



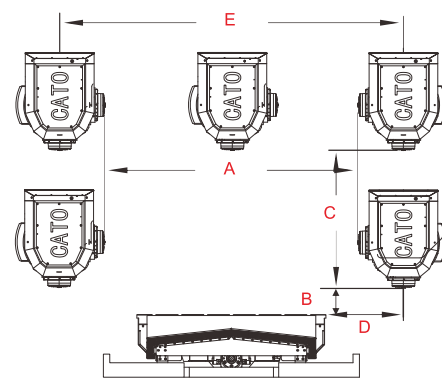
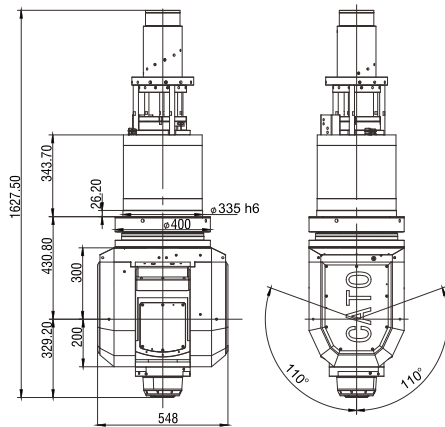
# HIGH SPEED SIMULTANEOUS TWO AXIS MILLING HEAD



## ► F1 Dual-Arm HSK-A63 30kW 72~85Nm 18000rpm



- It adopts a symmetrical cross structure, which has higher structural rigidity and shock suppression than similar models.
- The B/C axis uses a direct drive motor combined with a high response speed hydraulic brake system, which has the characteristics of higher precision, zero backlash and zero wear.
- Water-cooling circuit design, the spindle is equipped with a central water outlet as standard, which can effectively suppress temperature rise changes and ensure higher accuracy.

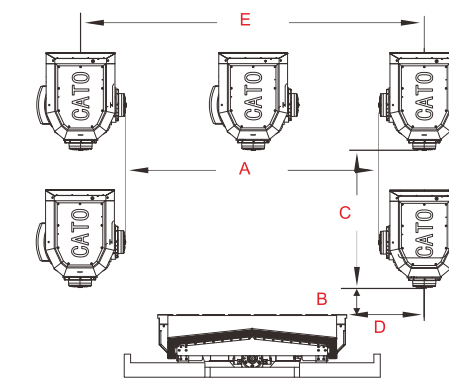
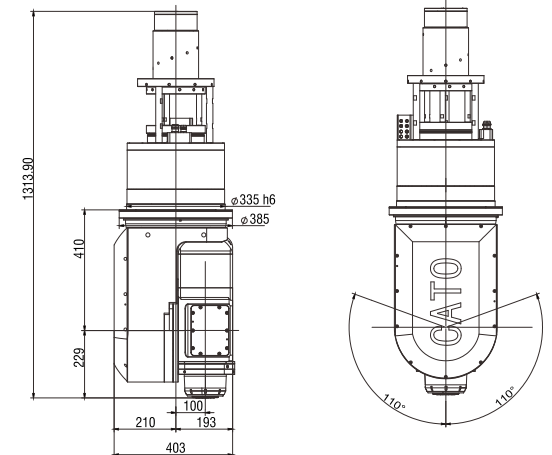


	GF2020-5X	GF3020-5X	GF4030-5X
A	1340 mm	1340mm	2340 mm
B	90 mm	80 mm	145 mm
C	800 mm	800 mm	1000 mm
D	450 mm	450 mm	500 mm
E	2000 mm	2000 mm	3000 mm

## ► F3 Single-Arm HSK-A63 20kW 35~42Nm 20000rpm



- Minimal interference area
- Highly rigid structure
- The B/C axis adopts a wear-free torque motor to maintain positioning accuracy and axial accuracy.

