





Video :--

working video



Machine Id :- 998	Serial No :-
Category :- Gear Related Machines	Model :- 102
Country :- United States	Make :- Gleason
Type of Machine :- Spiral Bevel Hypoid Gear Generator With Siemens PLC	Year :-
Weight :- 0.0	Dimensions :-
Power :-	Location :- Mumbai India...Under Power

Specification :-

Our PLC version has got the following advantages :

1. Easy access for an operator on screen all data and cycle running status.
2. Easy to edit cutter life, number of teeth on touch screen.
3. Easy to access real time no. of teeth cut on the screen.
4. Easy to access on screen number of cycles finished for remaining cutter life.
5. Any alarm (like Hydraulic motor tripped, Coolant motor tripped, cutter motor tripped or any door limit is open) is easy to access on screen.
6. Alarm remedy also given on screen pages by pressed ALARM HELP key
7. Machine complete status displayed on screen like Manual/Auto mode, ready position, cycle running, cycle stopped etc..
8. HMI Screen is IP65 protected.
9. JOG Inching function also adjoined with Auto cycle.
10. Cycle stop function added in machine functionality.
11. PLC Input and output status also visible on screen.
12. In future any change in operation can be done by PLC control.

Please note above functions are not possible in Conventional control of m/c.

SPECIFICATIONS

Gleason No. 102 Hypoid Generator

CAPACITY	English	Metric
Diametral pitch (Coarsest)	16	1.6 Mod.
Diametral pitch (finest)	Limited only by smallest practical cutter point width	
Cone distance	0" to 2 5/16"	0 to 59mm
Work Head angle	12° to 90°	
Extreme ratio	Any practical ratio	
Minimum ratio for non-generated spiral bevel gears	2½ to 1	

Minimum ratio for non-generated hypoid gears. 3½ to 1
 Maximum gear pitch diameter (shafts at 90°)

Spiral Angle	Spiral Bevel			Hypoid
	0°	20°	35°	50°
10-1 Ratio	4¼" 108mm	4" 117mm	3¾" 95mm	3¾" 95mm
3½ - 1	4" 102mm	4½" 114mm	3" 92mm	3¾" 95mm
2½ - 1	3" 98mm	4¼" 108mm	3½" 89mm	3¾" 95mm
2-1	3¾" 95mm	4" 105mm	3" 86mm	3¾" 95mm
1½ - 1	3½" 89mm	3" 98mm	3" 79mm	3" 76mm
1-1	3" 76mm	3¼" 83mm	2" 67mm	2¼" 57mm

Face width (maximum) 7/14" 11mm
 Number of teeth 5-200, except prime

WORK SPINDLE

Diameter of taper bore, large end 1 17/32"
 Taper ½"/ft
 Depth of taper 3"
 Diameter of hole through spindle ¾"

CUTTER DIAMETER

1.1" , 1 ½" , 2" , 2 ¾" and 3 ½"

WORK HEAD SETTINGS

Maximum offset above center 1" 29mm
 Maximum offset below center 1" 29mm
 Maximum distance from machine center to nose of spindle 5" 127mm
 Minimum distance from machine center to nose of spindle 1 ¼" 32mm

FEEDS AND SPEEDS

Cutter speeds 72 to 400 ft. / min. 22 to 122 M/Min.
 Feeds (sec./tooth) 1.28 to 48

ELECTRICAL EQUIPEMENT

Main motor ¾ H.P. 1800 R.P.M.
 Hydraulic motor H.P. 1800 R.P.M.

Coolant Motor

¼ H.P. 1800 R.P.M.

MISCELLANEOUS

Floor space 26 ½" x 39 ½" 67cm x 100 cm

Net weight 3,425 Lbs. 1,553 kg.

Shipping weight, boxed for export

1 case 5' 6' x 3' 3" x 5' 10" 3,880 Lbs.

1 case 167cm x 98 cm x 177cm Ex1,760 kg