

Polishing Robot System

Challenges in polishing work sites

- 3K work is not attracting young workers and there is a shortage of manpower.
- Quality is unstable, depending on the operator.
- Impact on workers due to working environment (dust, heavy workload)

Polishing Robot Contributes to Productivity Improvement

- Uniform polishing grain and stable finish are achieved by load control.
- Automation from roughing to finishing with a single robot

Equipped with dedicated grinding and **polishing instructions**

• Easy numerical input of machining conditions from teach pendant (pushing force, spindle rotation speed, etc.)





	200 cm/m LIN A8PT1		2/3 UNIT1
3	100 % JOINT A8P T1	 研問・バリ取りシール 「DEBURRUT Start 先行処理種別 ●時間 ○距離 	
4	CTS[C1, OFF, 12000r/min, FWD, 100cm/m, 00, 00, -	7 [*] リフロー時間 冷却用エア 0.0 sec	
5	200 cm/m LIN A8 T1	先行処理時間	
6	SHIFTR[1, 1, R1, 10000] FN52; シフト	起動	¢,
7	200 cm/m LIN A8 T1	制御モード 0押付位置 ●押付力 押(けつ -10.0N	*
8	200 cm/m LIN A8 T1	押付位置 0.00 mm	- Contraction -
9	SHIFTR[0, 1, R1, 10000] FN52; シフト	研削種別0	\otimes
10	200 cm/m LIN A8PT1		
11	CTE[C1, OFF, 0. Osec, 0. Osec] FN466;研削		
12	100 % JOINT A8 T1		
13	5.0 % JOINT A8 T1	「「一」「一」「「一」「「「「」」」「「「」」「「」」「「」」「「」」「」」「「」」「」」	書き込み

Teaching screen

Grinding condition settings



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





Robot With Built-in Cable FD-B100

High portability and built-in cable

- Suitable for handling applications with a 100kg of portable weight
- Built-in cable prevents interference and large degree of freedom in robot posture

High-density installation possible

- Interference between robots is also suppressed with a built-in cable
- **Optimum Arm Structure Design for Slim**

High dust and water resistance

• We compliant with Wrist axis: IP65, base axis: IP54, usable in dusty environments

