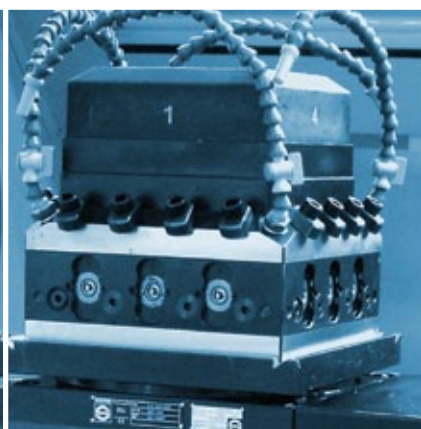
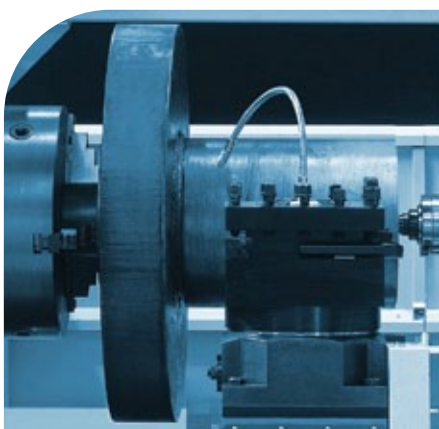




ROMI[®]

CNC LATHES



ROMI C Series

ROMI C 830

ROMI C 1000

Robust machines
for **large machining**
operations which
offers high **efficiency**
and **productivity**

**Versatility for all types of application
with assured productivity.**

The ROMI C 830, ROMI C 1000 and ROMI C 1000 (Big Bore) CNC lathes are machines of great versatility for different parts, with high power and torque, high speed and machining accuracy.

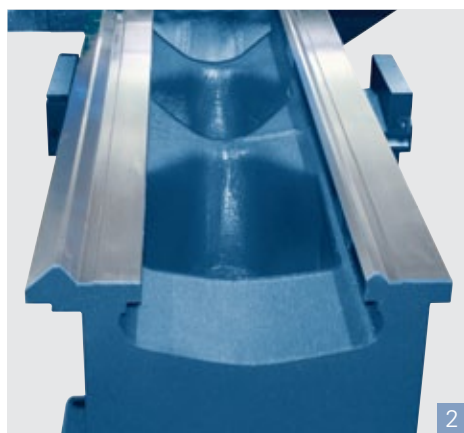
Equipped with Siemens Sinumerik 802D sl-PRO CNC, Siemens motors and drives, offering high performance and reliability, with excellent programming and operational resources.



- 1 Wide machining area, with swing over bed of Ø 850 mm (ROMI C 830) and Ø 1,000 mm (ROMI C 1000), with up to 5 meters of distance between centers.
- 2 Bed with hardened and ground guideways, ensuring high durability.
- 3 The ROMI C 830 and ROMI C 1000 can be configured with different types of chuck:
 - 3 jaws universal chuck
 - 3 jaws hydraulically chuck
 - 4 jaws independents chuck
 - 4 jaws independents rear chuck
- 4 The machine can be configured different types of tool holders and turrets, to meet the needs of different machining processes:
 - Quick change tool holder
 - 4 - station manual square turret
 - 4 - station electric turret
 - 8 - station turret VDI-50



Illustrative image
Equipped with optional



2



3



4



Illustrative image
Equipped with optional

Provides **flexibility**
for **multiple**
applications by
offering a choice
of **chucks** and
tool holders

1 Headstock

Robust cast iron housing, internally ribbed to provide high strength during heavy machining.

The spindle is supported by high precision bearings. The high load capacity of bearings offers rigidity and large vibration absorption under heavy duty machining.

Driven by an AC motor through pulleys and micro-V belts, which offers high torque and continuous speed variations in two ranges.

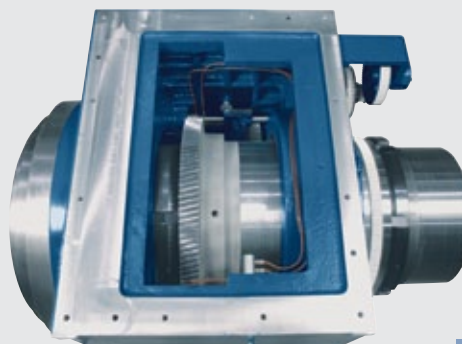
3 Headstock with Ø 375 mm of thru-hole (ROMI C 1000 Big Bore)

The ASA A2-20" spindle version offers Ø 375 mm (14.76") thru-hole.

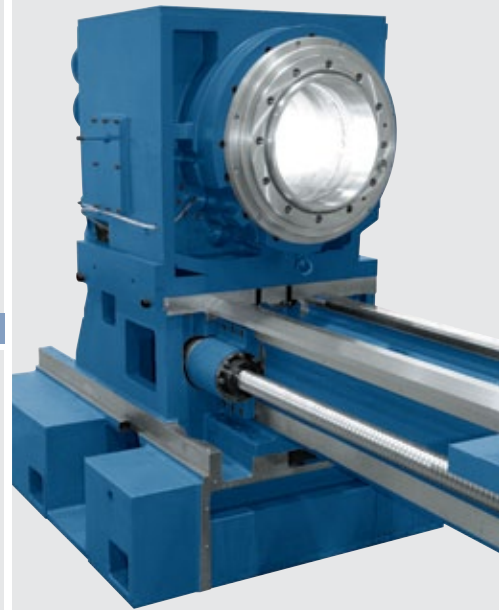
Favoring the machining of large parts and large diameter pipes.



1



2



3

2 Headstock transmission system

The gears and shafts hardened and ground, dynamically balanced, designed to withstand the most severe cutting conditions.

The headstock components are lubricated by a closed loop system, which ensures constant and efficient lubrication.

4 Tailstock

With built-in live center, 5 MT quill with incorporated bearings of high load capacity, high rigidity and vibration absorption.

The machines can be equipped with manual drive quill tailstock (standard) or hydraulic drive quill tailstock (optional).

6 Rear chuck (optional)

The ROMI C 830 and ROMI C 1000 can be equipped with 4 jaws independent rear chuck:

- Ø 550 mm (21.65") (ASA A2-11")
- Ø 700 mm (27.56") (ASA A2-11")
- Ø 600 mm (23.62") (ASA A2-15")
- Ø 720 mm (28.35") (ASA A2-20")
- Ø 800 mm (31.50") (ASA A2-20")

It is an important accessory for long axes and tubes support.

RMMP - Romi Manual Machining Package (optional)

This application allows the user to operate the machine in both manual and auto mode.

There are three levels of operation according to the operator skill.

