

#24485 Gemini CNC Lathe

Numerical control

Make..... Siemens
Model Sinumerik 840 D

Capacity

Height of centres from flat guide (mm) 1210
Swing over cross slide (mm) 1950
Swing over bed (mm) 2400
Distance between centres (mm) 1...20 000

Headstock

Main spindle bore diameter (mm) 162
Spindle nose..... DIN 55021 – 20
Spindle diameter at front bearing (mm)..... 320
Speed range I (min-1)..... 0 ... 70
Speed range II (min-1)..... 0 ... 140
Speed range III (min-1)..... 0 ... 275
Speed range IV (min-1)..... 0 ... 550
Maximum torque (Nm)..... 54 000
Main motor power (kW)..... 113
Diameter of 4 jaw independent chuck, steel made..... 1 800
back side acc. DIN55021 size 20"

Movements

Cross slide traverse (mm) 1130
Rapid movement of longitudinal slide (m/min) 6
Rapid movement of cross slide (m/min) 6

Tailstock

Quill diameter (mm) 400
Quill travel (mm) 350
Internal taper
Rapid traverse of tailstock body
Rapid traverse of tailstock quill
Spindle nose DIN 55021 , Size 15"

Bed type Metric 120

Width (mm) 2000
Height to flat guide (mm) 770

Weights

Maximum weight of work piece between centres (kg) 35000
With one steady / with two steadies (kg) 45000 / 55000
On air with gravity centre at 315 mm (kg) 8000

ACCESSORIES

1. 94262231800, Independent 4-jaws chuck \varnothing 1800 for heavy jobs 1 piece
 - Manual handling with force multiplier screw
 - With no internal gear
 - Maximum clamping \varnothing 1800 mm and minimum \varnothing 320mm and _____ RPM
 - Cast steel body
 - Long base jaws with cross channels
 - Top hard reversible jaws
 - Internal cone for centre point.
 - Centre releasing by oil
 - Manufacture by Talleres De Guernica

2. 94262510001, Closed fixed steady constructed in two halves 3 pieces
 - Capacity 200 – 700 mm
 - 4 roller supports
 - Admissible weight 10 000kg
 - Support on 2 guides. Allows passing of slide.
 - Steady will have 5 mm deep turned circle for checking centre of shaft
 - Rolls manufacture by INA, type NNTRE65x160x75-2ZL

3. 94262510002, Closed fixed steady constructed in two halves 3 pieces
 - Capacity 600 – 1000 mm
 - 4 roller supports
 - Admissible weight 10 000kg
 - Steady will have 5 mm deep turned circle for checking centre of shaft
 - Resting on 3 bed ways. Allows passing of slide.
 - Rolls manufacture by INA, type NNTRE65x160x75-2ZL

4. 92 Vacce, Open steady “C type” 0 piece
 - Capacity 250 -750 mm
 - Lower resting point with two rolls
 - Top part, manually displazable towards the rear part
 - Admitted weight 7500 kg
 - Resting on the tailstock bedways, allowing the longitudinal slide passage
 - Quill diameter 175 mm
 - Rolls manufacture by INA, type NNTRE65x160x75-2ZL

5. 94262600020 : Chip conveyor 1 piece

Fitted in the foundation, full length on the back of the machine for 20 000mm center distance.
Belt width 500 mm, pitch length 400 mm, cover width 600 mm and drop height form floor level min. 1500mm. manufacture by Teknikalde.

