



SENDAY ENTERPRISE CO., LTD.

SENDAY LATHE

CE ISO 9001

www.senday.com.tw



Corporate Overview

Senday Enterprise Co., Ltd., is a professional lathe manufacturer established in 1975. We have passed ISO and CE international certification. With quality, technology and after-sales service as core values, our industry-leading technology and commitment to excellence our products have won the trust of local as well as international customers and distributors. By letting our quality speak for our reputation and staking our reputation on our quality, our relentless pursuit to quality and quantity has enabled us to realize win-win outcomes in business with our customers.



R&D Capability

Our talented R&D specialists have used advanced Solid Works 3D drawing software and analytical skills to greatly shorten product development cycle as well as check for mechanical interference in real-time. Our exceptional customization capabilities offer customers a wide variety of options.

Manufacturing Capability

Our experienced production team can draw on the resources of skilled craftsman, a strict production control system and stringent internal quality checks. Be it CNC lathes or customized hydraulic lathes, Senday's spirit of constant improvement combined with our outstanding mechanical-electrical integration ability allows us to offer comprehensive solutions. Industry-leading assembly techniques and quality assurance ensure complete customer confidence in our products.

Having over 25 years of experience in turning and automation means Senday can always offer customers a range of customized solutions. The constant accumulation of experience and know-how is the reason Senday continues to lead the industry.

The 660 square meter machine showroom not only provides customers with a comfortable environment for inspecting our machines but also showcases new machines as they are released. We only recommend the best machines to our customers and we strive to make our customers feel welcome.

Quality Guarantee

At Senday, we never compromise on quality. Every machine has a production resume and undergoes stringent internal inspections during assembly. All parts and components are also carefully tested before assembly. To ensure the good quality, every machine undergoes extensive run-in testing before shipment.

Corporate Vision

In the future, Senday intends to be even more proactive in market development. With Taiwan as our base and the world as our market, we will leverage the regional advantage offered by our 33,000 square meter factory in Foshan, Guangdong, to promote our brand on the international stage. Senday has successfully marketed our products in more than 40 countries thanks to an extensive system of overseas sellers and distributors.



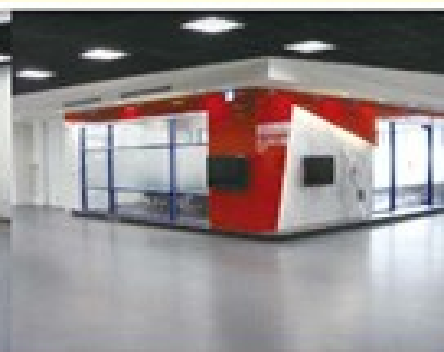
Senday's current product lines include bench lathes, hydraulic lathes, CNC lathes and Swiss-type CNC automatic lathes. At the newly opened 14000 square meter factory in the precision machinery park Senday will continue to develop the multi-function CNC turning center. Senday thanks all of our customers for their continued support and encouragement. In the future, we will continue to serve our customers by actively developing high value added lathes.

- 1984** Senday Enterprise Co., Ltd., established with capital of NT\$2 million.
- 1988** Construction of Futian Road Factory; engaged in export ; patent on improved lathe tailstock structure granted (Patent No.: 40546)
- 1997** Designed, developed and produced pneumatic-hydraulic semi-automatic lathes. Capital reaches NT\$6 million
- 1993** Designed, developed and produced computer-controlled lathes; trademarked in Thailand and Indonesia.
- 1996** Construction begins on No. 2 Dali Factory in Taichung. The factory is on a 2000 square meter site and has 3700 square meter of floor space. Capital reaches NT\$20 million
- 1997** Began investing in CNC lathe development and manufacture
- 1998** Introduced the ISO 9002:1994 quality assurance system; obtained ISO certification the following year
- 1999** Service office set up in China (Humen) to service local customers
- 2000** Trademarked with the China Trade Mark Office
- 2002** ISO 9001:2000 certified; Lathe with Leveling Gage patented in China (Patent NO.: 528112)
- 2006** Joined the "Taichung City Precision Machinery Technological Park". The new 7,900 square meter site provides 14000 square meters of building space.
Received the "Golden Hand Award" from the Taichung County Government. Patent on Improved Lathe Tailstock Structure (R.O.C. Patent No. M260344).
- 2007** New Factory constructed on new 33000 square meter site in Foshan, Guangdong.
- 2008** Collaborated with the Precision Machinery Research & Development Center on the development of multi-task-function CNC Lathes
- 2009** Application for SBIR grant approved by the MOEA Department of Industrial Technology
Project Name: Swiss-type CNC Lathe Development Project
- 2009** Construction begins at the Taichung City Precision Machinery Technological Park. Capital reaches NT\$66 million
- 2011** Taichung Precision Machinery Park plant completed .Capital reaches NT\$120 million.
- 2012** Established multi-task CNC Lathes with C axis and Y axis assembly line.
- 2014** Established multi-task CNC Lathes with C axis, Y axis and sub spindle assembly line.

Modern production workshops



Machine showroom



Constant-temperature precision assembly room



Strict quality assurance policy



Pitch error compensation before shipment



Compensation for thermal deformation

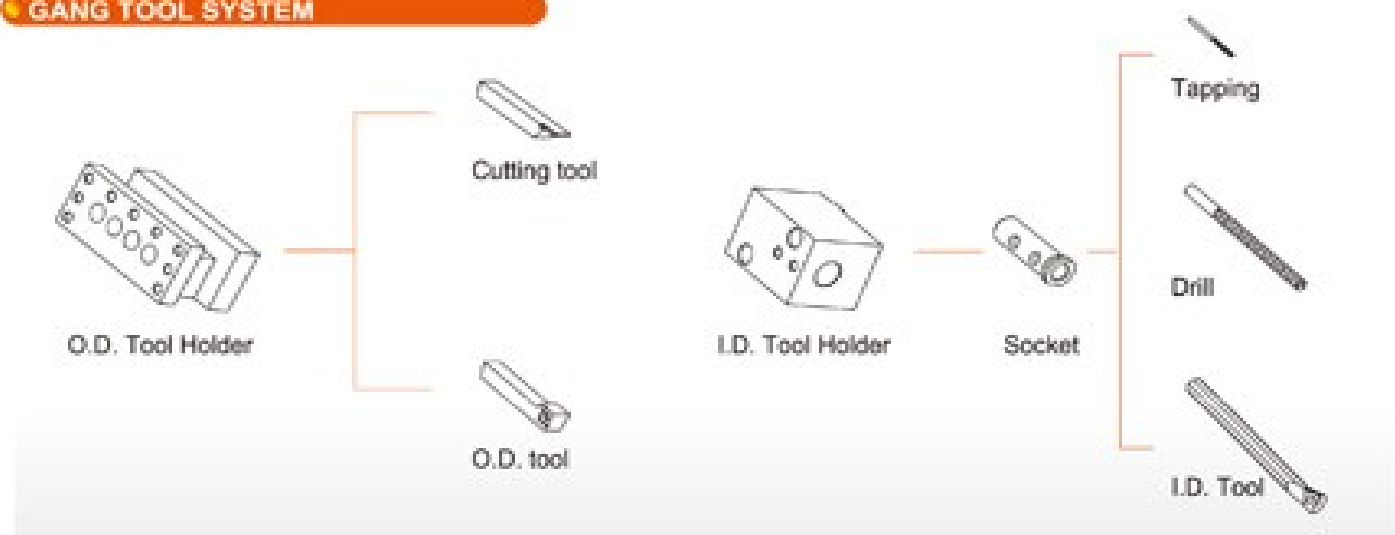


High precision scraping technique and strict internal inspection



A wide range of customization solutions

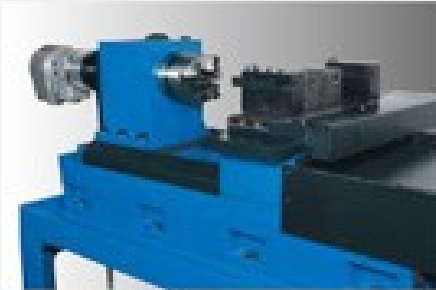
GANG TOOL SYSTEM



MODEL	SDC-32EB (GANG TYPE)
Controller	SYNTEC EMBED2 900
Max. Turning Dia.	Ø400 mm
Max. Turning Length	170 mm
Swing Over Cross Slide	Ø70 mm
Max. Swing Dia.	Ø420 mm
Between Center	----
X axis travel	225 mm
Z axis travel	170 mm
Chuck	32A collet
Spindle Nose	----
Spindle Bearing	Ø55 mm
Hole Through Spindle	Ø42 mm
Bar Capacity	Ø32 mm
Spindle Speed	3000 rpm
Spindle Motor	3 HP / 2.25 KW
Ballscrew(C3)	Ø25 x 5P
X,Z axis Servo Motor	0.75 KW
Max. X,Z. Traverse	10 m/min
Hydraulic Turret / Servo Turret	----
Hydraulic Tailstock	----
Cutting Tools	16 mm
Max. Boring Tool Size	Ø20 mm
Hydraulic Motor	----
Coolant Motor	1/8 HP
Tank Capacity	90L
1HP Powerful Type Tank Capacity	----
Total Power	5.125 HP
Machine Weight	860 kgs

