

OEM References in Laser Welding and Brazing



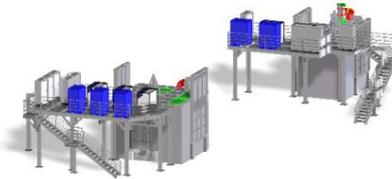
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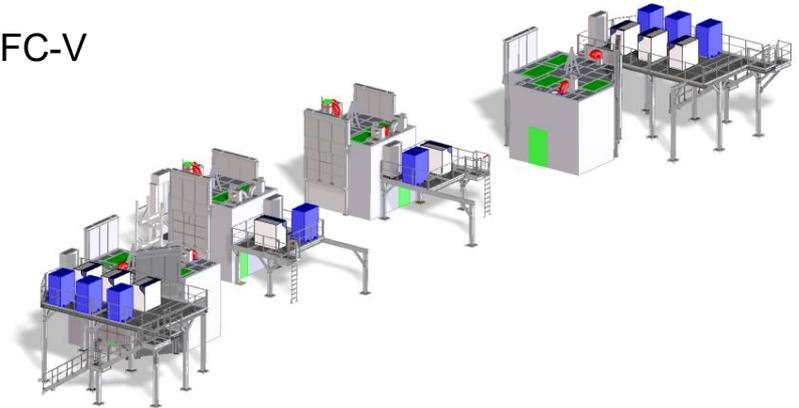
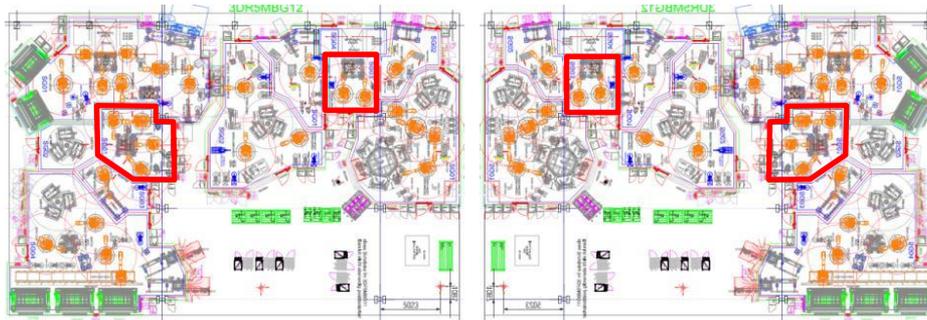
BMW F56 / Swindon

- BMW F56 – mini 3dr – hood and front doors
- Realization phase 11/2012 – 02/2013
- 5 laser welding cells – 206m²
- 11 x tactile laser welding Scansonic ALO3
- 2 x remote laser welding with seam tracking Scanlab 30 FC-V
- + Lessmüller Weldeye remote
- 13 x Trumpf disc laser 4 kW



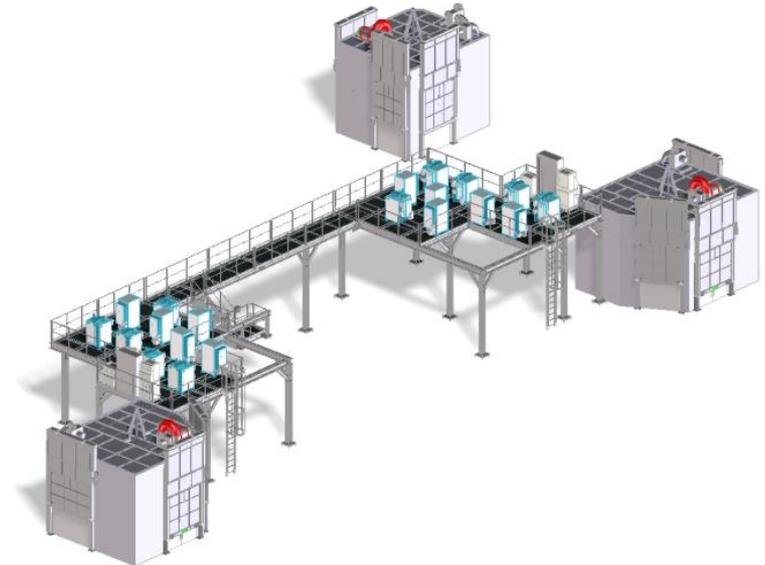
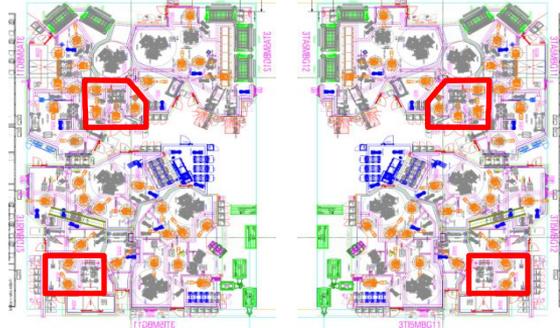
BMW F55 / Swindon

- BMW F55 – mini 5dr – rear doors
- Realization phase 5/2013 – 07/2013
- 4 laser welding cells – 111 m²
- 6 x tactile laser welding Scansonic ALO3
- 2 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 8 x Trumpf disc laser 4 kW



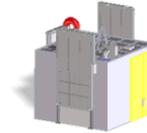
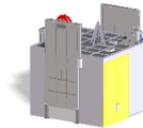
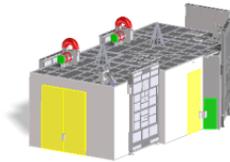
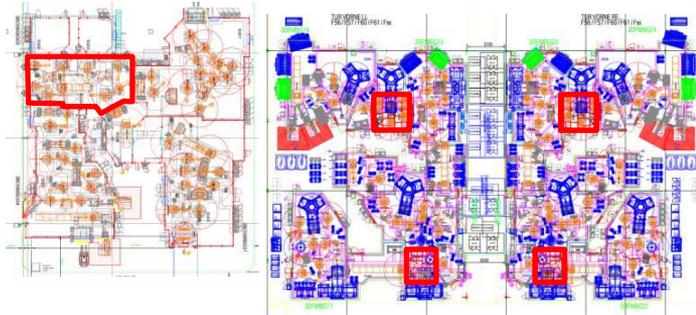
BMW F45 / Leipzig

