RBS

RBH

RBM

TBS

RWE/RWA

RWH

RWA-B RNCV-B

RWB

RWB-K RNCK

RCB

RCH RNC

RCV

RWM

TWA/TN

Multi Spindl

TWM

RDS

RTV RTT

TDS TDB

NC Controllers

Accessories

Options

Technical Information

# Single axis NC controllers equipped with advanced functions for M-signal

Single axis NC table controllers that operate by means of M-signals from the machining center. Operation can be programmed by machining center under "Remote mode + M" specification.

For small-sized rotary tables

# TPC-Jr K2/K3

Single axis NC controllers that operate smallsized TSUDAKOMA NC rotary tables by means of M-signals from machining center.

TSUDAKOMA rotary tables equipped with supercompact AC servo motors are the most compact among similar models.

Operation can be programmed by machining center. With "Remote mode + M" specification

(Parameter change) P.52

\*\*Corresponding to Cable option

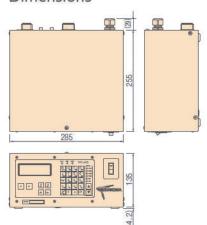


## Applicable models

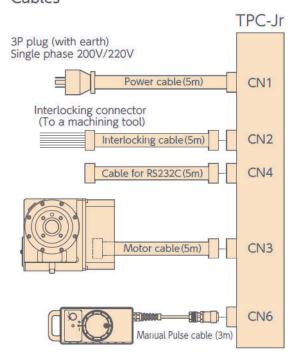
	K2	КЗ
RN-100	•	
RWE/RWA-160	•	
RWE/RWA-200		•
RWA-250*		
RWA-320*		•
TWA-100	•	
TWA-130	•	
TWA-160	•	
TWA-200		•
TWM-100*	•	
TWM-160*		•
TBS-130	•	
TBS-160	● (R)	● (T)
TDB-200		● (T)

\*Table maximum rotation speed is limited.

#### **Dimensions**



#### Cables



Note: The cable for RS232C is an optional item. Note: Manual pulse generator is an optional item.

# TPC-Jr FUNCTIONS



#### **OPERATION MODE**

**AUTO** AUTO:

Automatic operation by an M signal from the machining center.

SINGLE SINGLE:

Single operation of TPC-Jr. By pressing ST , positioning is performed once.

CHECK CHECK :

Block number call, program check and

self-diagnosis.

PROG Program mode :

For inputting and editing the program.

MDI mode

For setup operation. Ten blocks of programs

003/004

005/006

007/008

009/010

011

012

013

can be carried out.

JOG mode :

For manual feed and step feed.

■ HANDLE Handle mode :

Manual pulse operation.

## Program edit keys

Workpiece No. (Program No.)
0000 to 9999
100 programs registerable

N Block No. 000 to 999

Go to G4: Movement command G5 to G9: Assistance function

Fo: Rapid positioning speed F1 to F9: Cutting feed rate

R Assistance code for codes

Travel distance command (angle, divided number)
Block No./Sub-program No.

Dwell time

Completion signal selection

G-code		R-code		heta -code	
No.	Command	No.	Command	Command	Setting
G0	Direct angle command	001 to 999	Number of Repetition (INC command)	Command angle	±000.001° to 999.999°
	200 CO	000	(ABS command)	Command angle	±000.000° to 360.000°
G1	Direct indexing number command	001 to 999	Number of repetitions	Number of divisions for 360°	±1 to 999999div.
G2	Arc-indexing number command	001 to 999	Number of divisions, Number of repetitions	Arc-angle indexed	±000.001° to 360.000°
G3	Lead cutting command	000 to 100	Number of table rotations	Command angle	±0° to 360.000°
G4	Zero point return command	000	1st zero point return (mechanical zero point)	Not required	
		001	2nd zero point return		
		002	3rd zero point return		
G5	Sub-program call command	001 to 999	Number of repetitions	Sub-program No.	0000 to 9999
G6	Subprogram return command	Not required		Not required	
G7	Program end command	Not required		Target address	000 to 999
G8	Workpiece coordinate system setting command	Not required		Reference coordinate	±0° to 360.000°
G9	Declaration command	000	No operation	Not required	
		001/002	Clamp OFF/ON		

Indexing group control OFF/ON

Directional positioning OFF/ON

Completion signal control command OFF/ON

Program display selection command

Current position display selection command

Remaining angle display selection command

Dowel OFF/ON

RB5

RBH

Multi-Spindle

TBS

RWE/RWA

DIAZLE

RWH

RWA-B RNCV-B

RWB

RWB-K RNCK

RCB

RCH

RCV

Multi-Spinole RWM

TWA/TN

TWB TTNC

TWM

RDS

RTV RTT

TDS TDB

NC Controllers

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Technical Information

000 to 999 (×10m sec)

Not required

Not required