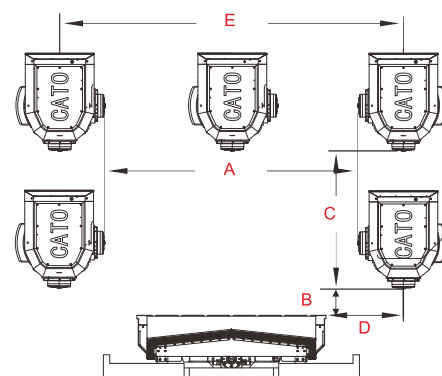
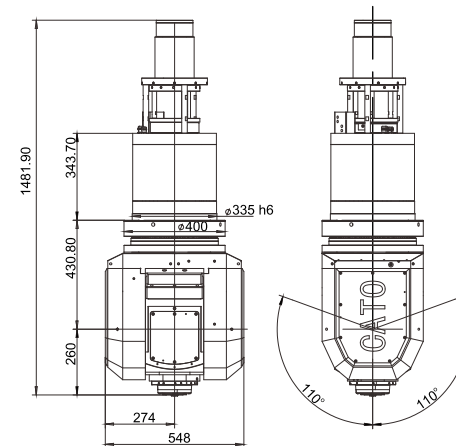


	GF2020-5X	GF3020-5X
A	1542 mm	1542 mm
B	210 mm	200 mm
C	800 mm	800 mm
D	450 mm	450 mm
E	2000 mm	2000 mm

## ► F2 Dual-Arm HSK-A63 35kW 60.7~86Nm 18000rpm



- Spindle smaller turning radius
- Highly rigid structure
- The B/C axis uses a direct drive motor combined with a high response speed hydraulic brake system, which has the characteristics of higher precision, zero backlash and zero wear.

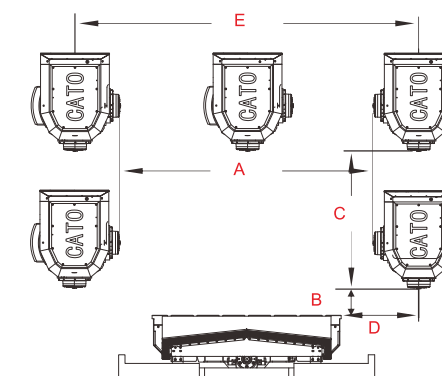
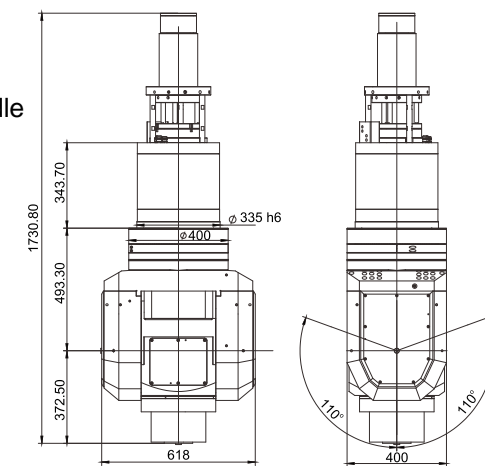


	GF2020-5X	GF3020-5X
A	1480 mm	1480 mm
B	160 mm	150 mm
C	800 mm	800 mm
D	450 mm	450 mm
E	2000 mm	2000 mm

## ► F4 Dual-Arm HSK-A100 54kW 200~240Nm 10000rpm



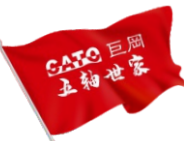
- High torque, A100 high-speed spindle
- Highly rigid structure
- The B/C axis uses a direct drive motor combined with a high response speed hydraulic brake system, which has the characteristics of higher precision, zero backlash and zero wear.



	GF2020-5X	GF3020-5X	GF4030-5X
A	1255 mm	1255 mm	2255 mm
B	-15 mm	-25 mm	40 mm
C	800 mm	800 mm	1000 mm
D	450 mm	450 mm	500 mm
E	2000 mm	2000 mm	3000 mm



