

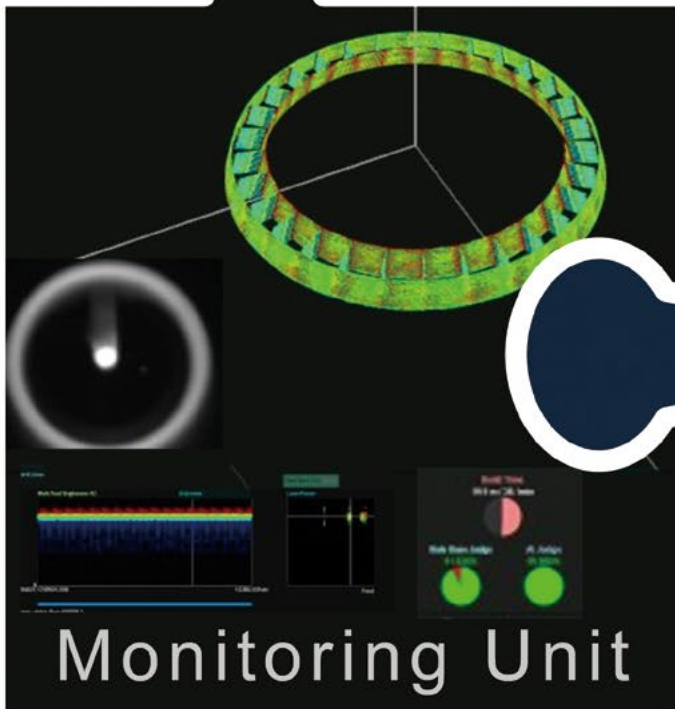
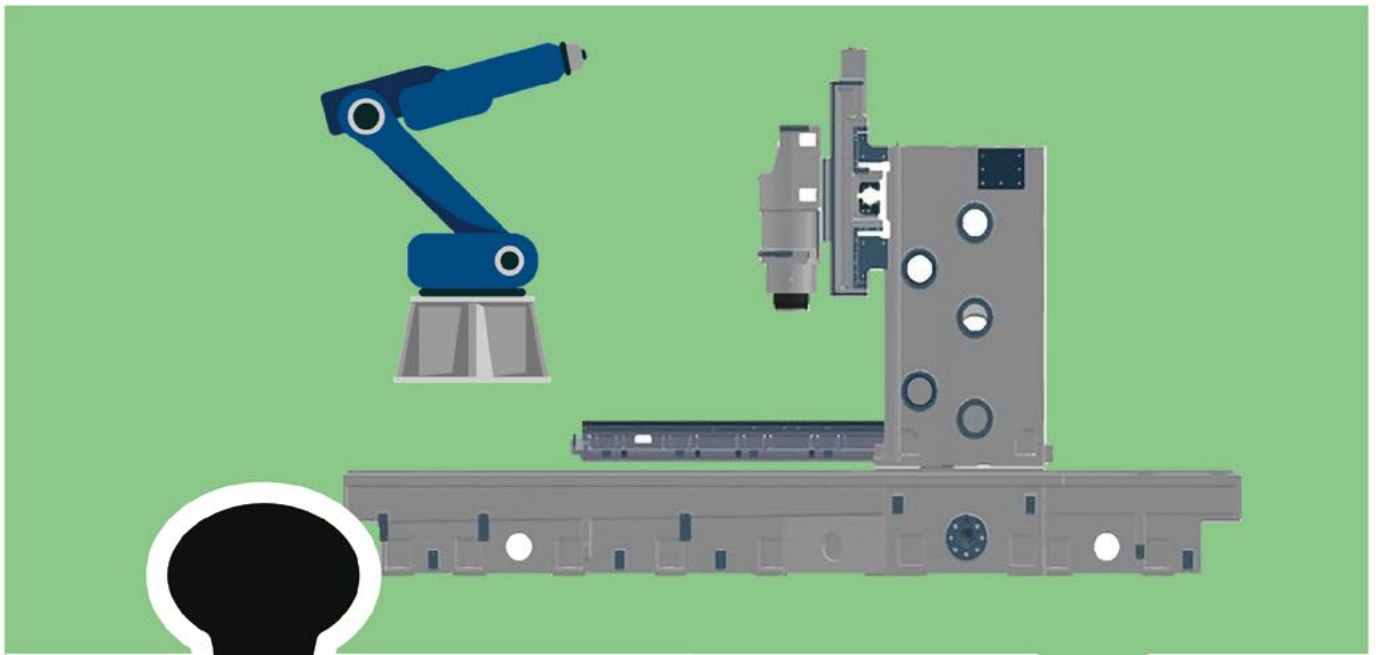
Nidec

All for dreams

Integrate LAMDA printing head and monitoring system into existing equipment



DED Modular Kit



Monitoring Unit

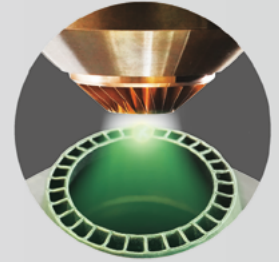


DED Laser Head

DED Laser Head



- | Powder supply with excellent convergence
- | Wide range inert gas shield
- | Easy to replace protective glass



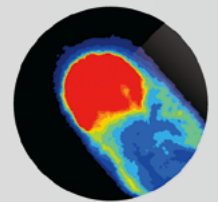
- ◆ Laser power : Max 6kW
- ◆ Nozzle : Coaxial / Multi port
- ◆ Working distance : 12mm
- ◆ Input cooling water : 2.5L/min
- ◆ Input carrier gas : Max 6L/min
- ◆ Input shielded gas : Max 50L/min
- ◆ Weight : 30kg
- ◆ Camera module for monitoring unit

*laser oscillator, powder feeder and chiller are required

Monitoring Unit



- | Monitoring and recording of melt pool images
- | Anomaly detection with AI
- | Feedback control of laser power



- ◆ Camera frame rate : 344Hz(Max)
(The camera is mounted on the head side and connected via GigE)
- ◆ Records of coordinates, laser power, and feed rate :
Acquired from machine side PLC
- ◆ Real-time control of laser power : Sent to PLC on the machine side
- ◆ Interface with machine side PLC : FANUC FOCAS2 or PROFINET IO Device

*The machine-side PLC ladder circuit must be programmed according to our specifications.

*The overall cycle is affected by the PLC cycle and communication speed, so it will be slower than the camera frame rate.

*For PROFINET, FANUC's PROFINET device is relayed.

CONTACT

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