



**Engineering Precision
Creating Value**

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嘉坤机械
JIA KUN MACHINERY



Swiss Type CNC Lathe
Ultra-Precision & High-Efficiency Machining

Since 1994 Precision Manufacturing

30+ Years of Engineering Excellence

For over 30 years,
Jiakun Machinery has been
dedicated to the R&D and
manufacturing of CNC machine tools
and advanced automation systems.

From standard CNC machine tools
to automated production lines,
from precision machining
to custom equipment solutions.

Driven by stable quality
and continuous innovation,
we provide trusted machinery
and services to global clients.

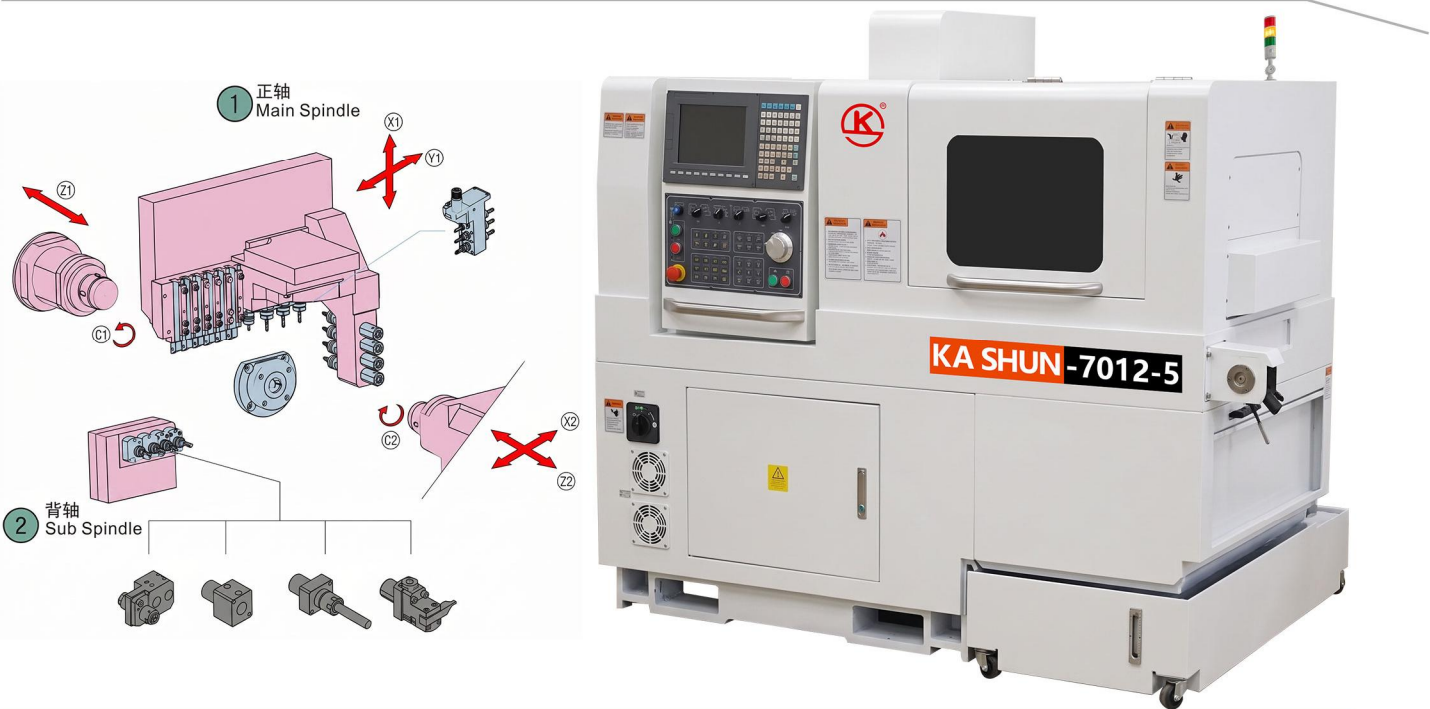
We believe the stable operation
of every machine stems from
uncompromised quality
in every single process.



KS-7012-5

Swiss-Type Lathe Series

Empowering High-Precision Smart Manufacturing



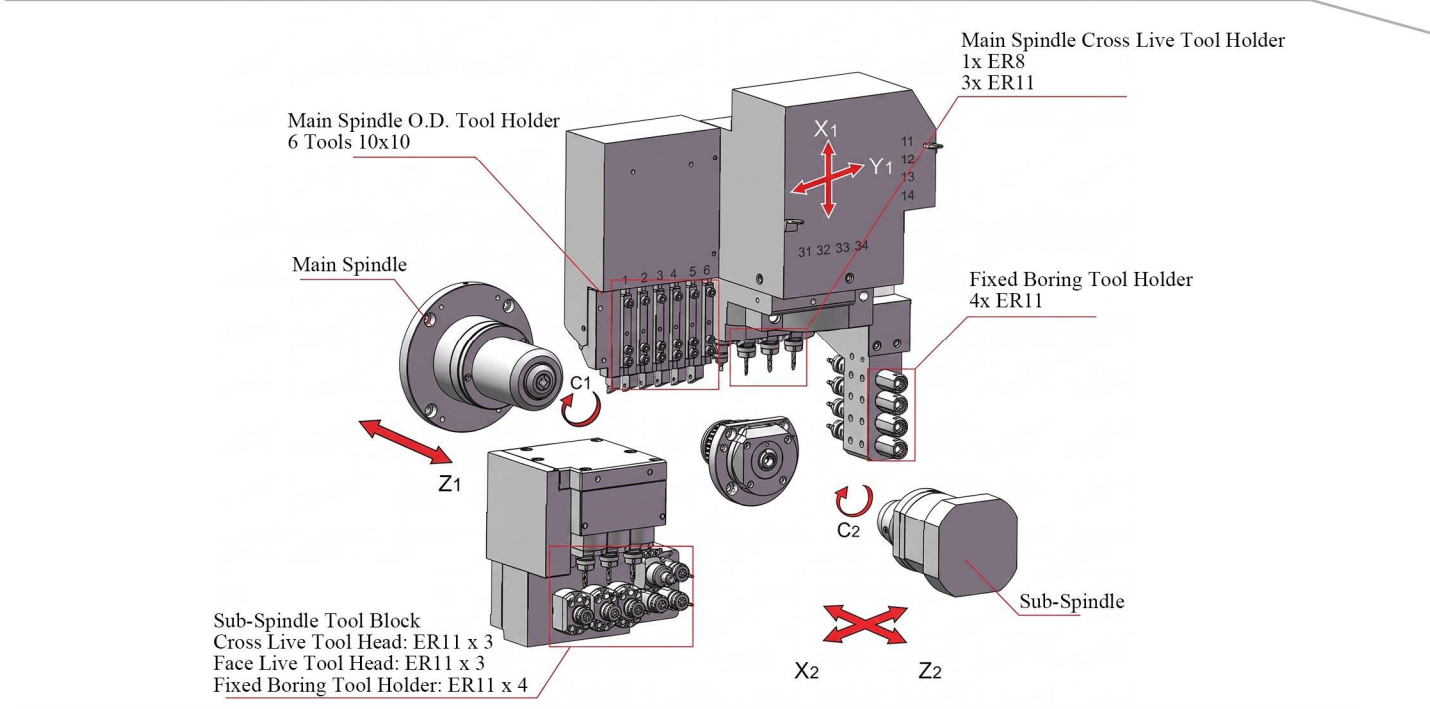
Technical parameters	KS-7012-5
Spindle	
Max.machining diameter	Φ12mm
Max. headstock stroke	
With guide bush	135mm
Without guide bush	1 : 2.5D
Fixed boring tool	
Max.drilling capability	Φ8mm
Max.tapping capability	M6
Power-driven attachment	
Max.drilling capability	Φ5mm
Max.tapping capability	M4
Spindle speed	ER8:max.9.000min ⁻¹ /ER11:max.9.000min ⁻¹
Driven motor	1.0kw
Sub spindle tools	
Max.drilling capability	Φ5mm
Max.tapping capability	M4
End face boring tools	ER11*4
End face milling tools rotary speed	max.9000min ⁻¹
Driven motor power	1.0kw
Main/Sub spindle motor power	Main spindle:2.2kw/3.7kw Sub spindle:1.5kw/2.5kw