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SDC-32LB



(5" 3 Jaw Hydraulic Chuck+Gang)



SDC-32T



(8 Station Hydraulic Turret+Gang)



SDC-32L



(A2-4 Collet Chuck+Gang)



CARTRIDGE TYPE SPINDLE

This cartridge type spindle is conveniently removed, providing maximum convenience of service. The spindle is manufactured from Chrome Molybdenum alloy steel, hardened and precision ground. It employs high precision angular contact ball bearing giving high axial thrust capability and superior radial stability, making it ideal for high precision turning operations.



PC BASED CONTROLLER

The user friendly PC based controller provides human machine interfacing for maximum operation convenience. Easy to learn and operate.



MODEL	SDC-32LB(Gang)	SDC-32T(Turret)
Controller	SYNTEC 10.4" (PIO5)	
Max. Turning Dia.	Ø240 mm	
Max. Turning Length	200 mm	190 mm
Swing Over Cross Slide	Ø113 mm	
Max. Swing Dia.	Ø450 mm	
Between Center	----	----
X axis travel	200 mm	120 mm + 20
Z axis travel	250 mm	190 mm
Chuck	5" 3 jaw chuck/collet	
Spindle Nose	A2-4	
Spindle Bearing	Ø65 mm	
Hole Through Spindle	Ø42 mm	
Bar Capacity	Ø32 mm	
Spindle Speed	50~4500 rpm	
Spindle Motor	5 HP / 3.7 KW	
Ballscrew(C3)	Ø32 x 10P	
X,Z axis Servo Motor	0.5 KW	1 KW
Max. X,Z. Traverse	20 m/mm	
Hydraulic Turret / Servo Turret	----	LS-120x8T
Hydraulic Tailstock	----	
Cutting Tools	20 mm	
Max. Boring Tool Size	Ø25 mm	
Hydraulic Motor	1 HP	
Coolant Motor	1/4 HP	
Tank Capacity	MAX. 99L	
1HP Powerful Type Tank Capacity	STD. 77L	
Total Power	11 HP	
Machine Weight	1350 kgs	1450 kgs

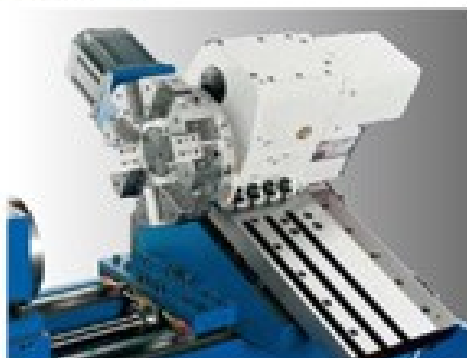
*All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.

- Powerful 5 HP high torque spindle motor.
- Turret indexing is fast accomplished in only 0.35 seconds for the adjacent tool selection, and in 1.2 seconds for the farthest tool selection.
- 25 degree slant saddle.
- Precision ball screws on X,Z-axis.
- Bed-ways are fitted with linear motion guide.
- High quality casting irons on bed, saddle.
- 8 - station turret is optional. It features bi-directional tool selection and fast indexing.
- Chuck is conveniently controlled by a foot switch.
- Each lathe comes standard with a 3-jaw hydraulic hollow chuck or collet chuck for choice.



SDC-32AB

Gang Type



SDC-32AT

GangType + 8 StationHydraulic Turret

■ 3-JAW HYDRAULIC HOLLOW CHUCK

Each CNC lathe is standard equipped with a 3-jaw hydraulic hollow chuck. It gives extremely secure chucking force.

■ HYDRAULIC POWER SYSTEM

The powerful hydraulic power system delivers high pressure to turret, 3-jaw chuck. A safety device is built in the hydraulic system to avoid chuck opening in the event of power failure. Hydraulic oil cooled to maintain a constant temperature.

■ HIGH PRECISION FEED

The X, Z-axis are driven by AC servo motor, which is directly connected to the precision ball screw for high accuracy feed.

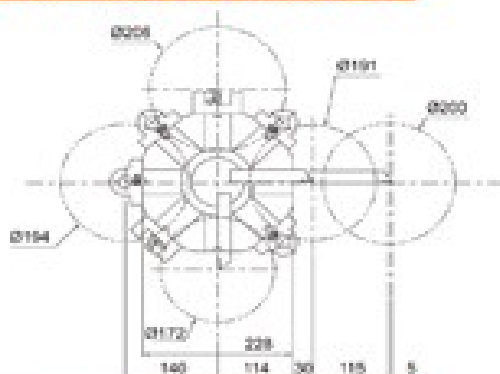
■ SLANT SADDLE

The slant saddle design not only enhances maximum stability while in performing heavy duty cutting, but also provides convenient chips disposal.

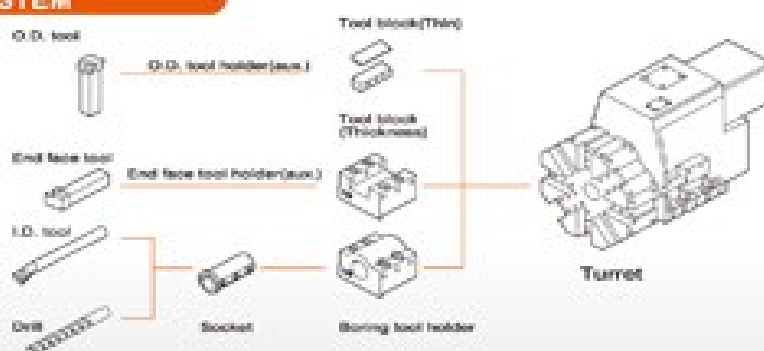
■ HIGH PRECISION SPINDLE

The spindle is precision manufactured from Nickel Chrome Molybdenum alloy steel, hardened and precision ground. It runs on high precision P4 class angular contact ball bearings, giving maximum rigidity, high precision and minimum heat generation.

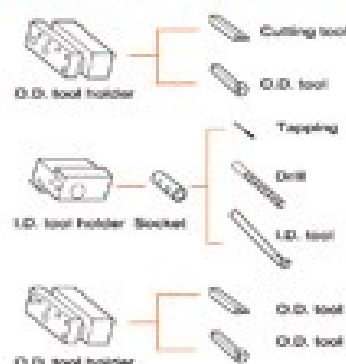
TOOLING INTERFERENCE DIAGRAM



TURRET TOOLING SYSTEM



GANG TOOLING SYSTEM



MODEL	SDC-32AB	SDC-32AT
Controller	SYNTEC 10.4" (PIO5)	
Max. Turning Dia.	Ø230 mm	
Max. Turning Length	190 mm	135 mm
Swing Over Cross Slide	Ø110 mm	
Max. Swing Dia. Between Center	Ø325 mm	
X axis travel	300 mm	115 mm
Z axis travel	200 mm	135 mm
Chuck	5" 3 jaw chuck/collet	
Spindle Nose	A2-4	
Spindle Bearing	Ø65 mm	
Hole Through Spindle	Ø42 mm	
Bar Capacity	Ø32 mm	
Spindle Speed	50~4500 rpm	
Spindle Motor	5 HP / 3.7 KW	
Ball screw(C3)	Ø32 x 5P	
X,Z axis Servo Motor	0.5 KW	1 KW
Max. X,Z. Traverse	10 m/mm	
Hydraulic Turret / Servo Turret	----	LS-120x8T
Hydraulic Tailstock	----	
Cutting Tools	20 mm	
Max. Boring Tool Size	Ø25 mm	
Hydraulic Motor	1 HP	
Coolant Motor	1/4 HP	
Tank Capacity	110 L	
1HP Powerful Type Tank Capacity	----	
Total Power	11 HP	
Machine Weight	1670 kgs	1770 kgs

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- Powerful 7.5 HP high torque spindle motor.
- Turret indexing is fast accomplished in only 0.35 seconds for the adjacent tool selection, and in 1.2 seconds for the farthest tool selection.
- 25 degrees slant saddle.
- Precision ball screws on X,Z-axis.
- Bed-ways are fitted with linear motion guide.
- High quality casting irons on bed, saddle.
- 8-station turret is standard. It features bi-directional tool selection and fast indexing.
- Chuck is conveniently controlled by a foot switch.
- Each lathe comes standard with a 3-jaw hydraulic hollow chuck or collet chuck for choice.



