the weigh pads can be carried by a single person.

The axle weight of the truck can be measured by placing each axle of the truck on the weigh pads. The height of the weigh pad is only 20 mm and any vehicle can climb easily on the weigh pads.

The weigh pads are very useful for mobile enforcement and for checking the axle weights of the trucks.



*We have a clean room for the precision bonding of strain gauges to the rails.*

# Machined Components Division



*“Essae customers have the lowest ‘total cost of ownership’ for parts supplied by us. Our consistent and constantly improving QCD performance provides our customers with peace of mind.”*

*- K. S. Kubendran, General Manager, MCD Plant*

Essae Digitronics has a dedicated setup spread over 40,000 sq. ft. area for manufacturing precision turned components for automotive applications using state-of-art infrastructure. The automotive component business is divided into two divisions – Machined Components Division and the Hub Drive Division.

*The Machined Components Division is ISO/TS 16949 certified, reinforcing consistent performance and quality.*

These components and sub-assemblies are supplied to top OEMs in the country including TVS Motor Company, Mahindra & Mahindra, Bajaj Auto & Suzuki Motorcycle & Scooters. We have been serving customers in USA since 2004.

Process excellence is achieved by following established processes and paying attention to details at every stage of production resulting into superior quality products.



## Speedo Hub Drive

Essae Digitronics is also the largest manufacturer of Speedo Hub Drives in India. These hub drives are used in mopeds, scooterettes and motorcycles. A market share of over 90% in Hub drives speaks volumes about the quality of the product and value offered to the customer. All mopeds on Indian roads today carry a hub drive manufactured by Essae.



Machines used in the machined division are the latest in technology. A family of CNC machines and a host of finishing operation machines are used.

**Micromatic Grinding**  
The best input for maximising your output

Micromatic Grinding  
INDUSTRIAL AREA, SHELBYVILLE, KY  
40381-1000  
502-638-1100





## *Human Resources*

*“Essaeites’ smile, imbibe deep respect for humanity, harness their latent potential and think like their customers. Relationships are our profit and we profit from our relationships.”*

*- Prakash Venkatesan,  
CEO & Director, Essae Digitronics*

- Essae team leaders not only meet the expectations of their role as leaders, but they also set and meet the expectations for team members. Teamwork and Diversity defines success in terms of the whole team.
- Human mind is our fundamental resource. Essae promotes total employee involvement to sensitize and maximize the talent of our employees.



**Essae Digitronics** belongs to the esteemed Essae Group of Companies that was founded in 1965 with a vision of serving society by supplying quality products that provide high value for money. The Essae Group of companies is currently engaged in the manufacturing and marketing of Electronic weighing scales and systems, Auto Components, Electronic Cash Registers, Bar Coding and Scanning Systems, PCB Assemblies etc. One of the group companies - Essae Chandran Training Institute is engaged in enhancing the knowledge of Indian Organizations in the realms of Quality Management. With 11 manufacturing facilities in Bangalore, Pondicherry and Goa and over 68 Marketing outlets across the country, Essae Group is a progressive business conglomerate.

# Essae

Protecting YOUR Profits

## Essae Digitronics Private Limited

An ISO 9001:2008 and ISO TS 16949:2008 certified company

**Registered Office :** Plot No. 34 & 35, Bommasandra Industrial Area, Anekal Taluk, Bangalore 560 099

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### Corporate Office

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### Machined Components Division

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### Hub Drive Division

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Near Amar Transport Godown  
7th mile Hosur Road  
Bangalore 560068, India  
Phone : 91 - 80 - 4204 5321 - 323

Disclaimer : Due to continuous R&D the specifications are subject to improvement without prior notice.