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SIMPLETURNSERIES/MKD/SEP21/REV05

ACE DESIGNERS®

www.acemicromatic.net

SIMPLETURN SERIES

Designed to bridge the gap between manual and CNC lathes

THINK Turning® Ace Designers

Ace Micromatic® Group Company

One of the most recognized machine tool manufacturers in the market.

Founded in 1979, Ace Designers has developed a wide range on indigenous, cost effective products to meet the changing needs of its customers.

Ace is India's largest manufacturer of CNC turning centres and has remained the undisputed leader for more than two decades.

Ace has ensured product excellence through quality driven manufacturing processes supported by meticulously processed world class infrastructure.

Customer driven R&D at Ace constantly innovates and develops machines to provide customers cutting edge solutions to retain their product superiority.

This results in higher productivity and improved profitability for customers.

Foundry

High quality castings are one of the fundamental requirements to build robust and reliable machines.

Ace has a state of art foundry that incorporated worldwide technology to provide best in class castings.

1. Design and R&D 2. Spindle Assembly 3. Foundry 4. MAZAK Machining Centre
5. FAVRETTO Bed Grinding Machine 6. REISHAUER Gear Grinding Machine

World Class Infrastructure

Why choose us ?

42000+ Global Installations

10000+ Happy Customers

1500+ Customised Solutions

160+ Products

40+ Years of Experience

1 Market Leader in CNC Turning Centres

Machine Component

Bed

The bed is of robust double walled construction at front & rear, well supported by closely placed adequate number of cross roofings.

It provides good rigidity, stability and vibration less dampening.

Headstock (Standard)

Spindle assembly consists of double direction angular contact thrust bearing and tapered bore cylindrical bearing.

Spindle is of infinitely variable speeds, the bearings are grease lubricated for life.

Geared Headstock (optional)

The hardened and ground gear driven spindle is supported by self-compensating super precision oil lubricated tapered roller bearings in gearbox.

It is designed to give two useful ranges of continuous and infinitely varying speeds.

These features help in getting high torque and heavy cuts throughout the power output.

Turret

The machine is equipped with rigid 4 station vertical axis turret as standard.

The turret fitted with the three piece hirth coupling indexes electrically with higher precision and repeatability.

BTP 80 - 6 station turret is offered as standard in 6T models.

Bi-directional tool turret indexes in either direction for shortest indexing time.

Tailstock

The tailstock assembly consists of hardened quill sliding in honed cast iron housing.

The construction is robust and heavy. The tailstock housing is mounted on a cast iron base which moves on V and Flat guide ways.

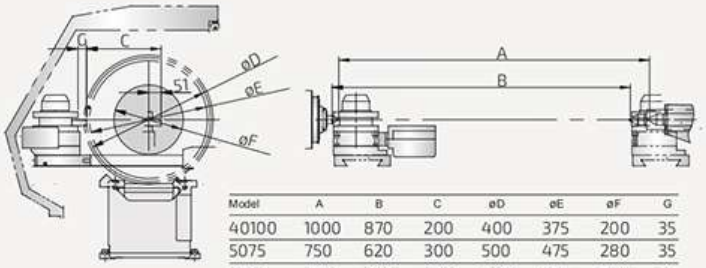
The quill is provided with MT-4 or MT-5 taper bores in the front.

Simple Turn machines are the perfect lathes for all tool rooms, first time CNC buyers and users looking for versatility at low cost. Its robust design, provides rigidity & high stiffness.

1. SimpleTurn Caracass 2. Cross Section-Double Walled Bed 3. Direct Drive Spindle Cartridge 4. Direct Drive Spindle Housing
5. Geared Spindle Housing 6. Vertical Axis Turret (4 stations) 7. Bi Directional Turret (6 stations) 8. Tailstock

Machining range diagram

Vertical axis turret (4 stations)

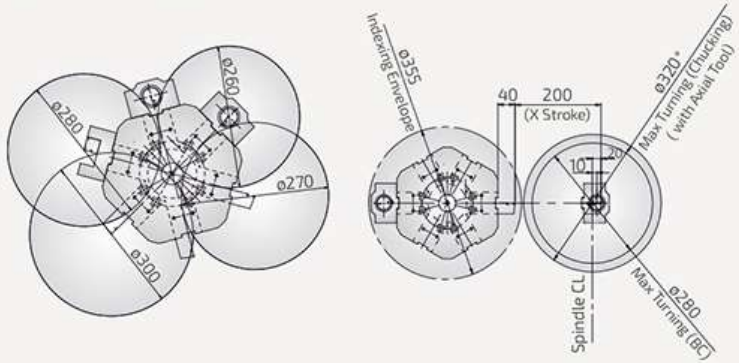


Model	A	B	C	øD	øE	øF	G
40100	1000	870	200	400	375	200	35
5075	750	620	300	500	475	280	35
6075	750	620	300	600	575	380	35
50125	1250	1120	300	500	475	280	35
60125	1250	1120	300	600	575	380	35
50200	2000	1870	300	500	475	280	35
60200	2000	1870	300	600	575	380	35