SDC-45E 8-STATION HYDRAULIC TURRET+TAILSTOCK

It especially applies for long bar or shaft machining, not only increase the efficiency but also enlarge the function.



■ 3-JAW HYDRAULIC HOLLOW CHUCK

Each CNC lathe is standard equipped with a 3-jaw hydraulic hollow chuck. It gives extremely secure chucking force.

■ HYDRAULIC POWER SYSTEM

The powerful hydraulic power system delivers high pressure to turret, tailstock and 3-jaw chuck. A safety device is built in the hydraulic system to avoid chuck opening in the event of power failure. Hydraulic oil cooled to maintain a constant temperature.

■ HIGH PRECISION FEED

The X, Z-axis are driven by AC servo motor, which is directly connected to the precision ball screw for high accuracy feed.

■ SLANT SADDLE

The slant saddle design not only enhances maximum stability while in performing heavy duty cutting, but also provides convenient chips disposal.

■ HIGH PRECISION SPINDLE

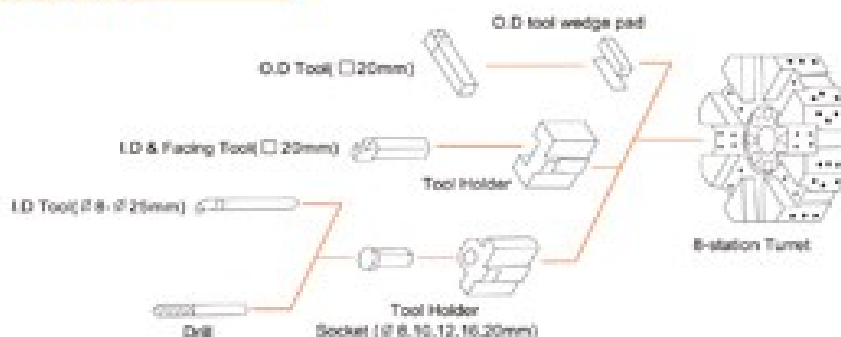
The spindle is precision manufactured from Nickel Chrome Molybdenum alloy steel, hardened and precision ground. It runs on high precision P4 class angular contact ball bearings, giving maximum rigidity/high precision and minimum heat generation.



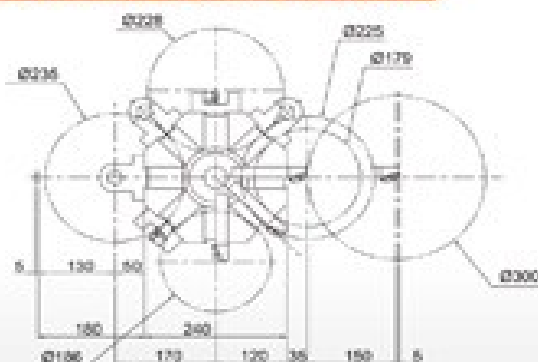
SDC-45T 8-STATION HYDRAULIC TURRET

When requested, a 8-station turret is available which allowing for mounting I.D and O.D tool for turning intricate parts. Tool holders are conveniently and fast changed. The turret features the shortest route random tool selection, and bi-directional tool indexing.

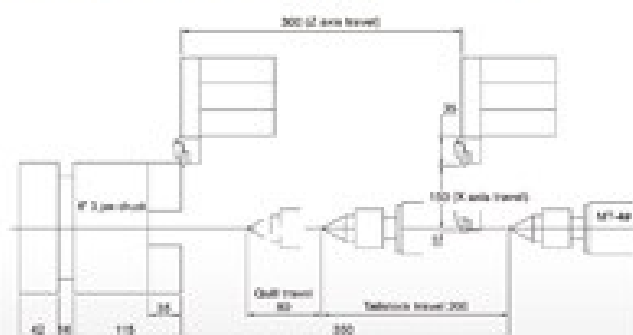
TURRET TOOLING SYSTEM



TOOLING INTERFERENCE DIAGRAM



TOOLING TRAVEL RANGE



MODEL	SDC-45T	SDC-45E
Controller	SYNTEC 10.4" (PIO5)	
Max. Turning Dia.	Ø290 mm	
Max. Turning Length	300 mm	
Swing Over Cross Slide	Ø175 mm	
Max. Swing Dia.	Ø375 mm	
Between Center	300 mm	
X axis travel	145±5 mm	145±5 mm
Z axis travel	300 mm	
Chuck	6" 3 jaw chuck/collet	
Spindle Nose	A2-5	
Spindle Bearing	Ø80 mm	
Hole Through Spindle	Ø56 mm	
Bar Capacity	Ø45 mm	
Spindle Speed	50~4500 rpm	
Spindle Motor	7.5 HP / 5.5 KW	
Ball screw(C3)	(X)Ø32x5P / (Z)Ø32x10P	
X,Z axis Servo Motor	1 KW	
Max. X,Z. Traverse	20 m/mm	
Hydraulic Turret / Servo Turret	LS-160x8T	
Hydraulic Tailstock	----	260 mm
Cutting Tools	20 mm	
Max. Boring Tool Size	Ø25 mm	
Hydraulic Motor	1 HP	
Coolant Motor	1/4 HP	
Tank Capacity	112 L	
1HP Powerful Type Tank Capacity	128 L	
Total Power	12 HP	
Machine Weight	2300 kgs	2500 kgs

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Special Design: Twin Spindle, Twin Turret

- Combine two lathes into one machine with use of two independent controllers.
- Machine can function separately with single system or function simultaneously with twin systems.

Decrease the cost

- Operation procedure is as same as normal lathes.
- Save space, material transporting time, and operators.
- Best suitable for two-sided turning work-piece.
- To use of automatic gantry loader is best solution to reach automation and to reduce operators.



AUTOMATIC FEEDING SYSTEM

Customized design for customer needs.

Manipulator controller

Human-computer interface

Manipulator feed

X: 90m/min ; Y: 60m/min ; Z: 60m/min

Manipulator travel

X: 10000 mm ; Y: 150 mm ; Z: 1000 mm

Manipulator collet chuck.

