

Metro Detroit Metalworking Club				JAN '08	
Beginning balance	\$576.96	President	Rick Chownyk		_____
2007 dues income		V. President	Emil Cafarelli		_____
Non-dues income		Treasurer	Ken Hunt		_____
New balance	\$576.96	Editor/Lib	James Howard		_____
Expenses	-\$0.00	Publisher	John Lee		_____
Total on deposit	\$576.96	Webmaster	Dan Hittenmark		_____
DUES: \$10/yr. check to MDMC c/o Ken Hunt,			Macomb Community College 14500 E 12 Mile Rd, Warren, MI Room T-142 (parking off Martin Rd East of Bunert Rd Next meeting: Jan 9, 2008 (2nd Wed of every month)		

President's message: Happy New Year!

With the arrival of the New Year also comes a "new" President of the club! Actually, I am also an "Old" president of the club. The Club was founded by Bob Lorenze. He ran the club for many years. Next came Ron Biggs. I took over next, followed by John Osborne. John did a great job keeping the club together and going for the past couple of years, but I really missed the club and decided to come back! Anyway, over the next couple of months we will be getting back into monthly programs and hopefully even a swap meet and a picnic this Summer! See ya at the meeting!

Rick Chownyk

Robotics & Technology Club

Reminder: 1 PM on the second Saturday of the month. Location is Macomb Community College, S. Campus, T building, room 122.
Contact: Donald Foren at

MDMC Minutes of 12 December 2007 Meeting called to order at 7:30 pm by Emil Cafarelli.

Several potential new members were in attendance and introduced themselves as: Mike Blinke, equipped with a small but nice metalworking shop.

John, Blinke, his brother Robert Farr, Mark Yono,

John Osborne announced his resignation as president and proceeded to conduct elections for his and the remaining club officer positions.

Rick Chownyk was elected President, Emil Cafarelli was re-elected Vice President, Don Foren and James Howard were elected Newsletter Editors in training. Ken Hunt was re-elected Treasurer, James Howard was re-elected Librarian.

Phil Shannon, passed out a document for developing machinery or tools for fabrication of a single point gear cutter.

Mark Yono distributed pictures of a multi-tasking robotic vehicle he is building and will present at a future meeting.

Joe Pietsch, located Metrics Unlimited at Chicago Road between Mound and Van Dyke Roads.

Rick Chownyk, speaking as President Elect, requested that all members wear name-tags to future meetings, which he will provide or facilitate for the membership. He also requested that the membership prepare a product or device made by each member for presentation at future meetings.

James Howard presented a jigsaw-like device and asked the membership how it mounted a cutter blade and what it was for. Two members, Bert Campbell and Ron Schmidt, immediately identified it as a cloth-cutting jigsaw used in the clothing industry.

James Howard, Librarian/Editor MDMC

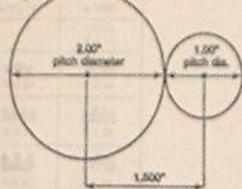


Cutting a New Gear or Reproducing an Existing Gear

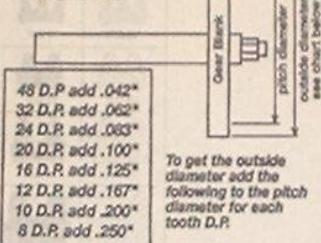
(1) Find a gear with the tooth size best suited for the job. To reproduce a gear go to #4.

(2) Determine the pitch diameter of the gear(s) to be cut.

Example:



(3) Cut a gear blank and arbor.



(4) Determine gear cutter dimensions using a sample gear.

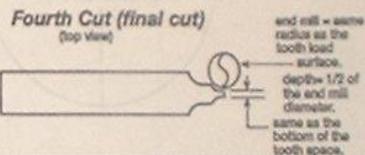
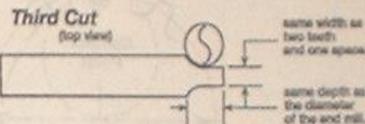
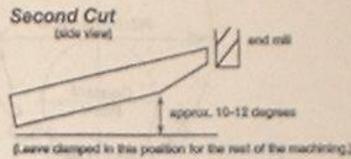
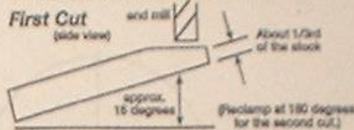


The bottom of the tooth space and the tooth radius can be measured with the end of a drill bit or a radius gage set.

Example: a 32 D.P. cutter has a .032" bottom space with a .125" radius on the tooth.

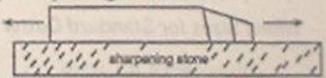
(5) Machining the cutter.

*Use oil hardening or air hardening square drill rod, 1/4" works for most smaller applications.



(6) Harden cutter. (Per manufacturer's instructions.)

(7) Sharpening the cutter.



(8) Cutter holder.

