



Rollers and components for belt conveyors in bulk handling applications

Stations

Carrying troughing sets

The arrangements of fixed carrying troughing sets can be with plain or impact rollers or suspended "garlands".

Impact stations

Impact stations are used and positioned corresponding to the load points, where the lumps and the weight of material falling onto the belt could in fact cause damage to it.

Self-aligning troughing sets

The self-aligning troughing set is designed as a series of rollers arranged in a trough positioned onto the supporting transom which itself is fixed to a slewing ring which permits rotation. The slewing ring is large ball bearing permits a rotation limited to 5-8 degrees and is sized in proportion to the vertical loading; a tapered roller bearing assembled to the shaft of the slewing ring, absorbs any side forces or overturning pressures.

Return stations

The lower or return sets may also be chosen from varying arrangements according to the requirement: fixed sets with plain steel roller or with spacer rings and suspended sets "garland" with plain rollers and with rings.

Garlands

Suspended "garland" sets

The "garland" consists of a series of load carrying rollers attached together by chain links. The suspended set gives to the troughing set the characteristics of mobility and flexibility resulting in a perfect central belt trough.

Motorized pulleys

These versatile and successful pulleys are easy to install, have low running costs and minimise maintenance. They are used on light conveyors in supermarkets and airports, on heavier plants for the mining industries and agriculture, on permanent and mobile quarries installations and in the food industry. Their completely stainless steel executions are approved by the American Authority FDA. Motorized pulley are totally sealed, have a protection class IP 67 and a maximum power of 250 W.

Pulleys

Rulmeqa designs and manufactures pulleys, using materials of the highest quality in a production process employing advanced technology. The systems are certified to ISO 9001:2008, contributes to the production of high quality products, offering dependable, long life performance in the field and appreciably reducing maintenance costs.

Accessories

Covers

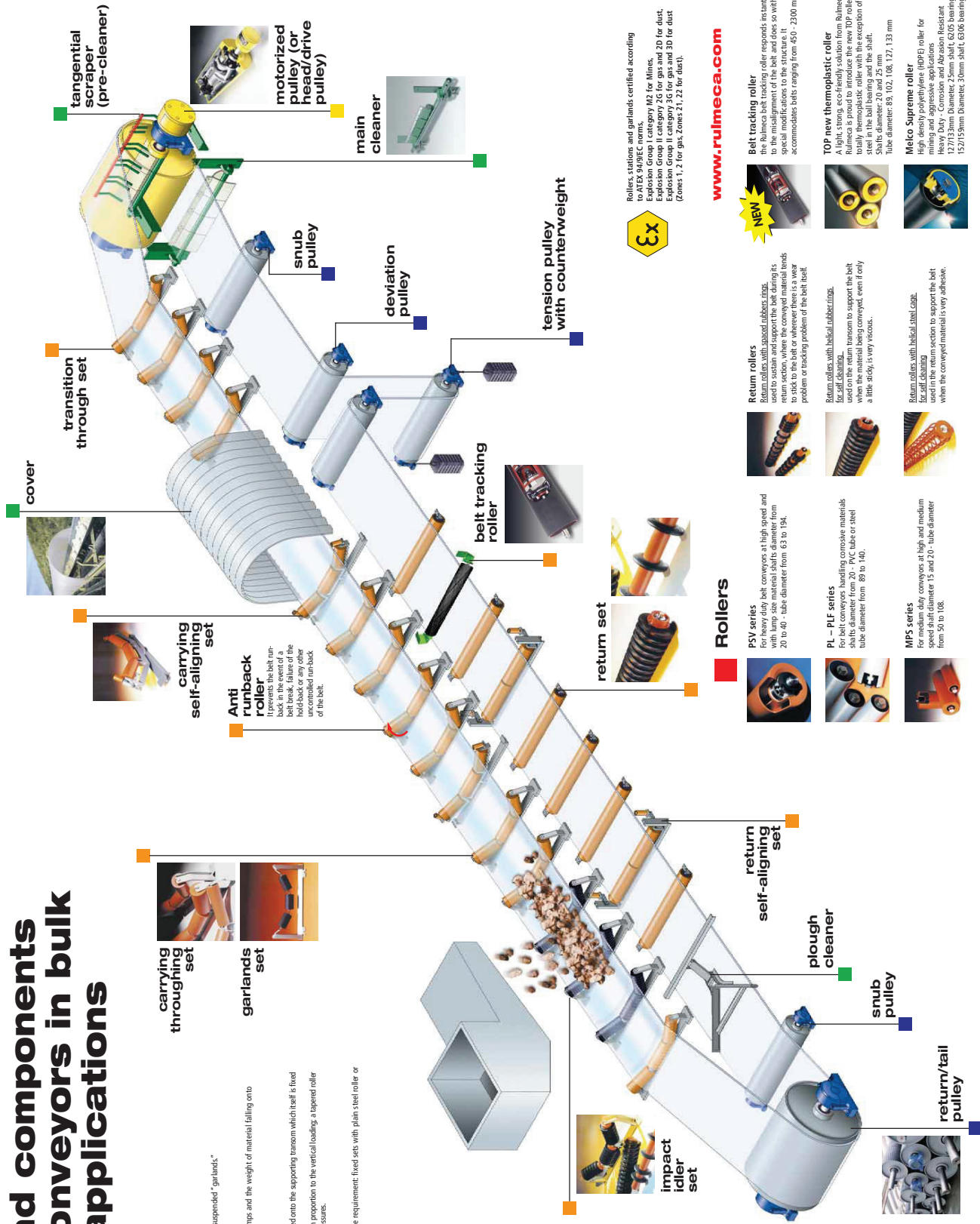
The necessity to protect belt conveyors may arise from the weather, from the volatile characteristics of the conveyed material, or from the type of works plant, and also from European norms that require the covering of the total length of a belt conveyor in the open.

