

## drylin® lead screw technology – high helix thread with dryspin® technology



High helix lead screws made of stainless steel and aluminium



High helix lead screws with right/left opposite drive



Cylindrical lead screw nuts



Lead screw nuts with flange



Lead screw nuts with spanner flat, with flange



Cost-effective injection-moulded lead screw nuts, cylindrical/with flange



Lead screw nuts with pre-load iglidur® J



Lead screw nuts, zero-backlash iglidur® J



## drylin® lead screw technology – trapezoidal and metric threads



Lead screws C15



Lead screws made of stainless steel



Lead screws made of aluminium



Lead screws with machined end



Multi start lead screws



LH/RH lead screws



Metric lead screws



Cylindrical lead screw nuts, single start



## drylin® lead screw technology – trapezoidal and metric threads

## drylin® lead screw technology – trapezoidal and metric threads



Cylindrical lead screw nuts, multi start



Cylindrical lead screw nuts with spanner flat



Lead screw nuts with flange, single start



Lead screw nuts with flange, multi start



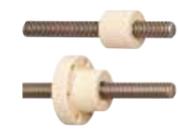
Lead screw nuts with spanner flat, with flange



Cylindrical lead screw nuts, lead screw nuts with flange metric



Cost-effective injection-moulded lead screw nuts



Anti-backlash lead screw nuts



## drylin® lead screw technology – trapezoidal and metric threads



Flange lead screw nuts with pre-load



## drylin® lead screw technology – special designs



Split lead screw nuts made from iglidur® J



Lead screw nuts for linear modules



Lead screw nuts with locating spigot



Spherical lead screw nuts in flanged bearing housing



## drylin® lead screw technology – special designs



Spherical lead screw nuts in pillow block bearing



Lead screw nuts with quick-release



drylin® discs, made from iglidur® J



Complete lead screw nut housing, including lead screw nut



Lead screw support blocks with plain bearings



Lead screw support blocks with ball bearings



Clamping rings

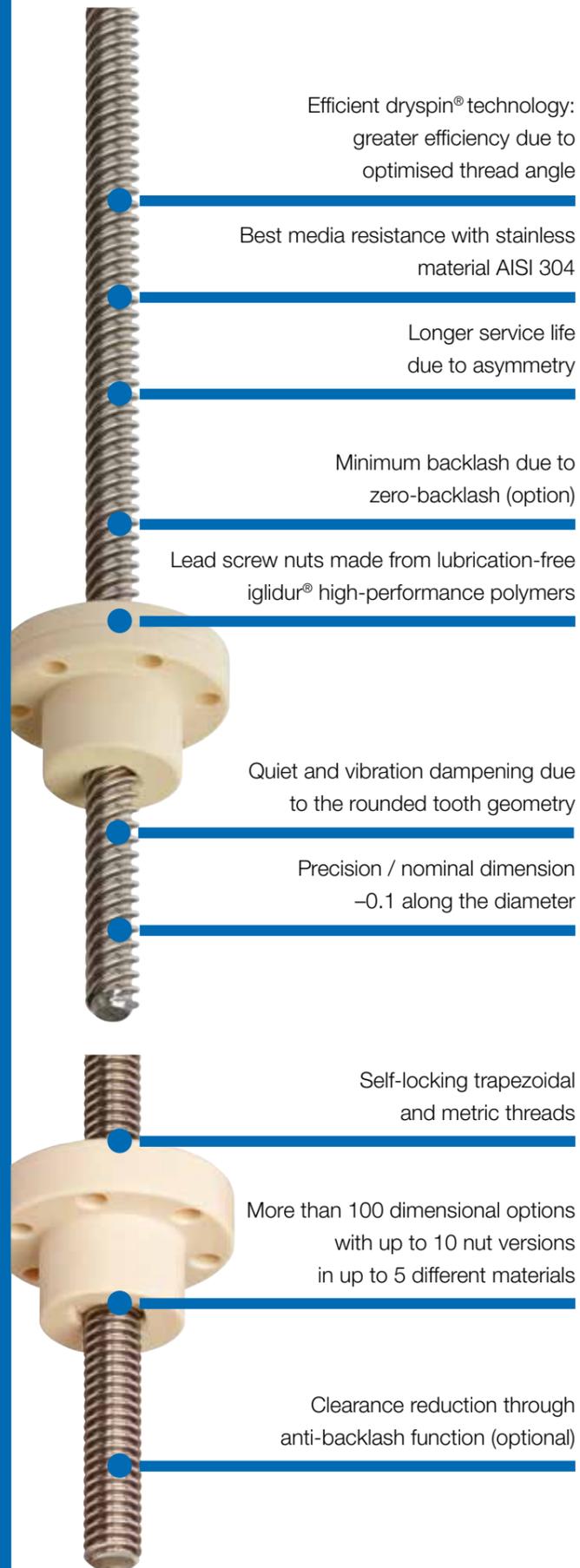


The biggest online lead screw shop

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# drylin® lead screw technology | Advantages

