



STRAIGHT BEVEL GENERATOR - GLEASON 14

Other gear cutting machines

Brand :

GLEASON

Model :

14

TECHNICAL DETAILS & EQUIPMENT

Bevel gear generator GLEASON No 14

Manufacturer: Gleason Works

Made in: USA

Capacity

Cone distance:

-Max: 805 mm

-Min: 0

Pitch angle (max.) shafts at 90°: 84°18

Pitch angle (min.): 5°42′.

Extreme ratio: 10:1

Diametral pitch (coarsest): 8.5 Mod.

Index range: 5 to 100 inclusive and most numbers to 200

Pitch diameter:

-Ratio: 10:1

-Face: 25 mm

-Cone distance: 283 mm

-Largest pitch diameter of gear: 565 mm

-Largest pitch diameter of pinion: 57 mm

-Face: 51 mm

-Cone distance: 295 mm

-Largest pitch diameter of gear: 591 mm

-Largest pitch diameter of pinion: 59 mm

-Face: 89 mm

-Cone distance: 305 mm

-Largest pitch diameter of gear: 610 mm

-Largest pitch diameter of pinion: 64 mm

-Ratio: 1:1

-Face: 25 mm

-Cone distance: 283 mm

-Largest pitch diameter of gear: 400 mm

-Largest pitch diameter of pinion: 400 mm

-Face: 51 mm

-Cone distance: 295 mm

-Largest pitch diameter of gear: 419 mm

-Largest pitch diameter of pinion: 419 mm

-Face: 89 mm

-Cone distance: 305 mm

-Largest pitch diameter of gear: 432 mm

-Largest pitch diameter of pinion: 432 mm

Work spindle

Diameter of taper hole at large end: 100 mm

Taper per foot: 15 mm

Depth of taper: 150 mm

Diameter of hole through: 78 mm

Spindle nose to machine center: 64 mm to 381 mm

Speeds and feeds

Cutter speeds (strokes per minute):

-60 cycle: 64 to 495

-50 cycle: 51 to 420

Feeds (seconds per tooth):

-60 cycle: 10 to 131

-50 cycle: 11 to 128

Electrical equipment

Main motor: 3 HP, 1800 rpm, 1800 rpm (60 cycle), 1500 rpm (50 cycle)

Hydraulic pump motor: 1.5 HP, 1200 rpm (60 cycle), 1000 rpm (50 cycle)

Cutting oil pump motor: 0.5 HP, 3600 rpm (60 cycle), 3000 rpm (50 cycle)