6. 94262450002 : Grinding device installed instead of turret 1 piece
- Grinding wheel capacity \varnothing 600 x 80
 - Motor power 11 kW
 - Grinding wheel flange and balancing shaft
 - Diamond holder at tailstock
 - Allows passing of steady rest
 - Cooling installation
 - Manufacture by MYL
7. 94262450003: Filtering equipment JUMA + GAIN - 150 1 piece
- Filtering paper system and magnetic roll
 - Filtering capacity 150 l/min
 - Coolant tank 480 l
 - Motor pump 180 l/min 2 bar
 - Start and stop will be programmable through M functions or by selection on the control panel.
8. 94262700001: Frontal bed ways telescopic protection 1 piece
- Frontal bed ways telescopic protection and all frontal part, including rack and liner scale
 - For lathe of 1 meter between centres.
 - Manufacture by Auxkal.
9. 94262700002: Supplement for each additional metre of frontal bed ways 19 pieces
- Supplement for each additional metre of frontal bed ways telescopic protection and all frontal part, including rack and liner scale
10. 92VACCE Exchangeable tailstock centre DIN55021-15" for chuck adaption 1 piece
- Tailstock centre DIN 55021 Size 15" nose for eventual second chuck for tailstock.
11. 94350300011: Exchangeable tailstock centre 60° \varnothing 120 mm type Metric 120 2 pieces
- The tailstock centre's radial run and axial run out less than 0,005 mm.
 - Locking by screws
12. 94350300012: Exchangeable tailstock centre 60° \varnothing 230 mm type Metric 120 1 piece
- The tailstock centre's radial run and axial run out less than 0,005 mm.
 - Locking by screws
13. 92VACCE: Exchangeable headstock centre 60° \varnothing 120 mm type Metric 120 or > 2 pieces
- Large headstock without readushing bushings
 - The headstock center's radial run and axial run out less than 0,005 mm.
 - Locking by screws
 - Releasing by mechanical using hydraulic pump

14. 92VACCE: Exchangeable headstock centre 60° ø230 mm type Metric 120 or > 1 piece
- Large headstock without reducing bushings
 - The headstock centre's radial run and axial run out less than 0,005 mm.
 - Locking by screws
 - Releasing by mechanical using hydraulic pump
15. 92VACCE: Exchangeable chuck centre 60° ø120 mm type Metric 120 or > 2 pieces
- Center to the chuck with reducing bushings
 - The centre's radial run and axial run out less than 0,005 mm.
 - Locking by screws
 - Releasing by mechanical using hydraulic pump
16. 94262430001 Support for boring bar on square turret 1 piece
- Inner diameter 200 mm
 - Length support of boring tool 1250 mm
 - Rear anti-overtime support
 - Cooling installation
 - Boring bar not included
17. 94262111040 C axis with servomotor and independent transmission 1 piece
- Main spindle interpolation with X and Z axis with inversion in continuous
 - Max revolutions 10 min-1
 - Accuracy positioning 10"
 - Hydraulic brake for interpolation machining
 - Hydraulic locking par static work piece machining
 - Encoder to the main spindle
 - Accuracy regulation card
18. 94262440002 Milling device on 4 positions size 40 turret 1 piece
- Tool holder spindle with ISO 50
 - 2 speeds range automatic change with Siemens control
 - Range I from 0 to 610 min-1. Torque 245 Nm (100k)
 - Range I from 0 to 3000 min-1. Torque 50 Nm (100k)
 - Maximum power at maximum speed 16 kW
 - External coolant
19. 92VACCE Grinding device fitted on the 4 positions size 40 turret 1 piece
- Grinding wheel capacity ø 500 x 60
 - Motor power 7,5 kW
 - Grinding wheel flange and balancing shaft
 - Diamond holder at tailstock
 - Cooling installation
 - Grinding wheel and diamond are not included

- Manufacture by MYL
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20. Tool holders:

- A2 size 1 piece
- 40
- 92VACCE: Tool holder ref. A1 size 1 piece
- 40
- 92VACCE: Tool holder ref. B1 size 1 piece
- 40
- 92VACCE: Tool holder ref. B2 size 1 piece
- 40
- 92VACCE: Tool holder ref. C3 size 2 pieces
- 40
- 92VACCE: Tool holder ref. C2 size 1 piece
- 40
- 92VACCE: Tool holder ref. C1 size 2 pieces
- 40
- 92VACCE: Tool holder ref. D3 size 40 1 piece
- ø100mm
- 92VACCE: Tool holder ref. D1 size 1 piece
- 40
- 92VACCE: Tool holder ref. D2 size 1 piece
- 40
- 92VACCE: Multi-tool holder narrow long size 2 pieces
- 40
- 92VACCE: 1 DIN 69811 tool holder size 40 with Capto 6 exit (right) 2 pieces
- 92VACCE: 1 DIN 69811 tool holder size 40 with Capto 6 exit (left) 2 pieces