

Treotham Trading becomes Treotham Automation.



Energy chain, special cables and polymer bearing specialist Treotham Trading has changed its name to Treotham Automation to better reflect its growing influence in this sector of Australian industry.

Having recently expanded its presence on the eastern seaboard

of Australia through a new Brisbane office the company believes the name change to Treotham Automation is more closely aligned with the highly technical clientele using its technologies to deliver specialised automation solutions.

Managing Director Mr Mikael Paltoft, says "automation is an integral part of many industries and Treotham has been there for more than a decade supplying increasing amounts of Automation Components and solutions every year".

"Particularly in the last few years, our markets have expanded immensely from general engineering to high-end industries including Mining, Ports and Shipping, Food production, Robotic Automation, Power Stations, Transport and many other Automation Engineering companies," said Mr Paltoft.

In recent years, there has been increasing demand for automated solutions to industrial processes that for a long time have been predominantly manual. Treotham established itself in the Industrial Automation world well in advance, by supplying top quality Automation components and solutions.

"The new name, Treotham Automation, is a true reflection of where our company has penetrated the Australian market and we look forward to increasing our participation in the years ahead," said Mr Paltoft.

Treotham Australia represents many international brands including: Igus, Alpha, Wenglor, PMA flexible conduits, Helukabel, Chainflex cables, ILME/Amphenol, Elgo, Neff-Tollo, Pilz, Wieland etc.

The 2007 Process Technology Regional Roadshow Series

The Regional Roadshow Series showcases the latest in Automation, Instrumentation and Process Technology products to industry and manufacturing across regional Australia. Treotham hope to see you there.

Dates/Venues

- March 12th - Mt Isa - Mt Isa Civic Centre
- March 13th - Townsville - Southbank Hotel Convention Centre
- March 14th - Mackay - Mackay Entertainment Centre
- March 16th - Gladstone - Gladstone Engineering Centre, CQU

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Micro Flizz instead of busbar

A major reason for our expansion into larger markets in Australia has been the close association with German company igus.

This time igus has developed a new product especially for material transport vehicles, shelf access equipment, industrial rolling doors or work station equipment when tools need to be transported manually. Micro Flizz is a specially-designed energy chain which supplies mobile consumers with electricity via a rolling or gliding conveyor. The product ensures the energy chain runs in an aluminium guide channel which separates the upper and lower run of chains to save weight and reduces friction and wear.

This compact, space-saving system is closed at the top, which provides protection against dirt and dust.

Micro Flizz is a genuine alternative to other solutions for mechanical stress accompanied by fast, abrupt movements.

The system differs from those currently available as contact-free equipment supplied with an induction current is still relatively new on the market and so costs for these systems are still extremely high. Conventional contact line equipment frequently does not reach the level required to transmit data reliably, which means that additional data light barriers or other forms of remote data transmission must be used.

No extra control box

With the new Micro Flizz on the other hand, drives operated with frequency converters can also be operated from stationary control units. Power is supplied to the drive by means of shielded "Chainflex" power cables.

This means that no extra control box is needed, such as those typically used on material conveyors. This in turn reduces the overall weight of material conveyors, hence considerably facilitating dynamic movement. The system is installed in an enclosed trough, so it is extremely well-protected against external influences such as matter falling from above and dust. Even humidity and extreme temperatures will not harm the system.

