

For horizontal machining centers

RWB-K

RWB-250K • 320K • 400K • 500K

RNCK

RNCK-631

Flagship model with highest-class specifications exclusively for horizontal machining centers. A popular for the aircraft, automobile and cutting tool industries. A larger through-bore size enables more ports number of rotary joint than previous model.



Unit: mm

Specifications

		RWB-250K	RWB-320K	RWB-400K	RWB-500K	RNCK-631	
Table diameter		φ 250	φ 320	φ 400	φ 500	φ 630	
Center height		160	210	255	310	400	
Center bore	Nose diameter	φ 105	φ 150	φ 200	φ 220	φ 60H6	
	Through-bore	φ 80	φ 120	φ 160	φ 182	φ 60	
Table T-slot width*1		12H7	14H7	14H7	18H7	18H7	
Guide block width		18h7	18h7	18h7	18h7	18h7	
Servo motors(for FANUC)		α iF8	α iF12	α iF12	α iF12	α iF12	
Inertia converted into motor shaft	× 10 ⁻³ kg·m ²	1.27	3.53	4.63	4.25	5.55	
Net weight	kg	130	250	370	590	800	
Speed reduction ratio		1/90	1/120	1/120	1/180	1/180	
Table max. rpm	min ⁻¹ (Motor rpm: 2,000min ⁻¹)	22.2	16.6	16.1	11.1	11.1	
Indexing accuracy (the sum)	sec	14	14	14	14	15	
Clamp system		Hydraulic or air-hydraulic*2	Hydraulic or air-hydraulic*2	Hydraulic or air-hydraulic*2	Hydraulic or air-hydraulic*2	Hydraulic or air-hydraulic*2	
Clamp torque /Hydraulic pressure 3.5Mpa	N·m	1,300	3,100	5,500	7,600	4,410	
Strength of worm gears	N·m	1,011	2,127	3,958	5,601	4,116	
Allowable work weight	Vertical setting	kg	175	250	300	600	400
	Vertical setting (with tailstock)		350	500	600	1,200	800
	Vertical setting (with SSB)		900	1,500	1,800	3,600	—
Allowable load (when table is clamped)	F	N	35,000	89,000	109,000	240,000	49,000
	F×L	N·m	1,300	3,100	5,500	7,600	4,410
	F×L	N·m	1,500	5,300	7,800	17,000	7,840
Allowable work inertia	$J = \frac{W \cdot D^2}{8}$	kg·m ²	7	19	36	112	49.6

Servo motors of other manufacturers **P.66**

* 1 The tolerance of the table T-slot width is applicable to four standard slots arranged crosswise. * 2 Option
For tables with a diameter of 800 or more, please order a big bore type of the following models:

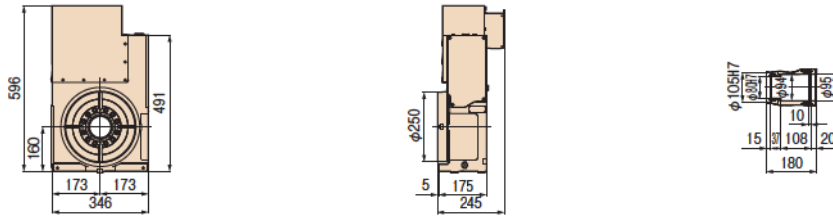
Tables diameter	Model	Center bore	Specifications
φ 800	RCV-800 (Upper class motor)	φ 360	P.26
φ 1000	RCV-1000 (Upper class motor)	φ 410	P.26
φ 1250	RCV-1250 (Upper class motor)	φ 500	P.26

Note: For the RNCK-631, a basic model (for vertical machining centers) is also available. (for standard bore)