3 Jaw air pressure chuck

Material feed machine tray

16 sets

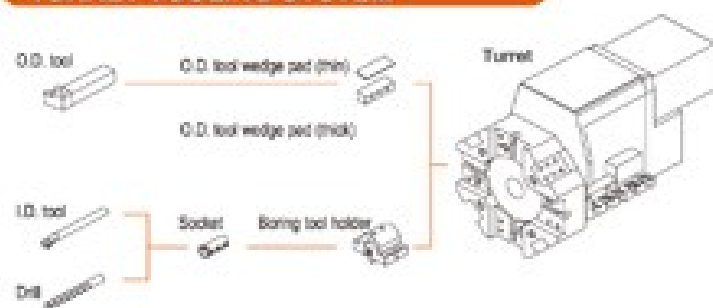
Size of material feed machine

ø20~ ø150mm

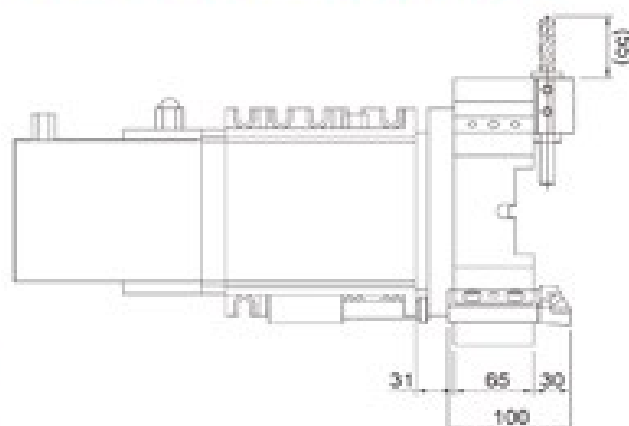
Store high of material feed machine

L 350 mm

TURRET TOOLING SYSTEM



TOOLING INTERFERENCE DIAGRAM



MODEL	SDC-45H
Controller	SYNTEC 900
Max. turning diameter	220 mm
Swing over cross slide	330 mm
X axis travel	115+5 mm
Z axis travel	135 x 2 mm
Chuck	6" 3 jaw Hydraulic Chuck
Spindle nose	A2-5
Hole through spindle	Ø45 mm
Max. bar feeding diameter	Ø42 mm
Spindle motor	Inverter motor (stepless) 7.5HP/5.5KW
Spindle speeds	100~4500 RPM
Turret type	8 Position Hydraulic turret
Ballscrew	Ø32 x 10P
Servo motor (X,Z axis)	1 KW
Rapid traverse (X,Z axis)	20 M/mm
Cutting tool size	□20
Max. boring tool size	Ø25
Hydraulic motor	1 HP
Coolant pump & motor	1/4 HP
Tank capacity	108 Litre
Machine dimension	330 x 190 x 200 cm (LxWxH)
Machine weight	4000 kgs

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- Powerful 7.5 HP high torque spindle motor.
- Turret indexing is fast accomplished in only 0.35 seconds for the adjacent tool selection, and in 1.2 seconds for the farthest tool selection.
- 25 degrees slant saddle.
- Precision ball screws on X,Z-axis.
- Bed-ways are fitted with linear motion guide.
- High quality casting irons on bed, saddle.
- 8-station turret is standard. It features bi-directional tool selection and fast indexing.
- Chuck is conveniently controlled by a foot switch.
- Each lathe comes standard with a 3-jaw hydraulic hollow chuck or collet chuck for choice.



■ 3-JAW HYDRAULIC HOLLOW CHUCK

Each CNC lathe is standard equipped with a 3-jaw hydraulic hollow chuck. It gives extremely secure chucking force.

■ HYDRAULIC POWER SYSTEM

The powerful hydraulic power system delivers high pressure to turret, tailstock and 3-jaw chuck. A safety device is built in the hydraulic system to avoid chuck opening in the event of power failure. Hydraulic oil cooled to maintain a constant temperature.

■ HIGH PRECISION FEED

The X, Z-axis are driven by AC servo motor, which is directly connected to the precision ball screw for high accuracy feed.

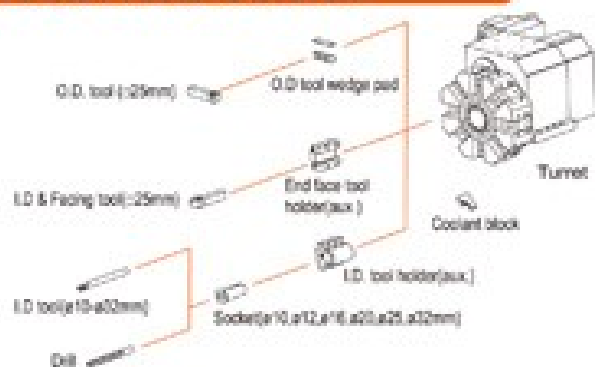
■ SLANT SADDLE

The slant saddle design not only enhances maximum stability while in performing heavy duty cutting, but also provides convenient chips disposal.

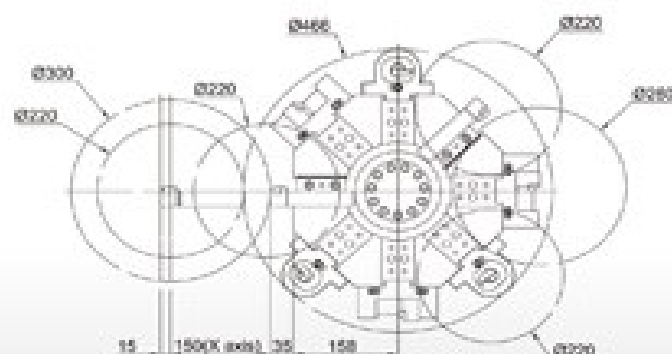
■ HIGH PRECISION SPINDLE

The spindle is precision manufactured from Nickel Chrome Molybdenum alloy steel, hardened and precision ground. It runs on high precision P4 class angular contact ball bearings, giving maximum rigidity, high precision and minimum heat generation.

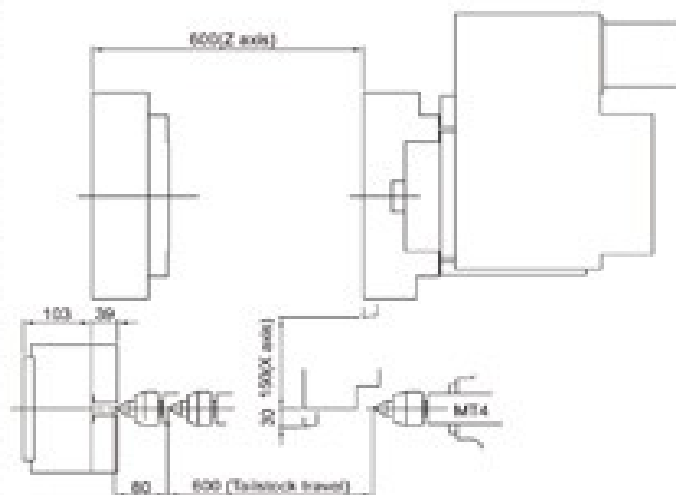
TURRET TOOLING SYSTEM



TOOLING INTERFERENCE DIAGRAM



TURRET TRAVEL RANGE



MODEL	SDC-52C
Controller	SYNTEC 10.4" (PIO5)
Max. Turning Dia.	Ø300 mm
Max. Turning Length	600 mm
Swing Over Cross Slide	Ø220 mm
Max. Swing Dia.	Ø520 mm
Between Center	600 mm
X axis travel	150+15 mm
Z axis travel	500 mm
Chuck	8" 3 jaw chuck
Spindle Nose	A2-6
Spindle Bearing	Ø100 mm
Hole Through Spindle	Ø67 mm
Bar Capacity	Ø52 mm
Spindle Speed	4000 rpm
Spindle Motor	15HP / 11KW
Ball screw(C3)	(X)Ø32x10P / (Z)Ø40x10P
X,Z axis Servo Motor	2 KW
Max. X,Z. Traverse	20 m/mm
Hydraulic Turret / Servo Turret	LS-200x8T
Hydraulic Tailstock	
Cutting Tools	25 mm
Max. Boring Tool Size	Ø40 mm
Hydraulic Motor	2 HP
Coolant Motor	1 HP
Tank Capacity	108 L
1HP Powerful Type Tank Capacity	183 L
Total Power	24 HP
Machine Weight	4000 kgs

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The machine is with 10 station hydraulic turret. The index time is 0.3 sec. and with high repeatability accuracy.



The spindle is 100mm big diameter high accuracy angular and NN type bearings. Which are suitable for precision cutting with high speed and heavy cutting with low speed.

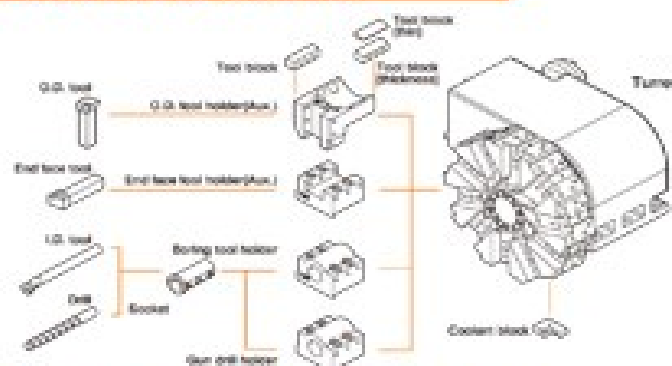


Manual type programmable tailstock. Easy operation. Handle tractor with interlock device for fixing seat. Easy positioning and movement.