- BMW F45 – BMW 2er Active Tourer – front and rear doors
- Realization phase 6/2013 – 08/2013
- 4 laser welding cells – 114 m²
- 6 x tactile laser welding Scansonic ALO3
- 2 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 8 x IPG fiber laser 4 kW

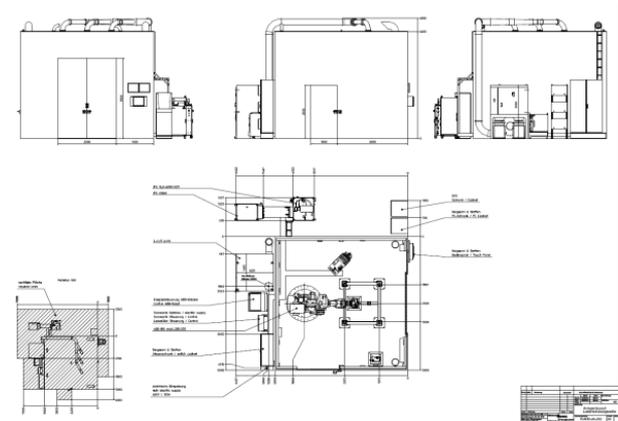
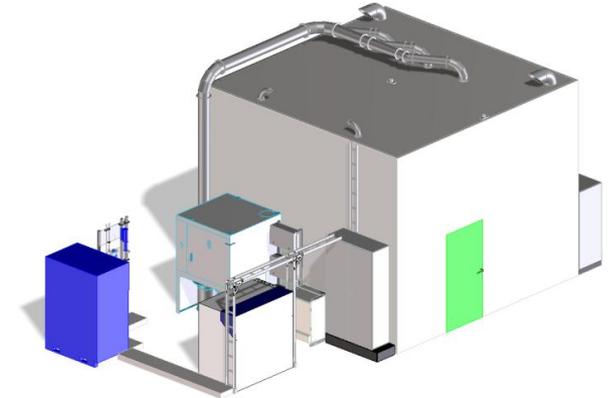


Nedcar F56 / Born

- BMW F56 – mini 3dr – hood and front doors
- Realisation phase 8/2013 – 11/2013
- 5 laser welding cells – 206 m²
- 11 x tactile laser welding Scansonic ALO3
- 2 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 13 x Trumpf disc laser 4 kW

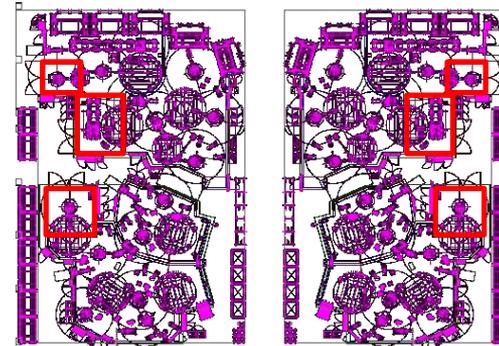
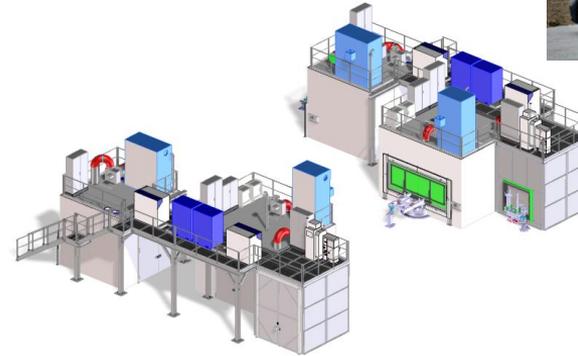


- Laser Test Cell – 25 m²
- Realization phase 9/2013 – 10/2013
- 1 x tactile laser welding Scansonic ALO3
- 1 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 1 x Trumpf disc laser 4 kW
- 1 x Siemens BVS cabinet – fully operational



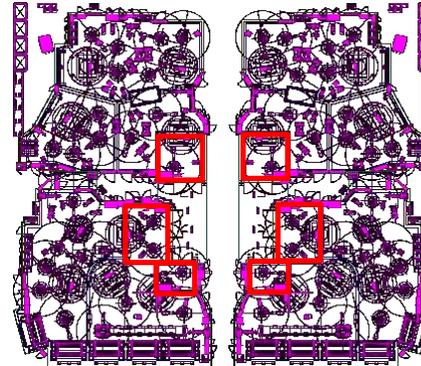
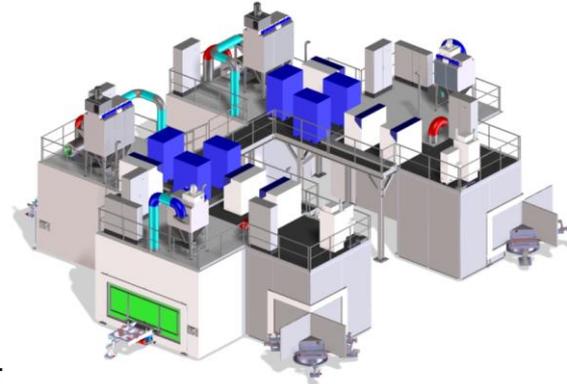
Magna F46 / Elsendorf

- BMW F46 – BMW 2er Grand Tourer – front and rear doors
- Realization phase 11/2013 – 06/2014
- 6 laser welding cells – 115 m²
- 2 x tactile laser welding Scansonic ALO3
- 2 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 4 x Trumpf disc laser 4 kW
- 2 x Cleanlaser cleaning system