Manual Mode

The operator machines the part as on a conventional lathe using Control Apron.

In this mode, manual operations such as Parallel Turning, Taper Turning, Radius Turning, Drilling and Groove can be performed.

8 Control panel with electronic handwheels

5 Tailstock body positioning

Positioning system by drag device with saddle.

7 Access door

Access door to the rear chuck, for opening and closing jaws.

Cycles Mode

In this mode the machinist operates the machine in semi automatic mode. He fills in the conversational screen fields for feed, speed and cycle data, then moves the tool to a safe starting point using the Control Apron and then presses the Cycle Start button to perform the cycle. Cycles as Drilling, Tapping, Groove / Parting, Thread and Roughing / Finishing Turning can also be performed. There are fixed cycles and free form for turning. The filling in of the cycles fields are aided by a graphic screen.

Teach In Mode

In this mode the operator saves the operations step by step as he is machining the first part. The operator can then save these into a program for use on later parts. Both manual operations and cycles operations can be saved together into the same program and the programs can be saved in the CNC memory or a compact flash card.



4



6



5



7



8

Technical Specifications			ROMI C 830		ROMI C 1000	ROMI C 1000 (Big Bore)
Capacity						
Center height	mm (in)		435 (17.13)		510 (20.08)	510 (20.08)
Distance between centers	m (in)		3,0 (118.11) or 5,0 (196.85) (ASA A2-11") 3,0 (118.11) (ASA A2-15")		3,0 (118.11) or 5,0 (196.85)	3,0 (118.11)
Swing over bed	mm (in)		850 (33.46)		1,000 (39.37)	1,000 (39.37)
Swing over cross slide	mm (in)		550 (21.65)		700 (27.56)	700 (27.56)
Travel (X axis)	mm (in)		520 (20.47)		520 (20.47)	520 (20.47)
Travel (Z axis)	mm (in)		3,020 (118.90) 5,020 (197.64)		3,020 (118.90) 5,020 (197.64)	3,020 (118.90)
Bed						
Width	mm (in)		460 (18.11)		460 (18.11)	460 (18.11)
Height	mm (in)		420 (16.54)		420 (16.54)	420 (16.54)
Headstock - version ASA A2-11"						
Spindle nose	ASA		ASA A2-11"	ASA A2-15"	ASA A2-20"	ASA A2-20"
Spindle hole diameter	mm (in)		160 (6.30)	260 (10.23)	320 (12.59)	375 (14.76)
Speed range	rpm		1 ~ 1,000	1 ~ 775	1 ~ 500	1 ~ 400
Range I	rpm		1 ~ 250	1 ~ 188	1 ~ 122	1 ~ 100
Range II	rpm		1 ~ 1,000	1 ~ 754	1 ~ 500	1 ~ 400
Feeds						
Rapid traverse (Z axis - version 3 m)	m/min (ipm)		8 (0.315)		8 (0.315)	8 (0.315)
Rapid traverse (Z axis - version 5 m)	m/min (ipm)		5 (0.197)		5 (0.197)	-
Rapid traverse (X axis - version 3 and 5 m)	m/min (ipm)		8 (0.319)		8 (0.319)	8 (0.315)
Quick change tool holder (optional)						
Number of stations			3		3	3
Toolholder size	Square	mm (in)	40 x 40 (1 1/2" x 1 1/2")		40 x 40 (1 1/2" x 1 1/2")	40 x 40 (1 1/2" x 1 1/2")
	Bar (diameter)	mm (in)	Ø 50 ou Ø 60 (2 or 2 3/8")		Ø 50 ou Ø 60 (2 or 2 3/8")	Ø 50 ou Ø 60 (2 or 2 3/8")
4 - station manual square turret						
Number of stations / tools			4		4	4
Toolholder size external	mm (in)		40 x 40 (1 1/2" x 1 1/2")		40 x 40 (1 1/2" x 1 1/2")	40 x 40 (1 1/2" x 1 1/2")
Toolholder size internal	mm (in)		Ø 60 (2 3/8")		Ø 60 (2 3/8")	Ø 60 (2 3/8")
4 - station electric turret (optional)						
Number of stations / tools			4		4	4
Toolholder size external	mm (in)		32 x 32 (1 1/4" x 1 1/4")		32 x 32 (1 1/4" x 1 1/4")	32 x 32 (1 1/4" x 1 1/4")
Toolholder size internal	mm (in)		Ø 50 / Ø 60 / Ø 80 (2" / 2 3/8" / 3 1/8")		Ø 50 / Ø 60 / Ø 80 (2" / 2 3/8" / 3 1/8")	Ø 50 / Ø 60 / Ø 80 (2" / 2 3/8" / 3 1/8")
Station-to-station indexing time	s		2		2	2
Turret indexing time 180°	s		3.3		3.3	3.3
8 - station electric turret VDI - 50						
Number of stations / tools			8		8	8
Station-to-station indexing time	s		1.2		1.2	1.2
Turret indexing time 180°	s		3		3	3
Toolholder size	Square	mm (in)	32 x 32 (1 1/4" x 1 1/4")		32 x 32 (1 1/4" x 1 1/4")	32 x 32 (1 1/4" x 1 1/4")
	Bar (diameter)	mm (in)	Ø 40 (1 1/2")		Ø 40 (1 1/2")	Ø 40 (1 1/2")
Manual tailstock						
Body positioning			Drag device by saddle		Drag device by saddle	Drag device by saddle
Quill drive			Manual (std) / Hydraulic (optional)		Manual (std) / Hydraulic (optional)	Manual (std) / Hydraulic (optional)
Maximum quill stroke	mm (in)		200 (7.87)		200 (7.87)	200 (7.87)
Quill diameter	mm (in)		130 (5.12)		130 (5.12)	130 (5.12)
Quill taper hole	MF		5		5	5
Installed power						
AC main motor (continuous rating)	hp / kW		30 / 22		30 / 22	30 / 22
AC main motor (S2 - 30 min rating)	hp / kW		40 / 30		40 / 30	40 / 30
Total installed power	kVA		40		40	40
Floor space required (front x side) (*)						
3.0 m between centers	m (in)		7.52 x 3.20 (296.06 x 125.98)		7.52 x 3.20 (296.06 x 125.98)	7.52 x 3.20 (296.06 x 125.98)
5.0 m between centers	m (in)		9.52 x 3.20 (347.80 x 125.98)		-	-
Net weight (approx.)						
3.0 m between centers	kg (lbs)		10,250 (22.60)		10,250 (22.60)	11,600 (25.57)
5.0 m between centers	kg (lbs)		13,750 (30.31)		-	-

