Z-MaT®

Dual spindle Automation

SA28-S/TT300/DA66-G

Smart CNC Solutions

Specifications

SA28-S

Standard machining dia.	Φ40mm	
Max. rod dia.	Φ28mm	
X axis travel	350mm	
Z axis travel	200mm	
Y axis travel	80mm	
X/Z rapid traverse	15/15 m/min	SUB-SPINDLE
Spindle bore	Φ37mm, *Φ48mm	Φ37mm
Spindle bar capacity	Φ28mm, *Φ40mm	Φ28mm
Spindle speed	3000rpm	3000rpm
Spindle chuck/collet	Hydraulic collet	Hydraulic collet
Spindle turret type	Gang type tools, *8-Station turret	Gang type tool
Spindle motor power	3.7KW	2.2KW
Spindle type	Φ68mm	
Spindle taper	39°, *42°	
Dimension(LXWXH)	1990X1480X1830mm	
Weight	1900Kg	

Specifications

DA66-G

Slant bed degree	30°, LM	
Max. machining dia.	Φ160mm	
Standard machining dia.	Φ100mm	
Spindle type	A2-5	
Spindle taper	MT6	SUB-SPINDLE
Spindle X/Z axis travel	370mm/200mm	370mm/200mm
Spindle X/Z rapid traverse	15/15 m/min	15/15 m/min
Spindle bore	Φ55mm	Φ55mm
Spindle bar capacity	Φ46mm	Φ46mm
Spindle speed	3500rpm	3500rpm
Spindle chuck/collet	6" Hydraulic chuck/ Hydraulic collet	6" Hydraulic chuck/ Hydraulic collet
Spindle motor power	7.5KW	7.5KW
Turret type	Gang type tool	
Overall dimension(LXWXH)	2550X1780X1800	
Weight	3300Kg	

TT300

Chuck/Collet	6" Hydraulic chuck/Hydraulic collet
Max. swing dia.over bed	Φ300mm
Max. length of workpiece	220mm
Spindle bore / through hole	Φ48mm / Φ40mm
Spindle speed	3000rpm
Main motor power	4.0kW, *5.5kW
X/Z axis travel	320mm/220mm
X/Z rapid traverse	25/25 m/min
Turret type	Gang type tool, *4-Station toolpost
Guideway type	LM
Overall dimension(LXWXH)	2750X1300X1760mm
Weight	2400Kg

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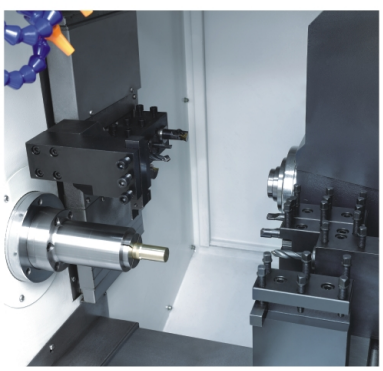
Dual Spindle Automation

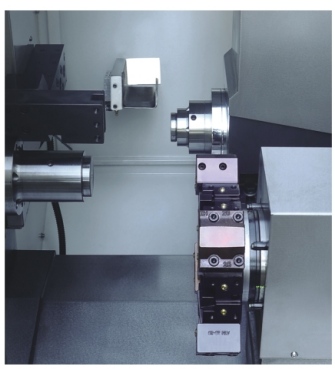
SA28-S Fixed Spindle + Moveable Spindle
DA66-G Moveable Spindle+ Moveable Spindle
TT300 Both Spindles Fixed

SA28-S Fixed Spindle + Moveable Spindle

Meet the new low cost option for dual spindle machining. Advantages of dual spindle/turret machining centers include: 1) One machine is cheaper than two 2) More accurate when a machining process is accomplished on a single machine, rather than moving the part from machine to machine. 3) Lower labor cost due to reduced set-up requirements.In the past, the problem with dual spindle machines has been the price – too high to justify.

Z-MaT has now introduced the SA28-S Dual Spindle Turning Center. This high quality machine has the capabilities of traditional dual spindle machines – **at a much lower price tag.** Finally, here is an automation option you can use - and price justify.





