

# Metals





Over 55 years experience in the Supply of Systems and Service into the Metals Industry worldwide

## **Systems Engineering**

- Roll Force Measurement
- Shock resistant weigh systems
- Materials Weighing Systems
- Hot Metal Detection systems
- Load and force measurement systems
- Structural monitoring
- High Temperature monitoring systems
- Length Measurement systems
- Telemetry based weighing

## **Products**

- Rolling Mill Load cells and Electronics
- Load Cells and Load Pins
- High Temperature
- Load Shackles, Load Links
- Torque Measurement ( fixed /rotating)
- Telemetry Systems
- Hot Metal Detectors

## **Technical Services**

- Consultation
- Strain gauging
- Torque Measurement
- Data Acquisition
- Data Analysis
- Calibration and Proof Testing
- Inspection and Test
- Installation and Commissioning

## **Design**

- Structural design and advice
- Mechanical engineering
- Electrical Engineering
- Electronic Engineering
- Software Engineering



Rugged Weighing and Monitoring solutions suitable for the steel and metal production environment.

## Typical Applications

- Rolling Mill force Measurement
- Z Mill, Steckel Mill force measurement
- Strip tension and looper systems
- Torpedo Car Weighbridges
- Scrap car weighing and recipe systems
- On Car Ladle / Tundish weighing
- Blast furnace stock house weighing
- Desulphurisation weighing
- Top Hopper weighing
- In rail car weighing
- In line lifting weighers – slab, billet, bloom
- Coil Weighers
- Gas Holder Level Detection
- Coking plant weighing and monitoring
- Crane Weighing

## Torpedo Car Weighing

Shallow pit 600t capacity torpedo car weighing and control systems.

## Tundish Weighers

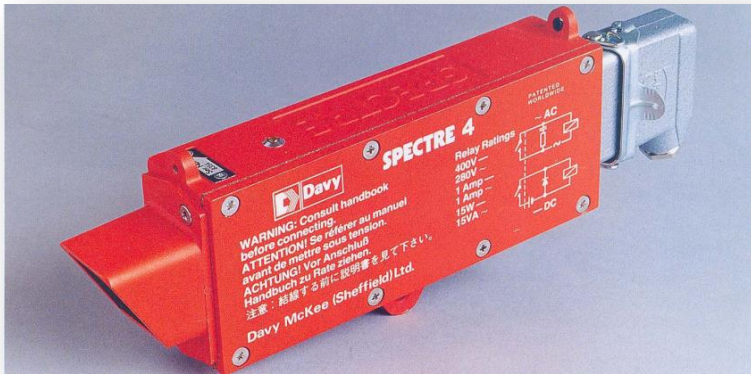
We have supplied several rail based and on car telemetry tundish weighing and teeming rate control systems with high temperature and high capacity a requirement.

## Scrap Car Weighing

Weighing of materials in an arduous location such as a steel works is key to good quality product. Davy Systems have a range of systems suitable for materials, additives and scrap weighing applications.

## Roll force Measurement

Our long association with the metals industry has allowed us to develop high capacity roll force measurement systems with high speed electronics for control feedback



## Hot Metal Detector for Mill Applications

**Spectre works on the patented system of Energy Correction using three photocells arranged on a single substrate across the plane of the instrument.**

- Accuracy maintained over wide ranges of distance and temperature
- Fast Response
- One unit for all production shapes and sizes.
- Built-in self-test
- Rugged construction

Arcelor	POSCO
Avesta	Rio Tinto
BHP	Stahl
Concast	Tata
Corus	ThyssenKrupp
China Steel	Toyo
Dragon Steel	Siemens VAI
Megasteel	Vacmetal
Mittal Steel	
Nucor	
Outu Kumpu	

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