

Jaw couplings for precision conveyors

Marlborough, Massachusetts, July 2017. Ruland zero-backlash jaw couplings have a balanced design, accommodate all forms of misalignment and have high dampening capabilities, making them an ideal fit for precision conveyors with frequent starts and stops. These conveyor applications are often found on equipment used in semiconductor, solar, optical inspection, and medical automation. Jaw couplings offer system designers a wide range of sizes and performance characteristics to fit their application requirements.

Zero-backlash jaw couplings from Ruland are made from two polished aluminum hubs and a spider type insert. The curved jaw profile of the hubs press fits to the spider, ensuring zero-backlash operation. Hubs are available in clamp or set screw style with inch, metric, keyed, and keyless bores. Spiders are available in three durometers: 98 shore A for high stiffness, 92 shore A for a balance of stiffness and compliance and 85 shore A for the highest amount of dampening. Conveyor designers can mix and match hubs and spiders to create a coupling that best fits the need of their application.

Ruland jaw couplings have a standard balanced design for reduced vibration at higher speeds which is critical for conveyors in applications such as rapid optical inspection where errors can be caused by slight deviations in expected positioning. Jaw couplings are considered fail safe because if the spider fails, the jaws on the two hubs will interlock with no loss of power transmission. This prevents the system from coming to an abrupt stop and damaging sensitive high value items such as semiconductor or solar wafers.

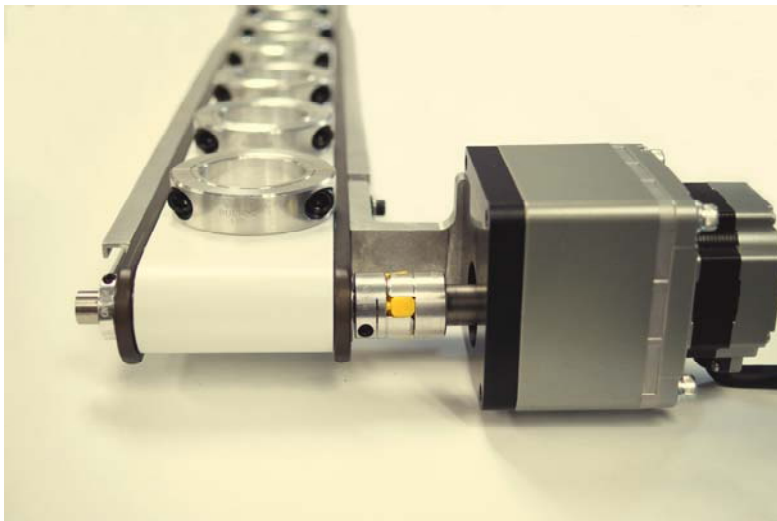
Ruland jaw couplings are made from bar stock sourced from select American mills and carefully manufactured in Ruland's factory in Marlborough, Massachusetts. They are available in bore sizes ranging from 1/8 inch to 1 1/4 inches or 3 mm to 32 mm. Stainless steel hubs and spiders with a center hole are available by request.

Summary:

- Curved jaw profile and press fit between the hub and spider allow for zero-backlash operation
- Balanced design for reduced vibration at higher speeds
- High level of customizability gives system designers the ability to choose performance characteristics that match application needs
- Fail safe coupling that will not lose power transmission during a failure of the spider
- RoHS2 and REACH compliant
- Carefully made in Ruland's Marlborough, Massachusetts, factory and available for immediate delivery

Picture:

Zero-backlash jaw couplings can be an excellent fit for high speed precision conveyors, allowing designers a great amount of system design flexibility.



Product link:

http://www.ruland.com/ps_couplings_jaw.asp#about

Company information:

Ruland Manufacturing Co., Inc. was established in 1937 as a manufacturer of precision components. Ruland's focus for the past 40 years has been on high performing shaft collars and couplings. All Ruland products are made in its Marlborough Massachusetts factory. The

complete line of products includes shaft collars and rigid couplings, and a full line of motion control couplings: beam couplings, bellows couplings, oldham couplings, miniature disc couplings and zero backlash jaw couplings.

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TPR International would be grateful for a copy of the publication with this article.