

# SOLUTION



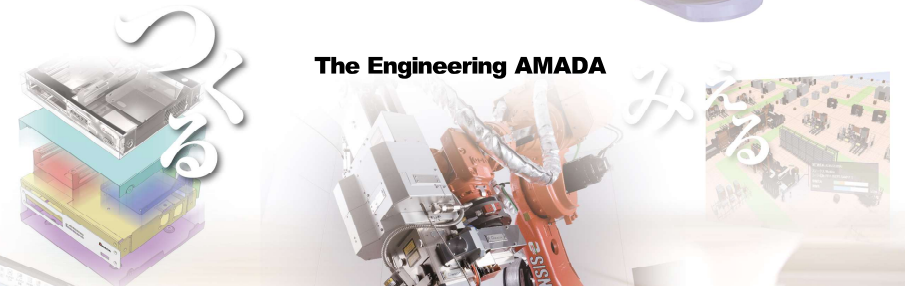
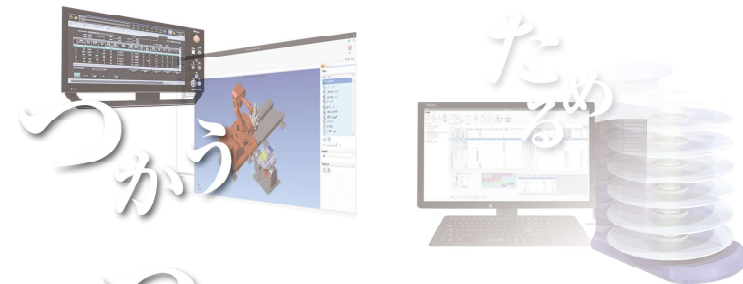
CAM for Fiber Laser  
Welding Systems

# VPSS 4i<sub>2</sub>


WELD



The Engineering AMADA



The Engineering AMADA

 Please read the "Instruction Manual" carefully before use to ensure safety and proper operation.

\*The specifications, appearance and equipment are subject to change without notice.  
\*For details on the operating environment, please consult your sales representative.  
\*The functions may be limited depending on the specifications of the processing machine.  
\*The specifications in this catalog are for Japan.

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Inquiries



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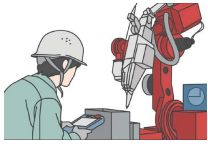
# CAM for fiber laser welding systems

## Software simplifies the welding setup process

Welding data including robot motion is created by process verification based on the 3D model. This greatly reduces the manual robot teaching operation of the welding system. Welding operations relying on skilled operators can be examined by VPSS 4ie WELD, allowing all programming data to be created offline, eliminating defective products on site.

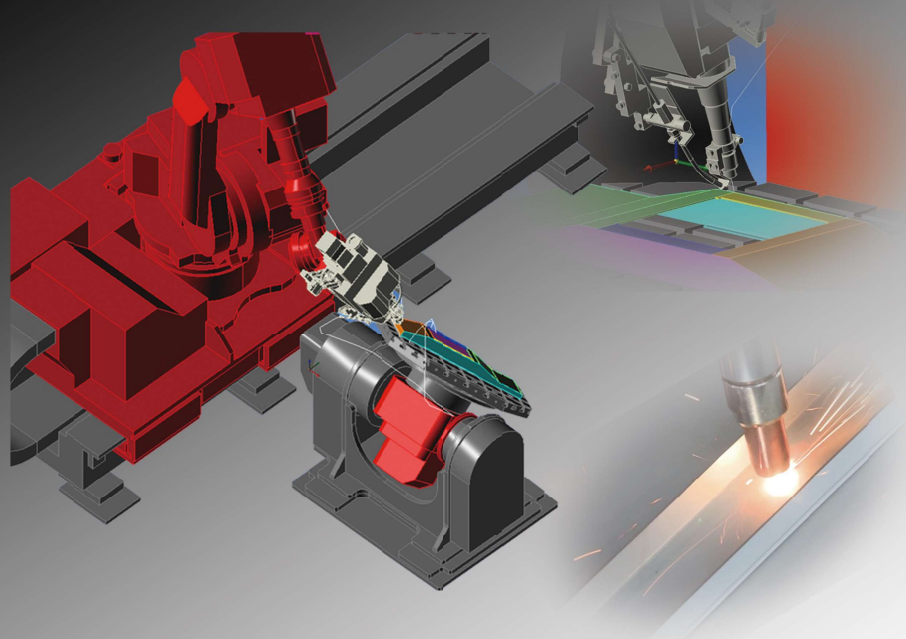
### Before

It took a lot of time to set up because onsite teaching was required, stopping machine operation.



### After

Off-line teaching is possible using 3D models while machine is running.



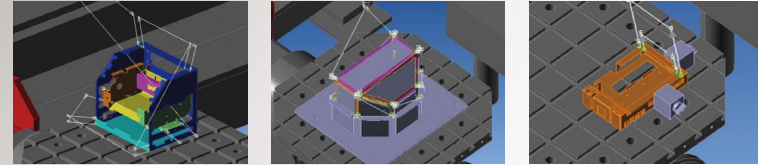
CAM for Fiber Laser Welding Systems

**VPSS 4ie** WELD

### VPSS 4ie WELD features and functions

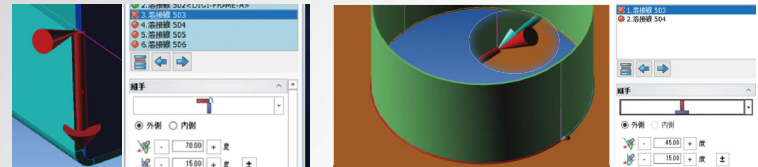
#### •Realistic processing simulation

Based on set welding conditions and setup information, programs are created with all the necessary robot motions. This greatly reduces workload of welding operators.



#### •Easy off-line teaching

Recognizes the weld joint shape and automatically sets the optimum torch angle.



#### •Collision check

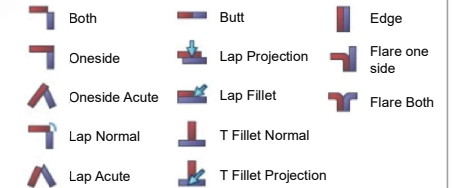
The robot program runs and checks for any collisions with the part and location jigs.



- Reachable and collision-free
- Warn icon on robot path upon detection of collision
- Icon displayed if there is an error that prevents stable simulation, such as over travel movements.

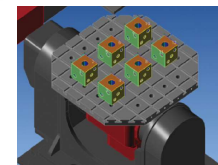
#### •Selection of joint shape according to welding instructions

Many types of weld joint shapes are available.



#### •Setup for multiple products

Easily create a program to process multiple parts in one set up.



#### •Form output

Dedicated form for fiber laser welding can be used for external setup and processing instructions.

