



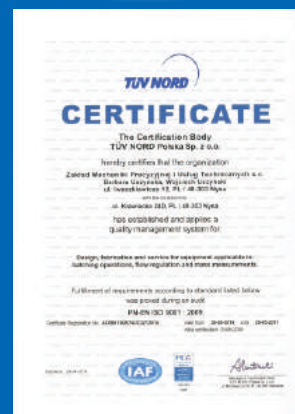
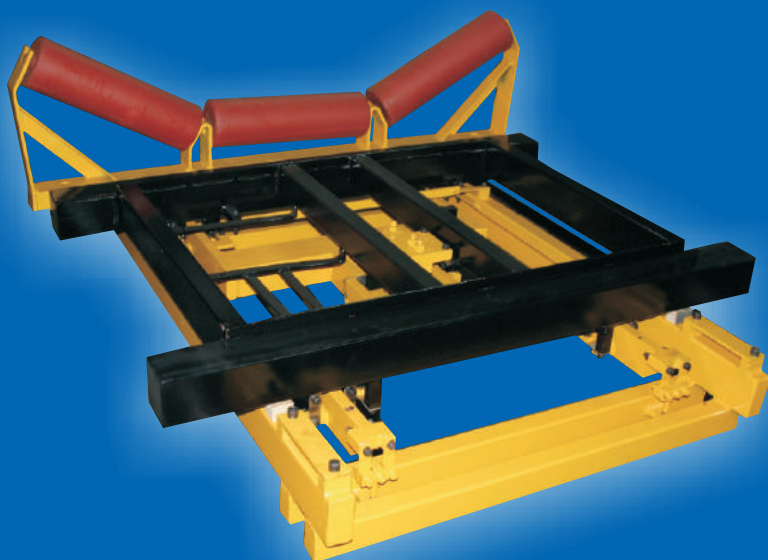
since 1992

Precision Mechanics Manufacturing and Engineering Services Co.

Factory, Technical & Commercial Office
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ELECTRONIC INDUSTRIAL SCALES

reliable belt conveyor scales



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Precision Mechanics Manufacturing and Engineering Service Co.

The Company is a **specialized** manufacturer of the following types of electronic industrial scales: **belt conveyor scales**, tank and platform scales, weigh belt feeders (**Design, Manufacture and Assembly in a required place**) and Electronics Weighing Terminals (**Integrators**). The scales are equipped with **intelligent dosage and portioning function** • **Highly advanced industrial automation and comprehensive control systems in extended processes of weighing** that we are offering will satisfy all your needs • **Computer software destined to perform diverse duties** • **Monitoring systems** of belt conveyors and **conveyor belt routes** • We have been **present on the market** for over **twenty-four years** and have carried out **over 1600 projects**. Our **Company is present and acknowledged in the biggest industrial centres in Poland** (among others **KGHM, Belchatow, Arcelor Mittal Steelworks, Konin, Laziska, Pulawy**); in **power stations** and heating plants; in **coal, ores, aggregate, salt and other mineral mines**; in **chemical plants** and in processing plants of various types, including food processing • Our **WMTP series** of types belt conveyor scales have the **Certificate of EC Type Examination (EU Certification)** which qualifies these in the **entire territory of the European Community** to receive attestation as **Legal for Trade**.

ATEX versions and products made of **stainless steel** are also available in our offer.

- Installations in: **Germany, Ukraine, Moldova, Lithuania, Czech Republic, Slovakia and Pakistan**
- **Export** to trade partners in **Austria and Finland** ••• **Complete factory Service** •••

The main list of the users of our products:

- * **coal, salt, lime, copper ore, aggregate and other minerals mines**
- * **power stations, thermal-electric power stations, heating plants**
- * **copper smelters, steel mills, zinc smelting plants, glassworks**
- * **chemical plants and chemical components makers**
- * **stirring plants and animal fodder producers, grain elevators**
- * **sugar factories and half-finished food manufacturers of various types**
- * **cement plants, commercial mixed concrete and ceramics manufacturers**
- * **construction materials manufacturers** (mortars, adhesives, concrete additives)
- * **agro-industry producers** (mushrooms, grains, fruits, vegetables, tobacco et al)



Accuracy classes of the belt conveyor scales available: 0.5 / 1.0 / 2.0

We calibrate scales in the place of installation. On buyer's request Trade Attestation is provided.