*Products are constantly updated, product specifications are subject to change without notice

KS-7012-6

Swiss-Type Lathe Series

Empowering High-Precision Smart Manufacturing



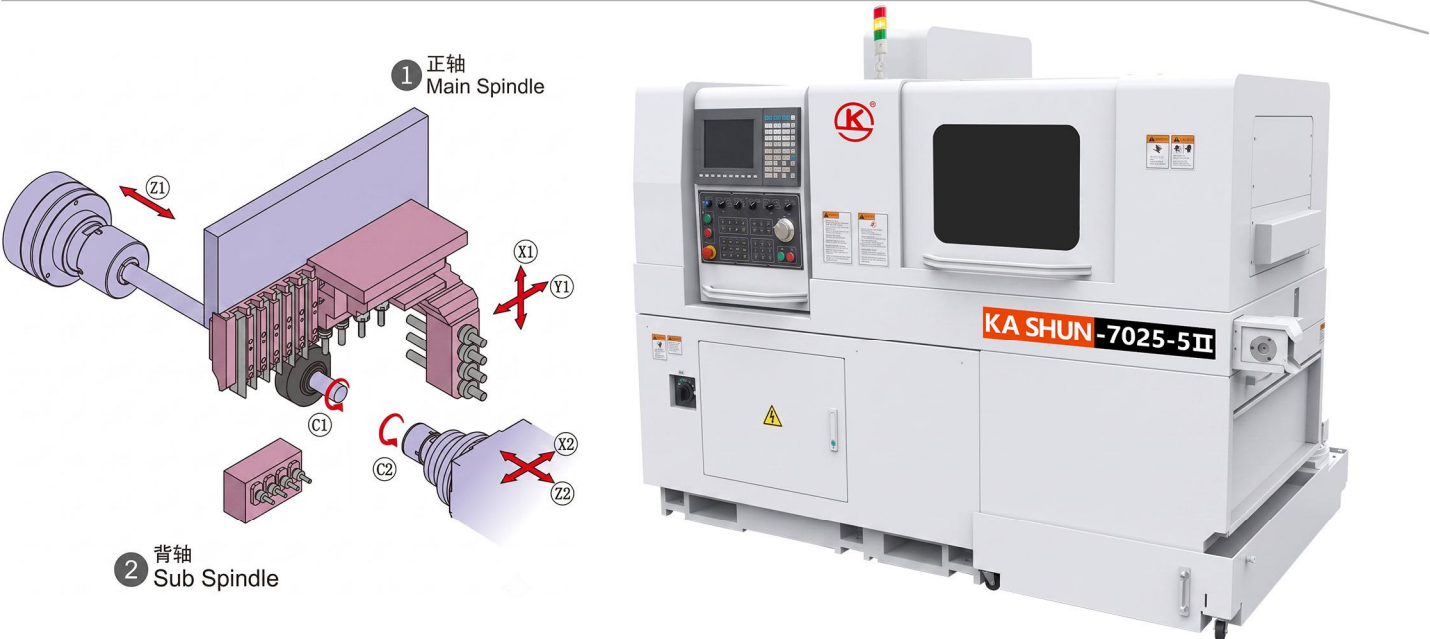
Technical parameters	KS-7012-6
Spindle	
Max.machining diameter	Φ12mm
Max. headstock stroke	
With guide bush	135mm
Without guide bush	1 : 2.5D
Fixed boring tool	
Max.drilling capability	Φ8mm
Max.tapping capability	M6
Power-driven attachment	
Max.drilling capability	Φ5mm
Max.tapping capability	M4
Spindle speed	ER8:max.9.000min ⁻¹ /ER11:max.9.000min ⁻¹
Driven motor	1.0kw
Sub spindle tools	
Max.drilling capability	Φ5mm
Max.tapping capability	M4
Side milling tools rotary speed	max.9000min ⁻¹
End face milling tools rotary speed	max.9000min ⁻¹
Driven motor power	1.0kw
End face boring tools	ER11*4
Main/Sub spindle motor power	Main spindle:2.2kw/3.7kw Sub spindle:1.5kw/2.5kw

