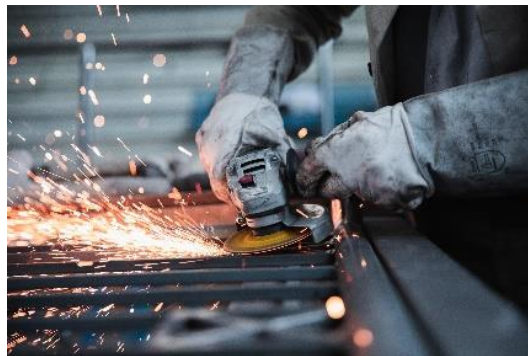


Reducing Manual Labor in Post-Weld Processing

Grinding and Polishing Robot System

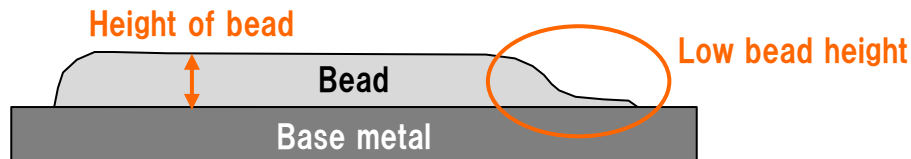
- Manpower shortage
- Variations in quality due to workers
- Work environment (dust, heavy work)



Daihen's polishing robot system solves!

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

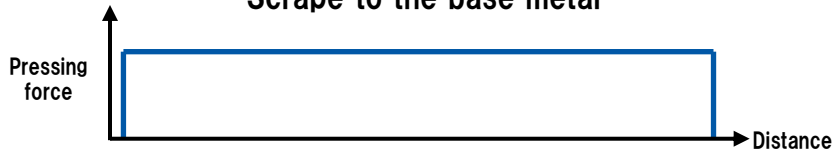
You can adjust machining conditions to match the bead height
→ Achieves uniform polishing finish



[Conventional] Pressing force constant



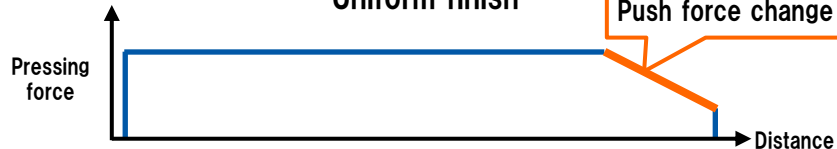
Scrape to the base metal



[New Functions] Push force change

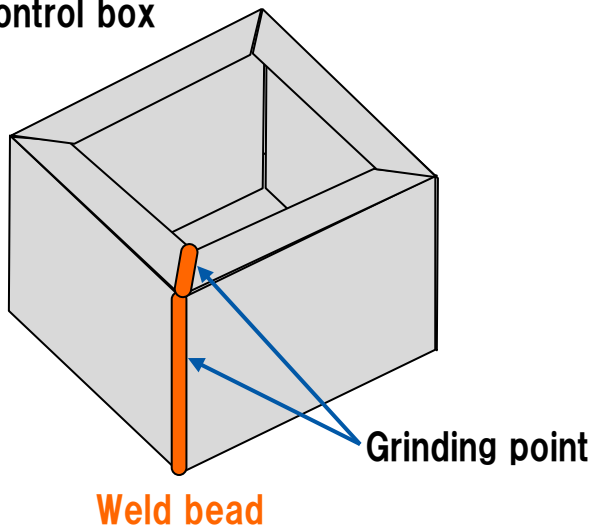


Uniform finish



- ① By roughing the weld bead of the square joint
- ② Tool change and finish polishing

Control box

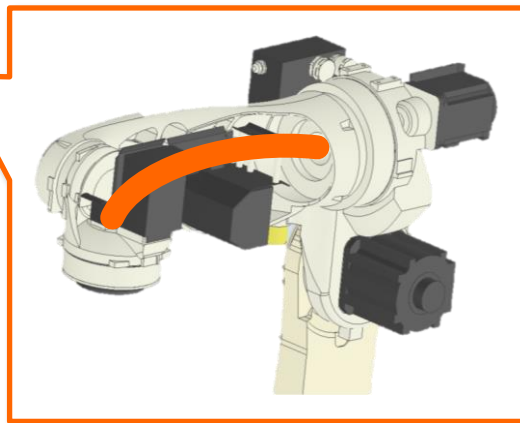


Workpiece	
Dimensions	150×150×100 mm
Material	Iron (SPCC) , plate thickness 3.2 mm
Bead shape	Height 3 mm, Width 7 mm

	Polishing conditions	
	Weld bead grinding	Finish polishing
Rotational speed	10,000 rpm	
Feed speed	70~120 cm / portion	120 cm / portion
Pressing force	5~25 N	10 N
Abrasive yarn count	#60	#180

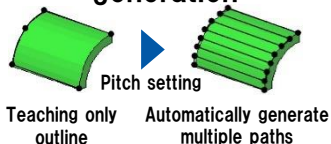
100 kg Transportable Hollow-Structure Handling Robot FD-B100

- Built-in cables in hollow-structure arms
Avoid interference with peripherals
- High dust and water resistance
Wrist axis: IP65, Basic axis: IP54



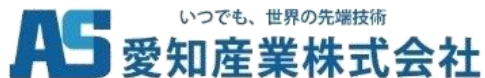


Multi-path automatic generation



Reduced number of teaching points
(Ex) 16 points → 5 points

Robots equipped with dedicated teaching support functions for polishing and grinding



With load control device
Grinding tools
(Made in PUSHCORP, USA)

Aichi Industries is a domestic distributor of
PUSHCORP Corporation



Robotics & Automation 



Abrasives with high abrasive strength and long life



Hairline finish on car side panels



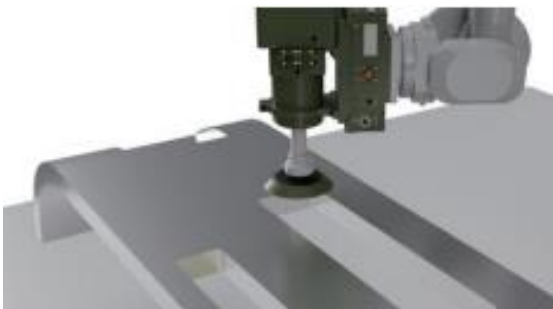
Automotive B-pillar brazing polishing



Scratch removal/polishing of steel plate



Removal of slabs and gas cutting



Sanding of truck bumpers



Polishing of stainless steel containers

Provided by Aichi Sangyo Co., Ltd.

Daihen's robotic system helps reduce heavy labor in post-weld processes

DAIHEN