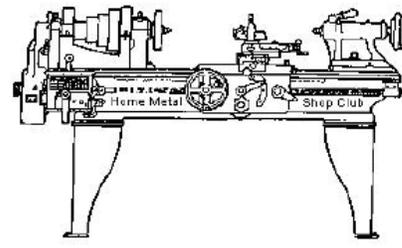




December
2005

Newsletter

Volume 10 Number 11



Visit Our Home Page www.homemetalshopclub.org

Statement of Purpose: *Membership is open to all those interested in machining metal and tinkering with machines. The club provides a forum for the exchanging of ideas and information. This includes, to a large degree, education in the art of machine tools and practices. Our web site endeavors to bring into the public domain written information that the hobbyist can understand and use. This makes an organization such as this even more important. -- Founder - John Korman (deceased)*

President	<i>Doug Chartier</i>	Secretary	<i>Dennis Cranston</i>	Webmaster	<i>Gene Horr</i>	SIG	<i>Dennis Cranston</i>
Vice President	<i>Jan Rowland</i>	Treasurer	<i>Emmett Carstens</i>	Librarian	<i>Dennis Cranston</i>	Coordinators	<i>Richard Pichler</i>

Next Meeting January 14, 2006

To be determined

Minutes of the December 10, 2005 Meeting

by Dennis Cranston

Business Meeting

The business meeting was held at Lyndons BBQ. The possibility of the club obtaining a laptop computer for use along with the project was discussed. It was decided not to get one at this time due to the various issues in maintaining it. The possibility of making a donation for a scholarship to a local student enrolled in an industrial arts course was mentioned. It was decided not to do this at this time. Also the possibility of being a sponsor for a robot competitor was brought up and further research is going to be done. The Treasure reported \$2,184.32 in the treasury.

General Meeting

The president, Doug Charter, opened the meeting. There were 3 visitors who became members, John Henorickson, Frank Emshoff and Philip Burtz.

The main topic was 'Power Taping'. Taping using hand taps had been covered in the 'newbie' sessions but few had moved on to tapping under power. The presentation was a team effort with several members contributing.

Doug Charter started off by distributing a brochure from Tapmatic. Doug had several examples of



Tapmatic units that he had obtained from regular suppliers as well as ebay. The use of eBay brought the prices down to where the home shop could afford one for occasional use.

One of the requirements for using Tapmatic units is the need for the torque arm of the unit to be restrained from spinning. On a drill press, mill/drill or vertical mill this can be a simple attachment tied to either the head or to the column. However for CNC type units it needs a little more design. Doug showed an example that was a clamp that went around the spindle housing and had an arm extending out that could capture the torque arm of the Tapmatic unit.

To use a Tapmatic unit on a drill press requires a steady pressure down until the depth is reached then a firm lift which causes the tapping unit to reverse and back the tap out of the hole.



Joe Williams showed a tapping machine which uses two belts from the motor to the spindle. When pulling the lever down, one belt drives the spindle containing the tap in a forward direction. When pulled up, the second belt drives the spindle in a reverse direction, backing the tap out. Joe also brought an assortment of various types of tapes including spiral point and a thread milling cutter.

Joe Scott showed a taping holder that is used in the tailstock of a turret lathe. This holder allowed the tap to go into a hole until the pin in the tap collet reached the end of a slot. Joe also showed chases used in tapping heads on lathes.

Leo Reed showed a home built holder that could be used on a small mill to hold a tap.

For Show & Tell Joe Scott brought a jig that he designed for working on a rifle stock.



Ric Pichler showed a tank-leak simulator he machined to demonstrate a commercial instrument.