All dimensions are in mm

Interference diagram

Horizontal axis turret (6 stations)

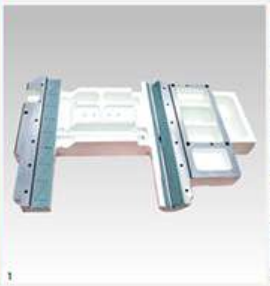


* Max turning diameter for 600 swing in case BC & Chucking

All dimensions are in mm

It offers flexibility & high machining Productivity

Application examples



1

2

3

4

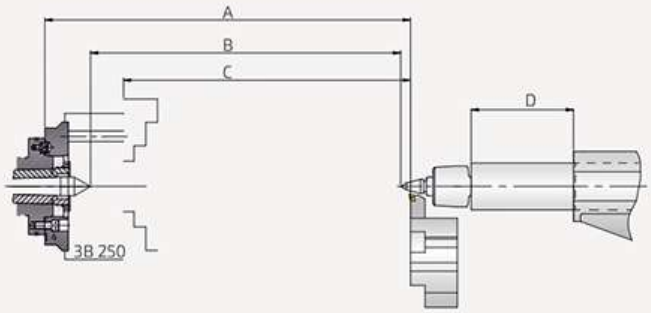
5

6

Excellent access to the working area ensures high safety

1. High Precision Turcite Coated Slides
2. Spindle VFD Control - ABB
3. Shaft Machining
4. Spindle Turning
5. Pump Shaft
6. Bore well Bit

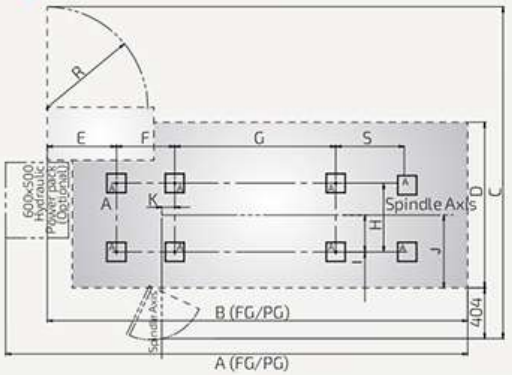
Horizontal axis turret (6 stations)



Model	A	B	C	D
5075/6075	625	530	490	180
50125/60125	1125	1030	990	180
50200/60200	1875	1780	1740	180

All dimensions are in mm

Floor diagram



Model	AFG	APG	BFG	BPG	C	D	E	F	G	H	I	J	K	R	S
40100	2894	-	3310	-	2335	1314	450	362	1100	467	248	490	81	675	-
5075/6075	2700	2450	3030	3280	2642	1320	550	465	1030	547	292.5	579	104	675	-
50125/60125	3345	-	3675	-	2642	1320	550	465	1280	547	292.5	579	104	811	-
50200/60200	4460	-	4664	-	2642	1320	550	465	1664	547	292.5	579	104	811	455

