

Twin Arc-laser Hybrid Welding System

Challenge of high-speed welding

- Improvement of welding speed is required for productivity improvement.
- High-speed welding makes it difficult to cope with gaps and secure the amount of welding.

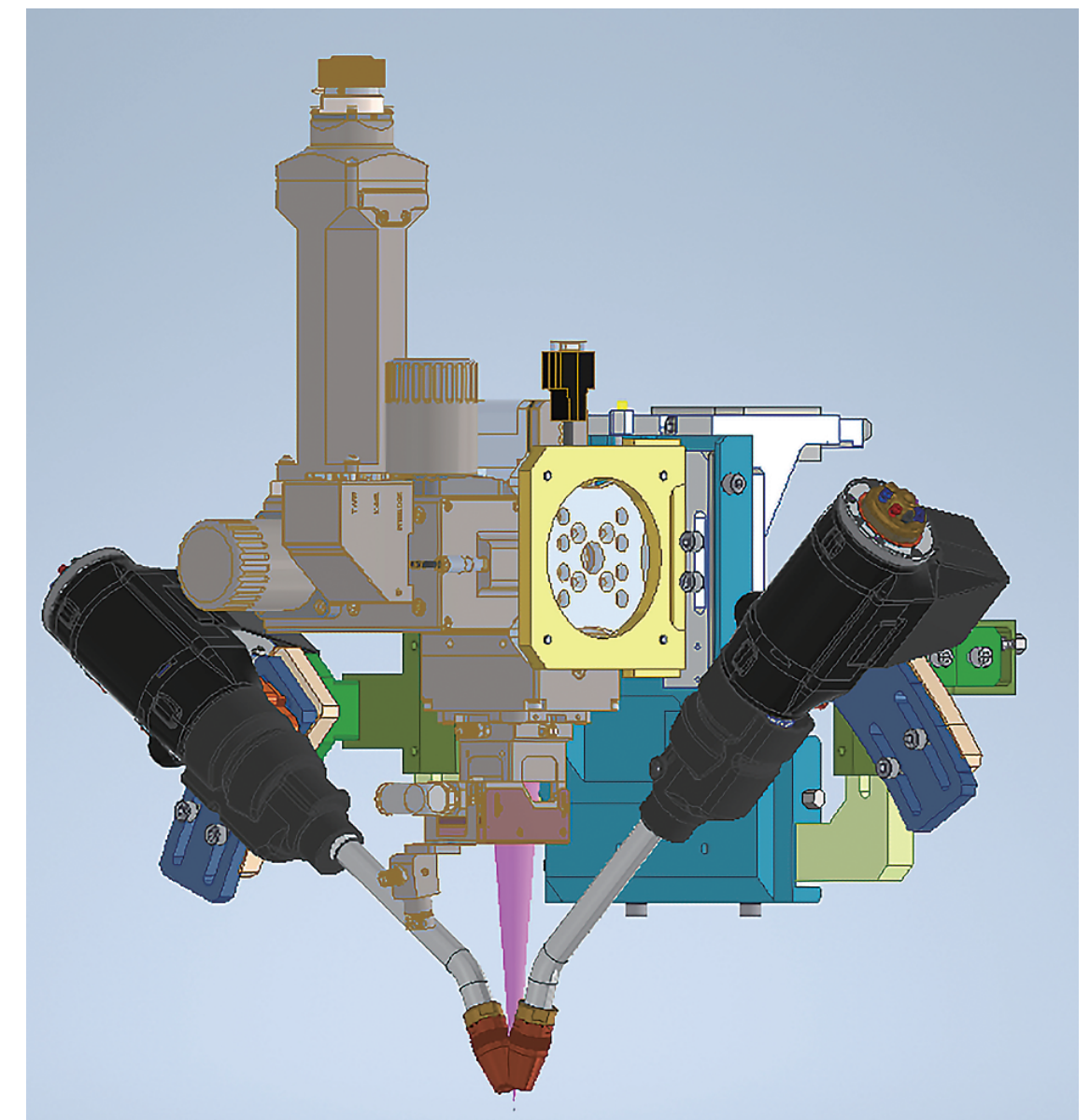


High-speed welding by laser welding

- Keyhole Welding with Laser Heat Concentration
- Ultra-high-speed welding of 10m/ content, which is not possible with arc-welding