Magna F48 / Elsendorf

- BMW F48 – BMW X1 – front and rear doors
- Realization phase 10/2013 – 02/2014
- 6 laser welding cells – 117 m²
- 2 x tactile laser welding Scansonic ALO3
- 2 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remot
- 4 x Trumpf disc laser 4 kW
- 2 x Cleanlaser cleaning system



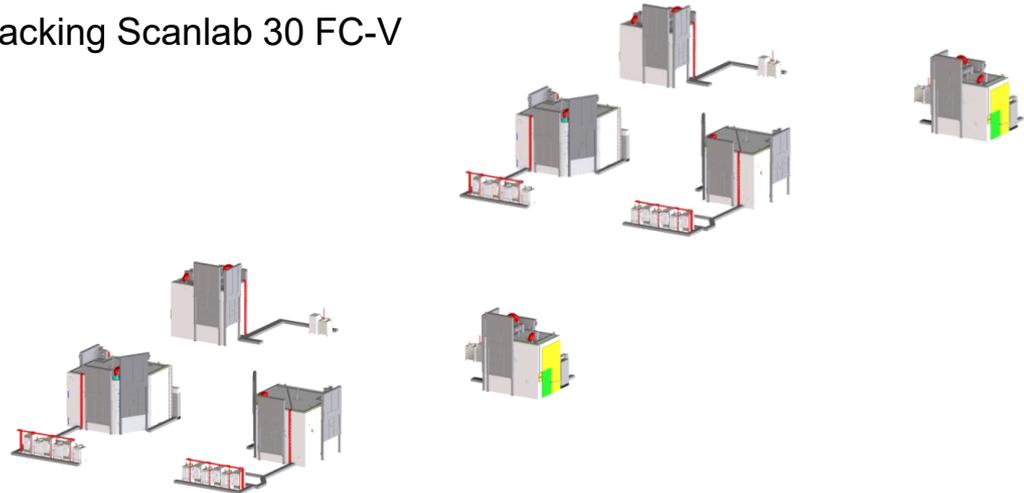
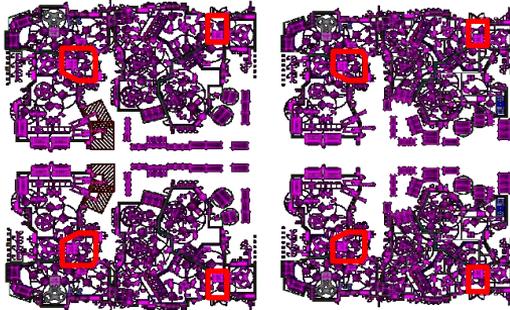
Läpple F48 / Teublitz

- BMW F48 – BMW X1 – tailgate brazing
- Realization phase 05/2014 – 07/2014
- 1 laser welding/brazing cell – 25 m²
- 1 x tactile laser welding/brazing Scansonic ALO3
- 4 x IPG fiber laser 4 kW



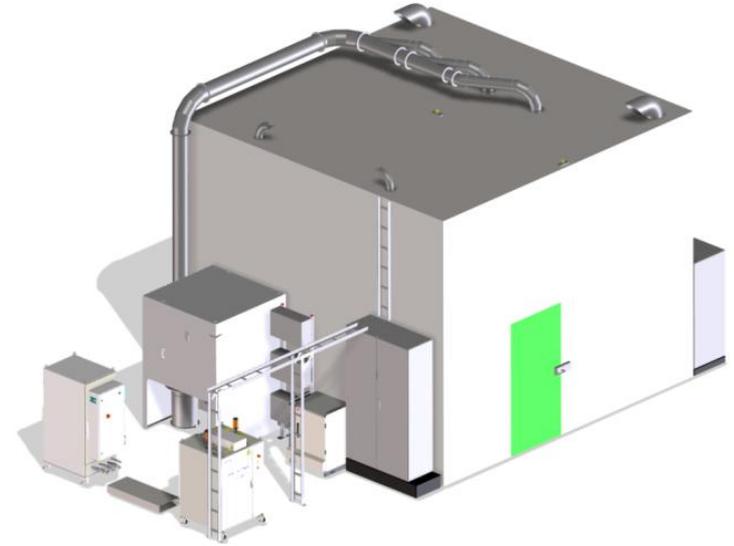
BMW F45, F49, F52 / Shenyang (CN)

- BMW F45, F49, F52 – front and rear doors
- Realization phase 10/2014 – 06/2015
- 8 laser welding cells – 212 m²
- 12 x tactile laser welding Scansonic ALO3
- 4 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 16 x IPG fiber laser 4 kW



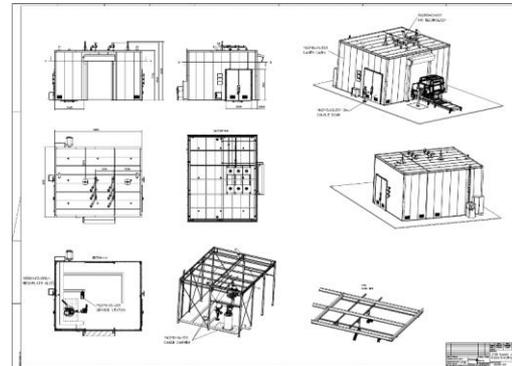
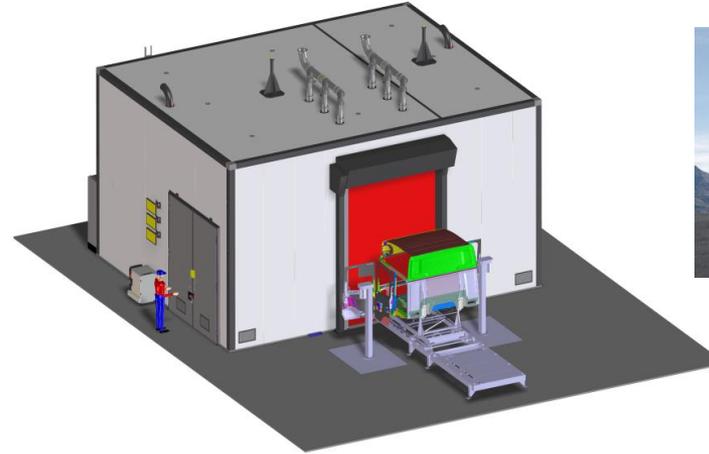
BMW / Shenyang (CN)

