

**Teknatool International Limited**

7D Dallan Place, Rosedale, Auckland, New Zealand

Tel: +64 09 477 5600 Fax: +64 477 5601

Email: [service@teknatool.com](mailto:service@teknatool.com)Website: [www.teknatool.com](http://www.teknatool.com)

## Frequently Asked Questions

### Maximum Drilling Capacity in steel on NOVA Voyager Drill Press

Date Raised: 8 February 2017

Safe practices 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

Drill chuck supplied along with the NOVA Voyager is able to hold a drill bit up to **5/8" (0.625" or 16mm)**

Maximum recommended hole size with a #2 Morse taper shank is:

- **7/8" (0.825" or 22mm) in steel**
- **1" (25.4mm) in cast iron**

For investigation, we have used a **7/8"** drill bit to drill into a **medium carbon steel (1045)** with the setup shown in the image below. The motor load during this drilling operation test was **50%**.

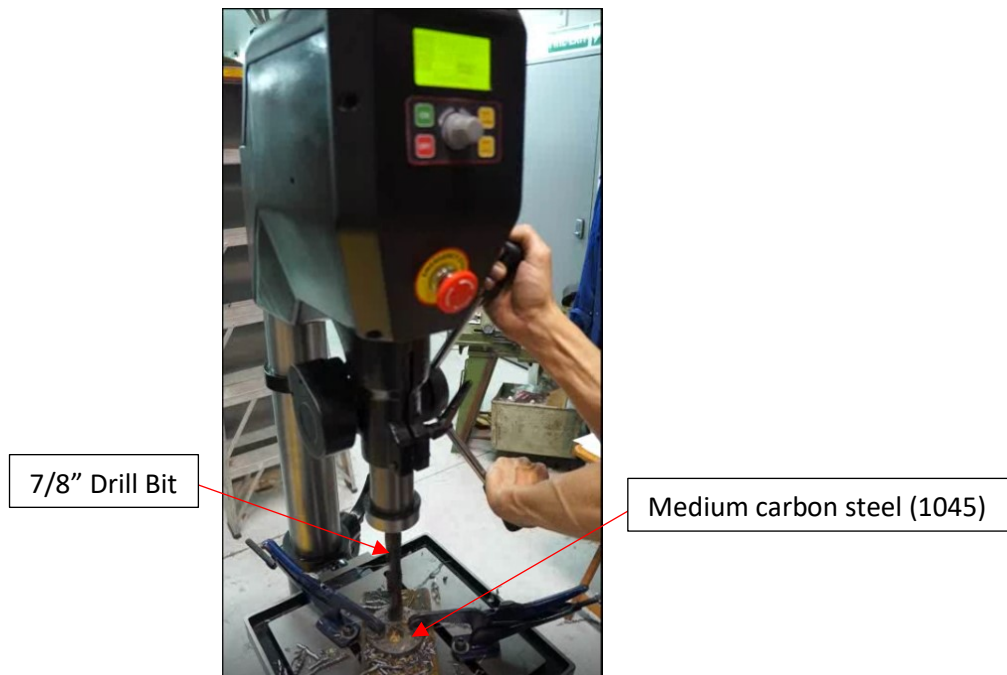


Figure 1: Voyager Drilling Capacity Test Setup

This result indicates that the drill press is capable of delivering more power to drill larger diameter holes depending on:

- Speed
- Selected material
- Sharpness of the cutting tool
- Skill of the operator

#### **Important Safety Notice:**

- Safe practices should always be used.
- Material must be securely clamped in a vice and fixed to the table
- Eye protection is essential
- Operator must be fully trained and be totally familiar with the operation of the machine
- All workshop and company safety procedures and full compliance with OSHA standards must be known and understood before operation of the machine