















W VMS TMT LIMITED





AMBA SD



































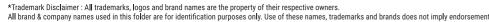












# **Giri-Tech Systems Private Limited.**

### **Head Office:**

Plot No. 191-196, Panchmukhi Nagar, Behind Satish TATA Motors, Near Additional MIDC, Phase II, Jalna, Maharashtra, India - 431203.

Service Branch: Chh. Sambhajinagar, Jalgaon, Pune & Ahmedabad **Email:** info@giri-tech.com , project@giri-tech.com | **Web.:** www.giri-tech.com

**Tel. Office:** (+91) 02482 229 999 | **Trade Enquiry:** +91-91460 19401/2

Contact No.: +91-94222 19402 / +91-94232 19402













Global leader in the field of weighing industry since 2004





- Rolling Mill
- Tube Mill
- Strip Mill
- Foundry
- DRI Plant
- Sponge Iron Plant





### WEIGHBRIDGE

### • Capacity:

- Types Weighbridge: i) Pit-type weighbridge 5 Ton to 150Tons
  - ii) Pit Less- weighbridge
  - iii) Mobile weighbridge
  - iv) Un-manned weighbridge

# • Type of structure :

- i) Modular Weighbridge
- ii) Welded Weighbridge
- iii) Nut-Bolt Weighbridge

#### Features:

- Any Weight Bridge system can be integrated with yield project with just changing electronic process controller.
- Un-manned weight bridge with SMS alerts.
- We provide Digital load cells with high accuracy (0.02%)
- Multiple weighbridge can be controlled with single controller.

# **CRANE SCALE**

#### • Capacity: 5 Tons to 50 Tons

# Application :

#### Scrap charging into Furnace Scrap unloading in yard from vehicle

- Wireless Weighing Controller is provided with the system.
- Crane scale are designed with consideration of Heat environment for scrap charging into furnace
- Data integration for analysis
- System is provided with Battery backup with 04-24 Hrs.

Features:

- Scrap charging into furnace as per grade for chemistry control
- Scrap unloading grade wise
- With crane Scale we can perform Alloy addition, Slag Pot weighing, Jam & Launder loss weighing for daily log sheet.

# FURNACE CHARGING VIBRO-FEEDER WEIGHING

#### Application:

- Scrap charging into Furnace w.r.t. power demand/available power
- Sponge charging into Furnace

#### Features:

- Continuous monitoring of feed rate to the furnace.
- Wireless- Controller with data integration.

#### Benefits:

- Furnace power can be utilized best with weight reference of the feeder w.r.t. feed rate.
- Alloy addition as per input of raw material Optimized power consumption for melting

### **INDUCTION FURNACE WEIGHING**

• Application : i) Induction Furnace

#### Features:

- Online quantity of material charged in the furnace.
- Monitor feed rate in induction furnace to utilize power completely.
- Data helps making correct decisions for alloy addition.
- Wear n Tear of lining can be analyzed by taking tare weight reference of an empty furnace.

#### Benefits:

- Know your power consumption w.r.t. feed rate Know your slag generation online
- Can manage caster sequence Grade wise charging
- Wear n Tear of lining can be analyzed by taking tare weight reference of an empty furnace.

## **LADLE WEIGHING SYSTEM**

Application: • Ladle Car • Ladle Turret • Fixed stand • Ladle Transfer Car

Capacity: 10 Tons to 200 Tons

Features: ● High Temperature Sensors upto 200'C ● Wireless System ● Data Saving Option

**Benefits: ●** To Match sequence for continuous casting. ● Increase in Production rate

- Reduction in tapping temperature & increase in production results in saving electricity cost per metric ton. • Helps to maintain the quality of molten metal for adding Allovs
- Eliminates communication errors between the Melting & caster team for scheduling next heat for tapping. • Integration with Automation of Caster for industry 4.0
- Ladle-wise slag measurement for Yield of the material Helps for synchronising Melting furnace & rolling mill. • Ladle life increased by taking weight reference.

# Measure your yield, Know your losses!









# **GIRI-TECH SYSTEMS STANDS ON**



**SAFETY** 





### TMT BAR WEIGHING SYSTEM

#### Application:

- Straight TMT Weighing
- Bend Material Weighing
- Pipe Weighing System
- Bars Weighing system

#### Features:

- Online production monitoring
- OR Code With Material Details
- Data for analysis

- Benefits:
- With data from input to output the direct calculations of losses can be analyzed.
- It eliminates the difference of physical stock as previously the input to mill was on theoretical calculation.
- Direct Stock report as per size, to monitor inventory.
- Useful in Truck loading as well Per hour production rate can be monitored.

## FISH-CUT. END-CUT. MELTING. MISS-ROLL & MILL SCALE WEIGHING SYSTEM

Application: • Fish-cut, End cut Measuring

• Mill scale & Miss roll measurement • TMT Bundle weighing

- Wireless Weighing Controller is provided with the system.
- Data integration for analysis System is provided with Battery backup with 04-24 Hrs
- Daily at actual calculation for losses. Remote data available for analysis.
- Direct effect of change in rolling parameters set on production.
- Reduction in material movement.
- This weighing system can also be used for loading TMT into trucks.
- Individual Coil weighing is also possible while stacking.

# **HOPPER WEIGHING SYSTEM**

Application: • Coal feeder in Reheating Furnace • Alloy Addition Bucket

Features: • Generate the feed rate data • Remote wireless display for monitoring

- Systems results in direct relation with feed rate.
- Reduction in downtime for mill due to temperature down of billets
- Proper feed rate of coal impacts on mill scale losses.
- Reduction in excess use of coal for re-heating.
- The different application for these system are Alloy addition. sponge iron charging into furnace.

# **BILLET WEIGHING SYSTEM**

Application: • Billet weighing of billets exit from CCM • Reheating billet weighing

- System equipped with Score board. (E.g. Number, Weight & Totalizer)
- Integration with existing system for rolling data.
- Check on production w.r.t numbers & weight.
- Capable of add-ons for billet profiling.

## Benefits:

- Online Production calculation
- Direct impact on reduction of random material of TMT.
- Correction in length w.r.t weight. Reduction in wastage

# TUNDISH WEIGHING SYSTEM

**Application:** • Tundish Car • Fixed Tundish Arms

**Features : ●** High Temperature Sensors upto 200'C **●** Wireless System **●** Data Saving Option

- To ensure smooth Casting speed for stable and consistent operation
- Some of users have used it as alternative to AMLC • Eliminates the slag & inclusions trapping into the billet.
- Uniform quality & Temperature of billet for rolling.
- Integration for automation of Slide gate mechanism. Safety for the operations.
- Weighing tundish contributes to continuity of tundish for sequencing.
- Eliminates human error for tundish level controlling.