- Laser Test Cell – 25 m²
- Realization phase 12/2014 – 02/2015
- 1 x tactile laser welding Scansonic ALO3
- 1 x remote laser welding with seam tracking Scanlab 30 FC-V + Lessmüller Weldeye remote
- 1 x Trumpf disc laser 4 kW
- 1 x Siemens BVS cabinet – fully operational

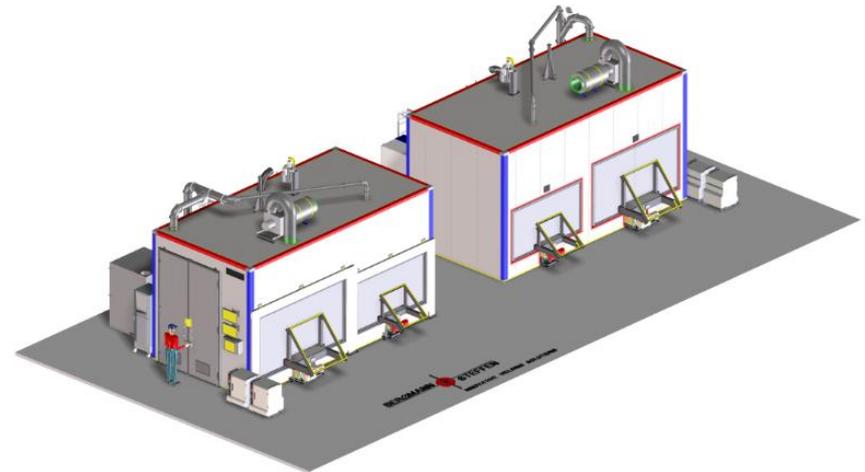
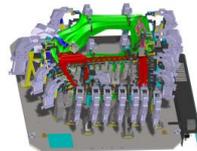
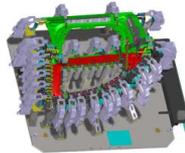
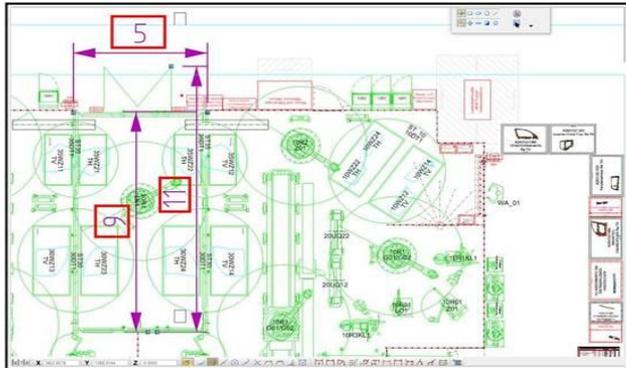


Scania / Oskarsham Ice / Prague

- ICE / Scania - Truckcabins
- Realization phase 01/2018 – 07/2018
- 1 x laser brazing cell – 80 m²
- 1 x tactile laser welding Scansonic ALO3
- 1 x laser brazing with Engrotec scanner
- 1 x Laserline LDF 4000-100 4 kW

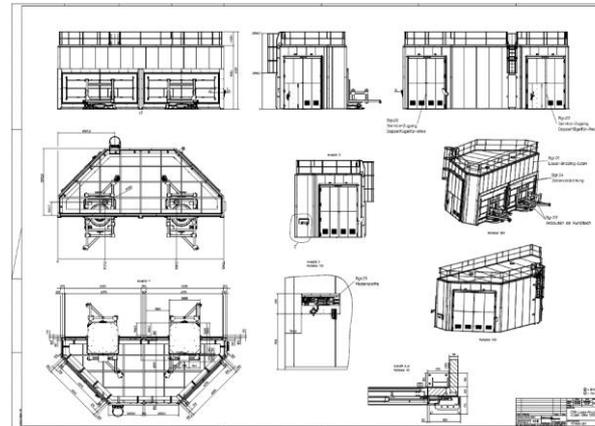
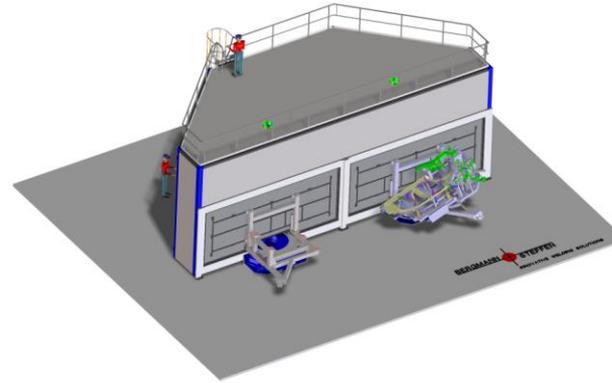


- Daimler N293 – front and rear doors
- Realization phase 01/2018 – 06/2018
- 2 x laser welding cells – 90 m²
- 2 x 3D-Laser-Remote Trumpf IPFO with Tornadoblade®
- 2 x Trumpf TruDisk 4 kW
- 8 x laser welding fixtures “Doors”