Smart design feature - side wings

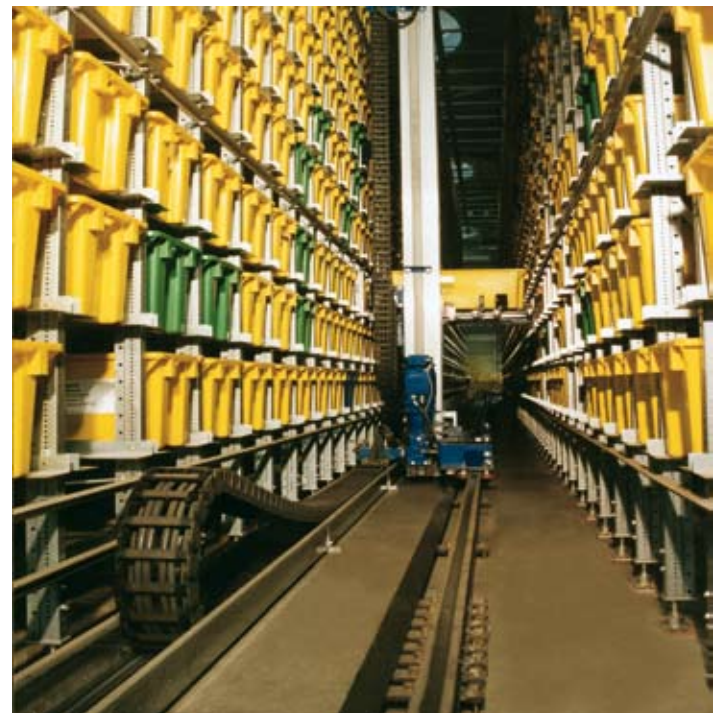
Tiny side wings on each individual chain link open out a few millimeters when the chain is straight, keeping the entire energy

chain in one groove, both in the upper and in the lower part of the guide channel. The system can be installed vertically, horizontally, or at any angle in between these two positions with these simple components.



Shelf picking

The modular system, which comes in various chain widths, heights and bending radii, allows power and data supplied to be adjusted as required. Data lines, copper or fiberglass, can be combined with power cables or with pneumatic hoses.



Rack & Pinion



alpha

Rack & Pinion overview:

- weight and space-saving mounting method through compact gear reducer design with integrated pinion
- all mounting surfaces ground to tight tolerance - results in flexible mounting options

- optimized smooth and low noise level due to pre-assembled gear pinion units with helix angle (19° 31' 42"; pressure angle 20°) and high concentricity (RTP version < 10 µm)



- high reliability because of wear-resistant surface treatment and individually deburred gear teeth
- compact, optimized design with low mass moments of inertia results in maximum possible feed dynamics with short acceleration times
- maximum precision for lifting axes through positive connection of pinion
- maximum operational safety because of high overload capacity
- Quality 5 (AGMA-11) through permanent checks according to DIN 9001
- ultra-high linear accuracy because of minimum total pitch error (12 µm / 500 mm)



Growth of plastic bearing applications in cars

There's hardly a vehicle around today that doesn't have plastic plain bearings in place of metallic, plain and rolling bearings.

The spectrum ranges from simple seating system applications to mechanical applications under a high thermal load in the engine compartment, in gear boxes or in the exhaust systems of modern diesel engines, for example.

WE distribute the igus lubricant-free and maintenance-free plastic bearings that reduce weight, extend service life and lead to expected cost savings of up to 70%.

For example, users can replace needle bearings by plastic bushes in the engine compartment. The same is true for applications in brakes, steering, engine compartments and many other important areas on vehicles.

Pedal mechanisms: no rattling noises

One new development from igus, and ideal for pedal mechanisms, is a pre-stressed bearing bush with axial and radial tolerance compensation of up to 0.3mm. Insensitive to edge loads, the noiseless bearing "iglidur JVFM Preload" is very suitable for high static loads. Rattling noises are avoided, and rough tolerated and low-weight pipes or even fibre-filled plastic shafts can be used.



New – tolerance compensation bearing

Another new development is the tolerance compensation bearing "iglidur Easy Fit". This plastic bearing helps wherever rough tolerances of the housing bore have to be separated from the fit of the interior diameter. Traditional plain bearings always pass tolerances on to the interior diameter – "Easy Fit" compensates housing tolerances of up to +/-0.2mm.

