

Grinding Robot System

Challenges in polishing work sites

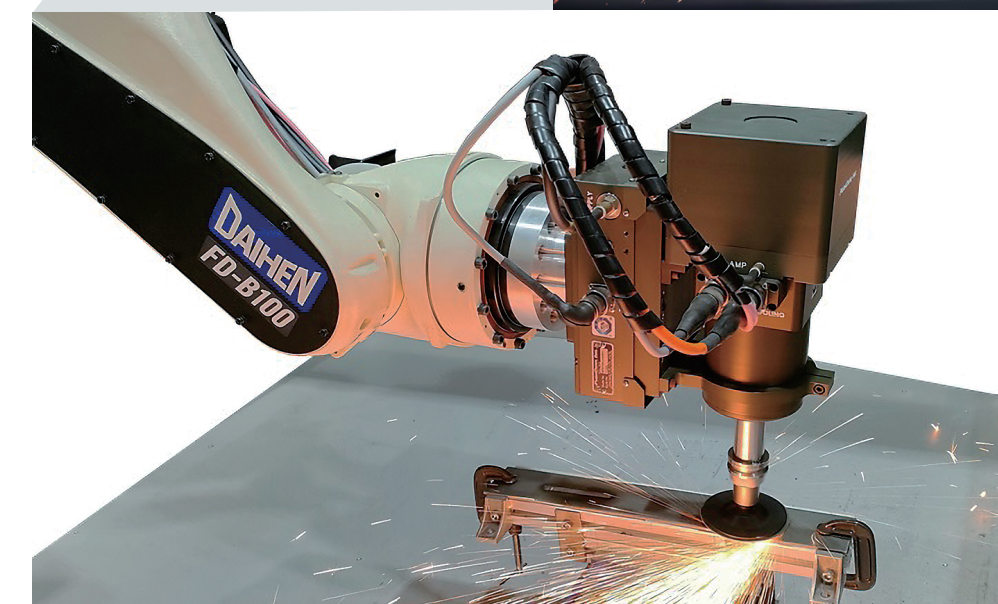
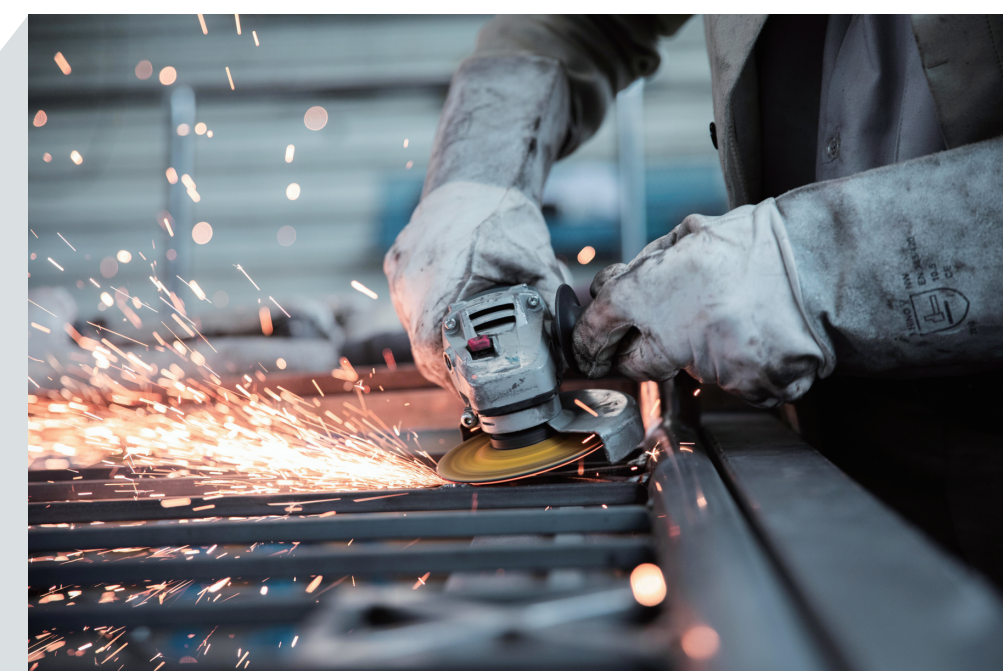
- Young workers are not staying, leading to labor shortages
- Finish varies by operator, leading to unstable quality
- Impact on workers due to labor environment (dust, heavy labor)

Contributing to increased productivity with polishing robots

- Achieves uniform, stable finishes with consistent polishing marks through load control
- Automation from rough grinding to finishing with a single robot

Equipped with dedicated commands for grinding and polishing

- Easy numerical input of machining conditions via the teach pendant (Pressure force, spindle rotation speed, etc.)



