



Highly efficient automation of TIG welding using  
a highly accurate collaborative robot

# Highly efficient TIG welding system using collaborative robot

## Tasks of automating TIG welding

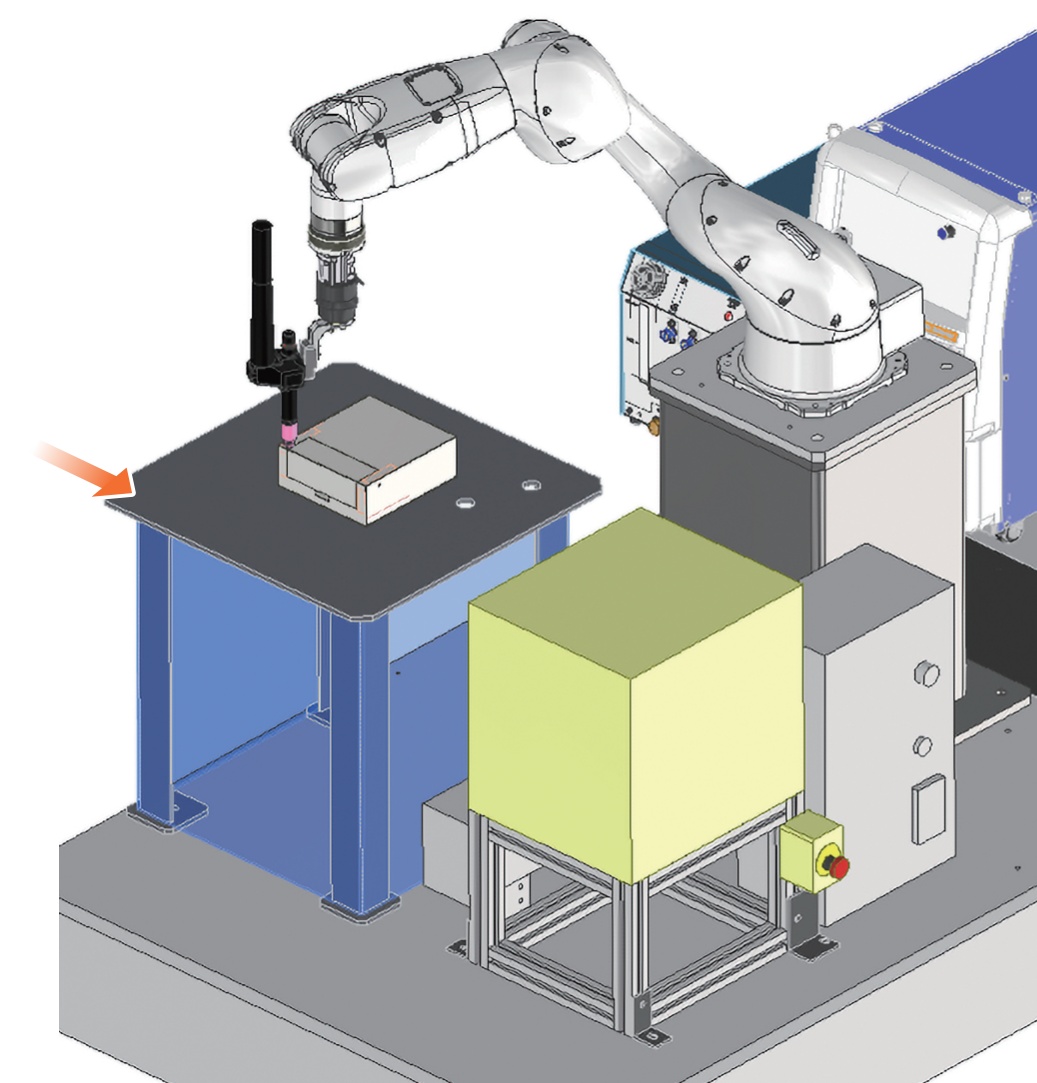
- A large space is required to install an automation system.
- Slow welding speed
- Electrode replacement requires a lot of work

## The best collaborative robot for welding

- The highest quality welding by High-precision trajectory
- Noise resistance applicable to TIG welding
- DAIHEN's numerous welding applications can be used

## Significant improvement in production efficiency

- We will achieve no need for safety fences, space saving
- With Plasma Jet TIG, the welding speed is 3 times faster than before
- Automatic electrode replacement device reduces operation time by 320 hours per year



FD-VC4



Plasma Jet TIG



## Automatic electrode polisher TS-Sharpener

### Release from line stoppage

- Eliminates electrode replacement delays and significantly improves productivity
  - Automated electrode **grinding** and replacement
- Reduced** annual working hours by **320H!**

Number of exchanges	Working hours
16 times/day	320h/year

[Electrode replacement time] 5 minutes / 1 time

### Can be introduced at any site

- **Simple design saves space**
- Easy Maintenance
- Compatible with a wide range of electrode diameters
- Easy adjustment of electrode grinding angle