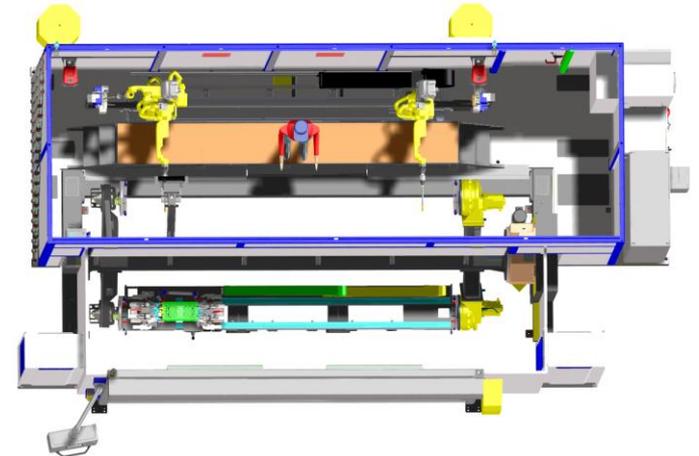
BMW / South Creek; S.C. USA

- BMW LK G05 – Sideframe
- Realization phase 03/2018 – 04/2018
- 1 x lasercabin brazing cell – approx. 60 m²
- 1 x tactile laser welding Scansonic ALO3
- 1 x IPG fiber laser 4 kW



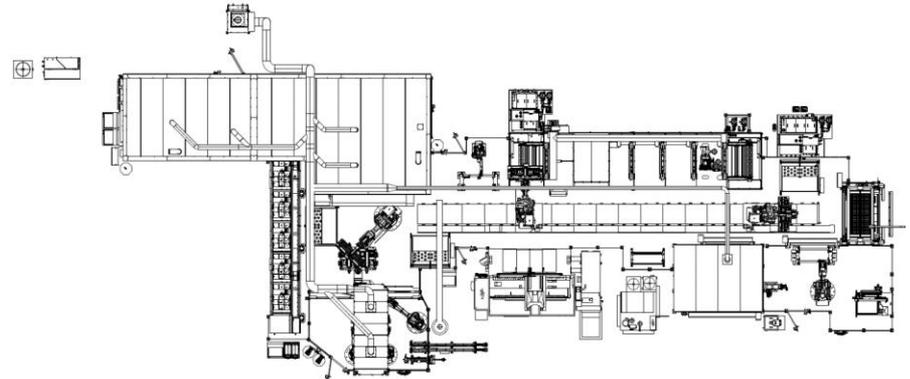
MIG/MAG welding scaffolding planks / Welser Profile

- Scaffolding planks in different length
- Realization phase: 08/2018 – 03/2019
- 1 x MIG/MAG welding cell
- 2x Fanuc robot, 1 x 7-Axis, 1x Positioner



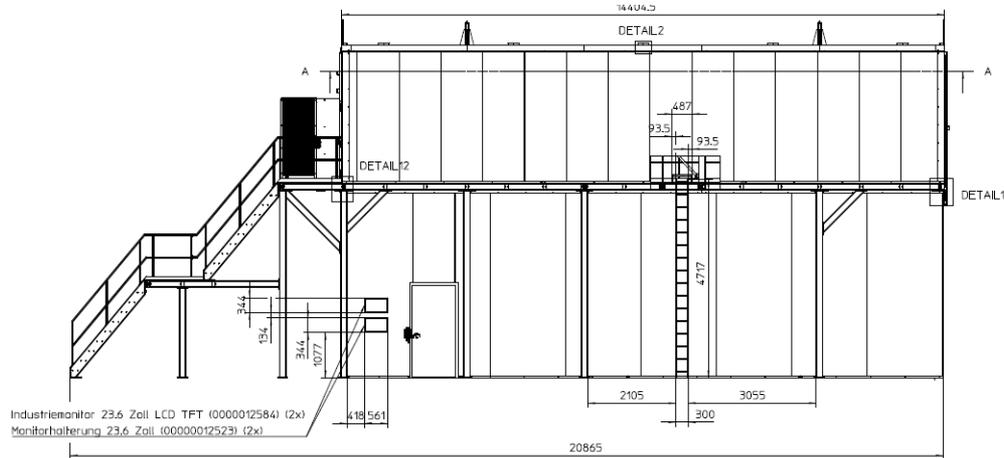
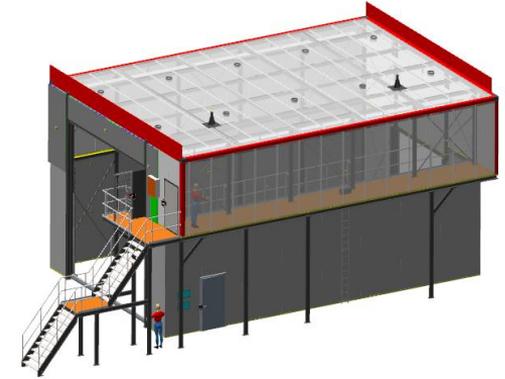
BMW seat cross member I20 / Neuman Aluminium

- Production line BMW seat cross member I20
- Realization phase: 02/2019 – 02/2020 Extension: 07/2021 – 8/2022
- Laser welding cell, MIG-welding cell, assembly-station, measuring station, cleaning system, rework station
- Entire production line: 15m x 35m
- Laser optics: tactile laser welding Scansonic ALO3
- Laser source: TruDisk 6000 6kW
- 12x ABB Robot, 1x ABB Positioner, 1x 7-Axis



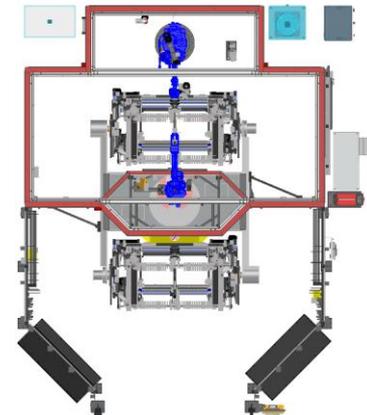
Laseer safety cabin / Fronius - Siemens

- Laser safety cabin project Siemens Munich railway vehicle parts
- Realization phase: 04/2019 – 03/2020
- Laser safety cabin, partially active 14,4m x 10,4m x 8m
- Sectional door 6m x 6,6m and 3,8m x 4m