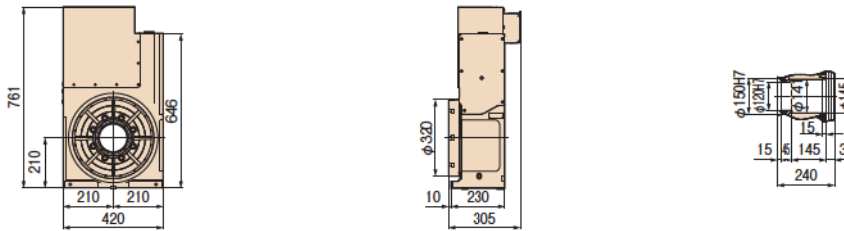
Dimensions

Unit: mm

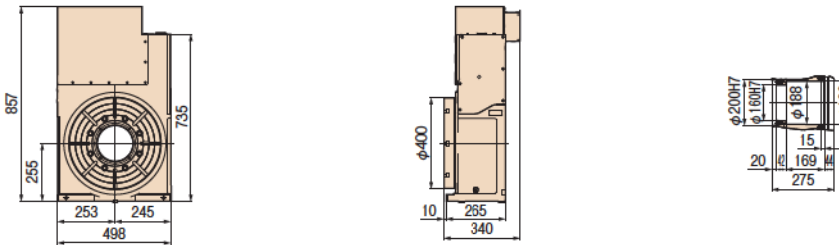
RWB-250K



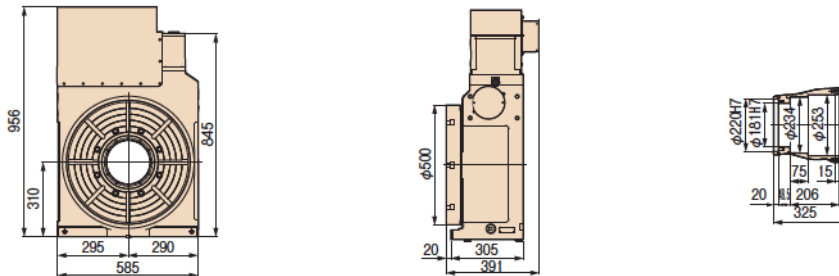
RWB-320K



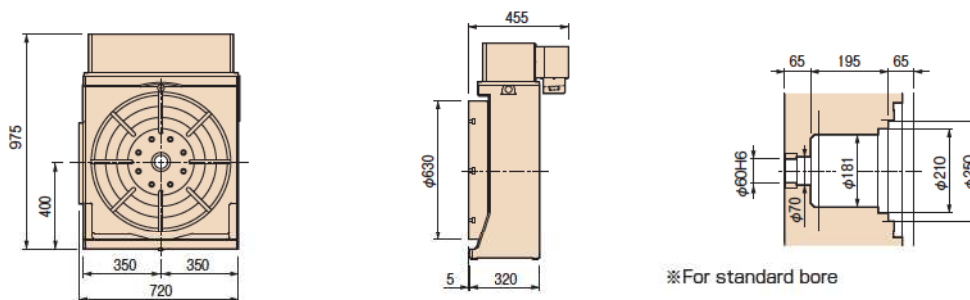
RWB-400K



RWB-500K



RNCK-631

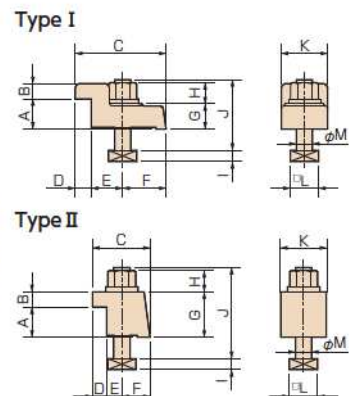


※For standard bore

Clamping block and bolt

	Type	Q'ty	T-slot pitch	T-slot width	A	B	C	D	E	F	G	H	I	J	K	L	M
RWB-250K	I	4	50~125	18	25	12	80	12	33	35	22	21	11	65	40	28	16
RWB-320K	I	4	73~162	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RWB-400K	I	4	73~160	18	30	15	90	16	31	43	25	21	11	70	46	28	16
RWB-500K	I	4	73~200	18	40	20	110	18	42	50	25	21	11	70	46	28	16
RNCK-631	II	4	100~255	18	40	18	63	18	15	30	58	21	11	105	60	28	16

Note: When using a machine with a T-slot pitch other than the above, use suitable clamping blocks and bolts that are available on the market, or order custom-made ones from TSUDAKOMA. (Option)



RBS

TBS

RWE/RWA
RN

RWE/RWA-B
RNCV-B

RNCM

RWB

RWB-K
RNCK

RCH

RNC

RCV

RNCV

Multi-Spindle

RWM

TWA/TN

TTNC

THNC

Multi-Spindle

TWM

RDS

RTV

RTT

RCB

NC Controllers

Accessories

Options

Technical Information