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KS-7025-5II

Swiss-Type Lathe Series

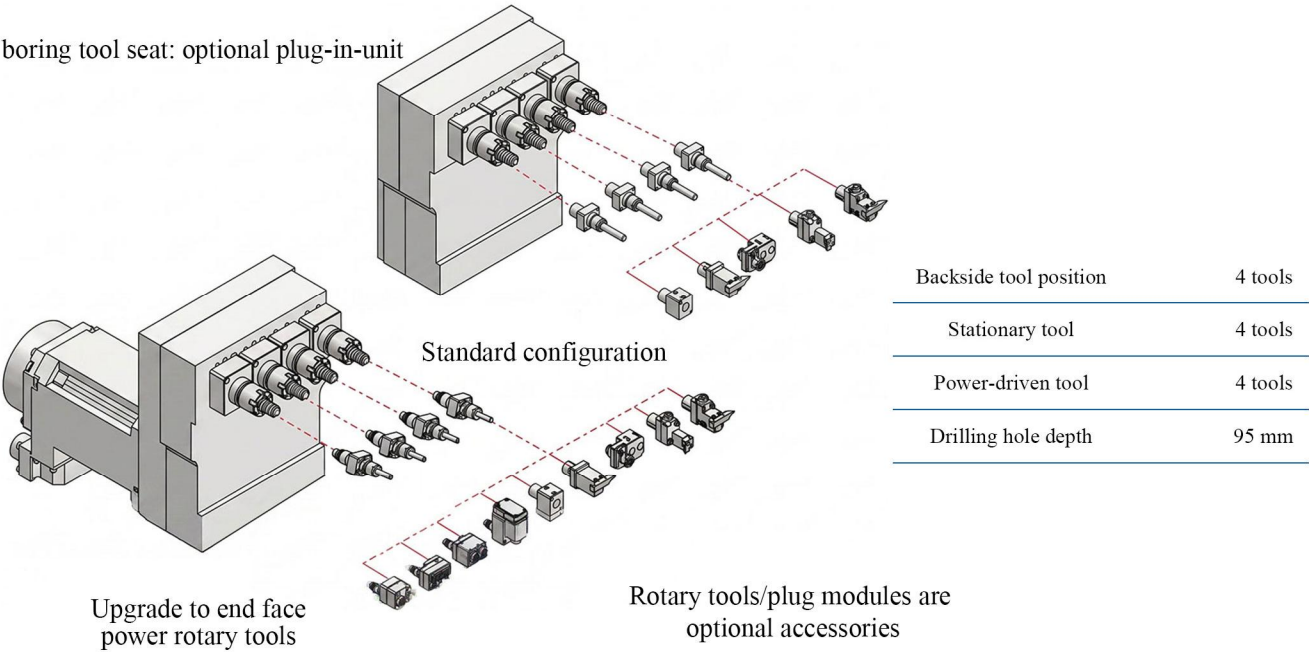
Empowering High-Precision Smart Manufacturing



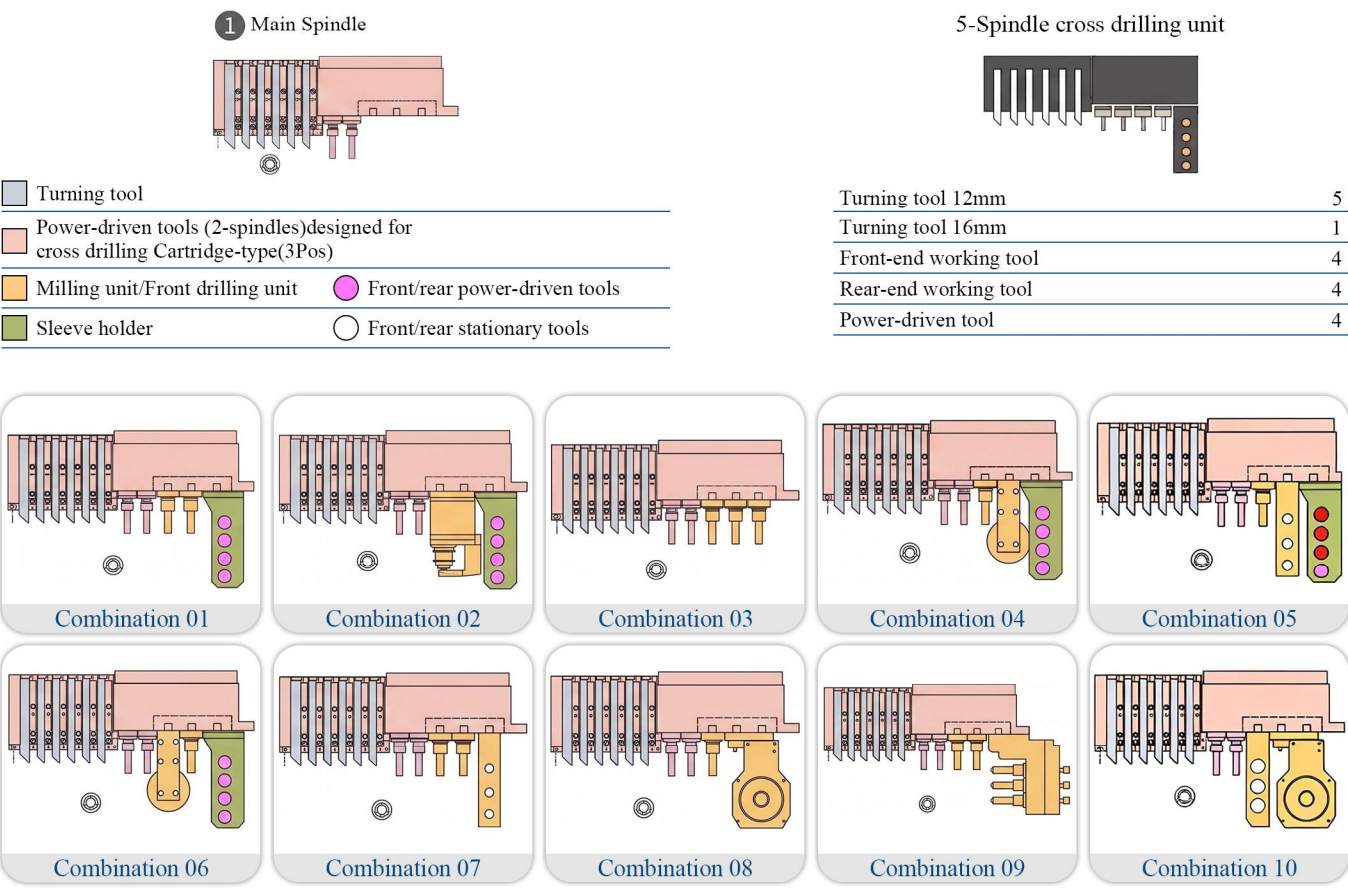
Technical parameters	KS-7020-5II	KS-7025-5II
Spindle		
Max.machining diameter	Φ20mm	Φ25mm
Max. headstock stroke		
With guide bush	200mm	
Without guide bush	1 : 2.5D	
Fixed boring tool		
Max.drilling capability	Φ10mm	
Max.tapping capability	M6	
Power-driven attachment		
Max.drilling capability	Φ8mm	
Max.tapping capability	M6	
Spindle speed	ER16:max.6.000min ⁻¹ /ER11:max.1.0000min ⁻¹	
Driven motor	1.0/1.1kw	
Sub spindle tools		
Max.drilling capability	Φ8mm	
Max.tapping capability	M6	
Driven motor	1.0kw	
Other		
Rapid feed rate	X ₁ :24m/min Z ₁ Y ₁ X ₂ Z ₂ :32m/min	
Main spindle speed	max.10000min ⁻¹	
Main spindle motor	2.2kw(continuous)/3.7kw(10min./25%ED)	
Sub spindle Max. travel distance	265mm	
Machine weight	3050kg	

