# Flange Trapezoidal T8 Nut H Type

Flanged bronze nut for four starts trapezoidal lead screws. Manufactured from bronze with good wear resistance and suitable for smooth linear motion applications. With H-type mounting flange for low profile motion design.

**SKU: MCH1629**

## Brief Data:

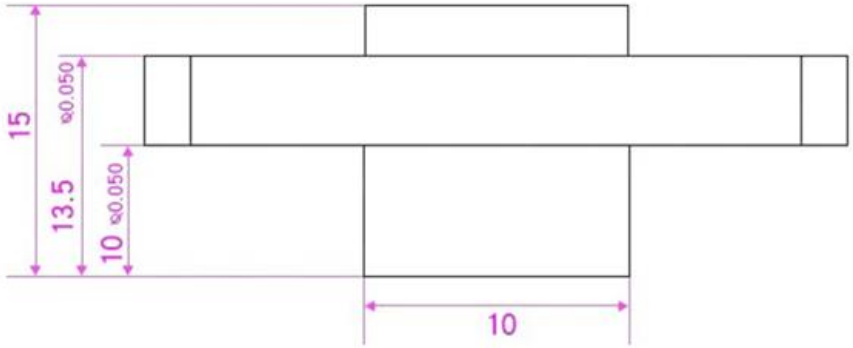
- Lead Screw Nut Type: H Type Flanged .
- Tread: Tr8*8-2p (4 starts)
- Lead Pitch:  2mm.
- Number of Start: 4.
- Inner Diameter: Ø8mm.
- Structure: Trapezoidal Spindle Screw.
- Mounting Screw: M3.
- Material: Brass

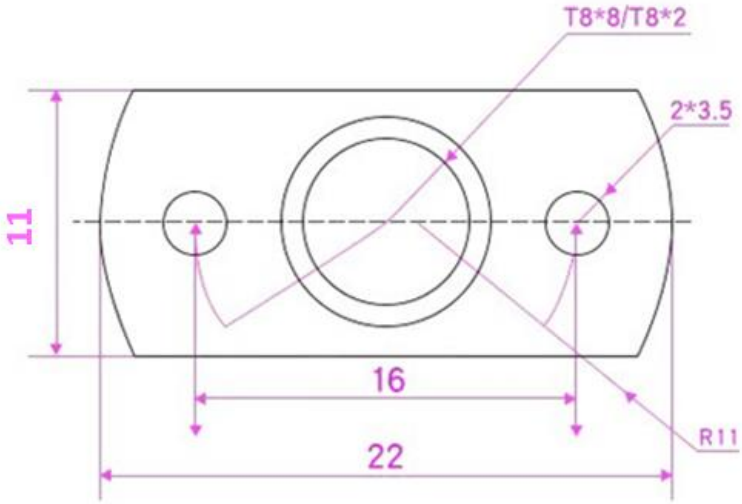
## Application:

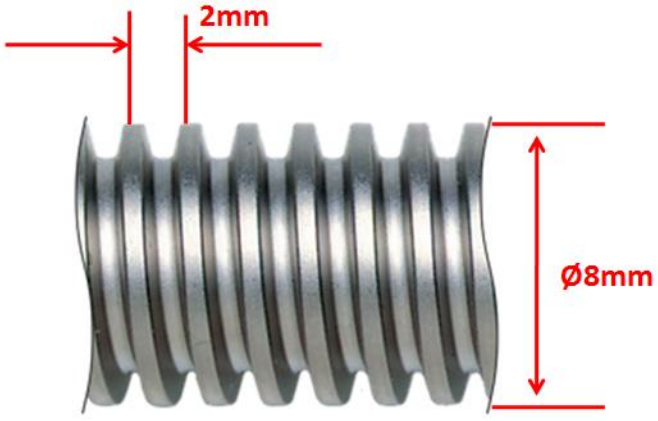
- 3D Printer
- CNC Machine
- Robotics
- Linear Motion

## Mechanical Dimension:

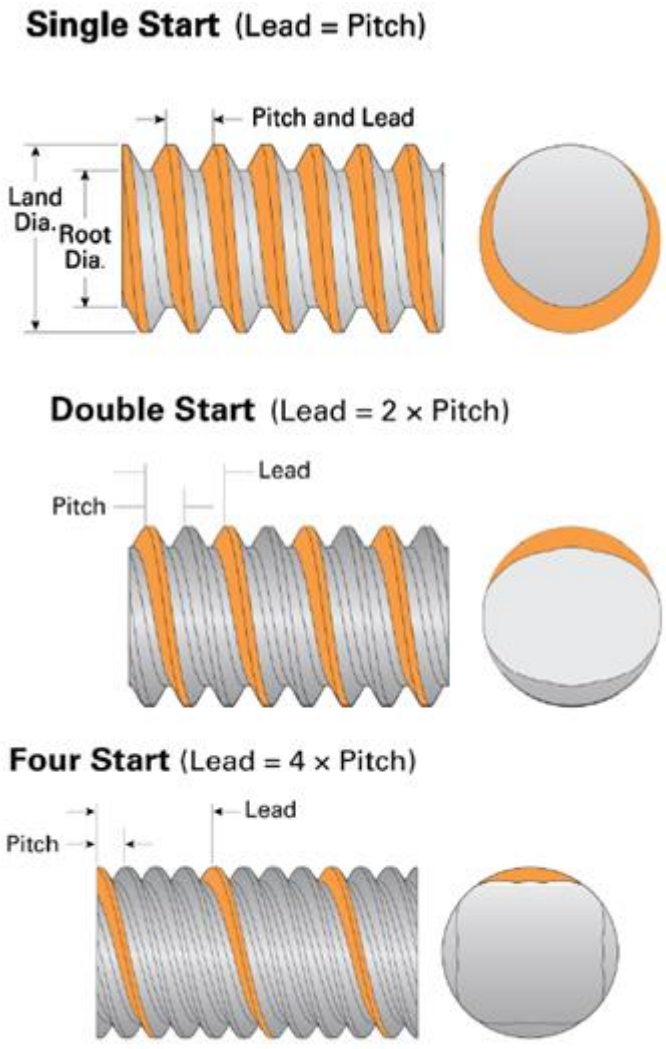
**Unit: mm**



# What is Number of Starts, Pitch and Lead of Lead/Ball Screw?




## Screw Starts

Is the number of independent threads/grooves on the screw shaft; example one, two or four in the figure above.

## Pitch

Pitch is the distance between screw grooves and is commonly used with inch sized products and specified as threads per inch.

## Lead

Lead is the linear travel the nut makes per one screw revolution and is how lead & ball screws are typically specified. The pitch and lead are equal with single start screws. For multiple start screws the lead is the pitch multiplied by the number of starts.

## Stepper Motor Drive Step Calculation:

The motor is a standard 1.8°/step Stepper Motor, with an integral four start 8mm pitch lead-screw with a metric trapezoidal thread. 4-Start means that there are four individual threads along the length of the lead-screw. 8mm Lead Distance means that the center to center distance of the thread is 8mm (or that a nut mounted on the lead-screw will be driven 8mm for one full rotation of the lead-screw).

### Using A4988 Stepper Motor Driver with 16-microstepping setting:

For 1.8°/step stepper motor, one full revolution require (360°/1.8°) = 200 Steps.

With stepper motor driver set to 16-microstepping required:

200x16 = 3,200 microsteps = 8mm.

So in order to move the nut mounted on the lead-screw 1mm distance, the Stepper Motor Driver required 3200/8 = 400 Steps. In other word, the controller board need to output 400 pulses in order to move 1mm linear distance.

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