July 2014

Bevel Gears- Bethlehem No-Twist Finishing Mill

M. L. Fallon

GLEASON WORKS

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October 28, 1965
File 12502

Morgan Construction Company
Worcester, Massachusetts 01605

Attention of Mr. Maurice Knott
Research Engineer

Dear Mr. Knott:

Bevel Gears - Bethlehem No-Twist Finishing Mill

We refer to your letter of October 19, 1965 in regard to the above gears.

We have processed dimension sheets which we enclose as follows:

T	ACT	INF
ERC		
MG		✓
JHH		
RJH		
WJH		
RK		
WWK		
WLL		
ACM		
CSM		
ESM		
GHM		
MM		
PASM		
PMM		
SO		
AP		
DS		
WHW		
NAW		
HHW		
HDY		
ENG.		
PIT.		
G.F.		

Stand No. 14

Dimension Sheet No. 128.835 for 34 x 87 teeth, 3.4 D.P., 3" face, 20° pressure angle and 35° spiral angle. Bending stress 3,180 psi, compressive stress 50,700 psi.

Stand No. 15

Dimension Sheet No. 128.836 for 39 x 97 teeth, 3.9 D.P., 2.5" face, 20° pressure angle and 35° spiral angle. Bending stress 2,870 psi, compressive stress 46,000 psi.

This will also be R.H. drawing CCW. Opposite rotation mtd.

You will note that our dimension sheets assume a left hand pinion driving clockwise in the case of stand number 14 and a right hand pinion driving counter-clockwise in the case of stand number 15. Is this correct?

encl
Also, you will note that we have changed your tooth numbers slightly to obtain hunting tooth combinations, which will be more advantageous from a lapping standpoint. We hope that the change in ratio can be tolerated.

O.K. per telephone Mtd.

Very truly yours,

GLEASON WORKS

M. L. Fallon

Application Engineering

MLFallon:jen
Enc. Dimen. Sheets

1865 GLEASON 1965