DESIGN • PRODUCTION and COMPLETE TECHNICAL SERVICES

In our factory **high class specialists** are employed: engineers, **electronic engineers**, programmers and designers with major **practical experience**, **highly educated** and with **extensive knowledge**. This is a reason why our products are marked with **high quality and reliability**.

ZMPIUT



- BELT CONVEYOR SCALES
- PORTIONING SCALES
- WEIGH BELT FEEDERS
- DOSAGE SCALES
- TANK SCALES
- AUTOMATIC WEIGHING
PROCESS CONTROL
- MID-BELT SAMPLERS
- STANDARDIZATION
- LEGALIZATION

We make scales to specific order, taking into account the customer's requirements and demands, such as:

- * specificity of system
- * width of the belt
- * accuracy of weighing
- * setting a definite efficiency of weighing
- * setting a definite portion of weighed material

We fit our scales with multifunctional digital displays which enable monitoring and realization of the following functions:

- * momentary efficiency
- * total mass weighed out (totalization)
- * present time
- * speed of the belt
- * additional, single shift weighing counters, resettable
- * scales taring procedure
- * programming of scales' work configuration
- * connection to computer and printer



Scales designed for weighing:

- * **coal, lignite and coal dust**
- * **cement, lime, gypsum (plaster), salt**
- * **copper and other metals ore**
- * **aggregates** of all sorts (sand, grit, gravel, crushed stone)
- * **mortars, powder and construction adhesives**
- * **food and half-finished food products**
- * **fertilizers and chemical components**
- * **cereals, fruits and vegetables**
- * **biomass, refuse and other waste**
- * **liquids products** (water, adhesive, stearin, glue, oils and the like)



DESIGN • PRODUCTION and COMPLETE TECHNICAL SERVICES



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BELT CONVEYOR SCALE

As a standard, the electronic metering system of the belt conveyor scales have a range of outputs enabling development of system with peripherals

- active current output **4 – 20 mA**, proportional to the instantaneous efficiency
- **impulse output**, with programmable impulse decade
- **serial output RS 485** for connecting an external printer or computer
- serial communication protocol to be used is **Modbus RTU, Profibus DP** or **Ethernet TCP**



- **accuracy class** 0.5, 1.0 or 2.0
- **width of conveyor belt** B = from 0,1 to 2,0 m
- **maximum efficiency** Q = 10 000 t/h
- **nominal speed of the belt** V = from 0,05 to 5,0 m/s
- **length of the scales platform** l = from 0,2 to 6,0 m

Depending on the number of weighing rollers sets (No. of Weigh Idlers sets) there are three types of scales:

- one-set (Single Idler Scale)
- two-set (Dual Idler Scale)
- four- or six-set (Multi Idler Scale)

Common parameters for all types of scales:

- Measuring system protection level: **IP 67**
- Working temperature: **-20°C to +40°C**
- Taring: semi-automatic or fully automatic
- Possibility of **totalization the weighed mass**
- Cooperation with computer or printer with the use of **connectors RS 485 or RS 232**



SPECIAL SCALES

The basic Company's output is the standardised **series of types of belt conveyor scales WMTP**. Besides, our Company constructs weighing systems or singular installations on a specific request of a customer.

Non-standard weighing systems can be applied in weighing: roofing paper, glue, biomass, tobacco, crops of all kinds of groceries. Together with computer systems they enable:

- permanent registration of weighed masses
- weighing processes control
- archiving of the registered measuring data
- printing documents

These scales can, for instance, be completely made of **acid-resistant steel**. For operation areas threatened with blast, we provide equipments with **ATEX**. As for mines, we make special types of scales, called **underground scales**.

