



Capabilities

VPG Process Weighing

BLH • Nobel Weighing Systems

A Division of VPG Precision Group







Process Weighing Systems

BLH • Nobel Weighing Systems

VPG Process Weighing, a Division of Vishay Precision Group

VPG Process Weighing is a division of Vishay Precision Group, which produces load cells based on resistive foil technology, load-cell-based systems, and vertically integrated products and solutions for multiple markets in the areas of force measurement, industrial weighing, and process control.

VPG Process Weighing includes products from BLH and Nobel Weighing Systems, providers of process weighing and force measurement systems for decades. We use our advanced Micro-Measurements strain gage technology and foil resistor products and know-how in all our transducers and instruments. Our experience and design capabilities make it possible to provide a wide range of standard and custom-made products and solutions.

Technical Capabilities

As a turnkey provider of weighing and force measurement systems, we design and manufacture load cells, web tension blocks, instruments, hardware and software, and complete systems for weighing and force measurement. From standard level measurements to complex applications in the steel and paper industries, we provide solutions. Our design teams work closely with you in almost any location in the world to provide customized load cells and instrumentation that meet your requirements.

Full Life Cycle Support — from Design to Maintenance

We support the entire life cycle of our systems — design, production, installation, commissioning, start-up, and continuous field service and maintenance. Our system engineers follow every project from concept to implementation. Our service teams, stationed in Europe, the USA, and Asia, provide full support to customers and end-users. Our teams provide complete installation and start-up services, and train local user teams on all routine maintenance and support jobs. Each of our systems is accompanied by a full package of documentation and drawings.

Exceeding Customer Expectations

We have experience working with diverse customers in many different industries. This experience, together with our broad product portfolio, enables our system engineers to provide innovative and creative solutions. We partner with our customers, with the goal of exceeding their expectations.

Process Weighing Systems



BLH • Nobel Weighing Systems

Our Mission

- Provide innovative weighing and force measurement solutions that meet customers' needs
- Promote excellence in the design and manufacturing of weighing and force measurement solutions for industrial applications

Our Capabilities

- Design and production of standard and special load cells and web tension blocks
- Design and production of advanced instrumentation
- Custom-made solutions for special needs
- Worldwide field service support
- Extensive application knowledge
- More than 50 years of experience

Our Core Values





Applications

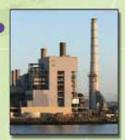
BLH • Nobel Weighing Systems

Food Industry

- Batching
- Level Measurement
- Level Control
- Inventory Control

Power Plants

- Cranes
- Special Load Cells
- Level Measurement
- Level Control



Offshore Applications

- Cranes
- Winches
- Torque
- Force Systems
- Special Load Cells
- Pressure Transmitters

Chemical Industry ———

- General Weighing
- Vessel Weighing
- Tank Weighing
- Hoppers and Mixers
- Inventory Control



Pharmaceutical Industry -

- Batching
- Level Measurement
- Level Control
- General Weighing





Applications

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Steel Industry

- Billet Weighing Optimization
- Roll Force Measurement
- Web Tension Measurement
- · Cranes and Ladle Weighing
- General Weighing



Mining and Quarries

- Crane Scales
- Front Loader Weighing
- High-Capacity Mining Scales
- Conveyer Belt Scales
- On-Board Weighing



Petrochemical Industry —

- · General Weighing
- Vessel Weighing
- Tank Weighing
- Hoppers and Mixers
- Pressure Transmitters

Paper and Pulp Systems

- Reel Optimization System (ROS)
- Rider Roll Optimization System (RRS)
- Disc Gap Control (DGC)
- Web Tension Measurement
- Crane Weighing Scales
- General Weighing



Other Industries

- Defense
- Aerospace
- Agriculture
- Ship Yards
- Construction
- Waste Management







Products

BLH • Nobel Weighing Systems

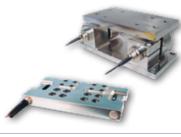
Load Cells and Weighing Modules

We offer high-quality load cells and weighing modules. Our standard KIS, KOSD, KIMD and KISD can be customized to meet special requirements.

Standard Load Cells and Weighing Modules Features Products • Easy to install • KIS-1, 2, 3, 8, 9, 11 and 12 • Moveable load point KISD-6 • Insensitive to side loads • KOSD-101, -107 and -115 • High accuracy • KOSD-40 • KIMD-1 Rugged construction • IP67 protection KOM-1 • ATEX, FM, CSA, OIML and NTEP Z-Blok approved versions • KDH-3 • EconoMount weigh modules • EconoMount level systems • Pro-Mount weigh modules • EZ-Mount weigh modules Alpha Beam **Special Load Cells Products** KOSD Customized to meet specific requirements KIMD KIS Moveable load point KISD Insensitive to side loads High accuracy • Rugged construction • IP67 protection • ATEX, FM, CSA, OIML and NTEP approved versions • Available with built-in transmitters Standard and Customized Web Tension Blocks Easy to install FMU (high tension) • Models for both low- and high-tension • TU-2 (high tension) • PST Tensiometers applications • High accuracy Extensometer Rugged construction • HTU (high tension) IP67 protection • HTZ-3 (high tension) • ATEX, FM, CSA approved versions • GLT (low tension)

Through VPG Transducers, our sister division, we also offer low-cost, high-accuracy load cells and mounting hardware for use in all kinds of systems:

- Single-point load cells
- Shear beam load cells
- Pin load cells
- Double-ended shear beams
- Damped load cells
- Bending-beams
- Compression load cells
- S-Type load cells
- Digital load cells
- Mounting hardware



• LTT (low tension)

Others





VISHAY PRECISION GROUP

BLH • Nobel Weighing Systems

Instrumentation and Accessories

Instruments **Products Features** • Multiple Fieldbus options (TCP/IP, • G4-New generation multi-channel instrument Profibus, DP, DeviceNet, Modbus+, • TAD-3-Weight processor Allen Bradley RIO, and others) • AST-3P-High performance transmitter Analog outputs AST-3 IS—Isolated amplifier (AST-3P) • Plug-n-Weigh® installation • WST-3P-High performance transmitter • Easy calibration and setup • Bilt-4-Blind transmitter ATEX Advanced dynamic digital filtering MicroPOS-4—Servo controller · Advanced system diagnostics • LCp-100-Weight indicator • ATEX, FM, CSA approved versions • LCp-200-Weight indicator • LCp-104-Multi channel digital indicator • LCp-100R-Remote control unit • LCp-200R-Remote control unit • LCM-200 - Certified indicator • DXp-10—Blind digital/analog transmitter • DXp-15—Blind digital/analog transmitter • DXp-40 - Multi channel transmitter PS weight transmitter series **Accessories** Junction boxes · Communication interfaces:

- Gateways
- Zener barriers
- Calibrators/load cell simulators
- Power supplies
- · Cables and connectors
- Printers
- Voltmeters



- Gate-3S Fieldbus communication gateway
- · Load cell testers:
 - LCc II—load cell test indicator
 - o FTS3-load cell indicator
 - o FSK40-field service kit
- Junction boxes:
 - o SL-4, 306, 308
 - Steel or stainless steel versions
- Interface modules:
 - ANA3—analog output
 - DIO3—digital outputs
- Calibrators:
 - 625 precision calibrator
 - 325 vernier calibrator
 - 125—pocket calibrator

We offer high-quality service engineers for:

- Installation
- Maintenance
- Optimization
- Calibration



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