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Sub Spindle Tool Arrangement Diagram



3 Position Variable Tooling Layouts Units



KS-7025-6S

Swiss-Type Lathe Series

Empowering High-Precision Smart Manufacturing



Technical parameters	KS-7020-6S	KS-7025-6S
Spindle		
Max.machining diameter	Φ20mm	Φ25mm
Max. headstock stroke		
With guide bush	200mm	
Without guide bush	1 : 2.5D	
Fixed boring tool		
Max.drilling capability	Φ10mm	
Max.tapping capability	M8	
Power-driven attachment		
Max.drilling capability	Φ8mm	
Max.tapping capability	M6	
Spindle speed	ER16:max.6.000min ⁻¹ /ER11:max.1.0000min ⁻¹	
Driven motor	1.1kw	
Sub spindle tools		
Max.drilling capability	Φ8mm	
Max.tapping capability	M6	
Driven motor	1.1kw	
Other		
Rapid feed rate	Y ₂ X ₁ :24m/min Z ₁ Y ₁ X ₂ Z ₂ :32m/min	
Main spindle speed	max.10000min ⁻¹	
Main spindle motor	2.2kw(continuous)/3.7kw(10min./25%ED)	
Sub spindle Max. travel distance	367mm	
Machine weight	3600kg	

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Tool Layout

Main Spindle O.D. Tool Holder
5x 12x12 mm Turning Tools
1x 16x16 mm Cut-off Tool

Main Spindle Cross Live Tool Head
2x ER11
2x ER16 (Plug-and-Play/Quick-Change)

Main Spindle Face Boring Tool Holder
4x ER11/ER16

Conventional Six-Axis Mechanism

New Six-Axis Mechanism

	Conventional Six Axis	New Six Axis
End face power head	4 pcs	3 pcs
End face fixing seat	4 pcs	4 pcs
Side power head	nothave	4 pcs
Turning tool	nothave	2 pcs

Sub-Spindle

Expansion Module:
Adds 3 Adjustable 0°-90° Angular Drilling Units

Expansion Module:
Expanded to 6 Face Live Tool Positions

Expansion Module:
Expanded to 6 Cross Live Tool Positions

Expansion Module:
Polygon Turning Tool Holder

Expansion Module:
Large-Diameter Face Slitting Saw Holder

Expansion Module:
Expanded to 7 Fixed Face Tool Positions

KS-7025-9S

Swiss-Type Lathe Series

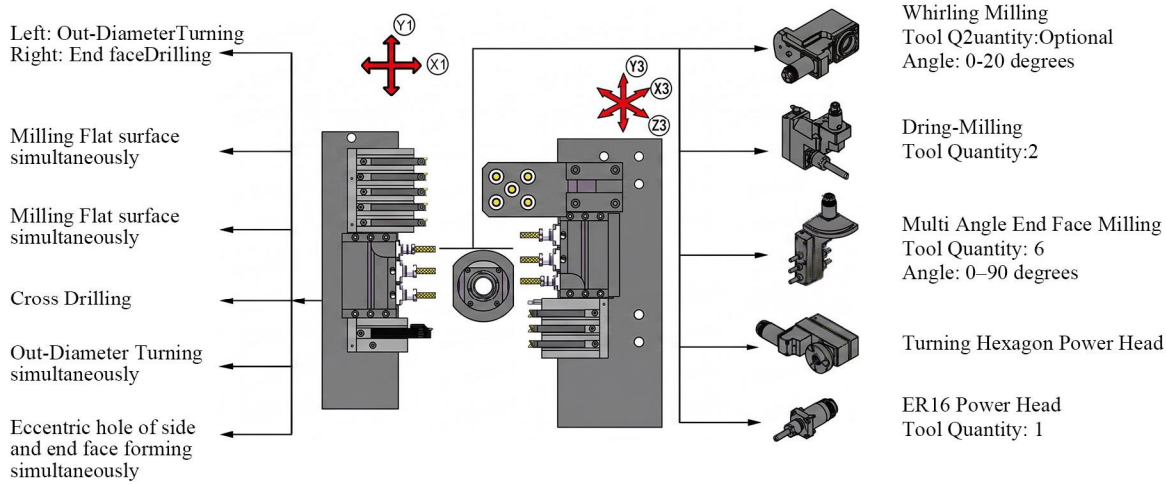
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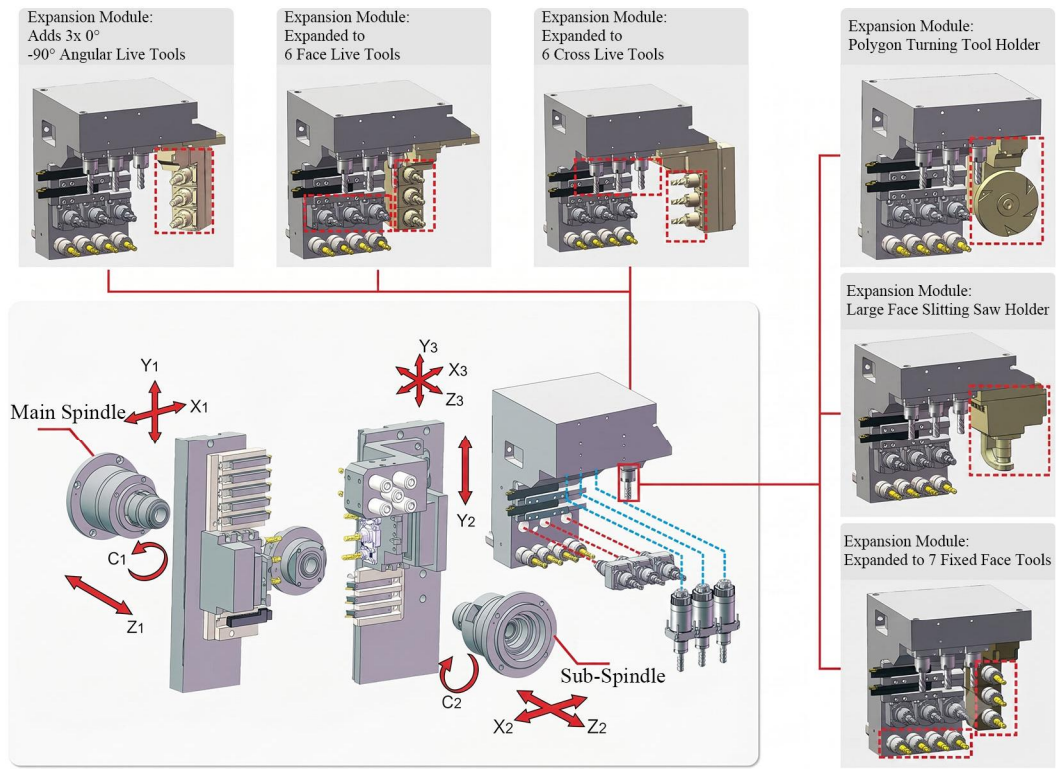
Specifications KS-7025-9S	
Spindle	
Max.machining diameter	Φ25mm
Max. headstock stroke	
With guide bush	200mm
Without guide bush	1 : 2.5D
Fixed boring tool	
Max.drilling capability	Φ10mm
Max.tapping capability	M8
Fixed boring tool	
Max.drilling capability	Φ8mm
Max.tapping capability	M6
Spindle speed	max.6000min ⁻¹
Driven motor	1.0kw
Other	
Main spindle speed	max.10000min ⁻¹
Main spindle motor	2.2kw(continuous) 3.7kw(10min./25%ED)
Rapid feeding rate	1/24m/min ⁻¹
Machine weight	3900kg

