DAIHEN Achieved High-quality Polishing by Robotization of Polishing Operations

Polishing Robot System

Problems at the polishing work site

- Lack of manpower without fixing young workers
- The finish changes depending on the worker and the quality is unstable

Grinding robot contributes to productivity improvement

- Load control provides a stable finish with uniform polishing marks
- Automation from roughing to finishing with a single robot

Equipped with dedicated command for grinding and polishing

• Simple input of machining conditions from the teach pendant with numerical values (pressing force, spindle rotation speed, etc.)







	200 cm/m LIN A8PT1
3	100 % JOINT A8P T1
4	CTS[C1, OFF, 12000r/min, FWD, 100cm/m, 00, 00, -
5	200 cm/m LIN A8 T1
6	SHIFTR[1, 1, R1, 10000] FN52;シフト
7	200 cm/m LIN A8 T1
8	200 cm/m LIN A8 T1
9	SHIFTR[0, 1, R1, 10000] FN52; シフト
10	200 cm/m LIN A8P T1
11	CTE[C1, 0FF, 0. 0sec, 0. 0sec] FN466;研制
12	100 % JOINT A8 T1
13	5.0 % JOINT A8 T1

🕶 CTS 研削・バリ取	り開始	2/3	UNIT1
研削・パリ取りツール	1:DEBURR01 Start		
先行処理種別	●時間 ○距離		
プリフロー時間			
冷却用エア	0.0sec		
先行処理時間			
起動シーケンス	0.0sec		
安定待ち時間	0.0sec		- Contraction -
制御モード	○押付位置 ◎押付力		~
押付力	-10.0N		
押付位置	0.00 mm		S.
研削種別	0		~
			<u></u>
? 先行処理の設定額			
]	書き込み

Teaching screen

Grinding condition setting

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Polishing Robot System

Uniform finish with slope control

- Push force and rotational speed can be changed gradually
- Adjustable and uniform polishing according to bead shape

Shorten teaching time with pattern operation function

- Teach how to move a grinder in a zigzag or circular arc
- Simple teaching by simply setting the stitch width and pattern operation

Automatic generation of multiple paths for planes and curved surfaces

- Multiple paths are automatically generated by only teaching the outline and specifying the pitch.
- Can reduce teaching time for grinding flat surfaces



