

# TECHNICAL FEATURES

## GF 720 CNC

### CAPACITY

- Height of centres over bed	mm	430
- Distance between centres	mm	3500
- Useful turning length	mm	3200
- Swing over of bed guideways with covers	mm	780
- Swing over cross slide	mm	720
- Max workpiece weight supported between centres	kg	3000
- Max workpiece weight on chuck with centres of gravity at 400 mm from spindle bearing	kg	1000

### HEADSTOCK

- Spindle nose	ISO 702-1 A <sub>1</sub> size	15"
- Spindle bore (without hydraulic chuck)	mm ø	155
- Spindle bore (with hydraulic chuck)	mm ø	120
- Spindle reduction bush Morse Taper	N.	6
- Number of spindle speeds		infinite
- Range of rpm		Stepless variation
- Ranges hydraulically shifted	N.	2
- Variation of r.p.m. in the different ranges	r.p.m.	5 ÷ 1600
- Variation of r.p.m. with constant torque (speed range 1)	r.p.m.	5 ÷ 100
- Max constant torque available (speed range 1)	Nm	3600
- Variation of r.p.m. with constant power (speed range 1)	r.p.m.	100 ÷ 400
- Variation of r.p.m. with constant torque (speed range 2)	r.p.m.	20 ÷ 400
- Max constant torque available (speed range 2)	Nm	900
- Variation of r.p.m. with constant power (speed range 2)	r.p.m.	400 ÷ 600

### "C" AXIS

- Spindle speed	r.p.m.	3.7
- Min. programmable value	degree	0.001
- Brake torque at 4 MPa (40 bar)	Nm	2500
- Positioning precision	degree	0.005

### TAILSTOCK

- Quill diameter	mm	160
- Quill travel	mm	200
- Quill length out from tailstock body	mm	250
- Morse Taper	N.	6
- Clamping of tailstock hydraulically actuated + safe lock		Automatic
- Clamping operation		Automatic
- Tailstock travel control		Automatic

### Z-AXIS (Longitudinal)

- Max travel of carriage	mm	3500
- Feed (stepless variation)	mm/min	0÷3000

- Rapid displacement (stepless variation)	mm/min	<b>0÷10000</b>
- Torque available on axis motor	Nm	<b>42</b>
- Feedback system		<b>Circular encoder</b>

### **X-AXIS (Transversal)**

- Max travel of carriage	mm	<b>550</b>
- Feed (stepless variation)	mm/min	<b>0÷3000</b>
- Rapid displacement (stepless variation)	mm/min	<b>0÷10000</b>
- Torque available on axis motor	Nm	<b>27</b>
- Feedback system		<b>Circular encoder</b>

### **INSTALLED POWER**

- Spindle motor power	Kw	<b>37</b>
- Z axis motor power	Kw	<b>5</b>
- X axis motor power	Kw	<b>5</b>
- Coolant motor-pump	Kw	<b>1</b>
- Hydraulic unit power	Kw	<b>4.5</b>
- Lubricating unit power	Kw	<b>0.5</b>
- Auxiliary circuits power	Kw	<b>3</b>

### **NUMERICAL CONTROL**

**SIEMENS 840 D SL**

### **MAIN OPTIONAL DEVICES**

- Automatic 3 Jaw hydraulic jaw Autoblok type BHD 500 complete with:
  - hydraulic rotating cylinder Autoblok type VNK 302/127
- Electromechanical tool-holder system constituted by:
  - horizontal axis turret SAUTER with 12 stations
  - tool-holder disc VDI # 60
  - C.A. Brushless motor for driving of living tools
  - Power, drive and regulation modules for living tool motor
- Chip conveyer
- Self centering hydraulic steady rest SMW type KZ 4.1      Clamping capacity 90÷300 mm
- Manual steady rest closed type                                      Clamping capacity 120÷410 mm