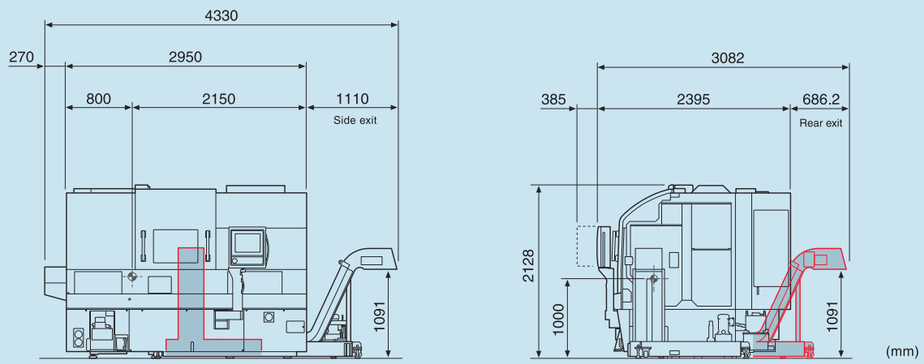
ACUFLEX 400S

Specifications

*Option
★ Long neck turret

Machine specificaions				400S
Left spindle slide	Spindle dia		mm [inch]	ϕ120 [ϕ4.7](*ϕ100 [ϕ3.9])
	Spindle nose			A2-8(*A2-6)
	Spindle bore		mm [inch]	ϕ76 [ϕ2.99](*ϕ 42 [ϕ1.65])
	Spindle speed		min-1	5000(*6000)
	Spindle motor		kw [hp]	15/18.5 [20.1/24.8](Low Speed Motor Winding) 22/25 [29.5/33.5](High Speed Motor Winding)
	Chuck size		inch	12,10 [0.47,0.39]
	Bar work size		mm [inch]	ϕ65 [ϕ2.56](*ϕ30 [ϕ1.18])
	Spindle Min. indexing		degree	0.001
Right spindle slide	Spindle dia		mm [inch]	ϕ100 [ϕ3.9]
	Spindle nose			A2-6
	Spindle bore		mm [inch]	ϕ42 [ϕ1.65]
	Spindle speed		min-1	6000
	Spindle motor		kw [hp]	15/18.5[20.1/24.8]
	Chuck size		inch	10,8 [0.39,0.31]
	Bar work size		mm [inch]	ϕ30 [ϕ1.18]
	Spindle Min. indexing		degree	0.001
Tail stock	Center built-in type			MT.4
Turret slide	Number of tool stations			12 (*20)
	Turret mechanism			Three piece coupling
	Turret mount size			BMT 55(*45、60)
	Spindle speed for live tool		min-1	4000(*6000)
	Spindle motor for live tool		kw [hp]	4.5[6.0]
Slide type		X-axis		Boxway
		Y-axis		Boxway
		Z-axis		Roller guide
		B-axis		Roller guide
Slide stroke		X-axis	mm [inch]	295 [11.61]
		Y-axis	mm [inch]	±50 [1.97]
		Z-axis	mm [inch]	886 [34.88](★800 [31.5])
		B-axis	mm [inch]	830 [32.68]
Rapid traverse		X-axis	m/min	24
		Y-axis	m/min	12
		Z-axis	m/min	38
		B-axis	m/min	36
Feed motor		X-axis	kw [hp]	3.0 [4.0]
		Ys-axis	kw [hp]	2.5 [3.4]
		Z-axis	kw [hp]	3.0 [4.0]
		B-axis	kw [hp]	3.0 [4.0]
Footprint			mm [feet,inch]	Side exit：4330×2400 [14'2" x 7'10"] Rear exit：3230×3090 [10'7" x 10'2"]
Height			mm [feet,inch]	2130 [6'12"]
Weight			kg [lb.]	6500 [14330]
CNC control				FANUC 0i-TF Plus
Max. Part size	Left spindle		mm [inch]	ϕ460 [18.11]
	Right spindle		mm [inch]	ϕ460 [18.11]

Machine Overview



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■Specifications are subject to change without notice.
■The photos include options.
■The mentioned data on this catalog is actual value, but not a performance guarantee.