Rulmeqa covers do not require maintenance and are very easy to install and move around. There are two styles of covers that are proposed: those in pre-formed PVC and those in corrugated galvanized sheet steel.

Belt cleaners

The use of cleaning equipment has become an indispensable requirement to assure general plant efficiency and to reduce the times of service needed for maintenance.

There has been a notable development of this equipment in recent time for offering improved energy efficiency of the installation, reducing loss of material inventory increasing the load capacity, eliminating a major cause of wear on the return rollers.



Rollers, stations and garlands certified according to ATEX 94/9/EC norms.
Explosion Group I category M2 for Mines, Explosion Group II category 2G for gas and 2D for dust.
Rollers: 20 for gas, 22 for dust (Zones 1, 2 for gas, Zones 21, 22 for dust).

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Belt tracking roller

The Rulmeqa belt tracking roller responds instantly to the misalignment of the belt and does so without special modifications to the structure. It accommodates belts ranging from 450 - 2500 mm.

TOP new thermoplastic roller

A light, strong, eco-friendly solution from Rulmeqa. The roller is made of a special thermoplastic material, totally thermoplastic roller with the exception of the steel in the ball bearing and the shaft. Shafts diameter: 20 and 25 mm. Tube diameter: 88, 102, 108, 127, 133 mm.

Melco Supreme roller

High quality roller (HQR) for mining and aggressive applications. Heavy Duty - Corrosion and Abrasion Resistant. 12/13mm Diameter 25mm shaft, 62/65 bearing 152/159mm Diameter 30mm shaft, 63/66 bearing.

For more than 45 years Rulmeqa, under the Rulmeqa brand, has been supplying rollers (D26, series 20 and 22) for the mining and aggregate industries and garlands with up to 90 mm shaft diameter installed worldwide mainly in the coal and brown-coal industry.

Return rollers

Return rollers with spaced rubber rings, used to sustain and support the belt during its return section, where the conveyed material tends to stick to the belt or wherever there is a wear problem or tracking problem of the belt itself.

Return rollers with helical rubber rings

For self-cleaning. The helical rubber rings, used to sustain and support the belt during its return section, where the conveyed material tends to stick to the belt or wherever there is a wear problem or tracking problem of the belt itself.

Return rollers with helical steel cage

For self-cleaning. The helical steel cage, used to sustain and support the belt during its return section, where the conveyed material tends to stick to the belt or wherever there is a wear problem or tracking problem of the belt itself.

Impact rollers

Or shock absorbing rollers consist of a base steel roller design, on which are fitted rings, designed to resist and absorb the pressures given by the impact of materials onto the belt.

PSV series

For heavy duty belt conveyors at high speed and with lump size material shafts diameter from 20 to 40 - tube diameter from 63 to 194.

PL - PLF series

For belt conveyors handling corrosive materials shafts diameter from 20 - PVC tube or steel tube diameter from 69 to 140.

MPS series

For return idler conveyors at high and medium speed shaft diameter 15 and 20 - tube diameter from 50 to 108.

Guide rollers

Vertical rollers with cantilevered spindles to avoid the belt tracking off.