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

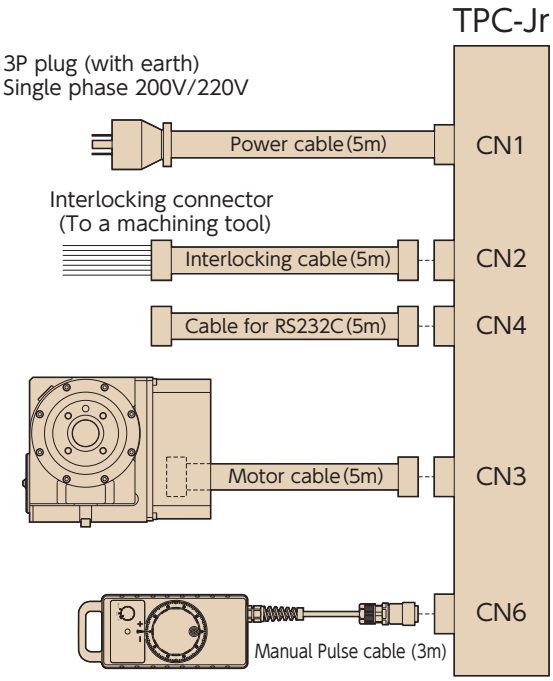
- Single axis NC controllers that operate small-sized TSUDAKOMA NC rotary tables by means of M-signals from machining center.
- TSUDAKOMA rotary tables equipped with super-compact AC servo motors are the most compact among similar models.
- Operation can be programmed by machining center.
  With "Remote mode + M" specification (Parameter change) ☞ P.52
  ※Corresponding to Cable option

Applicable models

	K2	K3
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)

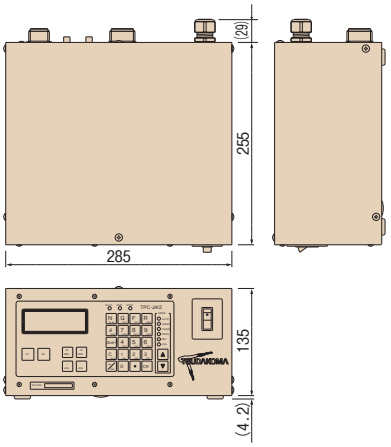
＊Table maximum rotation speed is limited.

Cables



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

Dimensions



TPC-Jr FUNCTIONS

Operation panel

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 MDI mode :
For setup operation. Ten blocks of programs can be carried out.

JOG JOG mode :
For manual feed and step feed.

HANDLE Handle mode :
Manual pulse operation.

Program edit keys

2nd·F + N W No. Workpiece No. (Program No.)
0000 to 9999
100 programs registerable

N W No. Block No.
000 to 999

G PRO Operation command
G0 to G4: Movement command
G5 to G9: Assistance function

F POS Feed rate select command
F0: Rapid positioning speed
F1 to F9: Cutting feed rate

R REM Assistance code for codes

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

G-code		R-code		θ-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°
		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		
		003/004	Dowel OFF/ON	Dwell time	000 to 999 (×10m sec)
		005/006	Indexing group control OFF/ON	Not required	
		007/008	Directional positioning OFF/ON		
		009/010	Completion signal control command OFF/ON	Completion signal selection	
		011	Program display selection command	Not required	
		012	Current position display selection command		
		013	Remaining angle display selection command		