Maintenance-free, quiet operation, dirt-resistant and corrosion-resistant



Efficient dryspin® technology:  
greater efficiency due to  
optimised thread angle

Best media resistance with stainless  
material AISI 304

Longer service life  
due to asymmetry

Minimum backlash due to  
zero-backlash (option)

Lead screw nuts made from lubrication-free  
igidur® high-performance polymers

Quiet and vibration dampening due  
to the rounded tooth geometry

Precision / nominal dimension  
-0.1 along the diameter

Self-locking trapezoidal  
and metric threads

More than 100 dimensional options  
with up to 10 nut versions  
in up to 5 different materials

Clearance reduction through  
anti-backlash function (optional)

## Lubrication-free drylin® lead screw technology

Lead screw drives are machine elements that convert rotary movement into linear motion. drylin® lead screw drives are always based on self-lubricating plastic nuts, enabling long-lasting operation without external lubrication. The dryspin® technology offers a longer service life and greater efficiency for high helix threads thanks to the properties and geometries being tailored to the plastic nut and the lead screw.

- Efficient and durable dryspin® high helix threads
- Self-locking trapezoidal and metric threads
- Maintenance-free dry operation
- Silent
- Corrosion-free
- Resistant to dirt

### Typical application areas

- Format adjustments
- Drive technology
- Optical equipment
- Furniture industry
- Automotive industry

 **Available from stock**  
Detailed information about delivery time online.

 **Price breaks online**  
No minimum order value. No minimum order quantity.

 **Max. +150°C**  
**Min. -20°C**

 **Service life calculation**  
► [www.igus-asean.com/drylin-expert](http://www.igus-asean.com/drylin-expert)

 **Imperial dimensions and ACME thread (USA standard)** ► Page 1620



In accordance with EC Directive 2011/65/EU (RoHS 2)  
Restriction (of the use of certain) hazardous substances

# drylin® lead screw technology | Product overview

High helix threads with dryspin® technology



### High helix lead screws

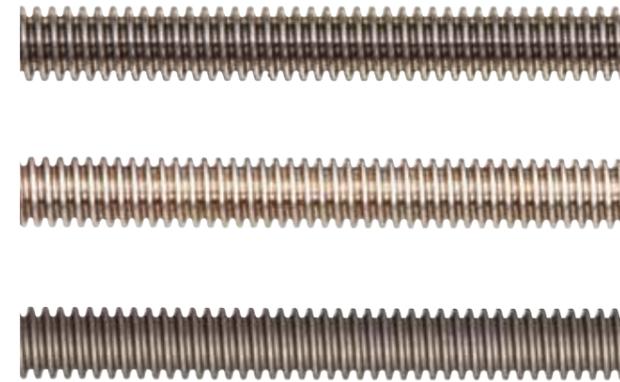
- Material: stainless steel or anodised aluminium
  - Better efficiency due to optimised thread angle
  - Quiet due to rounded tooth geometry
  - Long service life due to asymmetric dryspin® geometry
- From page 1244



### High helix lead screw nuts

- Lubrication-free lead screw nuts made from 5 materials
  - Types: Cylindrical, with flange or spanner flat
  - Reduced clearance through zero-backlash
- From page 1254

### Self-locking trapezoidal and metric threads



### Trapezoidal and metric lead screws

- Material: steel, stainless steel or anodised aluminium
  - Product range from M3 to Tr50x8
  - Multi start lead screws and right/left opposite drive available
- From page 1288



### Trapezoidal and metric lead screw nuts

- Lubrication-free lead screw nuts made from 10 different materials
  - Types: Cylindrical, with flange or spanner flat
  - Clearance reduction via anti-backlash feature
- From page 1300



### Special designs

- Lead screw nuts for drylin® linear modules, with flange or locating spigot
  - Split and spherical lead screw nuts with housing
  - Disc for customised clearance adjustment
  - Fast-Forward quick release nut for fast adjustment
- From page 1327



### Lead screw technology accessories

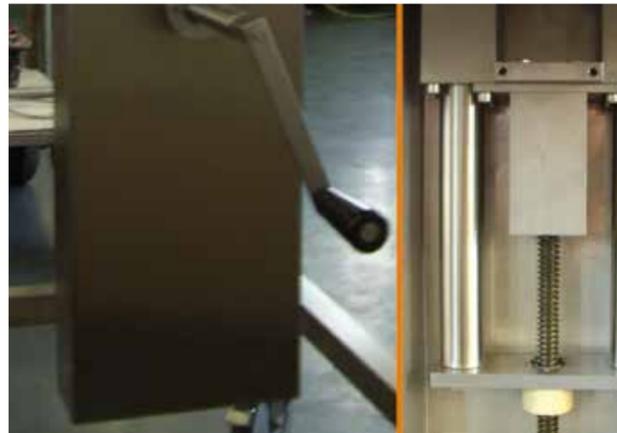
- Nut housing for drylin® lead screw nuts
  - Anodised lead screw support blocks, on plain or ball bearings
  - Clamping ring for securing lead screw
- From page 1342



This mixing station uses two drylin® trapezoidal lead screw nuts made from iglidur® high-performance polymers for the optimal mixing ratio of a two-component silicone mass.