Backworking Attachment	
Max.chucking diameter	Φ25mm
Max.travel distance	305mm
Max.drilling hole depth	80mm
Sub spindle 8 tool position	
Max.drilling capability	Stationary tool:Φ8mm Power-driven tool:Φ8mm
Max.tapping capability	Stationary tool:M6 Power-driven tool:M6
Spindle speed	max.6000min ⁻¹
Driven motor	1.1kw
Sub spindle indexing angle	C2-axis control
Sub spindle speed	max.10000min ⁻¹
Sub spindle motor	2.2kw(continuous) 3.7kw(10min./25%ED)

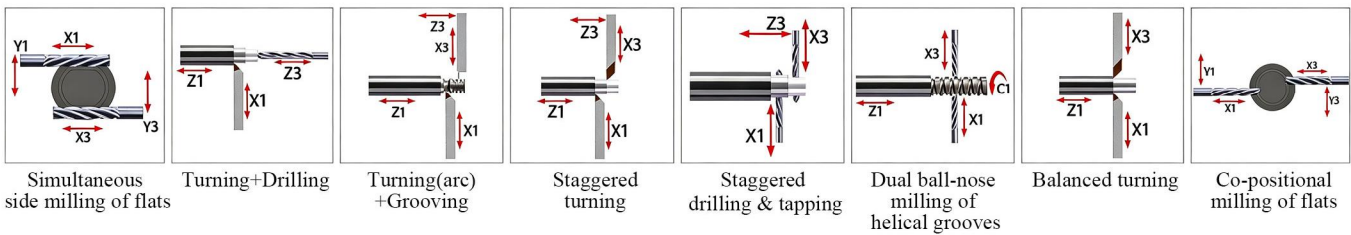
Multi Functional Replaceable Tool Drawing



Sub-Spindle



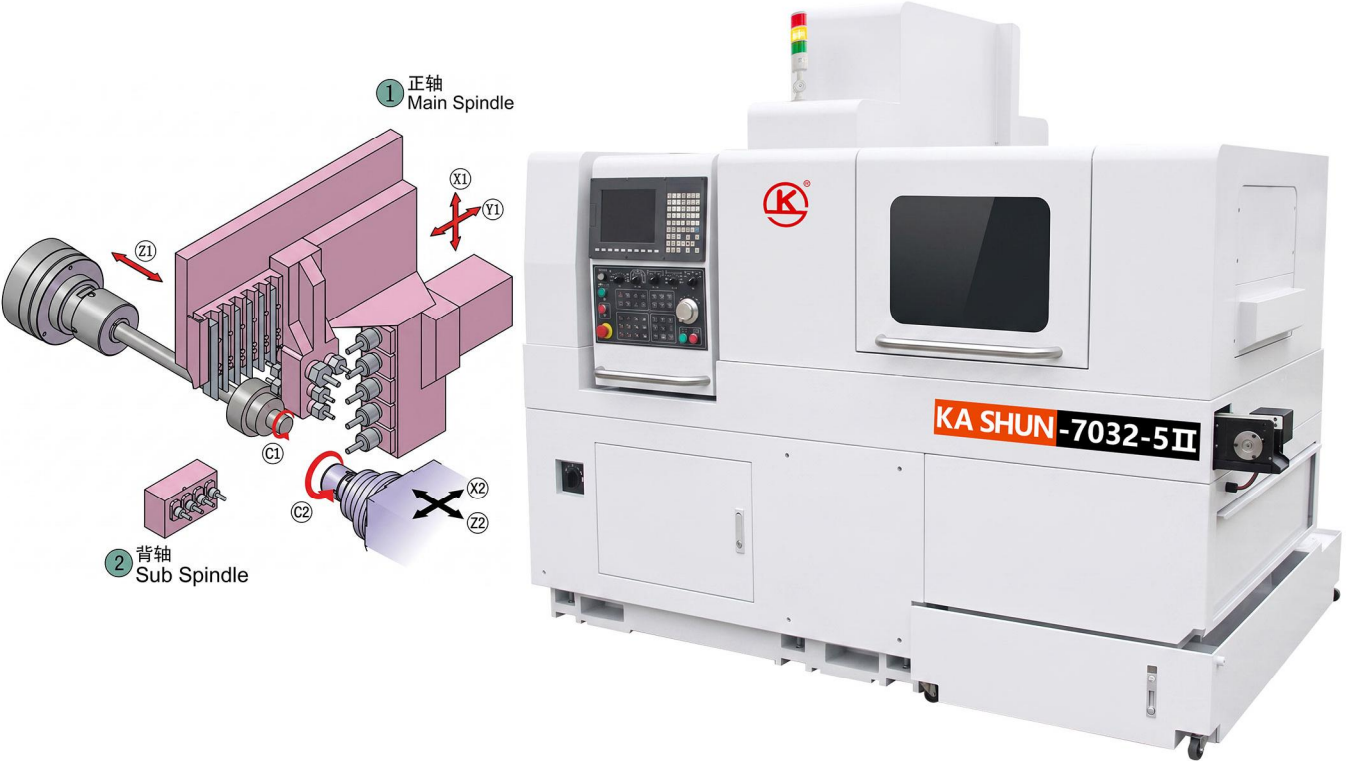
Expansion Module: Expanded to 7 Fixed Face Tools