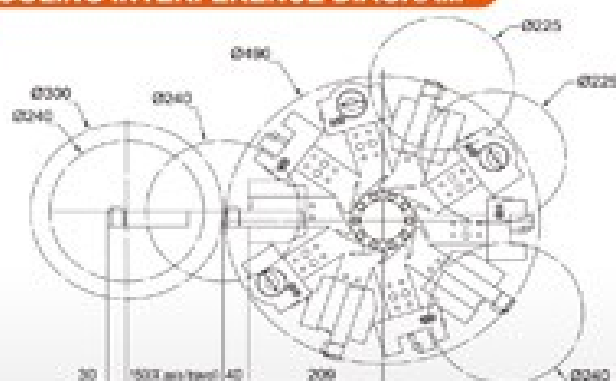
- Wide range high torque spindle motor.
- 45-degree slant bed design.
- Tailstock with manual type programmable.
- Front-set and movable coolant tank + chip conveyor.
- One-piece bed and base structure.
- Box way structure especially for heavy duty turning.



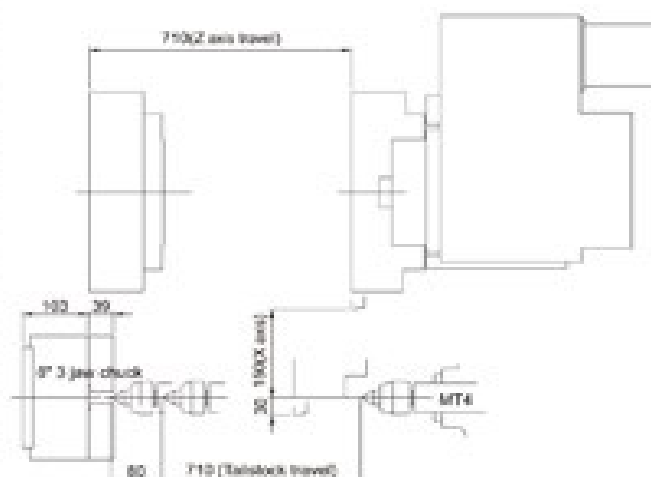
TURRET TOOLING SYSTEM



TOOLING INTERFERENCE DIAGRAM



TURRET TRAVEL RANGE



MODEL	SDC-52E
Controller	SYNTEC 10.4" (PIO5)
Max. Turning Dia.	Ø300 mm
Max. Turning Length	680 mm
Swing Over Cross Slide	Ø330 mm
Max. Swing Dia.	Ø525 mm
Between Center	710 mm
X axis travel	150 mm + 30 mm
Z axis travel	680 mm
Chuck	8" 3 jaw chuck
Spindle Nose	A2-6
Spindle Bearing	Ø100 mm
Hole Through Spindle	Ø67 mm
Bar Capacity	Ø52 mm
Spindle Speed	4000 rpm
Spindle Motor	15HP / 11KW
Ballscrew(C3)	(X)Ø32x10P / (Z)Ø40x10P
X,Z axis Servo Motor	2 KW
Max. X,Z. Traverse	20 m/mm
Hydraulic Turret / Servo Turret	LS-200x10T
Hydraulic Tailstock	710 mm
Cutting Tools	25 mm
Max. Boring Tool Size	Ø40 mm
Hydraulic Motor	2 HP
Coolant Motor	1 HP
Tank Capacity	183.7 L
1HP Powerful Type Tank Capacity	183 L
Total Power	24 HP
Machine Weight	4850 kgs

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The machine is with 10 station hydraulic turret. The index time is 0.3sec and with high repeatability accuracy and The spindle is 130mm big diameter high accuracy angular and NN type bearings. Which are suitable for precision cutting with high speed and heavy cutting with low speed.

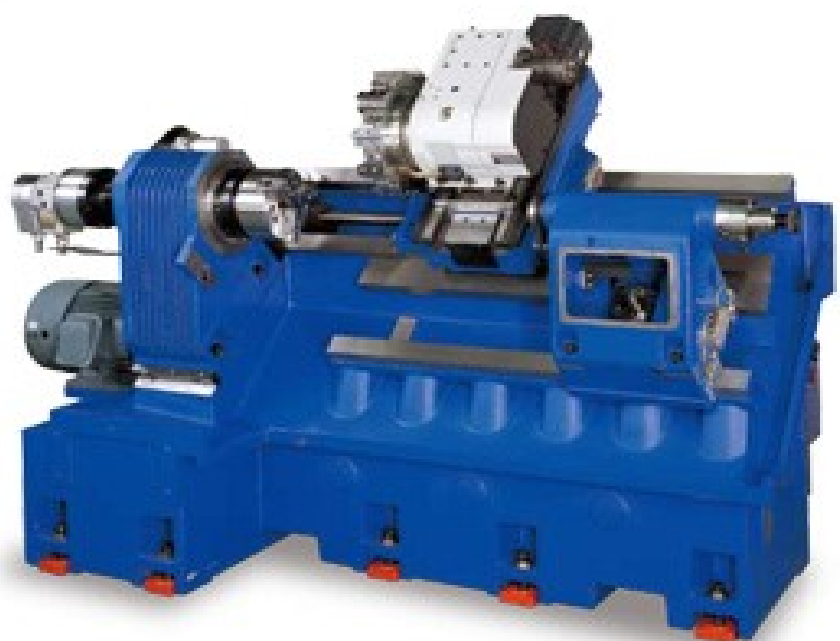


Manual type programmable tailstock. Easy operation. Handle tractor with interlock device for fixing seat. Easy positioning and movement.

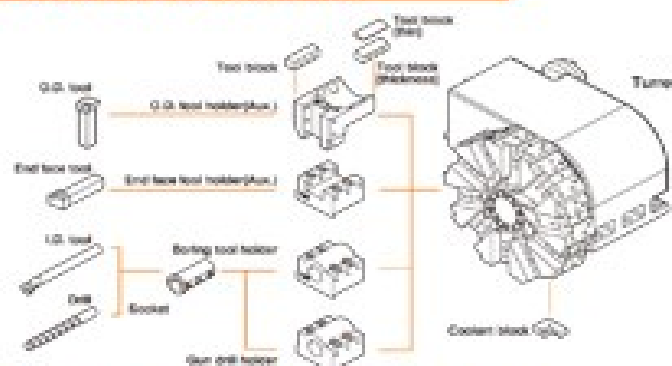


Manual type programmable tailstock. Easy operation. Handle tractor with interlock device for fixing seat. Easy positioning and movement.

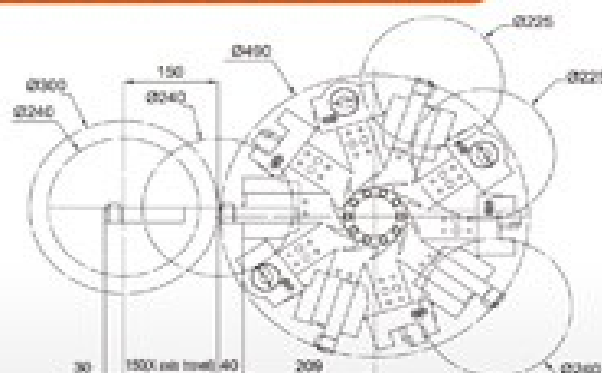
- High analytically and high reliability servo spindle motor.
- 45-degree slant bed design.
- Tailstock with manual type programmable.
- Front-set and movable coolant tank + chip conveyor.
- One-piece bed and base structure.
- Box way structure especially for heavy duty turning.