The customer was looking for a cost-effective, lightweight and maintenance-free standard solution for small installation space. Costs and weight could be reduced thanks to the lubrication-free products from igus®.



igidur® J plain bearings for shaft guides and drylin® trapezoidal lead screw nuts for the height adjustment.



Clean use of lubrication-free drylin® trapezoidal lead screw nuts in a piece of laboratory equipment for liquid handling.

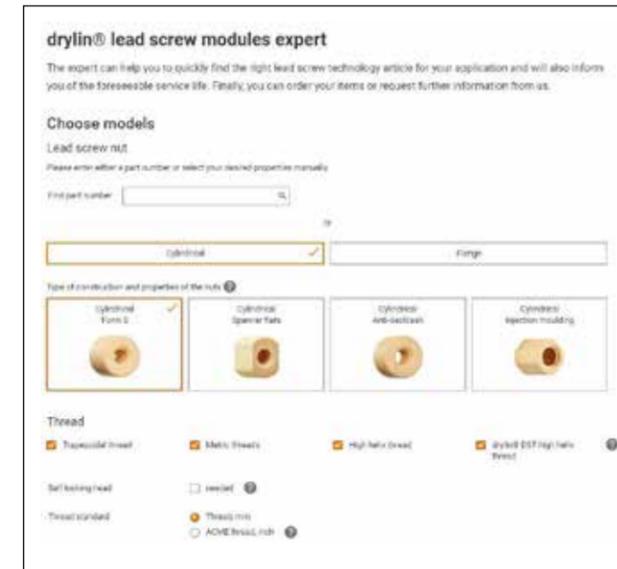


drylin® lead screw drives are used for feed mechanisms. In this, the customer combines a trapezoidal lead screw nut from iglidur® W300 with a rolled trapezoidal lead screw.



All of the main components of the mechanical movements, such as the linear axis, plain bearings, guide systems, etc. use igus® products.

drylin® lead screw drive expert and configurator



**Expert for lead screw drives:**  
**Find and calculate suitable lead screw drives**  
 Our drylin® expert systems for lead screw drives help you to find the right product quickly whilst giving the predicted service life. You have the option to configure and request your required dimension for lead screw nuts and lead screws.



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Download the online tool  
 app now

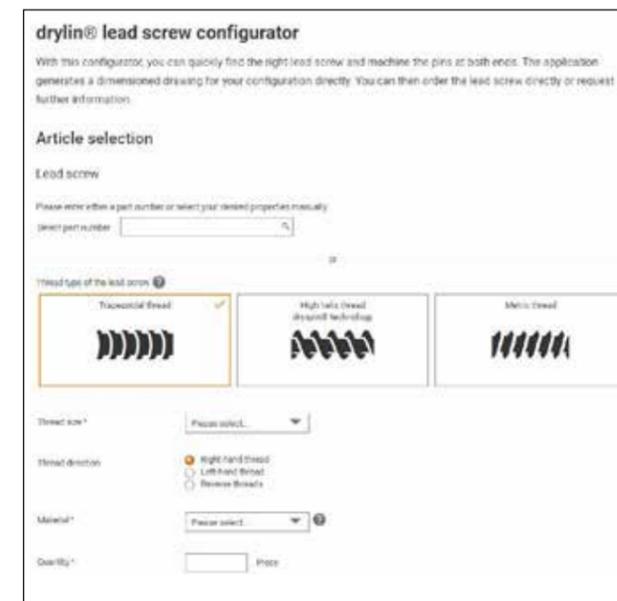


**Configurator for lead screw drives:**  
**configure required dimensions**

Ask quickly and easily for lead screw nuts and lead screws in individual dimensions.



► [www.igus-asean.com/leadscrew-configurator](http://www.igus-asean.com/leadscrew-configurator)



**Lead screw configurator**

Individually configured lead screws and machined ends can now be generated with just a few clicks. In addition to selection of the lead screw geometry and the materials, there are up to 7 options for machined ends.

► [www.igus-asean.com/leadscrew-configurator](http://www.igus-asean.com/leadscrew-configurator)