Double flanged bush: straightforward assembly

With the new "iglidur MKM" igus is presenting a double flanged bush that is very straightforward to mount, extremely wear-resistant and can absorb high axial forces on both sides. The self-lubricating plastic plain bearing is used in car doors, multi-joint hinges and bonnets, among other automotive applications.

New energy chain for sliding doors

In the area of energy supply chains, igus has developed the new universal energy chain "E1" especially for the automotive industry. Completely pre-harnessed, this chain guarantees the power supply to sliding doors in vans and SUVs even when they are open. Further application areas in cars include the safe step part under the foot mat or the seat adjustment feature.

The new energy supply chain is quickly installed thanks to pre-fitted pushbuttons.



MIXO modular unit with ILME

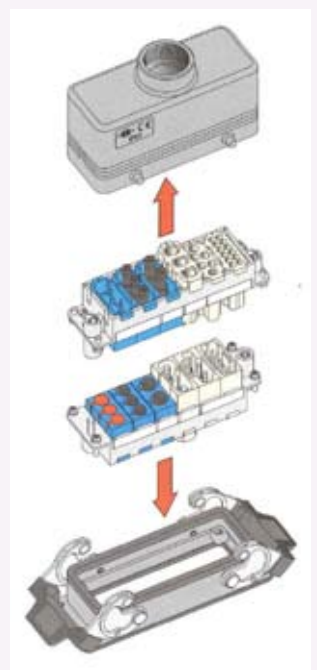
Treotham's MIXO series of special application modular connectors with ILME enclosures can contain numerous connection types such as: electric 10 - 100 amp contacts for the conduction of compressed air liquids with press values of up to eight Bar.

Arranged side-by-side, inserts form a single compact block for easy insertion into metallic frames with mandatory housings. Modules are locked with special tabs, so the connector can then be inserted into the enclosure.

MIXO's modular system facilitates easy access to a series of contacts located in the frame.

Procedures such as: substitution, checks for additional signals, general access needs during the initial installation etc. are easily accomplished without the disassembly of the entire connector.

The MIXO series five different frame sizes and standard die-cast aluminium enclosures provide protection, while allowing innumerable applications.



Ship-to-shore cranes break downtime



In crane construction on ports, extremely long mechanical distances mean that operating safety is particularly stringent and costly downtimes avoided as much as possible.

It is extremely expensive for ship owners and terminal operators if a ship stays in port longer than necessary due to a crane breakdown and other technical problems.

This is where energy chain systems play a vital role, ensuring power and data is transmitted over distances of several hundred metres. As you would have learned, we have changed our name to Treotham Automation as ships and heavy transport are now very much part of our target market.

But igus has ensured a great deal of market testing well in advance of our expansion. The company has already installed a total of 12 new ship-to-shore cranes at the Port of Singapore.

The distance traveled by these cranes is up to 500m. All of the energy chain systems installed in a channel on the ground were fitted with stainless steel guide troughs as protection against adverse weather conditions.

All 12 systems work in three continuous trough guides of a total length of 900m – the length of the quay is 906m.

The energy chain systems transmit data from each crane via LWL and supply power via three 6/10 KV medium voltage cables per crane. All of the cables are from the igus "Chainflex" range.



From a system point of view, this has the advantage that an individual crane can be removed from the network while the other cranes are operating.

The entire channel is enclosed with cover plates which are opened for each crane during a crane drive with a combination of plate lifting trucks and energy chain moving ends.



Treotham 2007 Sales Conference



Treotham's annual sales conference held at the Hyatt Coolum in sunny Queensland was a great success.

Managing Director, Mikael Paltoft, used the venue to announce the company's name change from Treotham Trading to the new name Treotham Automation, saying "now that we have representation in four states it is a great opportunity for all members of the Treotham team to meet in pleasant surroundings and get together to discuss the future direction of the organisation".

It wasn't all work on the sunshine coast the Treotham "gang" also participated in many team building exercises including locating prizes using a GPS system!

So they do have some fun after all.

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