3	200	cm/m	LIN	A8P	T1	
4	100	%	JOINT	A8P	T1	
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, OFF, 0.0sec, 0.0sec]					FN466: 研削
12	100	%	JOINT	A8	T1	
13	5.0	%	JOINT	A8	T1	

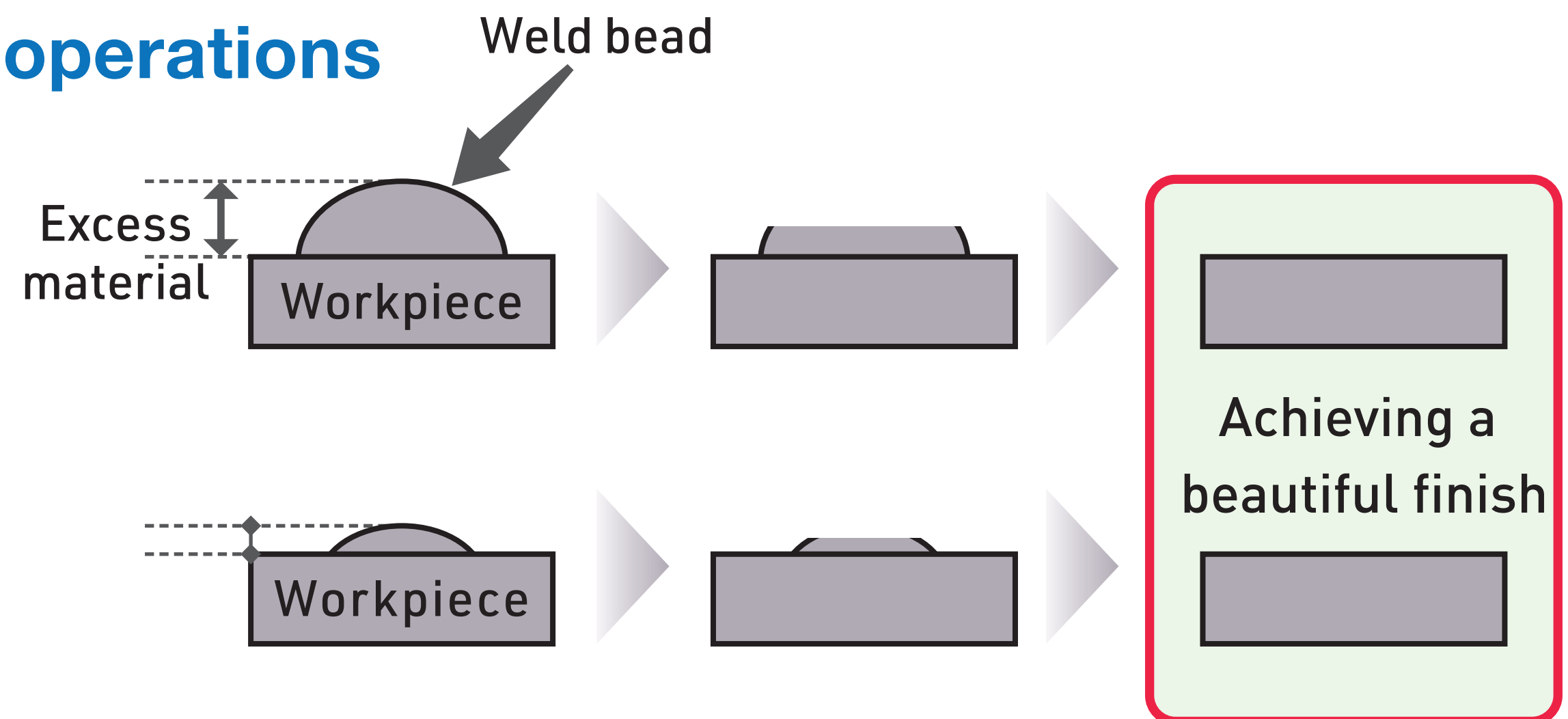
Teaching screen

Grinding condition setting

Grinding Robot System

Challenges in automating grinding operations

- Requires detailed processing conditions based on excess height
- Teach-in correction required for each workpiece's distortion



Stable quality with automatic correction

- Detects weld bead excess height
- Automatically switches to optimal processing conditions for grinding

Adapt to individual workpiece variations

Reduce rework labor

- Grinding while following the weld bead position
- Automatically corrects workpiece distortion and misalignment