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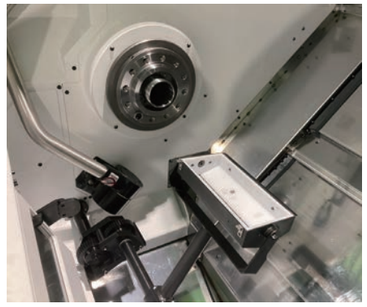
ACUFLEX 400S

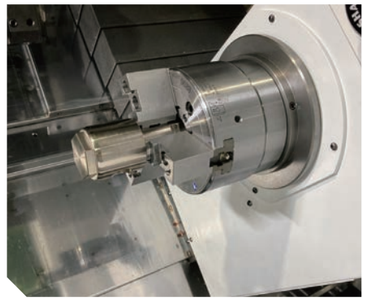
Multi Task CNC Lathe ACUFLEX series

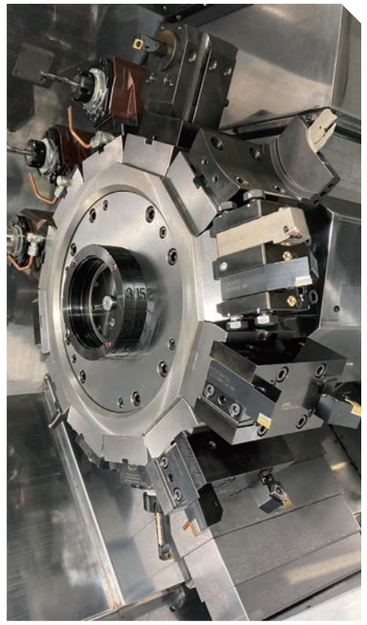
Slide-ways designed to maintain exceptional rigidity , speed and accuracy.

World class work piece envelope design with high rigidity spindles.

BMT Style Live Tool Holders from various manufactures can be attached.
***Patent pending**







NEW !

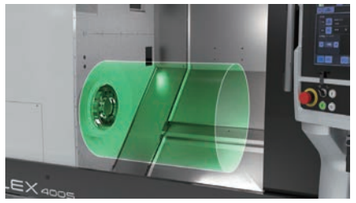
ACUFLEX 400S

Multi Task CNC Lathe

World Class Work Piece Envelope Design

On the left spindle, it's possible to install a 12-inch chuck, taking advantage of the spacious interior of the machine to accommodate sizable workpieces due to the generous swing design.

Swing over bed: ϕ790



Selectable turrets

You have the choice between two options: a highly rigid short neck or a long neck design that offers flexibility for right spindle tooling.

short neck turret

long neck turret

Amount of boring protrusion to the right spindle

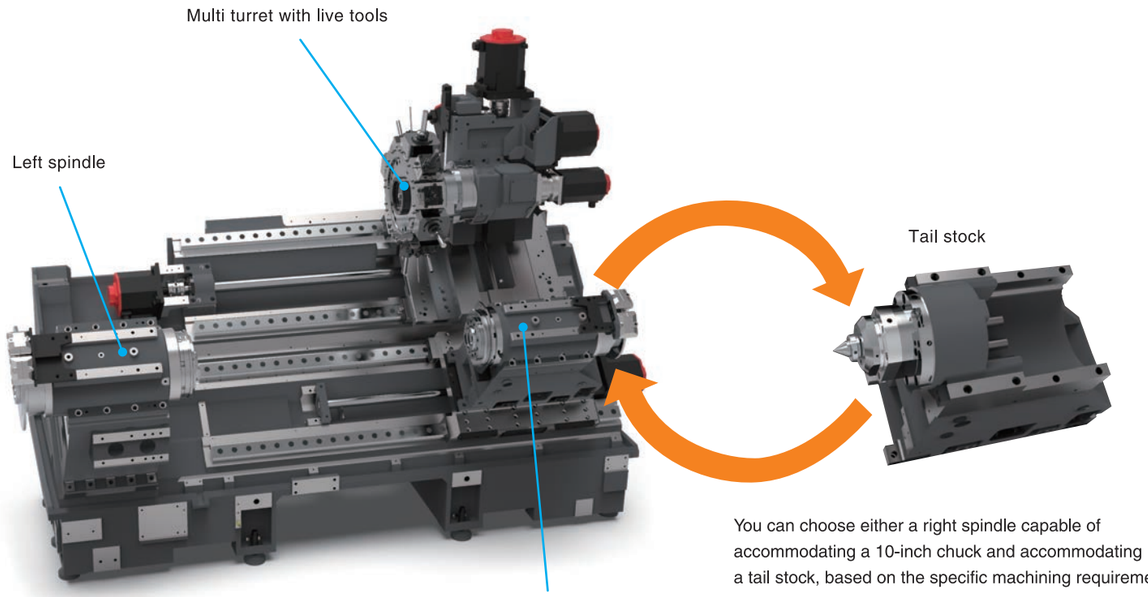
	short neck turret	long neck turret
400S	93 mm	179 mm