(*) Without chip conveyor

Standard equipment

- A Automatic lubrication system with line filter and oil level sensor
- CNC Siemens 802D sl-PRO, with LCD 10.4" color monitor
- Complete documentation for Romi product on CD
- Complete documentation for ROMI product on CD
- Complete electrical installation for 380 Vca, 40 kVA, 50 / 60 Hz
- Coolant and lubricating system for the headstock
- Coolant system with two coolant pumps for

- mandatory choice (2 bar or 7 bar)
- Electrical panel with centrifugal climatization and positive pressure
- Fully enclosed splash guard, additional door with safety window interlocked by electrical safety switch
- Remote operation panel with handwheel and JOG functions for axes
- Sealed worklight

- Set of wrenches for machine operation
- Set of anchor bolts, and levelling screws
- Standard colors: Texturized Epoxy Enamel Munsell Blue 10B-3/4 and Texturized Epoxy Gray RAL 7035
- Tailstock with manually operated quill with built-in bearing and MT-5 quill taper hole

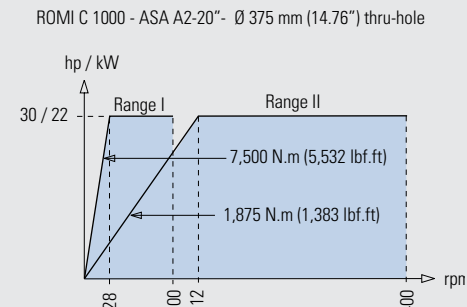
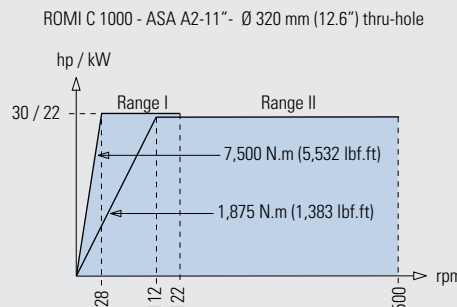
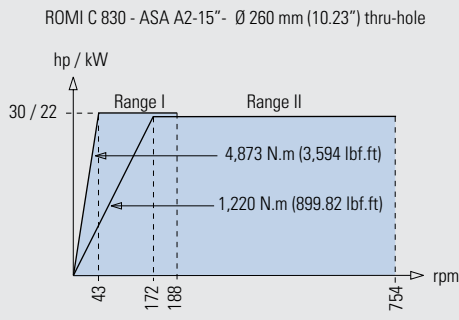
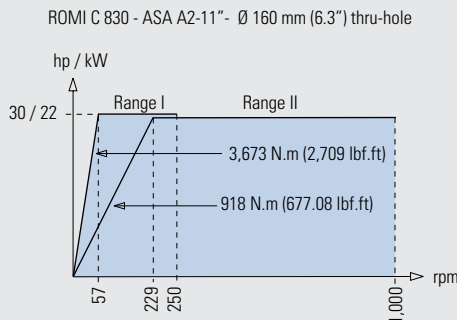
Optional equipment

- Air conditioning for electrical cabinet
- Autotransformer - 200 to 250VCA / 50-60Hz
- Autotransformer - 360 to 480VCA / 50-60Hz
- Box for chips collecting and coolant tank
- Coolant pump (10 lpm @ 7bar, 1.5kw / 2cv)
- Coolant pump (10lpm @ 2bar, 0,5kw / 0,75cv)
- Deep hole drilling support Ø 100mm (bar not included)
- Hydraulic operated tailstock quill with built-in bearing and MT-5, foot switch included
- Individual adapter plate Dorian
- Longitudinal Hinged belt chip conveyor (TCE)
- M code external interface with miscellaneous functions (4 M codes)
- Oil skimmer
- Romi manual machining package configured by control apron with two electronic handwheels for both x and z axes, joystick switches and an user friendly Siemens software "Manual Machine Plus"
- Rear centralizing ring with Ø 160mm (6.3") hole - ASA A2-11" (ROMI C 830)
- Rear centralizing ring with Ø 320mm (13") hole - ASA A2-20" (ROMI C 1000)
- Rear centralizing ring with Ø 375mm (14.76") hole - ASA A2-20" (ROMI C 1000 - Big Bore)
- 72 positions indexing (5°) - A2-11" (ROMI C 830 / ROMI C 1000 - Big Bore)
- Steady rest U type, Ø 100 to 440mm capacity (no rollers included)
 - Set of rollers for 100 to 305mm (4 to 12") Ø capacity
 - Set of rollers for 292 to 440mm (11.7" to 17.6") Ø capacity
- Quick change tool holder (tool holders and reduction sleeves not included)
- Extra tooling for quick change tool holders
 - Turning tool holder 40 x 40 mm (1 1/2" x 1 1/2")
 - Boring bar holder Ø 50 mm (Ø 2")
 - Boring bar holder Ø 60 mm (Ø 2 3/8")
- 4 - station manual square turret (tool holders and reduction sleeves not included)
- Extra tooling for 4 - station manual square turret
 - Boring bar holder Ø 60mm (2 3/8")
 - Reduction sleeve Ø 25 mm (1"), Ø 32 mm (1 1/4"), Ø 40 mm (1 1/2") and Ø 50 mm (2")
- 4 - station electric turret (tool holders and reduction