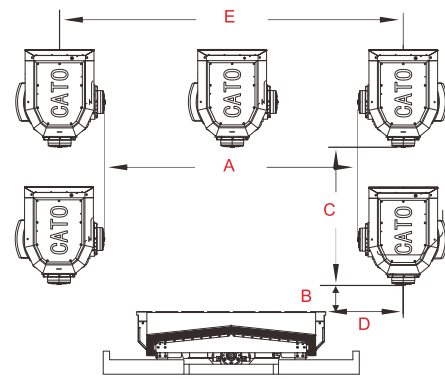
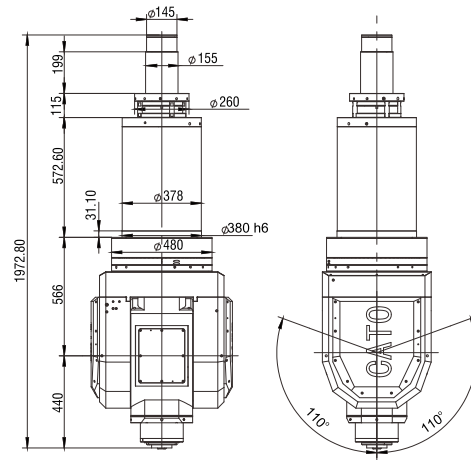
# HIGH SPEED SIMULTANEOUS TWO AXIS MILLING HEAD



## F5 Dual-Arm HSK-A100 70kW 350~450Nm 8000rpm



- 400Nm super torque spindle
- The powerful clamping torque of 6000Nm provides high and stable cutting quality.
- Simultaneously complete vertical, horizontal and various free-angle processing, greatly improving the processing efficiency and production efficiency of large workpieces.

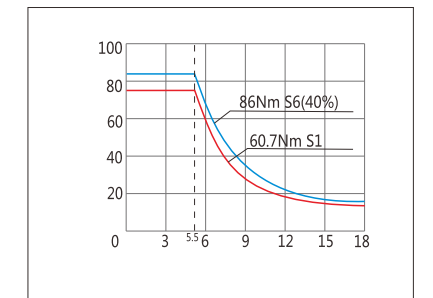
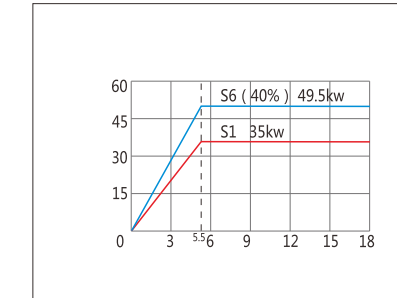


	GF4030-5X
A	2120 mm
B	-100 mm
C	1000 mm
D	500 mm
E	3000 mm

F2

Spindle Parameters		
Spindle S6 Torque	Nm	86
Spindle S1 Torque	Nm	60.7
Spindle Max. Speed	rpm	18000
Spindle Rated Speed	rpm	5500
Spindle Rated Power	KW	35
Taper Specification	-	HSK-A63
Lubrication Method	-	Grease Lubrication

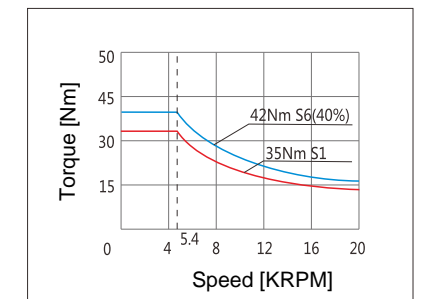
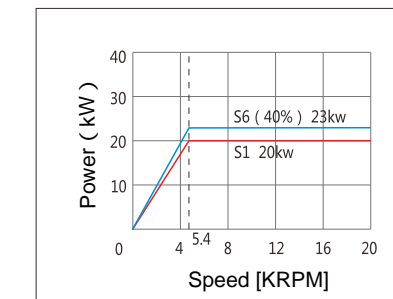
18000rpm-HSK A63 Built-in Type Spindle Power/Torque



F3

Spindle Parameters		
Spindle S6 Torque	Nm	42
Spindle S1 Torque	Nm	35
Spindle Max. Speed	rpm	20000
Spindle Rated Speed	rpm	5400
Spindle Rated Power	KW	20
Taper Specification	-	HSK-A63
Lubrication Method	-	Grease Lubrication