*The above values are from the right end of the turret holder.

High rigidity column

Employing a linear guide featuring a broad mounting pitch accomplishes optimal rigidity and speed for the Z-axis slide.
Box way slides are implemented for the XY axis positioned closer to the machining point, facilitating robust cutting capabilities.
The right spindle is capable of performing machining operations at a level equivalent to that of the left spindle.

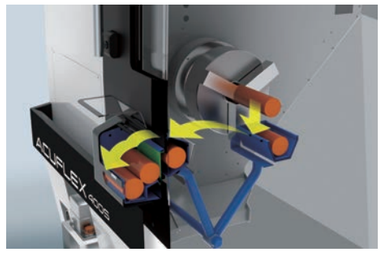
400S (single turret)



You can choose either a right spindle capable of accommodating a 10-inch chuck and accommodating a tail stock, based on the specific machining requirements.

Parts catcher

The parts catcher accepts the finished workpieces within the machine and ejects them externally.
You can opt for either a conveyor or a box as the unloading method.



Bar feeder

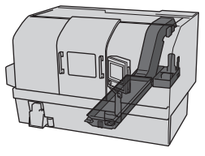
Cutting bars is possible by attaching a bar feeder that corresponds to the workpiece's length and diameter.

*A FUJI Gantry Robot can be equipped as a option.

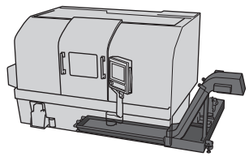
Selecting a chip conveyor

You can choose the chip conveyor's discharge direction, either from the right side or the rear, based on the nature of the work and the available space in the factory.

rear exit



side exit

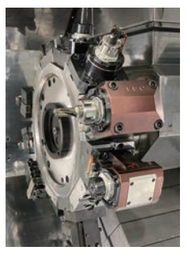


Live tool

Commercially available BMTs are used.
BMT45, BMT55 and BMT60 can be used.

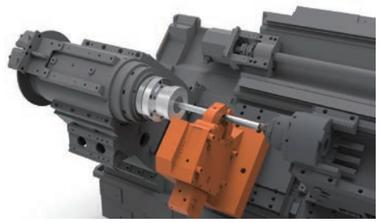
Live tool specifications

Max. clamping tool dia.	ER32 Max.ϕ22 OP ER40 Max.ϕ30 CAPTO C4 Boring bar ϕ40 Square bite □25
Number of station	12
Spindle speed	4000min^{-1} OP 6000min^{-1}
Spindle motor	4.5kw 22Nm



Anti-vibration Steady Rest Option

Chattering is minimized and stable machining of shaft workpiece is achieved with multiple types of stead rest option solutions.



*Manual driving or automatic steady rest options can be selected

Reducing loads on operators

The door is bi-directional, allowing for opening and closing to both the right and left sides. The optional door open/close assist function helps to alleviate the operator's workload.