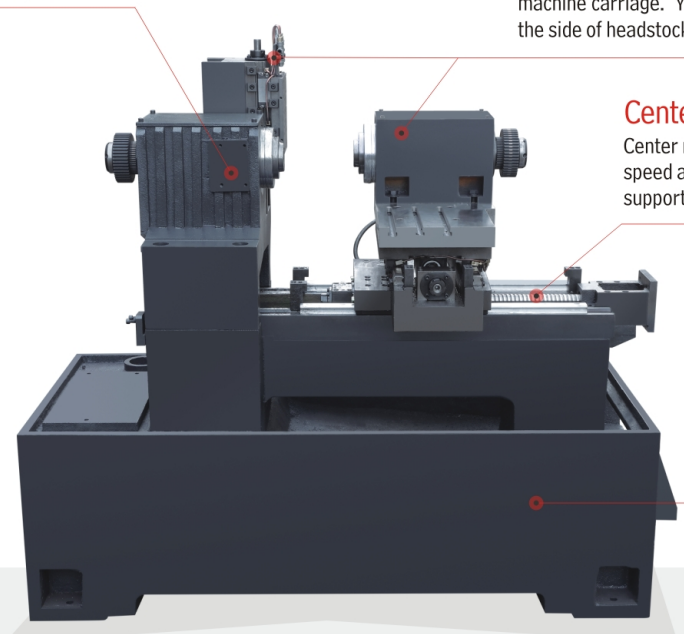
Note: 8-station turret is option for SA28-S

Main Spindle Options

Highly rigid frame structure with wide span provides high stability and heavy carrying capacity.

Secondary Spindle Options

X axis secondary spindle is mounted on the machine carriage. Y axis spindle is mounted on the side of headstock.



Center-Mounted Ball Screw

Center mounted ball screw eliminates torque – increasing speed and efficiency. Dual, pre-loaded bearing structures support ball screw for optimal transmission accuracy.

Stable Base Structure

Machine base and bed are one-piece casting, mono-block design. This provides optimal rigidity and accuracy.

Three dual spindle models for different applications

Together with Robot or Bar-feeder, Z-MaT dual spindle Turning machine could realize complete advanced automation on a single machine.

TT300 Both Spindles Fixed

DA66-G Moveable Spindle + Moveable Spindle

Center-Mounted Ball Screw

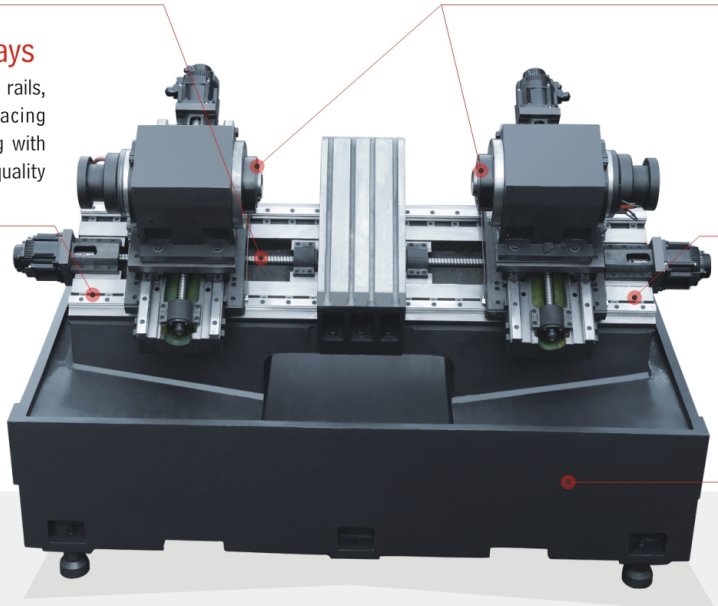
Center mounted ball screw is inherently more accurate than lower cost machines that use front-mounted ball screws. Lower friction and torque, along with quality pre-loaded bearing assemblies assures optimal power transmission, speed and accuracy.

Main and Sub-Spindles

Both spindles adapt servo high-speed motors with high rotation accuracy and fast response. This level of accuracy and synchronization assures total process accuracy as single parts are machined with high precision using two different spindles in a single machining cycle.

Heavy Linear Guideways

Extra heavy linear guides and rails, couples with wide way spacing produces superior rigidity, along with improvements in long-term quality results, with high precision.



Slant Bed Design

30° slant bed layout provides a reliable, efficient structure. Optimal chip removal is accomplished. Provides easy operator access – an important consideration for dual spindle set-ups and operation.

Mono-Block Casting

Lathe bed and machine base are produced in a single cast unit. This heavy, quality cast structure provides a strong foundation for operations that require high-speed yet smooth, multiple axis movements and direction changes.