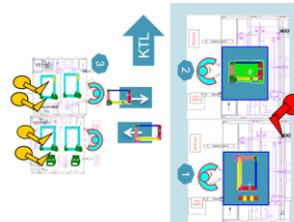
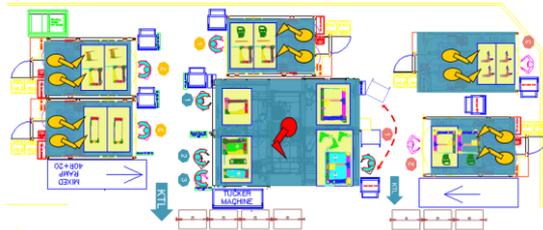
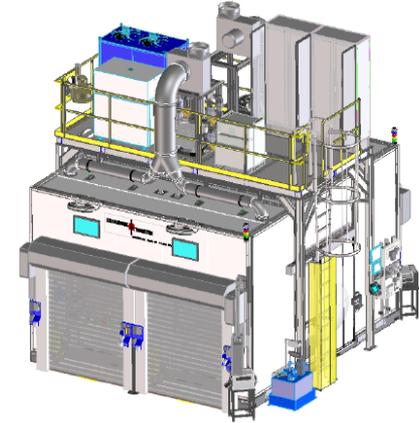
CMT-/Laser welding cell cabinet body / Hager Electro

- Switch cabinet body in different sizes
- Realization phase: 04/2020 – 02/2022
- Laser- / MAG – welding cell
- Laser optics: Trumpf PFO 1D
- Laserquelle: Trumpf TruDisk 3001 3kW
- 2x Yaskawa Roboter, 1x Yaskawa Positionierer
- CMT Equipment: Fronius



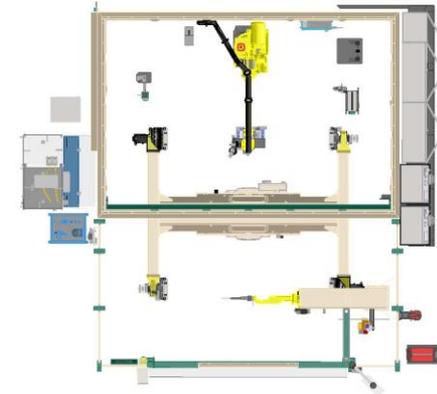
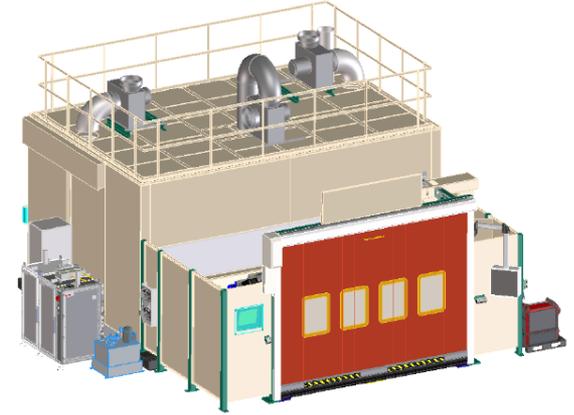
RSB Porsche - Audi PPE / Magna

- Welding line RSB Porsche - Audi PPE
- Realization phase: 05/2020 – 05/2021
- 2 x laser welding cell, 6x laser welding fixture, 5 x MAG-welding cell, 10 x MAG-welding fixture
- Laser optics: 2x Trumpf PFO-3D-2 (I-PFO)
- Laser source: 2x Trumpf TruDisk 6002 6kW
- 13x ABB Robot, 5x ABB Positioner



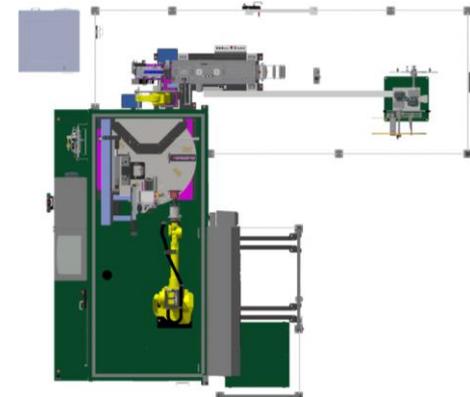
BMW Bumper G09 / Gedia

- BMW Bumper G09
- Realization phase: 12/2020 – 10/2021
- Laser- / MAG – welding cell
- Laseroptics: tactile laser welding Sansonic ALO4
- Laser source: IPG YLS-6000
- 2x Fanuc Robot, 1x Fanuc Positioner



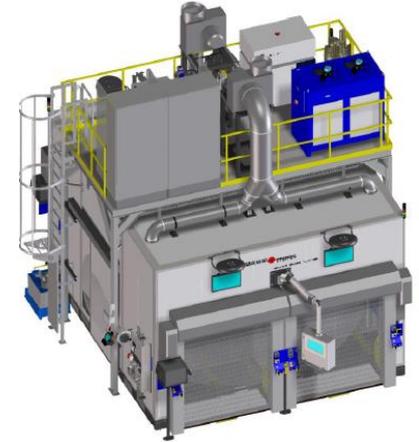
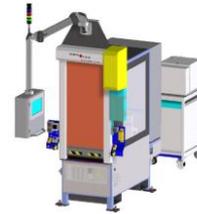
Separator plates / GEA Westfalia

- Separator plates with different stripes
- Realization phase: 09/2021 – 01/2023
- Laser welding cell 2,5m x 4,5m, entire cell 6m x 8m
- Laser optics: Trumpf PFO-33-2
- Laser source: Trumpf TruDisk 4001 4kW
- 1x Fanuc Robot, 1x round table, feed unit for stripes