- sleeves not included)
- Extra tooling for 4 station electric turret tool holders
 - Turning tool holder 32 x 32 mm (1 1/4" x 1 1/4")
 - Facing tool holder 32 x 32 mm (1 1/4" x 1 1/4")
 - Boring bar holder Ø 50 (Ø 2") mm
 - Adaptor sleeve Ø 10 mm (Ø 3/8"), Ø 12 mm (Ø 1/2"), Ø 16 mm (Ø 5/8"), Ø 20 mm (Ø 3/4"), Ø 25 mm (1"), Ø 30 mm (1 1/8"), Ø 32 mm (Ø 1 1/4") and Ø 40 mm (Ø 1 1/2")
 - Double boring bar holder Ø 60 mm (Ø 2 3/8")
 - Adaptor sleeve Ø 12 mm (Ø 1/2"), Ø 16 mm (Ø 5/8"), Ø 20 mm (3/4"), Ø 25 mm (1"), Ø 30 mm (Ø 1 1/8"), Ø 32 mm (1 1/4"), Ø 40 mm (Ø 1 1/2") and Ø 50 mm (2")
 - Boring bar holder Ø 80 mm (3 1/8")
 - Reduction sleeve Ø 32 mm (1 1/4"), Ø 40 mm (1 1/2"), Ø 50 mm (Ø 2") and Ø 60 mm (Ø 2 3/8")
- 8 - station turret VDI-50 (tool holders and reduction sleeves not included)
- Extra tooling for 8 station turret VDI-50:
 - Turning tool holder - short 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
 - Turning tool holder - long 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
 - Facing tool holder 32 x 32 mm (1 1/4" x 1 1/4")
 - Boring bar holder Ø 40 mm (Ø 1 1/2")
 - Boring bar holder with internal cooling Ø 40 mm (Ø 1 1/2")
- 8 - station turret VDI-50 for driven tools (tool holders and reduction sleeves not included)
- Extra tooling for 8 station turret VDI-50 for driven tools
 - Turning tool holder - short 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
 - Turning tool holder - long 32 x 32 mm (1 1/4" x 1 1/4") (right hand or left hand)
 - Boring bar holder Ø 40 mm (Ø 1 1/2")
 - Facing tool holder 32 x 32 mm (1 1/4" x 1 1/4")
 - Boring bar holder with internal cooling Ø 40 mm (Ø 1 1/2")
 - Plug VDI-50 - Sealing plug
 - Radial rotating tool holder ER - 40 - Ø 4 mm to Ø 26 mm (DIN 6499)
 - Wrench set for tool holders
- 3 - jaws universal chuck
 - Ø 400 mm (Ø 15.7") (steel), thru-hole Ø 136 mm (5.35"), 1,800 rpm max - ASA A2-11"
 - Ø 500 mm (Ø 19.7") (cast iron), with thru-hole Ø 190 mm (7.48"), 700 rpm max - ASA A2-11"

- Set of wrenches for machine operation
- Set of anchor bolts, and levelling screws
- Standard colors: Texturized Epoxy Enamel Munsell Blue 10B-3/4 and Texturized Epoxy Gray RAL 7035
- Tailstock with manually operated quill with built-in bearing and MT-5 quill taper hole
- 3 - jaws universal rear chuck
 - Ø 400 mm (Ø 15.7") (steel), thru-hole Ø 136 mm (5.35"), 1,800 rpm max - ASA A2-11"
 - Ø 500 mm (Ø 19.7") (cast iron), with thru-hole Ø 190 mm (7.48"), 700 rpm max - ASA A2-11"
 - Ø 630 mm (Ø 24.8") (cast iron), with thru-hole Ø 252 mm (Ø 9.92"), 500 rpm max - ASA A2-20"
 - Ø 800 mm (Ø 31.5") (cast iron), with thru-hole Ø 320 mm (Ø 12.6"), 300 rpm max - ASA A2-20"
- 4 - jaws independents chuck
 - Ø 550 mm (Ø 21.65") (cast iron), Ø 160 mm (Ø 6.3") thru-hole, 250 rpm max - ASA A2-11"
 - Ø 700 mm (Ø 27.56") (cast iron), Ø 171 mm (Ø 6.73") thru-hole, 200 rpm max - ASA A2-11"
 - Ø 600 mm (Ø 23.62") (cast iron), Ø 267 mm (Ø 10.51") thru-hole, 970 rpm max - ASA A2-15"
 - Ø 720 mm (Ø 28.35") (cast iron), Ø 375 mm (Ø 14.76") thru-hole, 600 rpm max - ASA A2-20"
 - Ø 800 mm (Ø 31.5") (cast iron), Ø 320 mm (Ø 12.6") thru-hole, 200 rpm max - ASA A2-20"
- 4 - jaws independents rear chuck
 - Ø 550 mm (Ø 21.65") (cast iron), Ø 160 mm (Ø 6.3") thru-hole, 250 rpm max - ASA A2-11"
 - Ø 700 mm (Ø 27.56") (cast iron), Ø 171 mm (Ø 6.73") thru-hole, 200 rpm max - ASA A2-11"
 - Ø 600 mm (Ø 23.62") (cast iron), Ø 267 mm (Ø 10.51") thru-hole, 970 rpm max - ASA A2-15"
 - Ø 720 mm (Ø 28.35") (cast iron), Ø 375 mm (Ø 14.76") thru-hole, 600 rpm max - ASA A2-20"
 - Ø 800 mm (Ø 31.5") (cast iron), Ø 320 mm (Ø 12.6") thru-hole, 200rpm max - ASA A2-20"
- 3 - jaws hydraulically operated chuck and rear cylinder
 - Ø 315 mm (Ø 12"), with thru-hole Ø 90 mm (Ø 3.54") (ASA A2-11")
 - Ø 400 mm (Ø 15.7"), with thru-hole Ø 118 mm (Ø 4.65") (ASA A2-11")

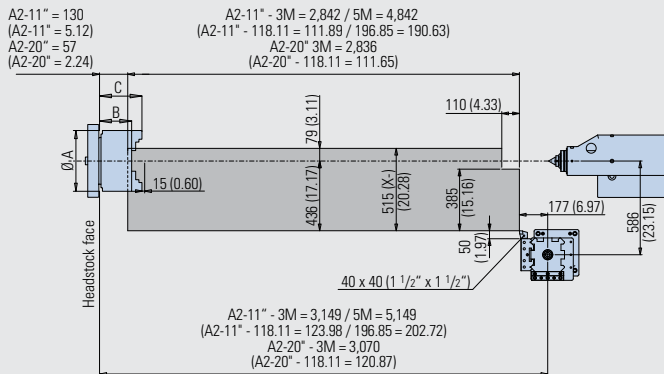
Power graphs - continuous rating



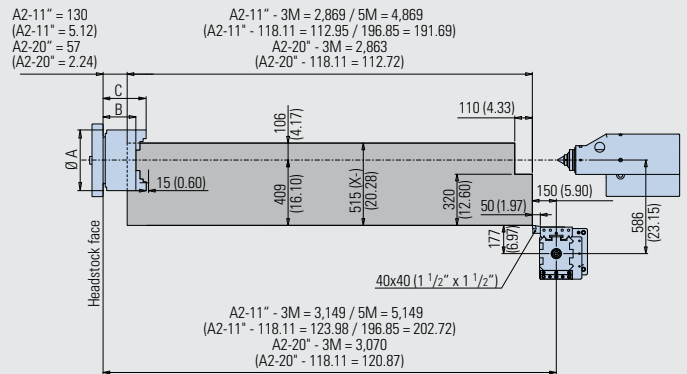
ROMI C 830 / ROMI C 1000 / ROMI C 1000 (Big Bore)