KS-7032-5II

Swiss-Type Lathe Series

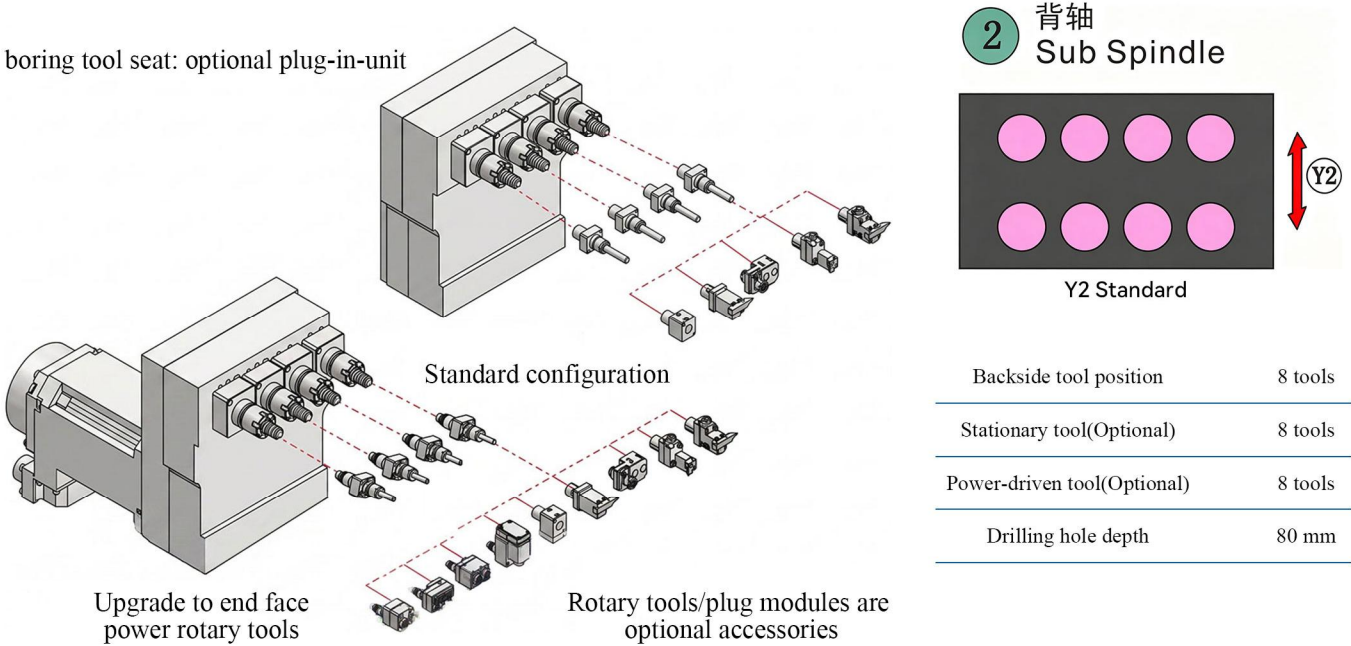
Empowering High-Precision Smart Manufacturing



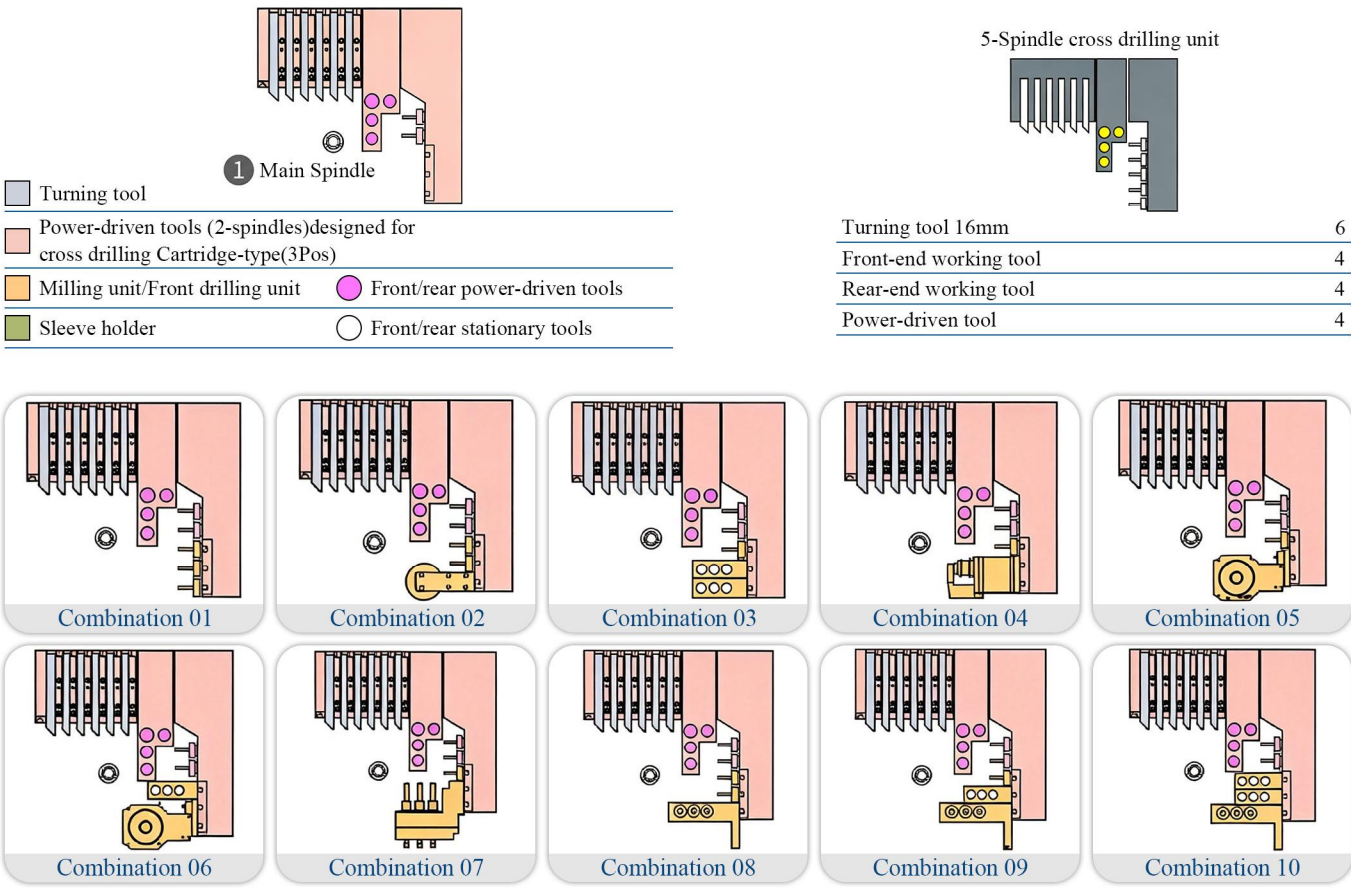
Technical parameters	KS-7032-5II
Spindle	
Max.machining diameter	Φ35mm
Max. headstock stroke	
With guide bush	190mm
Without guide bush	1 : 2.5D
Fixed boring tool	
Max.drilling capability	ER20:Φ13 / ER16:Φ10 / ER11:Φ7mm
Max.tapping capability	ER20:M12 / ER16:M8 / ER11:M6
Power-driven attachment	
Max.drilling capability	ER16:Φ10 / ER11:Φ7mm
Max.tapping capability	ER16:M8 / ER16:M6
Spindle speed	ER16:max.5.000min ⁻¹ / ER11:max.5.000min ⁻¹
Driven motor	1.7kw
Other	
Main spindle speed	max.8000min ⁻¹
Main spindle motor	3.5kw(continuous)/6.0kw(10min./25%ED)
Rapid feeding rate	24m/min ⁻¹
Sub spindle Max. travel distance	270mm
Machine weight	3880kg

