Compact-Evolution
- Easy-to-integrate fiber-coupled system
- Compact 19-inch rack-mountable (3HU)
- High beam quality of 22mm mrad
- Diode laser control unit (DLC)
- Quasi-simultaneous Welding
  - Online process control by collapse measuring and/or pyrometer
  - No handling necessary
  - Compact space
  - Simultaneous heating and melting of the complete contour
- Accessories:
  - Galvo: to be used with Compact-Evolution series
  - Fiber-coupled collimating unit
  - Fast positioning of the laser focus in the working field
  - Commonly used industrial applications such as laser plastics welding
  - Simultaneous heating and melting of the complete contour

Contour Welding
- Also suitable for 3D contour and large parts
- Low requirements on beam quality
- Online process control via pyrometer
- Accessories: Fixed Optics
  - to be used with Compact-Evolution series
  - Easy to integrate
  - Suitable for 3D contour welding and large parts
  - Optional coaxial camera for positioning
  - Optional online process control via pyrometer
- Software Pyrometer
  - Closed loop process control possible
  - Programmable temperature profile

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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent considers and records all improvements made as part of the normal business of Coherent. Coherent’s scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health, on all systems ordered for shipment after August 2, 1976. Coherent offers a limited warranty for all Monaco lasers. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.
MPS Compact
- Small footprint
- Integrated laser source
- Pneumatic sliding door
- Available for seated or standing work position
- CNC controller (Beckhoff)

NPS Flexible
- Large working chamber
- Integrated laser source
- Pneumatic sliding door
- CNC controller (Beckhoff)

Clamping Device Standard
- Accuracy clamping
- Fixed base plate with glass plate or welding mask
- Movable carrier plate for mounting the work piece fixture
- Guides for stabilization at pneumatic cylinder
- Sensor technology for measuring the collapsing height

Integration Package Standard
- High accuracy clamping
- Fixed base plate with glass plate or welding mask
- Movable carrier plate for mounting the work piece fixture
- Two additional guides for stabilization at pneumatic cylinder
- Sensor technology for measuring the collapsing height

Clamping Device Advanced
- Stable frame
- Servo motor (spindle axis) or pneumatically driven cylinder
- Work piece fixture
- Collapse height measurement
- Torque control (force control)

Integration Package Advanced
- High accuracy clamping
- Fixed base plate with glass plate or welding mask
- Movable carrier plate for mounting the work piece fixture
- Servo-driven spindle axis

MPS Rotary
- Rotary indexing table ø 800 mm
- Integrated laser source
- Partition heights (150 mm, 300 mm)
- Safety light barrier
- CNC controller (Beckhoff)

Double Clamping Device
- Stable frame
- Servo motor (spindle axis) or pneumatically driven cylinder
- Work piece fixture for two parts
- Collapse height measurement
- Torque control (force control)

Integration Package Advanced
- High accuracy clamping
- Fixed base plate with glass plate or welding mask
- Movable carrier plate for mounting the work piece fixture
- Servo-driven spindle axis

Complete Solutions – One Supplier

Human Machine Interface (HMI)
- Different user levels
- Maintenance menu
- Welding recipe
- Process diagrams
- Process data
- Manual movement via jog (touch screen) for teaching

Fixture Know-How
- Coherent has an extensive laser and system know-how, and a wealth of application experience
- Complete solutions with customer-specific workplace fixtures

Collapsing Height
- Process control
- Time resolved collapse height monitoring
- Part-specific tolerance bands
- User-definable error handling
- Complete process data logging