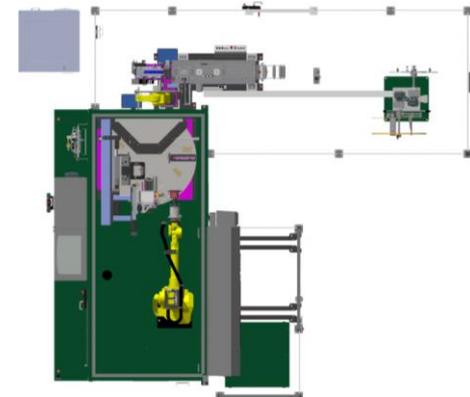
RSB Porsche - Audi PPC / Magna

- Welding line RSB Porsche - Audi PPC
- Realization phase: 05/2022 – 04/2023
- 2 x laser welding cell, 6x Laser welding fixture, 6 x MAG-welding cell, 12 x MAG-welding fixture, 2x Tucker-welding cell
- Entire welding line: 20m x 13m
- Laser optics: 2x Trumpf PFO-3D-2 (I-PFO)
- Laserquelle: 2x Trumpf TruDisk 6002 6kW
- 14x ABB Robot, 5x ABB Positioner



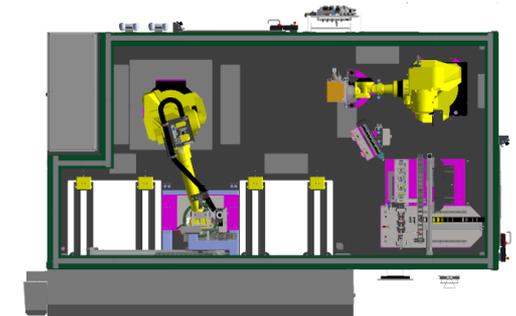
Separator plates / GEA Westfalia

- Separator plates with different stripes
- Realization phase: 11/2022 – 12/2023
- 2 x Laser welding cell 2,5m x 4,5m, entire cell 6m x 8m
- Laser optics: 2x Trumpf PFO-33-2
- Laser source : 2x Trumpf TruDisk 4001 4kW
- 2x Fanuc Robot, 2x round table, 2x feed unit for stripes



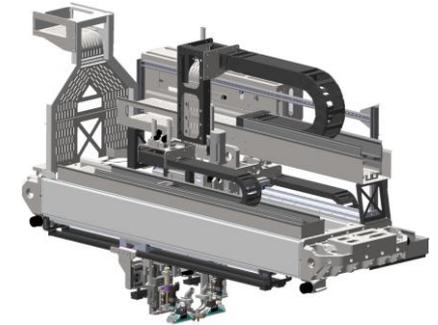
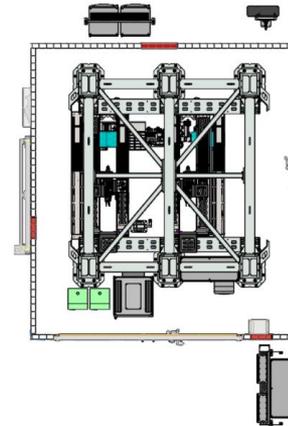
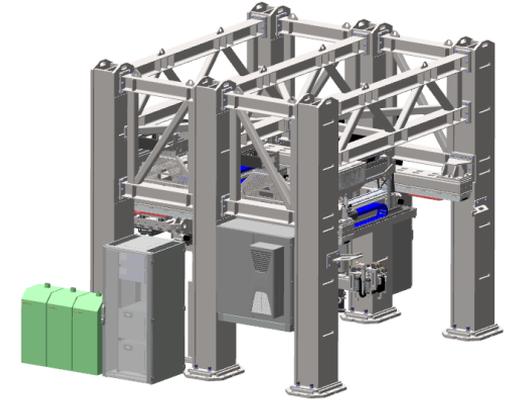
Separator plates / GEA Westfalia

- Separator plates with different stripes
- Realization phase: 11/2022 – 12/2023
- Laser welding cell 4m x 5m
- Laser optics: 2x Trumpf PFO 20-2
- Laser source: TruDisk 1000 1kW
- 2x Fanuc Robot, feed unit separator plates, feed unit for stripes



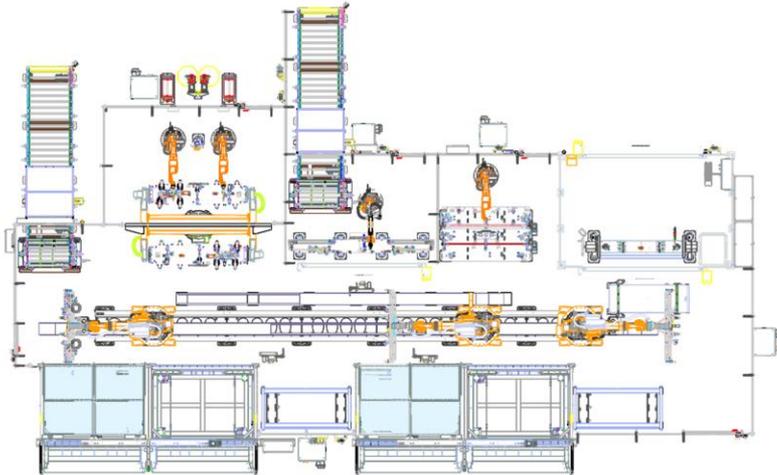
B&S ScanWalker weld system ZKS GEN6 / BMW

- Pilot cell B&S ScanWalker ZKS-welding GEN6
- Realization phase: 05/2023 – 02/2024
- B&S ScanWalker Battery Welding System
- Laser optics: 2x Scansonic FCW- laser optics
- Laser source: 2x IPG YLR Multi-kW Faserlaser 2kW
- Weiss Group linear axis system