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Sub Spindle Tool Arrangement Diagram



3 Position Variable Tooling Layouts Units



KS-7038-6S

Swiss-Type Lathe Series

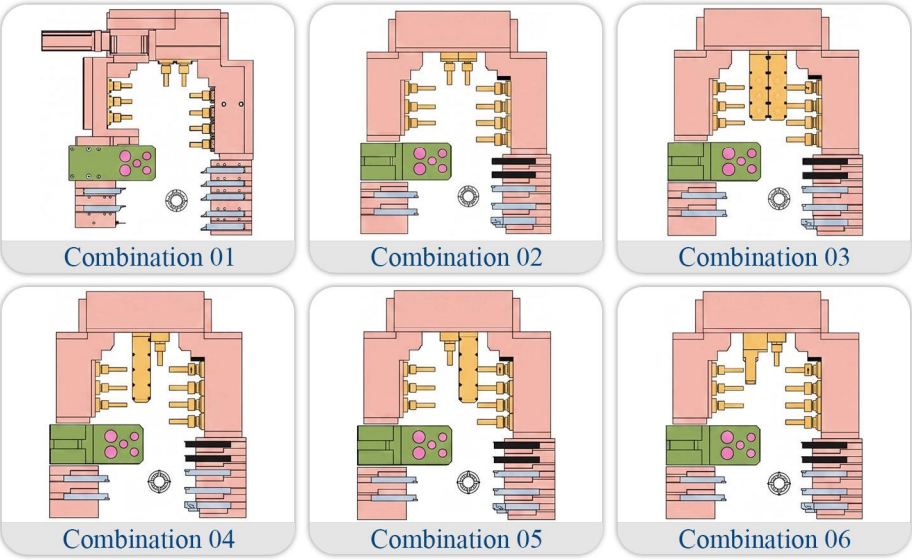
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Technical parameters	KS-7038-6S
Spindle	
Max.machining diameter	Φ38mm
Max. headstock stroke	
With guide bush	230mm
Without guide bush	1 : 2.5D
Fixed boring tool	
Max.drilling capability	Φ23mm
Max.tapping capability	M16
Power-driven attachment	
Max.drilling capability	Φ13mm
Max.tapping capability	M10
Spindle speed	max.6000min ⁻¹
Driven motor	3.1kw
Other	
Main spindle speed	max.6000min ⁻¹
Main spindle motor	11kw(continuous)/15kw(10min./25%ED)
Rapid feeding rate	30m/min ⁻¹
Machine weight	4200kg

