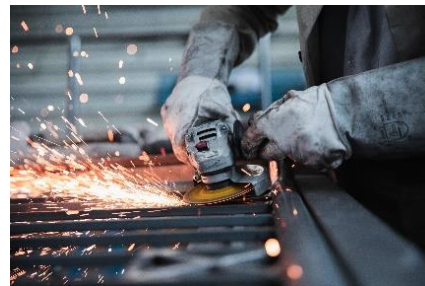




# Stable Quality Polishing with One Robot from Rough Cutting to Finishing

**Robot System for Polishing**

- Labor shortage due to lack of young workers
- The finish changes depending on the worker and the quality is unstable

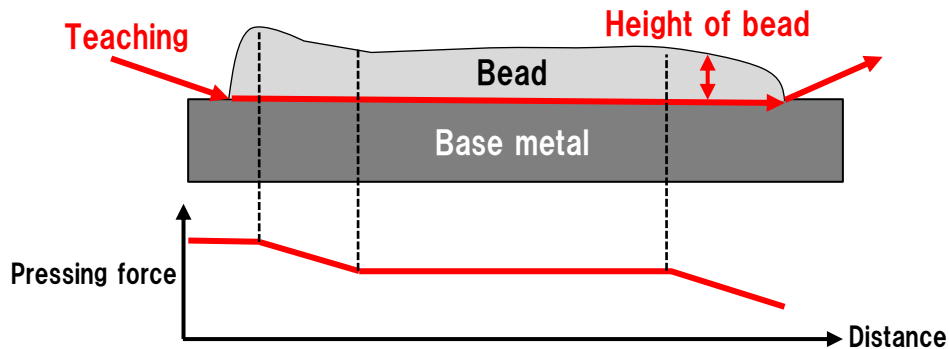


## DAIHEN's polishing robot system solves!

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

## Pressing force during robot operation can be changed Stable finish with uniform polishing marks

<For weld bead grinding>



Easy setting of machining conditions from the teach pendant



Low bead height

**【Conventional】** Pressing force constant



**BAD**

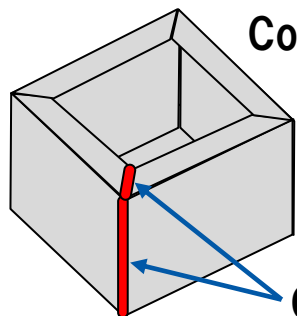
Scrape to the base metal

**【New Functions】** Push force change



**GOOD**

Uniform finish



## Control box

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

Grinding point

Weld bead

## Workpiece

Dimensions : 150×150×100mm  
Material: Steel (SPCC) ,Thickness 3.2mm  
Bead shape: excess 3mm、 width 7mm

## Polishing conditions (bead grinding)

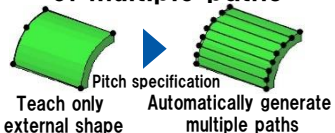
Speed: 10,000rpm  
Feedrate: Top:70cm/min、 Side:100cm/min  
Push force: 15N  
Polishing material: 3M's TS disc 982C 60+

## Polishing conditions (finish polishing)

Speed: 10,000rpm  
Feedrate: 120cm/min  
Push force: 10N  
Polishing material: 3M's TS Metacon AM #180



Automatic generation  
of multiple paths



Reduce teaching points  
(Ex) 16→5

Robot with teaching  
support function dedicated  
to polishing and grinding

いつでも、世界の先端技術  
**AS** 愛知産業株式会社



Grinding tool with load  
control device

(Made in the USA by PUSHCORP)

Aichi Sangyo is the exclusive domestic  
agent for PUSHCORP products

**3M**



High abrasive power and  
long life abrasive material



**Vehicle side plate hairline finish**



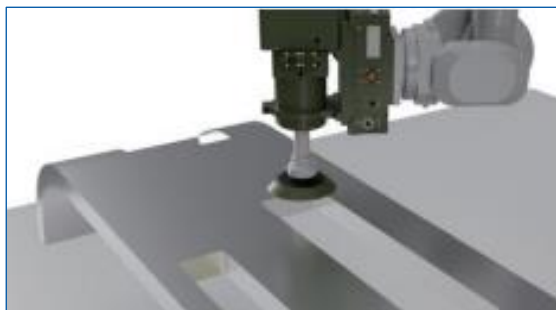
**Automotive B pillar brazing polishing**



**Scratch removal/polishing of steel plate**



**Slag removal for thick plate/gas cutting**



**Truck bumper sanding**



**Polishing stainless steel containers**

Provided by Aichi Sangyo Co.,Ltd.

**Daihen's robot system can help you automate your polishing work.**

**DAIHEN**