

Ball Screws with Nut Cooling

Nut Cooling can simplify ball screw cooling to make machine tools faster and more precise. The cooling capacity - greater or equal to existing hollow-shaft ball screws - is achieved. No sliding seals or rotary joints are required. Dimensions for mounting area are identical for HMD nuts, so the nut cooling can be implemented without changing machine designs.

Product Features

- Highly effective cooling: Optimised nut cooling mechanism gives cooling capacity \geq than hollow-shaft ball screws
- Innovative internal design: Preload torque does not increase even if the nut is cooled
- Improved handling: Achieved by simply attaching piping to the outer periphery of the nut flange means no need for sliding seal & rotary joints

Benefits

- Low cost, compact design and simple cooling mechanism
- Equivalent or better compared to hollow shaft cooling
- Controlling heat by high speed is essential for machine tools requiring accuracy in microns
- Effective cooling of the ball screw, heat transfer to the table is blocked
- Nut cooling can be implemented without changing machine designs for HMD nuts
- For others nut designs please contact NSK engineers who can advise you

Condition Description

- High Accuracy
- High Load
- High Speed
- High Temperature
- Low Noise

Industries

- Machine Tools
- Woodworking
- Injection Moulding

