



## Frequently Asked Questions

# What is the Maximum Weight you recommend on the bearings of the Nova 3000 lathe?

Date Raised: 04.05.01

Safe practises should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on [service@teknatool.com](mailto:service@teknatool.com)

Date Amended:

### Question:

I have a Nova 3000 Lathe. What is the maximum weight you recommend putting on the head stock bearings?

Lisa Madden, USA.

### Answer:

The Nova 3000 has a heavy duty bearing and spindle structure. The spindle is 44mm (1 3/4 ") diameter and is coupled with large dimension bearings. It is engineered well beyond normal woodturning needs, this is to provide long life and stability.

For outboard turning we recommend a maximum of 29 " x 6 " diameter, for the weight, reasonable is 50 Lbs.

The limitation normally is with stand and safety considerations. In all cases the work piece needs to be turned slow. Especially when it is being trued up at which stage it is out of balance. Secure fixing is also must.

Also below is an example of what people have turned on the 3000.

While we don't recommend work pieces of this size, it won't harm the machine, it is more a safety and turning experience consideration.

Extracted from News Group on Internet. To post your own query, go to [www.rec.crafts.woodturning.com](http://www.rec.crafts.woodturning.com)

Subject: Gloat-Pushed my Nova to the limit

From: (Deleted to maintain privacy)

Date: 1999/11/23

Newsgroups: rec.crafts.woodturning

I Felled a large Silky Oak last week for a friend and decided to have a crack at turning a large bowl from near the base. After cutting a slab 12" thick, I rounded it off with the chainsaw to a diameter of 25". On paper this doesn't seem that big, but it took 3 people to lift it onto my trailer and a chainblock to position it onto my headstock. I was originally concerned about mounting this blank using the aluminium faceplate but seeing that I did not have any other way I attached it with long wood screws. As many screws as I found holes and slots. I am always amazed at the holding capacity of wood screws in wet wood.

About a year ago I fitted a 2hp 3 phase motor to my Nova 3000 and a variable frequency inverter to give me full control of the speed without having to change belts. Don't know how I ever managed without this luxury before.

The blank weighed 280 lbs.. so I decided to set up the inverter to give a 35 second ramp up and ramp down time for motor.

It took me about 2 hours just to get the blank reasonably balanced and another 5 hours to rough out the bowl which ended up weighing 27 lbs.. wet. When hollowing out the centre I used my 4" jaws on my supernova chuck and was surprised at how well the jaws held in the recess considering the weight and overhang of the bowl. I don't know how long it will take to dry but it should be ready to finish off in about 6 months. I think I will call this the 'Millennium Monster'

Need to get back to my workshop now and dig out my lathe from the shavings...what a mess!