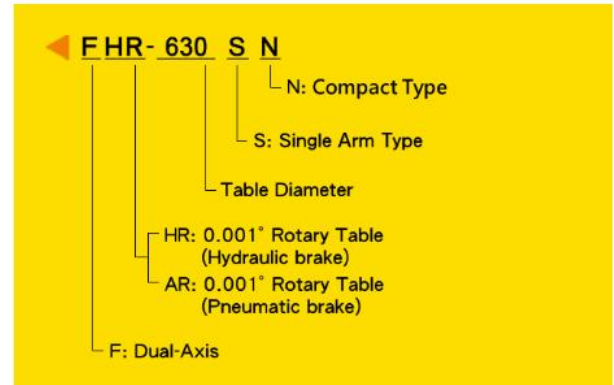


FHR Series(Hydraulic Brake)

Dual-axis single-arm type

FHR-630S FHR-630SN FHR-630SM FHR-400S FHR-650S-525 FHR-650S-550



Item/Model		Unit	FHR-630S		FHR-630SN		FHR-630SM	
Table Diameter		mm	Outer table Ø720 x 600, Inner table Ø500		Outer table Ø650, Inner table Ø500		Outer table Ø650, Inner table Ø500	
Diameter of Table Central Hole		mm	-		-		-	
Inner Diameter of Mandrel Sleeve		mm	-		-		-	
Diameter of Center Through Hole		mm	-		-		-	
Table Height (Horizontal)		mm	-		-		-	
Table T-slot Width		mm	18H7		18H7		18H7	
Guide Block Width		mm	-		-		-	
Axis			Rotation	Tilt (-110°~+60°)	Rotation	Tilt (-110°~+60°)	Rotation	Tilt (-90°~+110°)
Min. Increment		deg.	0.001	0.001	0.001	0.001	0.001	0.001
Repeatability		sec.	4	8	4	8	4	8
Clamping System		kg/cm.	35	35	35	35	35	35
Clamping Torque		kg-m	370	500	370	500	215	500
Servo Motor Model	FANUC	-	α12i	α40i	α12is	α40i	α12is	α40is
	MITSUBISHI	-	HF-204	HF-703S(49Nm)	HF-224	HF-703S	HF-224	-
	SIEMENS	-	1FK7083	1FK7101 / 7103	SIEMENS Designated model	1FK7101 / 7103	SIEMENS Designated model	1FK7101 / 7103
Speed Reduction Ratio		-	1 : 120	1 : 150	1 : 120	1 : 150	1 : 120	1 : 150

Allowable Inertia Load Capacity		kg.cm.sec.	135	158.4	158.4
Allowable Workpiece Load	0° Horizontal	kg	300 (500, if the sub-tailstock is employed)	300 (500, if the sub-tailstock is employed)	300 (500, if the sub-tailstock is employed)
	0°~90° Tilt	kg	-	-	-
Allowable Load (with Rotary Table Clamping)	F	kgf	-	-	-
	FxL	kgf.m	-	-	-
	FxL	kgf.m	-	-	-
Strength of worm gears (Rotary axis)		kg.m	250	250	250
Net Weight (servo motor excluded)		kg	1165	1065	-

Item/Model		Unit	FHR-400S		FHR-650S-525		FHR-650S-550	
Table Diameter		mm	Ø400		Ø650		Ø650	
Diameter of Table Central Hole		mm	Ø150		-		-	
Inner Diameter of Mandrel Sleeve		mm	Ø120H7x200 deep		-		-	
Diameter of Center Through Hole		mm	Ø150		-		-	
Table Height (Horizontal)		mm	-		-		-	
Table T-slot Width		mm	14H7		18H7		18H7	
Guide Block Width		mm	-		-		-	
Axis			Rotation	Tilt (±100°)	Rotation	Tilt (±110°)	Rotation	Tilt (±110°)
Min. Increment		deg.	0.001	0.001	0.001	0.001	0.001	0.001
Repeatability		sec.	4	8	4	8	4	8
Clamping System		kg/cm.	35	35	35	35	35	35
Clamping Torque		kg-m	115	200	370	500	370	500
Servo Motor Model	FANUC	-	α12is	α22i (Straight)	α12is	α40i (Straight)	α12is	α40i (Straight)
	MITSUBISHI	-	HF-154	HF-354S (Straight)	HF-204	HF-703S (Straight)	HF-204	HF-703S (Straight)
	SIEMENS	-	1FK7063	1FK7101	1FK7068	1FK7103	1FK7083	1FK7103
	HEIDENHAIN	-	QSY-130E	QSY-155B	QSY-155C	QSY-190D	QSY-155C	QSY-190D
Speed Reduction Ratio		-	0,125	0,14583	0,125	0,14583	0,125	0,14583
Max. Rotation Rate of Table (Calculate with FANUC α Motor)		r.p.m	25	13.map	25	13.map	25	13.map
Allowable Inertia Load Capacity		kg.cm.sec.	44		158.4		158.4	

Allowable Workpiece Load	0° Horizontal	kg	220	300 (500, if the sub-tailstock is employed)	300 (500, if the sub-tailstock is employed)
	0°~90° Tilt	kg	120	-	-
Allowable Load (with Rotary Table Clamping)	F	kgf	1800	-	-
	FxL	kgf.m	200	500	500
	FxL	kgf.m	115	370	370
Net Weight (servo motor excluded)		kg	482	1120	-