Ensuring Welding Amount by Twin Arc Welding

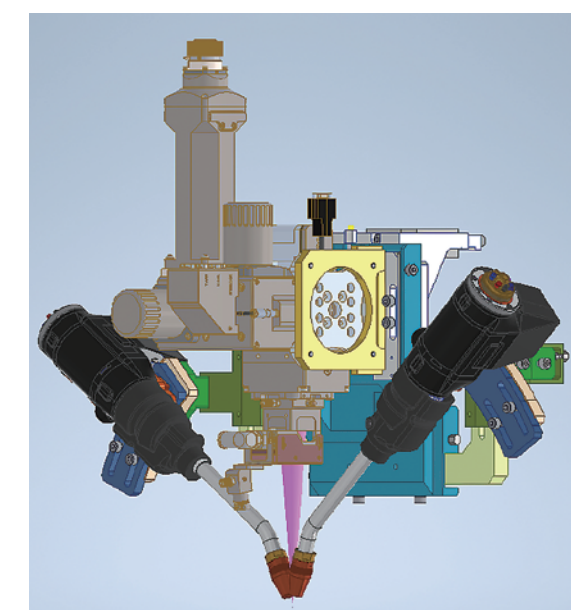
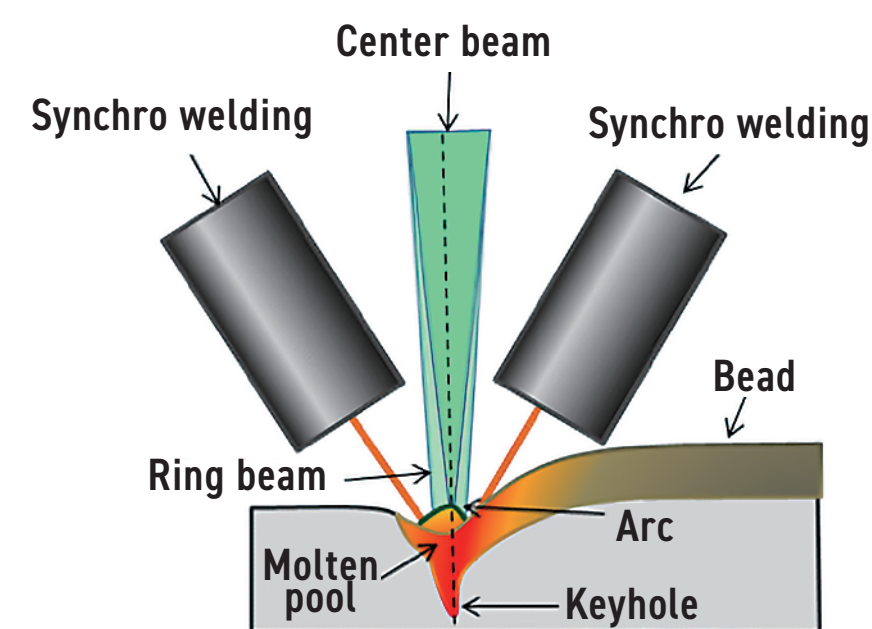
- Increase of welding quantity by twin arc welding
- Increased gap tolerance through heat input control



Twin Arc-laser Hybrid Welding System

Ultra high-speed weld for 10m/

- Deep penetration by laser
- Increased gap margin by securing extra space with a twin arc
- **New hybrid-type Head** with improved shielding



Beam variable mode laser

- Deep penetration by center beam and suppression of sputtering by ring beam are realized.
- Stabilizing the molten pool during high-speed welding with the preheating effect of the ring beam and reducing spatter