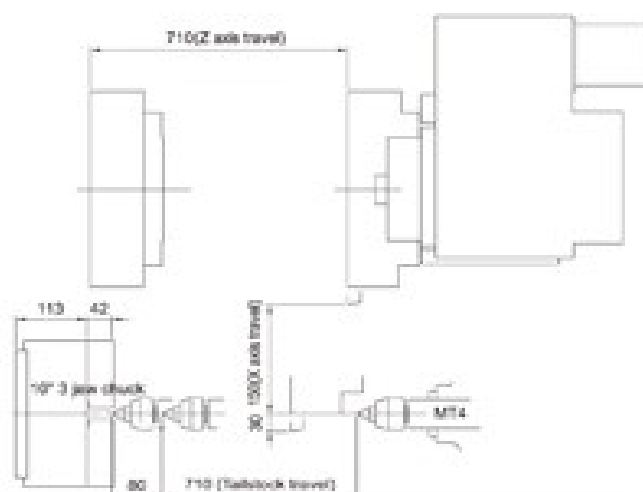
TURRET TOOLING SYSTEM



TOOLING INTERFERENCE DIAGRAM



TURRET TRAVEL RANGE



MODEL	SDC-75S
Controller	SYNTEC 10.4" (PIO5)
Max. Turning Dia.	Ø300 mm
Max. Turning Length	680 mm
Swing Over Cross Slide	Ø330 mm
Max. Swing Dia.	Ø525 mm
Between Center	710 mm
X axis travel	150 mm + 30 mm
Z axis travel	680 mm
Chuck	10" 3 jaw chuck
Spindle Nose	A2-8
Spindle Bearing	Ø130 mm
Hole Through Spindle	Ø90 mm
Bar Capacity	Ø75 mm
Spindle Speed	4000 rpm
Spindle Motor	20HP / 15KW
Ballscrew(C3)	(X)Ø32x10P / (Z)Ø40x10P
X,Z axis Servo Motor	2 KW
Max. X,Z. Traverse	20 m/mm
Hydraulic Turret / Servo Turret	LS-200x10T
Hydraulic Tailstock	710 mm
Cutting Tools	25 mm
Max. Boring Tool Size	Ø40 mm
Hydraulic Motor	2 HP
Coolant Motor	1 HP
Tank Capacity	183.7 L
1HP Powerful Type Tank Capacity	183 L
Total Power	29 HP
Machine Weight	5000 kgs

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30° slant bed design provides an excellent chip removal and collection, good stability and Vibration absorbing capability



Box way design with thicker ribs allow no transformation. One piece slant bed structure provides steady base, low center, and high rigidity



Special design head-stock can provide excellent heat scattering. Enlarger bar capacity. ø76mm for 10" chuck

30° slant bed design provides modular assembly choices such as C axis , Y axis and sub spindle.



Italy-made power turrets with live tools provide users complex machining capacity



Optional C axis and Y axis functions
C axis with high resolution ring type optical scale and brake system

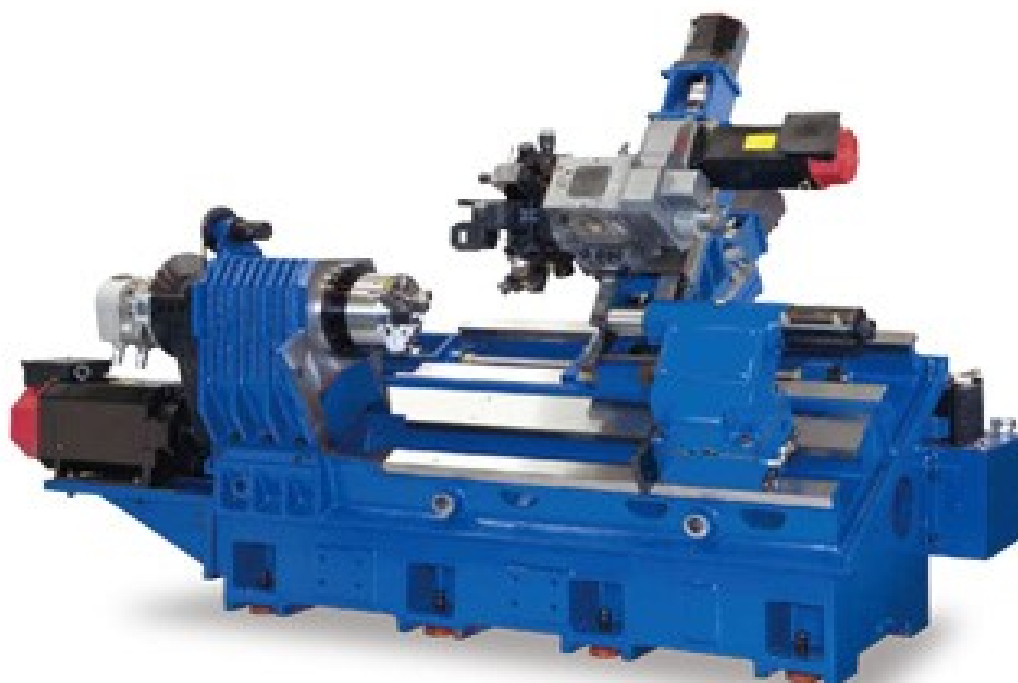


MODEL			SDC-76	SDC-76MC
Capacity	Swing over bed	mm	Ø600	Ø600
	Swing over saddle	mm	Ø400	Ø400
	Max. turning diameter	mm	Ø410	Ø310
	Drawtube capacity	mm	Ø76	Ø76
	Max. turning length	mm	750(opt.500/1000)	780(opt.530/1030)
Travel	X axis travel	mm	230(205+25)	230(220+10)
	Z axis travel	mm	800(opt.550/1050)	830(opt.580/1080)
Spindle	Spindle speed	rpm	30-3500	30-3500
	Spindle nose	ASA	A2-8	A2-8
	Spindle chuck system	inch	10"(opt.12")	10"(opt.12")
	Spindle hole diameter	mm	Ø92	Ø92
	Spindle HP	KW	15 / 18.5	15 / 18.5
Turret	Turret type	Type	Servo / Hydraulic	Power turret
	number of tools	no.	12(opt.10)	12(opt.10)
	Turning shank size	mm	25 x 25	VD140
	Max turning bar diameter	mm	Ø40(opt.Ø50)	Ø40
	Power turret		N/A	Baruffaldi TBMA-200
	Power turret motor	KW	N/A	3.7 / 5.5
	Live tools speed	rpm	N/A	5000
Tailstock	Tailstock travel	mm	830(opt.580/1080)	830(opt.580/1080)
	Quill travel	mm	100	100
	Quill taper	MT	5	5
	Quill diameter	mm	Ø85	Ø85
Rapid Feedrate	X axis travel	m/min	20	20
	Z axis travel	m/min	24	24
	X axis feedrate	mm	0-10000	0-10000
	Z axis feedrate	mm	0-10000	0-10000
Tank Capacity	Hydraulic	L	90	90
	Hydraulic motor	HP	3	3
Machine Power	Power requirement	KVA	30	35
Machine Dimension	Weight	KG	5500(opt.5000/5900)	5800(opt.5100/6000)
	Length	mm	3000(opt.2750/3550)	3000(opt.2750/3550)
	Height	mm	1860	1860
	Width	mm	1910	1910
Z/x Guide Way		Type	Box way	Box way

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SDC-76MY equipped with Cs and Y axis functions to provide various machining abilities. Turning, milling, drilling, tapping and side milling, all can be done in one operation with SDC-76MY.

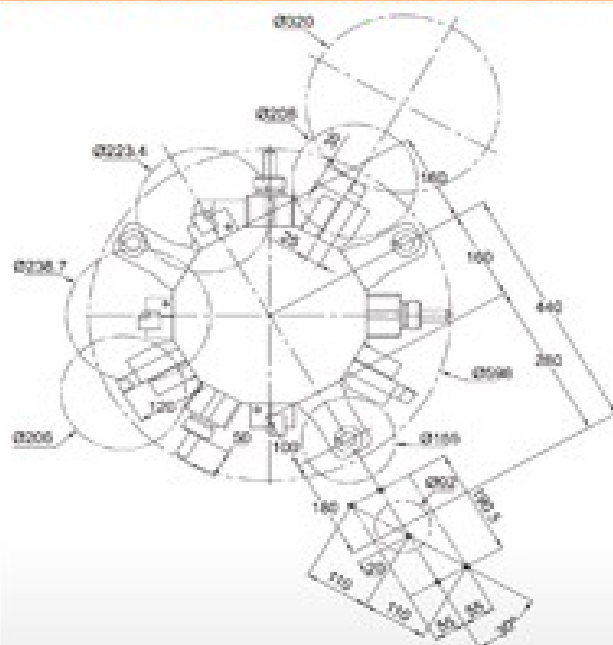


Italy-made power turret with live tools and Y axis functions provide users complex machining capacity