Quick change tool holder

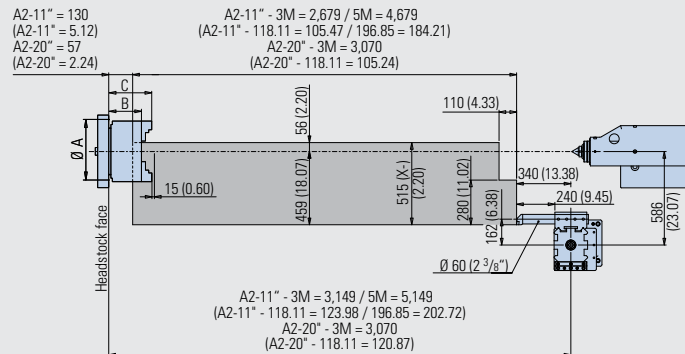
Turning



Facing

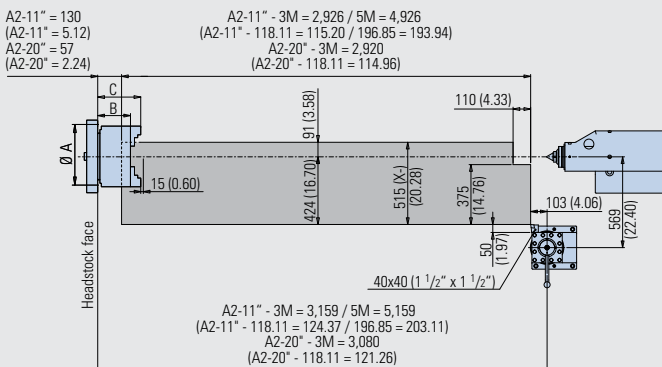


Boring

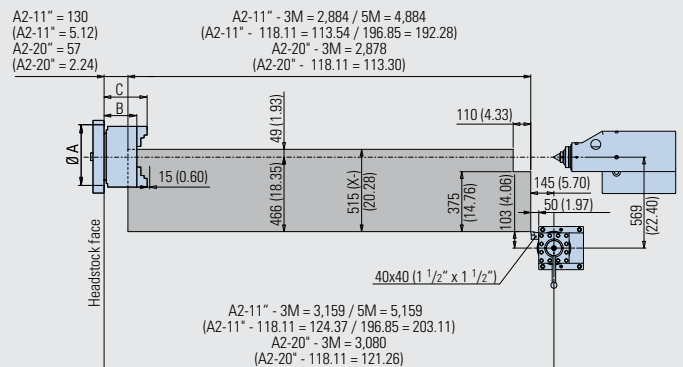


4 - station manual square turret

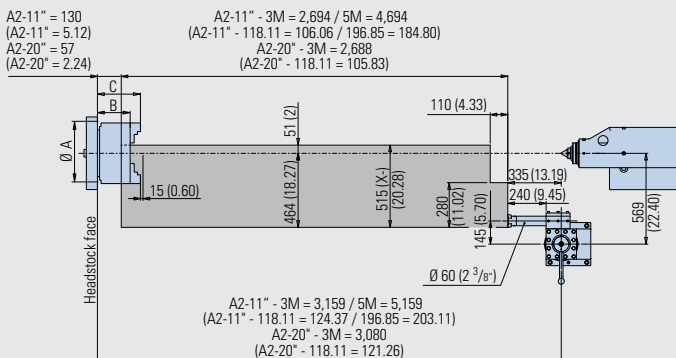
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Facing



Boring

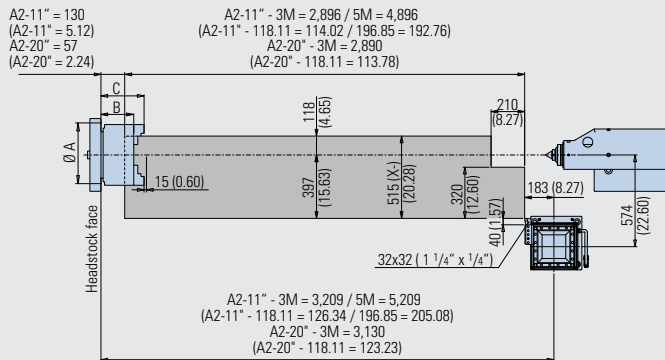


	Chuck model		Ø A	B	C
ASA A2-11"	3 Jaws universal chuck	mm (in)	400 (15.7)	148.7 (5.85)	198.7 (7.82)
	3 Jaws universal chuck	mm (in)	500 (19.7)	158.5 (6.24)	238.5 (9.40)
	4 Jaws independents chuck	mm (in)	550 (21.65)	120 (4.72)	180 (7.09)
	4 Jaws independents chuck	mm (in)	700 (27.56)	130 (5.12)	190 (7.48)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	315 (12)	139 (5.47)	193 (7.60)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	390 (15.35)	143 (5.63)	197 (7.76)
ASA A2-20"	3 Jaws universal chuck	mm (in)	630 (24.8)	188 (7.40)	275 (10.83)
	3 Jaws universal chuck	mm (in)	800 (31.5)	201 (7.91)	287 (11.30)
	4 Jaws independents chuck	mm (in)	720 (28.35)	120 (4.72)	206 (8.11)

