



VISHAY
PRECISION
GROUP



Capabilities

VPG Process Weighing

BLH • Nobel Weighing Systems

A Division of VPG Precision Group



Nobel
Elektronik

www.weighingsolutions.com

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.

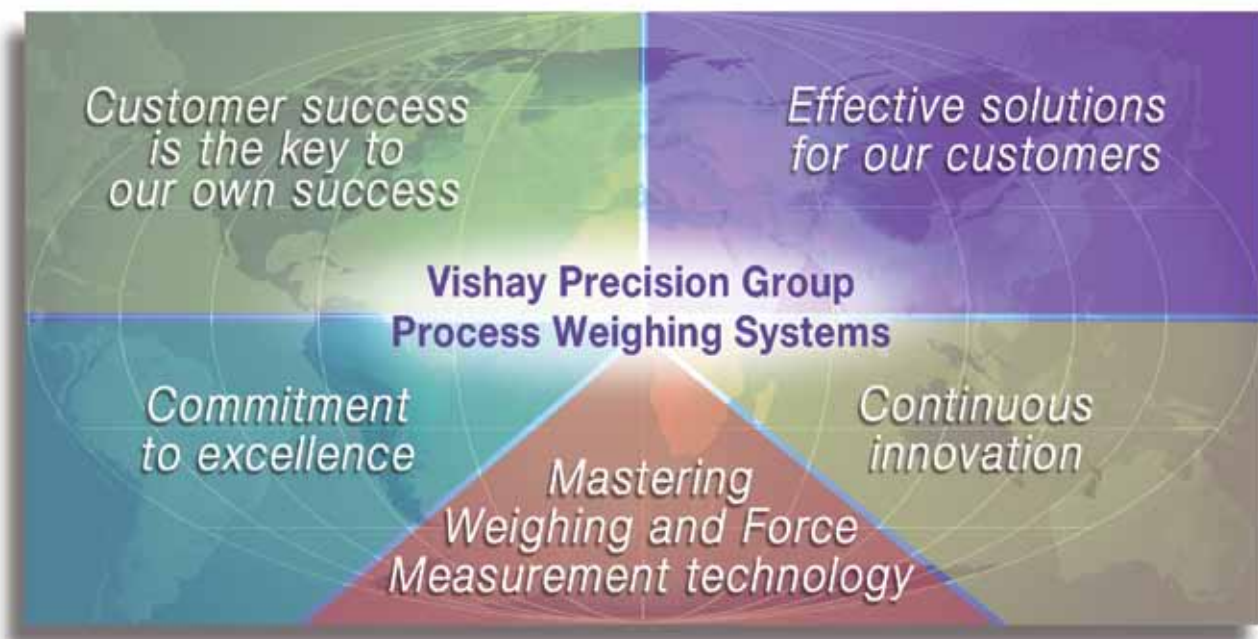
Our Mission

- 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



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



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
- Conveyor 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





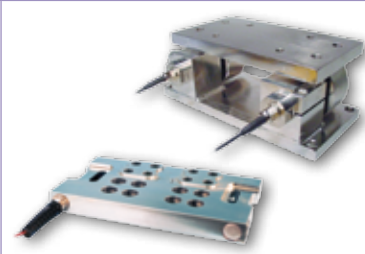
Other Industries

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



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
<ul style="list-style-type: none"> • Easy to install • Moveable load point • Insensitive to side loads • High accuracy • Rugged construction • IP67 protection • ATEX, FM, CSA, OIML and NTEP approved versions 		<ul style="list-style-type: none"> • KIS—1, 2, 3, 8, 9, 11 and 12 • KISD-6 • KOSD-101, -107 and -115 • KOSD-40 • KIMD-1 • KOM-1 • Z-Blok • KDH-3 • EconoMount weigh modules • EconoMount level systems • Pro-Mount weigh modules • EZ-Mount weigh modules • Alpha Beam
Special Load Cells Products		
<ul style="list-style-type: none"> • Customized to meet specific requirements • Moveable load point • Insensitive to side loads • High accuracy • Rugged construction • IP67 protection • ATEX, FM, CSA, OIML and NTEP approved versions • Available with built-in transmitters 		<ul style="list-style-type: none"> • KOSD • KIMD • KIS • KISD
Standard and Customized Web Tension Blocks		
<ul style="list-style-type: none"> • Easy to install • Models for both low- and high-tension applications • High accuracy • Rugged construction • IP67 protection • ATEX, FM, CSA approved versions 		<ul style="list-style-type: none"> • FMU (high tension) • TU-2 (high tension) • PST Tensiometers • Extensometer • HTU (high tension) • HTZ-3 (high tension) • GLT (low tension) • LTT (low tension) • Others

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



Instrumentation and Accessories

Instruments		
Features		Products
<ul style="list-style-type: none"> • Multiple Fieldbus options (TCP/IP, Profibus, DP, DeviceNet, Modbus+, Allen Bradley RIO, and others) • Analog outputs • Plug-n-Weigh® installation • Easy calibration and setup • Advanced dynamic digital filtering • Advanced system diagnostics • ATEX, FM, CSA approved versions 		<ul style="list-style-type: none"> • G4—New generation multi-channel instrument • TAD-3—Weight processor • AST-3P—High performance transmitter • AST-3 IS—Isolated amplifier (AST-3P) • WST-3P—High performance transmitter • Bilt-4—Blind transmitter ATEX • MicroPOS-4—Servo controller • LCp-100—Weight indicator • 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		
<ul style="list-style-type: none"> • Junction boxes • Gateways • Zener barriers • Calibrators/load cell simulators • Power supplies • Cables and connectors • Printers • Voltmeters 		<ul style="list-style-type: none"> • Communication interfaces: <ul style="list-style-type: none"> ◦ Gate-3S Fieldbus communication gateway • Load cell testers: <ul style="list-style-type: none"> ◦ LCc II—load cell test indicator ◦ FTS3—load cell indicator ◦ FSK40—field service kit • Junction boxes: <ul style="list-style-type: none"> ◦ SL-4, 306, 308 ◦ Steel or stainless steel versions • Interface modules: <ul style="list-style-type: none"> ◦ ANA3—analog output ◦ DIO3—digital outputs • Calibrators: <ul style="list-style-type: none"> ◦ 625—precision calibrator ◦ 325—vernier calibrator ◦ 125—pocket calibrator

Service

We offer high-quality service engineers for:

- Installation
- Maintenance
- Optimization
- Calibration



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