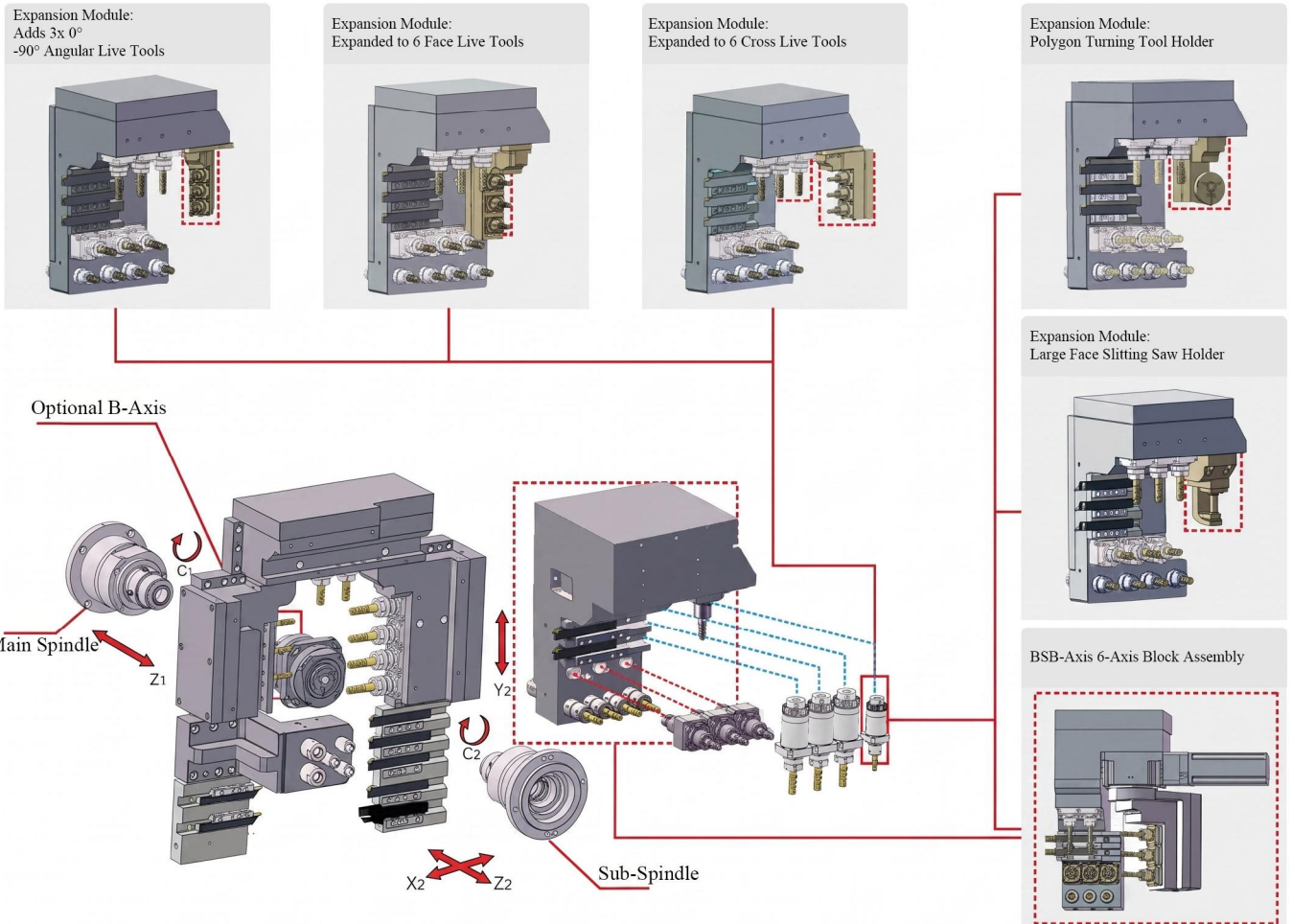
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Principal Axis Variable Tooling Layouts Units

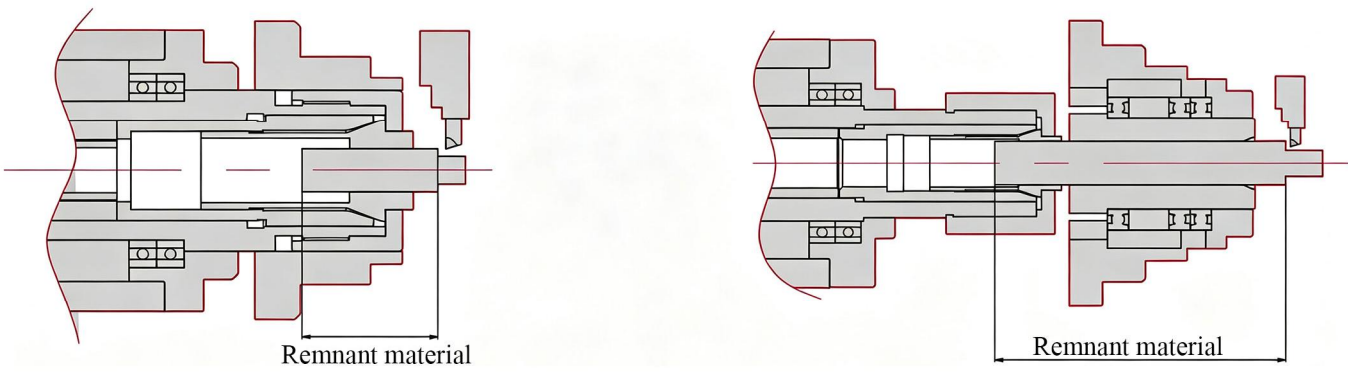


Main Spindle Tools	
Turning tool(16mm)	7
Front-end working tool	5
Side Power-driven tool	9
Sub Spindle Tools	
Turning tool(16mm)	2
Side Power-driven tool	4
End face Power-driven tool	3
End face working tool	4

Sub-Spindle



Guide Bush Structural Optimization



- Guide bush and no guide bush change freely, convenient and flexible,save material and high efficiency
- No guide bush structure is economy, makes maximum use of original material in order to shorten the tail material
- Guide bush structure is high precision, suitable tail material to make sure the precision of long thin part.

	No guide bush	With guide bush
KS20 Tail material length	50mm	200mm
KS25 Tail material length	50mm	180mm

One-Hit Machining Eliminating Secondary Operations

Electrical Accessories

Electrical Accessories

Medical Industry

Medical Industry

Military

Aerospace Components

Fume Extractor Parts

Dice

Automotive Industry

Hydraulic Valves

Musical Instrument Parts

RC Model Car Drive Shafts



Optional Tools



Side rotary tools
Max speed:6000RPM
Collet size:ER16



Main spindle
drilling tool holder
Hole size: Φ 22



Speed ratio:1/1
in 1 rotary tools holder
Max speed:6000RPM
Collet size:ER16



90° Angle rotary tool holder
Speed ratio:1/1
Max speed:6000RPM
Angle range:0°~90°
Collet type:
Main spindle ER16
Sub spindle ER11



360° Angle rotary tool holder
Speed ratio:1/1
Max speed:6000RPM
Angle range:0°~360°
Collet type:
Main spindle ER16
Sub spindle ER11



Polygonal milling
tool holder
Speed ratio:1/1
Max speed:3000RPM
Knife insert size: Φ95



Whirling milling
Speed ratio:1/1
Max speed:6000RPM
Tapping max size:M10
Angle range:±15



Sub spindle end face
rotaty tools
Max speed:6000RPM
Collet size:ER16



Sub spindle drilling tool
Support central oil cooling



Sub spindle tools
extension base
peed ratio: 1/1
Max speed:6000RPM
Rotary tools: ER11×1 piece
Fixed tools:ER11×2 pcs



Sub spindle tools extension
base
Speed ratio:1/1
Max speed:6000RPM



Sub spindle double holes
rotaty tools baseER11×2



Sub spindle vertical
rotary milling tool
Max speed:4000RPM
Collet size:ER11



Sub spindle turning tool
holder
Use carbide inserts



Sub spindle turning tool holde
Tool shank size:10*10mmr

Multiple certifications



(Selected patents shown due to space limitations)