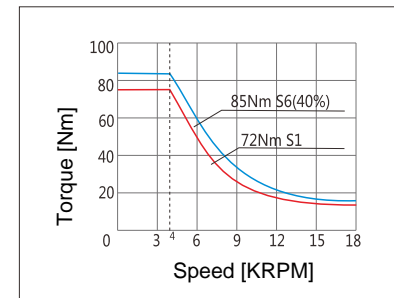
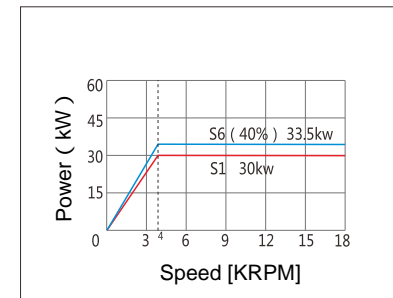
20000rpm-HSK A63 Built-in Type Spindle Power/Torque



## Power and torque diagram of main shaft

Spindle Parameters		
Spindle S6 Torque	Nm	85
Spindle S1 Torque	Nm	72
Spindle Max. Speed	rpm	18000
Spindle Rated Speed	rpm	4000
Spindle Rated Power	KW	30
Taper Specification	-	HSK-A63
Lubrication Method	-	Grease Lubrication

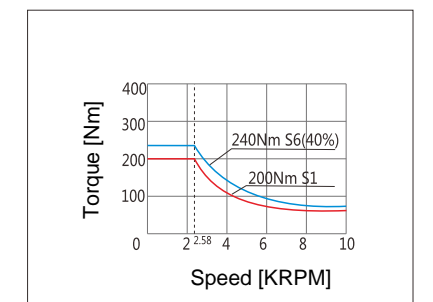
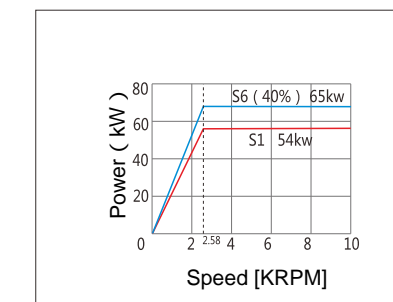
18000rpm-HSK A63 Built-in Type Spindle Power/Torque



F4

Spindle Parameters		
Spindle S6 Torque	Nm	240
Spindle S1 Torque	Nm	200
Spindle Max. Speed	rpm	10000
Spindle Rated Speed	rpm	2580
Spindle Rated Power	KW	54
Taper Specification	-	HSK-A100
Lubrication Method	-	Grease Lubrication

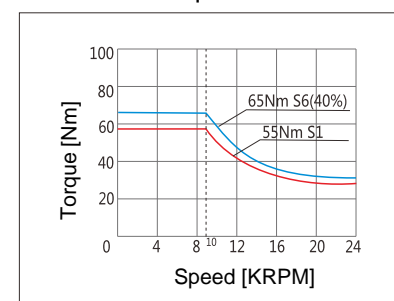
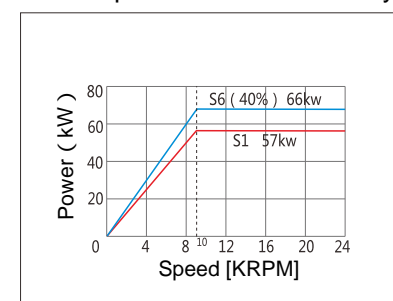
10000rpm-HSK A100 Built-in Type Spindle Power/Torque



F1

Spindle Parameters		
Spindle S6 Torque	Nm	65
Spindle S1 Torque	Nm	55
Spindle Max. Speed	rpm	24000
Spindle Rated Speed	rpm	10000
Spindle Rated Power	KW	57
Taper Specification	-	HSK-A63
Lubrication Method	-	Grease Lubrication

24000rpm-HSK A63 Built-in Type Spindle Power/Torque



F5

Spindle Parameters		
Spindle S6 Torque	Nm	450
Spindle S1 Torque	Nm	350
Spindle Max. Speed	rpm	8000
Spindle Rated Speed	rpm	1910
Spindle Rated Power	KW	70
Taper Specification	-	HSK-A100
Lubrication Method	-	Grease Lubrication

8000rpm-HSK A100 Built-in Type Spindle Power/Torque