FG : Full Guarding, PG: Partial Guarding,

All dimensions are in mm

Specification

Model	Unit	40100	5075 / 5075-6T/SPM	6075 / 6075-6T/SPM	50125 / 50125-6T/SPM	60125 / 60125-6T/SPM	50200 / 50200-6T/SPM	60200 / 60200-6T/SPM
Control System			Fanuc / Siemens / Ace Digi			Fanuc / Siemens / Ace Digi		
Capacity								
Swing Over Bed	mm	ø400	ø500	ø600	ø500	ø600	ø500	ø600
Swing over cross slide	mm	ø200	ø280/ø220(SPM)	ø380/ø320	ø280/ø220	ø380/ø320	ø280/ø220	ø380/ø320
Maximum Turning Length	mm	870	620/550 (6T)	620/550	1120/1050	1120/1050	1870/1800	1870/1800
Maximum Turning Dia (axial tool)	mm	-	- / 320 (6T)	- / 320	- / 320	- / 320	- / 320	- / 320
Distance Between Centre	mm	1000	750/675 (6T)	750/675	1250/1175	1250/1175	2000/1925	2000/1925
Spindle								
Spindle Nose	mm	A2-5	A2-6	A2-6	A2-6	A2-6	A2-6	A2-6
Bore through Spindle without gearbox	mm	ø52.5	ø63	ø63	ø63	ø63	ø63	ø63
Bore through Spindle with gearbox	mm	ø43	ø53	ø53	ø53	ø53	ø53	ø53
Max. bar capacity without gear box with ø200 chuck & P-110 chucking cylinder	mm	ø25	ø42	ø42	ø42	ø42	ø42	ø42
Max. bar capacity with gear box	mm	ø25	ø36	ø36	ø36	ø36	ø36	ø36
STD Spindle Speed	rpm	20-2500	20-2000	20-2000	20-2000	20-2000	20-2000	20-2000
Power								
Spindle Motor Power (Continuous)	kW	5.5	7.5	9.5	7.5	9.5	7.5	9.5
Full Power Range without gear box	rpm	960-2500	700-2000	700-2000	700-2000	700-2000	700-2000	700-2000
Full Power Range with gear box	rpm	300-870 & 870-2500	180-550 & 550-2000	180-550 & 550-2000	180-550 & 550-2000	180-550 & 550-2000	180-550 & 550-2000	180-550 & 550-2000
Spindle motor model		AC induction motor	AC induction motor	AC induction motor	AC induction motor	AC induction motor	AC induction motor	AC induction motor
Tooling								
Indexing Axis		Vertical / Horizontal	Vertical / Horizontal	Vertical / Horizontal	Vertical / Horizontal	Vertical / Horizontal	Vertical / Horizontal	Vertical / Horizontal
Turret Type		SQTP166 / BTP-63	SQTP190/BTP-80	SQTP190/BTP-80	SQTP190/BTP-80	SQTP190/BTP-80	SQTP190/BTP-80	SQTP190/BTP-80
No of tools max		4/8	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6
No of Stations		4/8	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6	4 / 6
OD Turning Tool Size	mm	20 x 20	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25	25 x 25
Axes								
X-Axis Stroke	mm	200	300 / 200 (6T)	300 / 200 (6T)	300 / 200 (6T)	300 / 200 (6T)	300 / 200 (6T)	300 / 200 (6T)
X-Axis Rapid rate	m/min	8	8	8	8	8	8	8
X-Axis Ball screw dia X pitch	mm	ø25 x 5	ø25 x 5	ø25 x 5	ø25 x 5	ø25 x 5	ø25 x 5	ø25 x 5
X Motor torque (Fanuc/Siemens/Ace Digi)	Nm	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7
Z-Axis Stroke	mm	940	700 / 625 (6T)	700 / 625 (6T)	1200 / 1125 (6T)	1200 / 1125 (6T)	1950 / 1875 (6T)	1950 / 1875 (6T)
Z-Axis Rapid rate	m/min	10	10	10	10	10	10	10
Z-Axis Ball screw dia X pitch	mm	ø32 x 5	ø32 x 5	ø32x 5	ø32 x 5	ø32x 5	ø40 x 5	ø40 x 5
Z Motor torque (Fanuc/Siemens/Ace Digi)	Nm	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7	7/9.5/7
TailStock								
TailStock Quill Travel	mm	140	180	180	180	180	180	180
TailStock Quill Dia	mm	63	80	80	80	80	80	80
Quill taper		MT-4	MT-5	MT-5	MT-5	MT-5	MT-5	MT-5
Tailstock centre type		Add On	Add On	Add On	Add On	Add On	Add On	Add On
Hydraulic System								
Coolant tank Capacity	Ltr	110	110	110	170	170	170	170
Over all Dimensions (LxWxH)	mm	2500x1650x1800	2500x2000x1900	2500x2000x1900	3050x2000x1900	3050x2000x1900	4070x2680x1900	4070x2680x1900
Over all Weight (without packing)	Kg	~2000	~2500	~2750	~3000	~3250	~3500	~3750

Note: ( ) Values in bracket are for corresponding SPM or 6T models. Specification subject to change without prior notice.

Standard Accessories

- Direct drive spindle
- 4 station vertical axis turret
- BTP 80 - 6Station turret - 6T models
- Coolant equipment
- Machine lamp
- Electronic hand wheels at apron
- Automatic slideway lubrication
- Manual tailstock
- Operator tools

Optional Accessories

- Spindle with gear box
- Main spindle reduction sleeve, Drive plate and MT-4 dead center
- Revolving center for tailstock
- Steady Rest :Roller type
- Follow Rest : Roller type
- Manual chuck
- Hydraulic chuck and cylinder
- Hydraulic quill
- Basic spares for two years running
- Running spares for one year - specifically for cast iron dry machining environment.

Fanuc

Siemens

Ace Digi

Three modes of operation

- Cycle mode
- Teach in mode
- ISO code programming