



A few of the plastic wheels which Terry brought to show the variety of movements that can be used.



A finished small box. Note the side carries several patterns.



At the time of our last meeting in July it was the beginning of a mini heat wave. Some of you may remember that a year ago we were being asked not to travel because everywhere was flooded. Some of us had to make detours to get to Offchurch. Such is the variation in our weather patterns. All of which is leading me into Rose engines. Yes it was a lathe but a very different sort of animal. It was a very different looking specimen that Terry Coombes introduced. The component parts all move in two directions- some three. Apparently our comments that it was more like a metal lathe than a wood one were cast aside by our speaker who quite rightly pointed out the wood lathe was the forerunner of all lathes. In fact he produced some early drawings of such lathes.

The essential element of the machine is a chuck end which will move against a spring. The cutter mounted on the other part needs to rotate at very high speed.

**Forthcoming Attractions**  
**Charnwood open day 17<sup>th</sup> Aug from 10 till 4 pm**  
**post code LE67 1TU off the A50**

**Our programme**

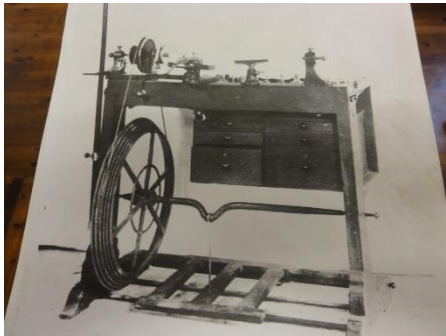
- Aug 1<sup>st</sup> @ 7:30 pm Hands on members' demo
- Sept 5<sup>th</sup> @ 7:00 pm Richard Findley
- Oct 3<sup>rd</sup> @ 7:30 pm Hands on or members' demo
- Nov 7<sup>th</sup> @ 7:00 pm Viv Harvey
- Dec 5<sup>th</sup> @ 7:30 pm Hands on or members demo

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Terry made this machine up over the years

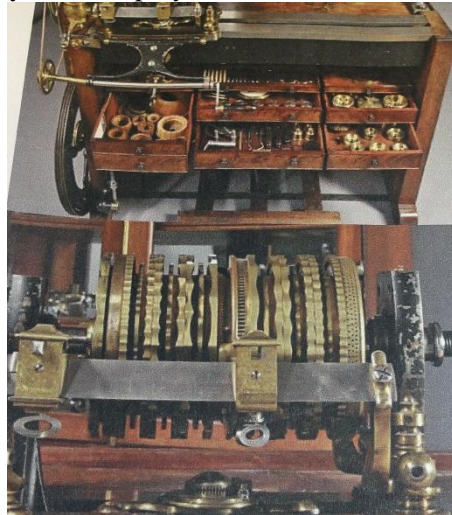


A lathe from 19<sup>th</sup> century

With a suitable tool kit!

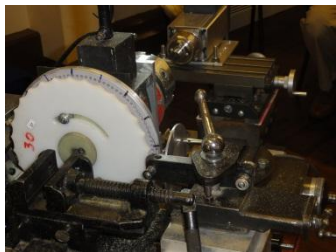
Terry pointed out that using a sophisticated lathe was only for the very rich who could afford to have one made. They often employed a workman from the estate to do the actual turning.

The next photo is of a full blown rose engine with only the chuck end shown. As you can see there are a huge number of wheels which can be used to set a pattern that will be carved on the work piece.



In Terry's case he used plastic disks which he obtained from a friend and cut himself.

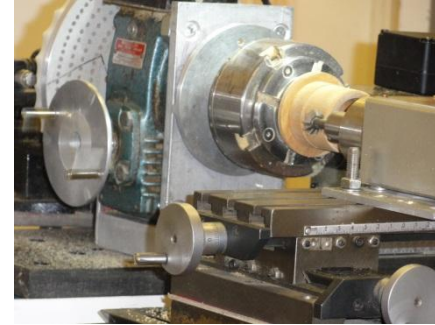
As you can see these are virtually the same as the metal version and serve the same purpose.



This picture is taken from behind the Chuck end. Note the short arm on the right which causes the whole end to move back and forth laterally.

Now we turn our attention to the other end. This holds the tool or working piece. These are usually router cutters or biscuit cutters. Some members suggested Dremill. The problem with cutting is the need to use high speeds,

really high speeds. The tools soon become useless unless you use high speed steel equipment. Your correspondent's notes suggest speeds around 34,000 rpm for which you need a suitable motor.



Both these pictures show the cutting end of the machine. The cutter is held in a chuck but the motor is three phase so it can reach the high speeds required to make neat clean cuts. Someone suggested it is a bit like a dentist's machine with its high speed wire. In the USA very high speed drills/routers are available but this is not the case in this country. Terry pointed out you can find them but they are not in the usual Wickes type catalogues.

Below are examples of simple cuts which can be used to decorate and mark box tops. Note that the same cutter is used to produce what appear quite different effects.



Basically you are routing to a pattern. Quite how you can plan the pattern depends on the motions of both the chuck end and the cutter. As you can see from the left picture here the both patterns are just a small modification to depth and lateral motion.