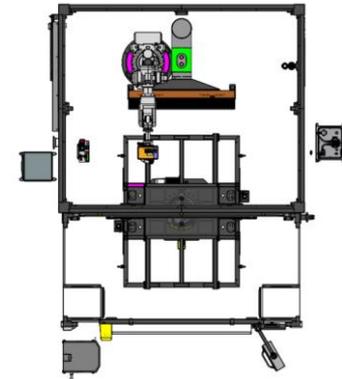
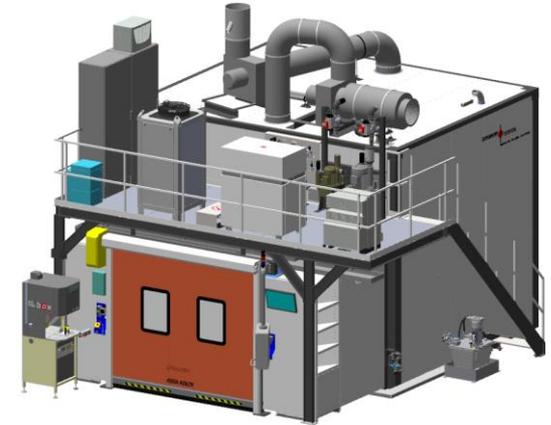
MB Schweller LH-RH / Hydro

- MIG welding production line – Mercedes Benz MB Schweller LH/RH
- Realization phase: 07/2023 –
- MIG-welding cell, assembly cell, rework station, measuring station, component container
- 7x Kuka Robot, 1x 7-Axis



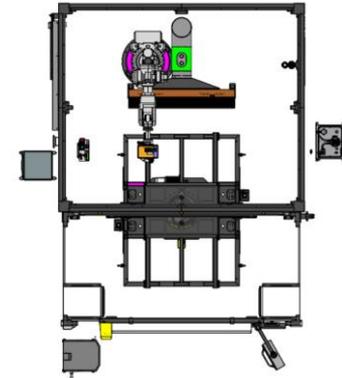
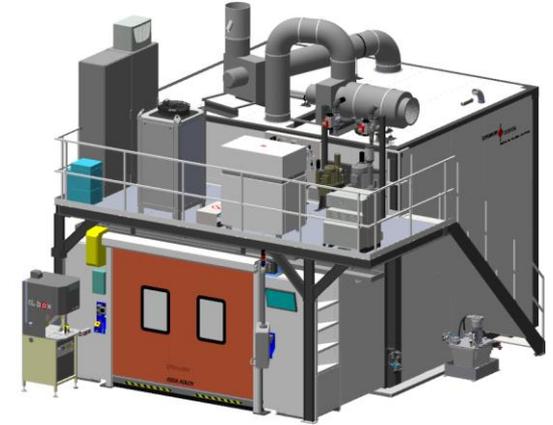
JEEP FSB J4U / Proma Melfi

- FSB J4U RFQ Stellantis
- Realization phase: 12/2023 – 10/2024
- Laser welding cell 7m x 8m
- Laser optics: Trumpf PFO 3D
- Laser source: TruDisk 6001 6kW
- 1x ABB Robot, 2-station roundtable, 2x laser welding fixture



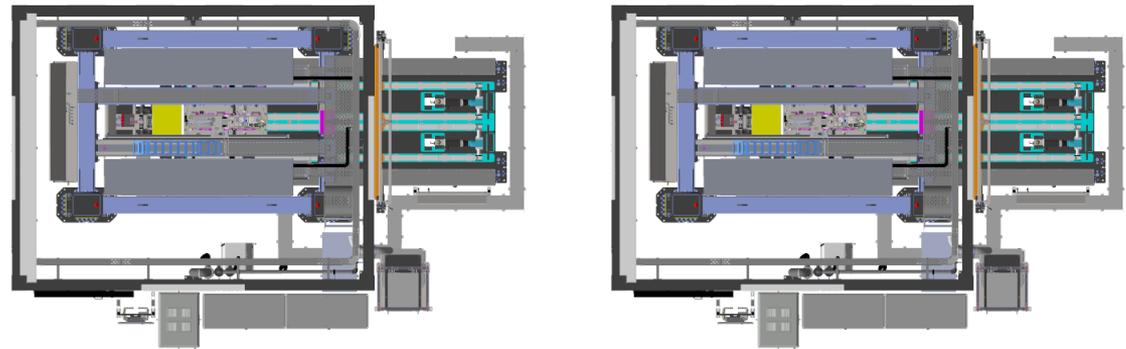
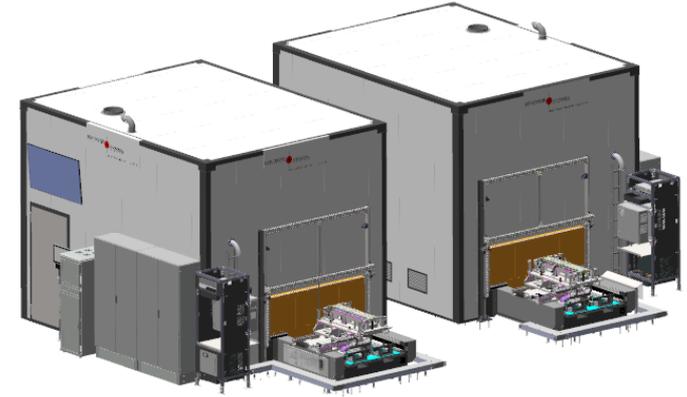
JEEP FSB J4U / Proma Mexico

- FSB J4U RFQ Stellantis
- Realization phase: 05/2024 – 12/2024
- 2x Laser welding cell 7m x 8m
- Laser optics: 2x Trumpf PFO 3D
- Laser source: 2x TruDisk 6001 6kW
- 2x ABB Robot, 2x 2-station roundtable, 4x laser welding fixture



BMW Bane Cinque / Aumann – Rimac – B&S ScanWalker

- Battery module BMW Bane Cinque
- Realization phase: 01/2025 –
- 2 x B&S ScanWalker Battery welding system 5m x 7,5m
- Laser optics: 2x Scansonic FCW- laser optics
- Laser source: 2x IPG YLR Multi-kW Faserlaser 2kW
- Weiss Group linear axis system



Vielen Dank für Ihre Aufmerksamkeit!



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