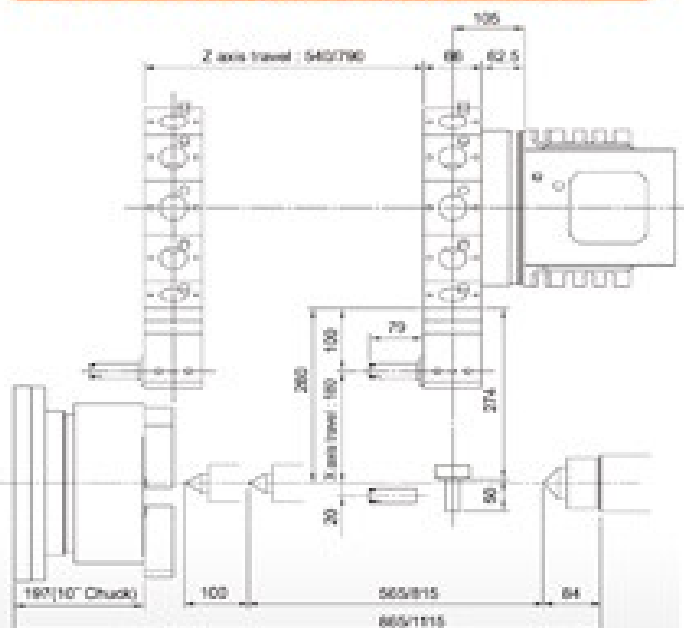


C axis with high resolution ring type optical scale and brake system

TOOLING INTERFERENCE (12 STATIONS) DIAGRAM



TRAVEL RANGE (12 STATIONS) DIAGRAM



MODEL		SDC-76MY
Specification		Box way
Controller		30° Slant bed
Swing over bed	mm	Fanuc
Swing over saddle	mm	Ø600
Max. turning dia.	mm	Ø300
Max. turning length	mm	Ø310
Spindle nose	ASA	780(530/1030)
Spindle chuck	in	A2-8
Spindle hole	mm	10"(12"opt)
Spindle speed	rpm	Ø92
Spindle HP	KW	3500
Spindle bar capacity	mm	15 / 18.5
Turret type	Type	Ø76
Number of tools	no.	Power turret
Turning shank size	mm	12(opt.10)
Max turning bar daimeter	mm	VD140
Power turret		Ø40
Power turret motor	KW	Baruffaldi TBMR-200
Live tools speed	rpm	3.7 / 5.5
Z axis travel	mm	4000
X axis travel	mm	830(580/1080)
Y axis travel	mm	230(220+10)
Z axis rapid speed	m/min	±50
X axis rapid speed	m/min	24
Y axis rapid speed	m/min	20
Turning tool size	mm	10
Boring tool size	mm	VD140(MT)
Tailstock travel	mm	Ø40 (Ø350 optional)
Quill travel	mm	1080
Quill diameter	mm	100
Quill taper	MT	Ø85
Quill driven mode		5
Tailstock driven mode		Hydraulic / Programming
Dimension	L x W x H	Saddle driven
		3270 x 1930 x 2180

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SDC-76SY equipped with sub spindle to provide even more complex machining capacity. Turning, milling, drilling, tapping and side milling can be done with this machine. The sub spindle allows those machining operation to be done in both sides.

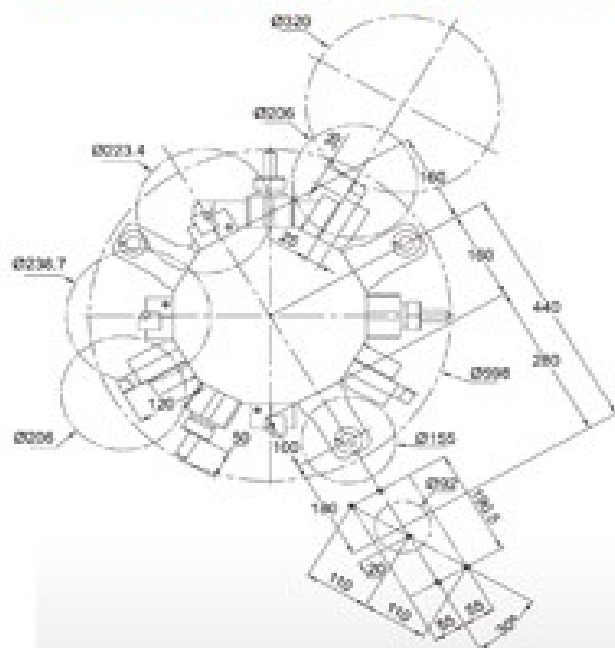


Italy-made power turret with live tools and Y axis functions provide users complex machining capacity, as well as back machining with sub spindle.

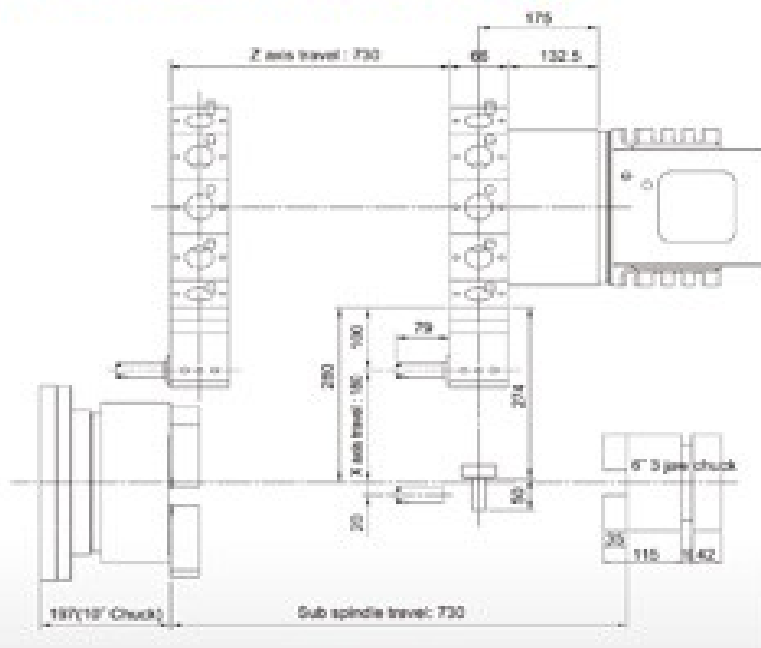


Sub spindle allow back machining in one machine possible to prevent accuracy lose from second operation.

TOOLING INTERFERENCE (12 STATIONS) DIAGRAM



TRAVEL RANGE (12 STATIONS) DIAGRAM



MODEL			SDC-76SY
Specification			Box way
Controller			Fanuc
Swing over bed	mm		Ø600
Swing over saddle	mm		Ø360
Max. turning dia.	mm		Ø310
Max. turning length	mm		N/A
Spindle/sub spindle nose	ASA		A2-8 / A2-5
Spindle/sub spindle chuck	in		10"(12"opt) / 8"
Spindle/sub spindle hole	mm		Ø92 / Ø56
Spindle/sub spindle speed	rpm		3500 / 4500
Spindle/sub spindle HP	KW		(15/18.5) / (5.5/7.5)
Spindle/sub bar capacity	mm		Ø76/Ø45
Turret type	Type		Power turret
Number of tools	no.		12(opt.10)
Turning shank size	mm		VDI40
Max turning bar diameter	mm		Ø40
Power turret			Baruffaldi TBMR-200
Power turret motor	KW		3.7 / 5.5
Live tools speed	rpm		4000
Z axis travel	mm		730
ZB axis travel	mm		730
X axis travel	mm		195(175+20)
Y axis travel	mm		±50
Z axis rapid speed	m/min		24
X axis rapid speed	m/min		20
Y axis rapid speed	m/min		10
Tools number	units		12(10)
Turning tool size	mm		VDI40(MT)
Boring tool size	mm		Ø40 (Ø50 optional)
Tailstock driven mode			ZB axis
Dimension	L x W x H	mm	3350 x 1955 x 2385

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APPLICATION EXAMPLE

Well suited for mass production cutting parts of clock, watch, camera, sewing machine, motorcycle, bicycle, automobile, electronics, instrument...etc.



FREQUENCY INVERTED MOTOR(OPTIONAL)

It provides variable speed change for spindle, making the machine suitable for cutting various workpiece materials.