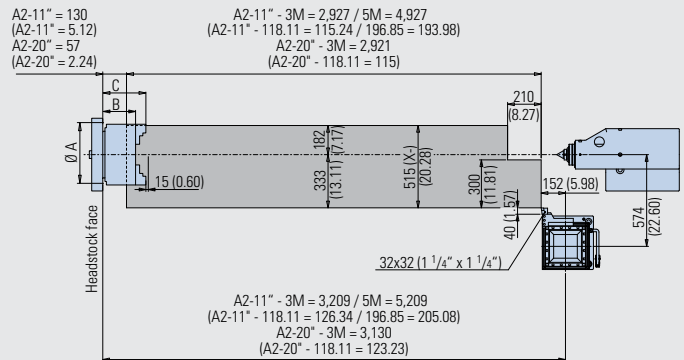
Not to scale drawings

4 - station electric turret

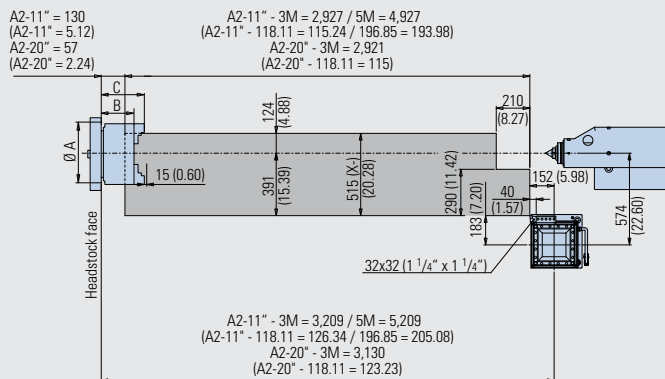
Turning



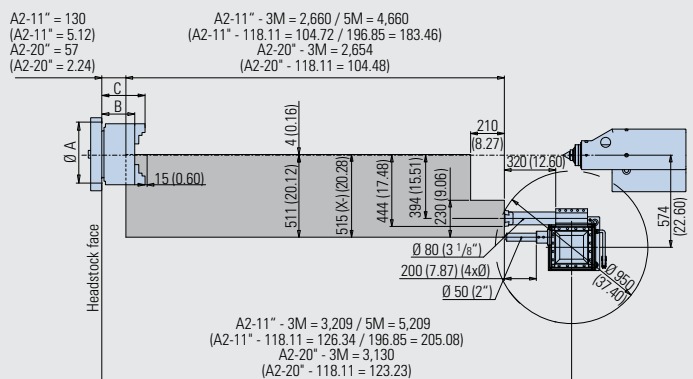
Turning



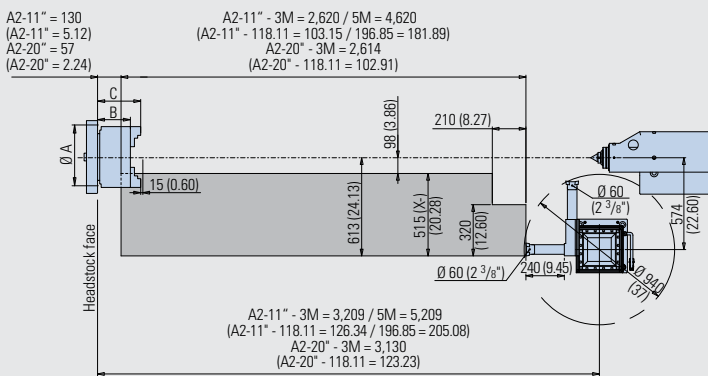
Facing



Boring



Double boring

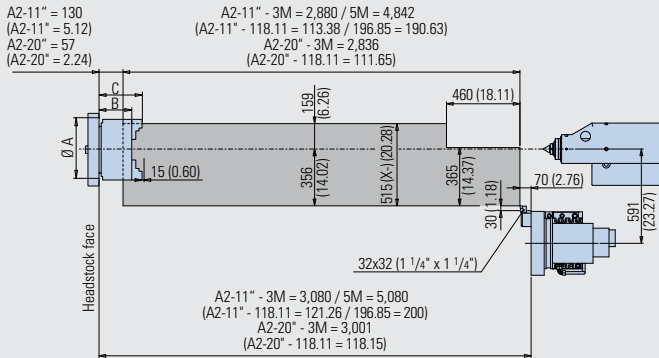


	Chuck model		Ø A	B	C
ASA A2-11"	3 Jaws universal chuck	mm (in)	400 (15.7)	148.7 (5.85)	198.7 (7.82)
	3 Jaws universal chuck	mm (in)	500 (19.7)	158.5 (6.24)	238.5 (9.40)
	4 Jaws independents chuck	mm (in)	550 (21.65)	120 (4.72)	180 (7.09)
	4 Jaws independents chuck	mm (in)	700 (27.56)	130 (5.12)	190 (7.48)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	315 (12)	139 (5.47)	193 (7.60)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	390 (15.35)	143 (5.63)	197 (7.76)
ASA A2-20"	3 Jaws universal chuck	mm (in)	630 (24.8)	188 (7.40)	275 (10.83)
	3 Jaws universal chuck	mm (in)	800 (31.5)	201 (7.91)	287 (11.30)
	4 Jaws independents chuck	mm (in)	720 (28.35)	120 (4.72)	206 (8.11)

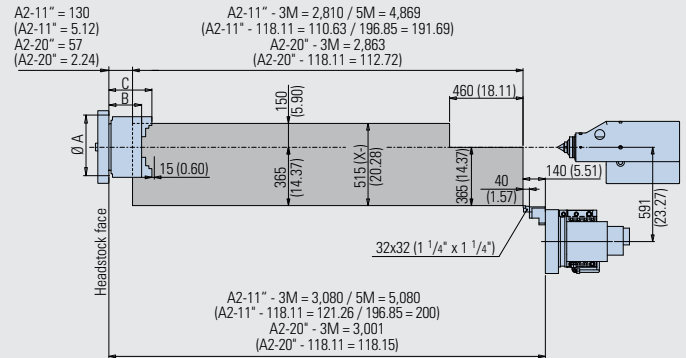
Work layout - Dimensions in mm (in)

