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Bevel Gears- Bethlehem No-Twist Finishing Mill

M. L. Fallon

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GLEASON WORKS

1000 UNIVERSITY AVENUE, ROCHESTER, NEW YORK, U. S. A. 14603
 Telephone (716) 473-1000 TWX (716) 235-3267
 Cable - Gleason TELEX 97875

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:

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.

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?

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 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.

Very truly yours,

GLEASON WORKS

M. L. Fallon
 Application Engineering



MLFallon:jen
 Enc. Dimen. Sheets

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.		

*This will also be R.H. driving
 CC wt. Depends
 on thread
 mt.*

*OK. per roll pan
 mt.*