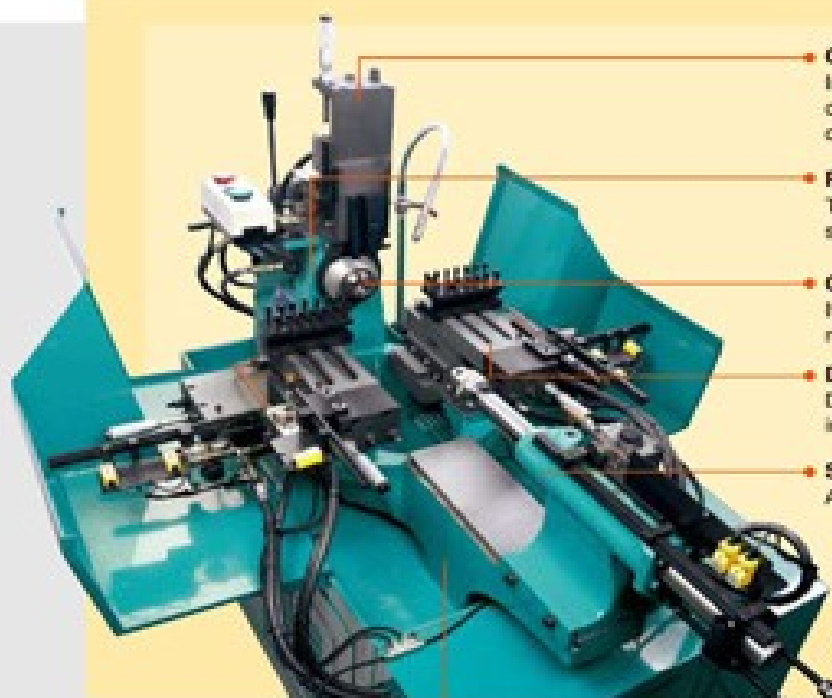
PLC CONTROL

Equipped with a common control panel for centralized motions control.

5HP magnetic clutch combined with 3HP motor drive assure faster braking.

HIGH PERFORMANCE HYDRAULIC SYSTEM

The hydraulic system provides extremely stable and smooth motions. Also, featuring low noise and long service life.



OVER CUTTER

In addition to perform cut-off purpose the over cutter also can be applied for cutting multiple necks and turning outside diameter.

RIGID HEADSTOCK

The headstock employs oil bath automatically circulated lubrication system. It features maximum stability when performing heavy cutting.

COLLET CHUCK

It provides fast workpiece chucking and releasing without stopping motor. Various types of collect chucks are available to choose from.

DOUBLE HYDRAULIC TOOL SLIDES

Designed for providing multi-function turning and greatly increasing efficiency.

SINGLE HYDRAULIC TAILSTOCK

Allows for drilling and accommodates center.

HOLLOW BED (OPTIONAL)

Specially designed for efficient chip exhaust without depositing on the bed.

STANDARD BED

The bed is manufactured from high quality cast iron. The wide bed is ruggedly constructed for maximum rigidity.

DOUBLE HYDRAULIC TAILSTOCKS (OPTIONAL)

Allows for drilling and tapping accomplished at a time.





SDH-32SSTC

- Double hydraulic tool slides.
- Front and rear tool slides are hydraulically operated.
- Single hydraulic tailstock.
- Hydraulic over cutter.
- PLC control.



SDH-32SS

- Double hydraulic tool slides.
- Front and rear tool slides are hydraulically operated.
- PLC control.



SDH-32S

- Single hydraulic tool slide.
- Front tool slide is hydraulically operated.
- Rear tool slide is manually operated.
- PLC control.

MODEL		SDH-32SSTC	SDH-45SSTC	SDH-52SSTC
Maximum chucking capacity	Bar stock ●	ø32 mm	ø45 mm	ø50 mm
	Square ■	22 mm	32 mm	37 mm
	Hexagonal ●	27 mm	38 mm	45 mm
Spindle speeds (4 speeds)		636/1020/1575/2656 rpm	557/894/1379/2364 rpm	557/894/1379/2364 rpm
Tool holder slides	Maximum main slide travel	100 mm	100 mm	100 mm
	Maximum front cross slide travel	100 mm	100 mm	100 mm
	Front cross slide swivels	360°	360°	360°
	Maximum rear cross slide travel	100 mm	100 mm	100 mm
Tailstock	Tailstock spindle dia.	ø38 mm	ø38 mm	ø38 mm
	Tailstock spindle taper	MT.3	MT.3	MT.3
	Tailstock spindle travel	150 mm	150 mm	150 mm
Height from bed to center		168 mm	168 mm	168 mm
Distance between centers		270 mm	270 mm	270 mm
Motor		3 HP	3 HP	3 HP
Machine dimensions (L x W x H)		145 x 120 x 165 cm	145 x 120 x 165 cm	145 x 120 x 165 cm
Net weight		650 kgs	700 kgs	700 kgs

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SD-15



SD-25 A/B



SD-32 D

FEATURES AND OPTIONAL ACCESSORIES

OVER CUTTER V1 (SPECIAL ACCESSORY)

- Sliding lateral movement
- In addition to perform cut-off pur-pose, it also available for cutting multiple necks, turning outside diameter.
- Down stroke 55mm.
- Lateral stroke 45mm.



OVER CUTTER V2 (SPECIAL ACCESSORY)

- Fixed movement
- Perform cut-off and cutting single neck.
- Down stroke 55mm.



AUTO BAR FEEDER (SPECIAL ACCESSORY)

- Provides automatically feed bar stocks into collet, that eliminates hand loading of workpieces.
- Feeder length 3000mm.
- Diameter varied with collet chucking capacity of each model.



COLLETS (SPECIAL ACCESSORY)

- Picture shown are typical collets, special collets are available upon request.



HAND LEVER COLLET CLOSER

Designed to takes various collets, the collet closer provides faster chucking without stopping the lathe.

HEADSTOCK

- Built with collet closer for nonstop chucking.
- Available to be mounted with hydraulic power chuck...Pneumatic power chuck...3 jaws scroll chuck...rotating cylinder...Reverse chucking collets clamping from the inner diameter...Over cutter.



DOUBLE CROSS SLIDE (front and rear)

- Front cross slide equipped with 2 tool holders. Rear cross slide equipped with 1 tool holder.
- Front cross slide may be swivelled 360°.
- Tool holder is easily interchanged for various application.



PNEUMATICALLY AUTOMATIC COLLET CHUCKING DEVICE (SPECIAL ACCESSORY)

- Choice of foot or hand switch control.
- Has parts counting function.



APPLICATION EXAMPLE:

Well suited for mass production cutting parts of clock, watch, camera, sewing machine, motorcycle, bicycle, automobile, electronics, instrument.....etc.





SD-32



SD-45



SD-52

MODEL		SD-15	SD-25	SD-32	SD-45	SD-52
Maximum chucking capacity	Bar stock ●	ø15 mm	ø25 mm	ø32 mm	ø45 mm	ø52 mm
	Square ■	10 mm	18 mm	22 mm	32 mm	37 mm
	Hexagonal ●	12 mm	22 mm	27 mm	38 mm	45 mm
Spindle speeds (RPM)		(3 speeds) 1118/1720/2800	(3 speeds) 1050/1720/2800	(4 speeds) 638/1020/1575/2856	(4 speeds) 557/894/1379/2364	(4 speeds) 557/894/1379/2364
Tool holder slides	Maximum main slide travel (Forward and backward)	75 mm	110 mm	110 mm	110 mm	110 mm
	Maximum front cross slide travel	76 mm	75 mm	100 mm	100 mm	100 mm
	Front cross slide swivels	360°	360°	360°	360°	360°
	Maximum rear cross slide travel	60 mm	60 mm	100 mm	100 mm	100 mm
	Lateral adjustment of rear cross slide	35 mm	60 mm	60 mm	60 mm	60 mm
Tailstock	Tailstock spindle dia.	ø20	ø30	ø38	ø38	ø38
	Tailstock spindle taper	MT.NO.1	MT.NO.2	MT.NO.3	MT.NO.3	MT.NO.3
	Tailstock spindle travel	82 mm	100 mm	100 mm	100 mm	100 mm
Base to center high		100 mm	126 mm	168 mm	168 mm	168 mm
Distance between centers		160 mm	270 mm	270 mm	270 mm	270 mm
Motor		1 HP	2 HP	2 HP	2 HP	2 HP
Machine dimensions (L x W x H)		680x380x950	1070x450x1100	1090x480x1100	1090x480x1100	1090x480x1100
Net weight		135	240	360	410	410
Packing dimensions (LxWxH)		1 set / 1 case 2 sets / 1 case 850x550x1170 mm 970x850x1170 mm	1090x600x1320 mm ---	1100x700x1320 mm ---	1100x700x1320 mm ---	1100x700x1320 mm ---

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