8 - station turret VDI-50

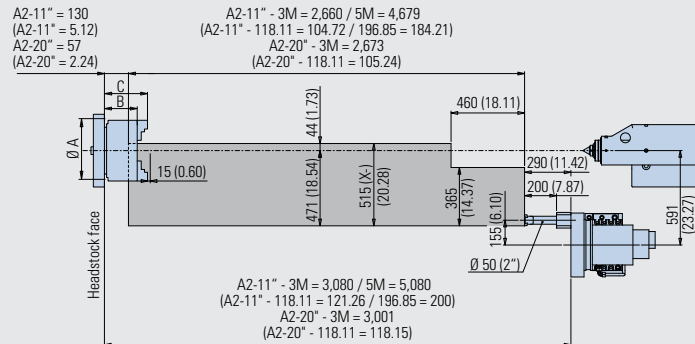
Turning



Facing

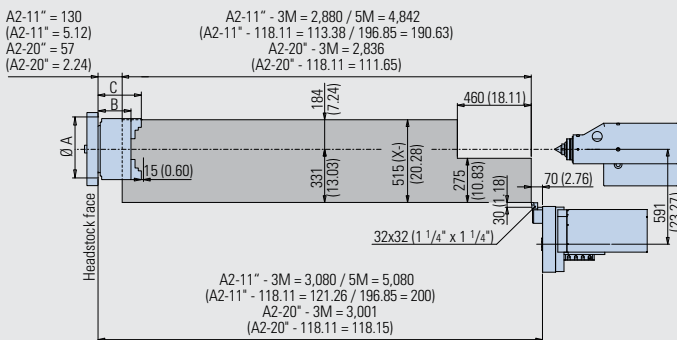


Boring

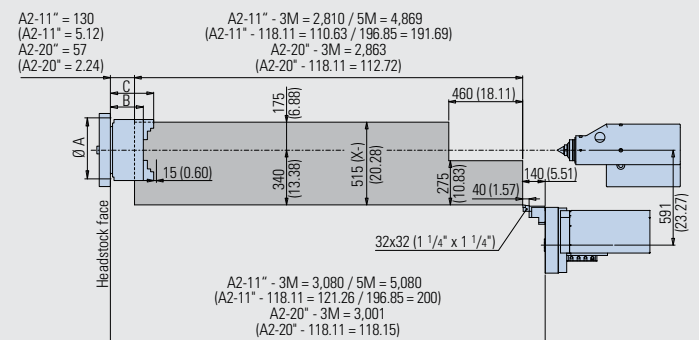


8 - station turret VDI-50 for driven tools

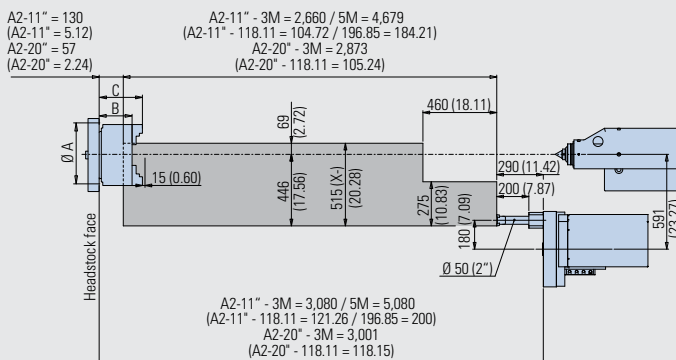
Turning



Facing



Boring



	Chuck model		Ø A	B	C
ASA A2-11"	3 Jaws universal chuck	mm (in)	400 (15.7)	148.7 (5.85)	198.7 (7.82)
	3 Jaws universal chuck	mm (in)	500 (19.7)	158.5 (6.24)	238.5 (9.40)
	4 Jaws independents chuck	mm (in)	550 (21.65)	120 (4.72)	180 (7.09)
	4 Jaws independents chuck	mm (in)	700 (27.56)	130 (5.12)	190 (7.48)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	315 (12)	139 (5.47)	193 (7.60)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	390 (15.35)	143 (5.63)	197 (7.76)
ASA A2-20"	3 Jaws universal chuck	mm (in)	630 (24.8)	188 (7.40)	275 (10.83)
	3 Jaws universal chuck	mm (in)	800 (31.5)	201 (7.91)	287 (11.30)
	4 Jaws independents chuck	mm (in)	720 (28.35)	120 (4.72)	206 (8.11)

Not to scale drawings

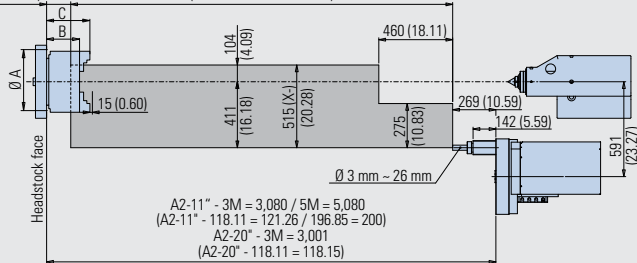
Work layout - Dimensions in mm (in)

8 - station turret VDI-50 for driven tools

Axial rotating tool holder

A2-11" = 130
(A2-11" = 5.12)
A2-20" = 57
(A2-20" = 2.24)

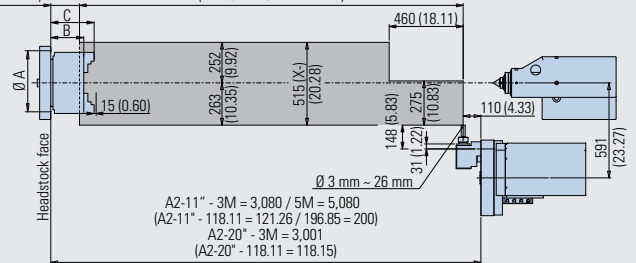
A2-11" - 3M = 2,681 / 5M = 4,869
(A2-11" - 118.11 = 105.55 / 196.85 = 191.69)
A2-20" - 3M = 2,863
(A2-20" - 118.11 = 112.72)



Radial rotating tool holder

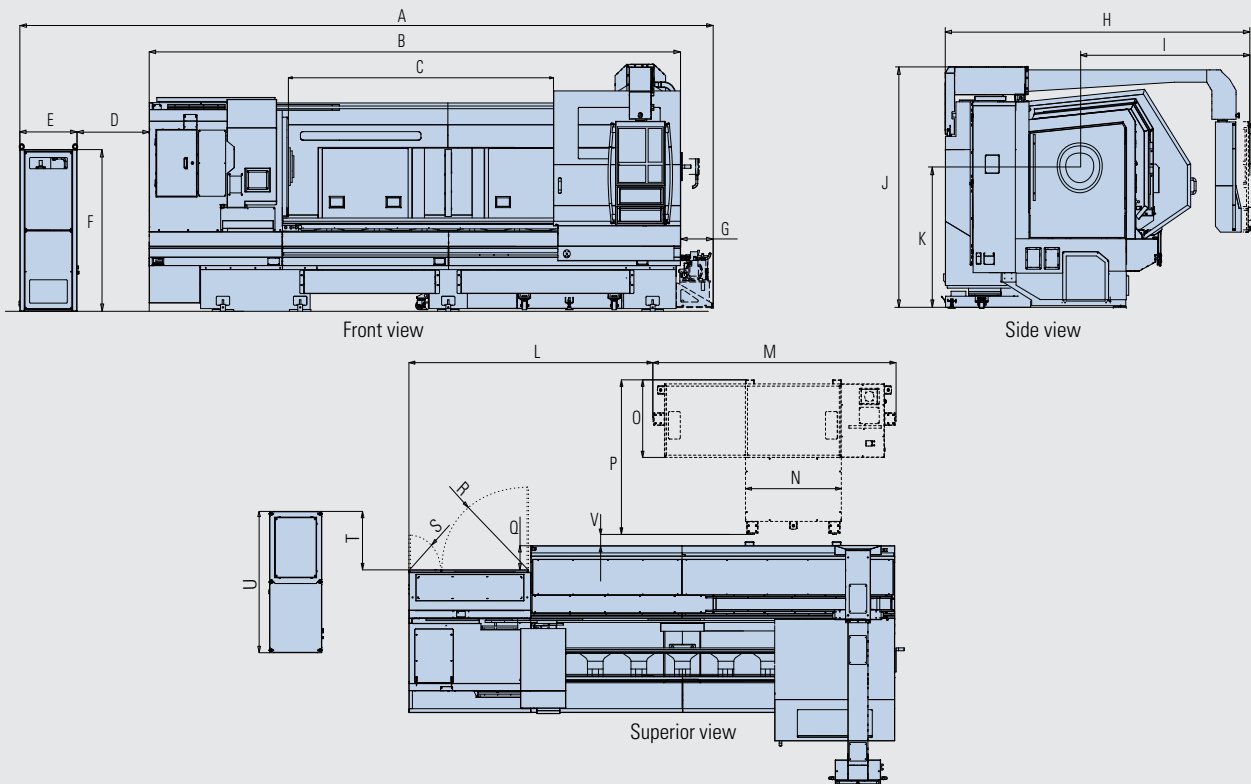
A2-11" = 130
(A2-11" = 5.12)
A2-20" = 57
(A2-20" = 2.24)

A2-11" - 3M = 2,840 / 5M = 4,869
(A2-11" - 118.11 = 111.81 / 196.85 = 191.69)
A2-20" - 3M = 2,863
(A2-20" - 118.11 = 112.72)



Chuck model		mm (in)	Ø A	B	C
ASA A2-11"	3 Jaws universal chuck	mm (in)	400 (15.7)	148.7 (5.85)	198.7 (7.82)
	3 Jaws universal chuck	mm (in)	500 (19.7)	158.5 (6.24)	238.5 (9.40)
	4 Jaws independents chuck	mm (in)	550 (21.65)	120 (4.72)	180 (7.09)
	4 Jaws independents chuck	mm (in)	700 (27.56)	130 (5.12)	190 (7.48)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	315 (12)	139 (5.47)	193 (7.60)
	Hydraulic chuck and thru hole rear cylinder	mm (in)	390 (15.35)	143 (5.63)	197 (7.76)
ASA A2-20"	3 Jaws universal chuck	mm (in)	630 (24.8)	188 (7.40)	275 (10.83)
	3 Jaws universal chuck	mm (in)	800 (31.5)	201 (7.91)	287 (11.30)
	4 Jaws independents chuck	mm (in)	720 (28.35)	120 (4.72)	206 (8.11)

Machine dimensions - Dimensions in mm (in)



		B.C. (*)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
ROMI C 830	mm	3,000	7,520	5,575	2,780	1,000	600	1,500	340	3,200	1,860	2,270	1,354	2,800	2,790	1,100	890	1,825	250	990	360	600	1,450	100
	in	118.11	296.06	219.49	109.45	39.37	23.62	59.06	13.39	125.98	73.23	89.37	53.31	110.24	109.84	43.31	35.04	71.85	9.84	38.98	14.17	23.62	57.09	3.94
ROMI C 1000	mm	5,000	9,520	7,575	4,780	1,000	600	1,500	340	3,200	1,860	2,270	1,354	2,800	2,790	1,100	890	1,825	250	990	360	600	1,450	100
	in	196.85	374.80	298.23	188.19	39.37	23.62	59.06	13.39	125.98	73.23	89.37	53.31	110.24	109.84	43.31	35.04	71.85	9.84	38.98	14.17	23.62	57.09	3.94
ROMI C 1000 (Big Bore) (*)	mm	3,000	7,520	5,575	2,780	1,000	600	1,500	340	3,200	1,860	2,270	1,354	2,800	2,790	1,100	890	1,825	250	990	360	600	1,450	100
	in	118.11	296.06	219.49	109.45	39.37	23.62	59.06	13.39	125.98	73.23	89.37	53.31	110.24	109.84	43.31	35.04	71.85	9.84	38.98	14.17	23.62	57.09	3.94

(*) B.C. = between centers

Not to scale drawings

CNC Features

Siemens 802D sl-PRO



The Siemens Sinumerik 802D sl-PRO CNC presents high-technology hardware and software.

Provided with 10,4" LCD color monitor with 16 softkeys for selecting and enabling functions and fields on operation screen.

Its panel is provided with navigation keys, RS 232 and Compact Flash Card interfaces, offering to the user more flexibility for loading programs and parameters.

Programming

Program creation / edition

- Program and subprogram name
- Subprogram call
- Program block search
- Program edit during machining (background edit)
- Allocated memory for programs = 1 Mbyte

- Program files in the memory = 150 max.(divided among the different 5 types of file extensions: mpf, spf, cma, cst and cus, and the amount of each type cannot exceed 100 files)

Reference functions

- Axes reference positioning up to 4 machine reference positions (G28, G30 P2-P4)

Coordinate system

- Workpiece coordinate local system (G52)
- Machine coordinate system (G53)
- Work coordinate system (G54-G59)
- Work coordinate system preset (G92)

Coordinate values and dimensions

- Absolute (G90) or incremental (G91) programming modes
- Measuring system: metric (G21) or inches (G20)
- Programming with decimal point
- Radius or diameter programming
- Programmable data input

Interpolation's function of axes

- Linear interpolation (G00, G01)
- Multi-quadrant circular interpolation (G02, G03)

Threading functions

- Single constant pitch, multiple leads and sequential threads (G33)
- Repair or parallel threads, conical threads, with constant and variable pitch

Feed functions

- Feedrate in mm/min or in/min (G94)
- Feedrate in mm/rev or in/rev (G95)
- Dwell (G04)

Spindle functions

- Constant spindle speed (G96) and rpm limits (G92)
- Spindle speed in rpm (G97)

Program simplification functions canned cycles

- External and internal turning cycle (G77)
- Threading cycle (G78)
- Facing cycle (G79)

Multiple repetitive cycles

- Finishing cycle (G70)
- Material removal cycle for turning (G71)
- Material removal cycle for turning (G72)
- Contour machining (G73)
- End face peck drilling cycle (G74)
- Multiple thread cutting cycle (G76)

Fixed cycles

- Drilling cycles (G83, G84, G85)

Tool functions

- Tool radius compensation (G40, G41 and G42)
- 64-pair geometry and tool wear off sets

Macro program

- Macro program call (parameters R)

Program control

- Subprogram (M98 / M99)

Operation

Operational devices

- CNC calculator
- Drive for Compact Flash memory card for data transfer (programs and parameters loading)
- Serial RS-232 interface for data transferring (programs and parameters loading)
- Data protection
- Ethernet interface
- USB interface

Manual operations

- Setup (Siemens mode)
- User Parameters Setting for JOG, rpm, dry run and thread

- Axes manual movement through electronic handwheel (mpg)
- Axes manual movement through JOG
- Axes homing
- Override
- Rpm control
- Tool repositioning after program stop

Execution operations

- MDA operation
- Automatic operation
- Single block operation
- Feed hold
- Optional stop (M01)
- Block delete (/)
- Program restart
- External program running

Test operations

- Program test
- Dry run function

Alarm and diagnosis functions

- Emergency functions
- Alarm messages
- Alarms history
- Operations history
- Diagnosis screen
- Help system

Graphic function

- Machining simulation

Data display

- Axes position
- Spindle speed (rpm)
- Spindle feed
- Programmed codes (G, T, S, M, F)
- Machining time
- Parts counter

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