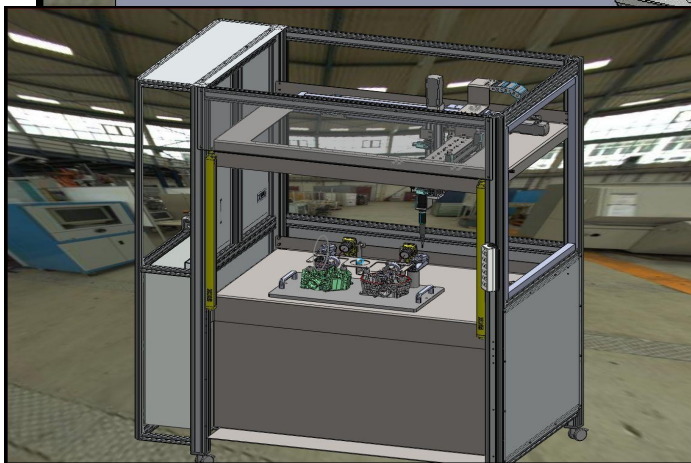
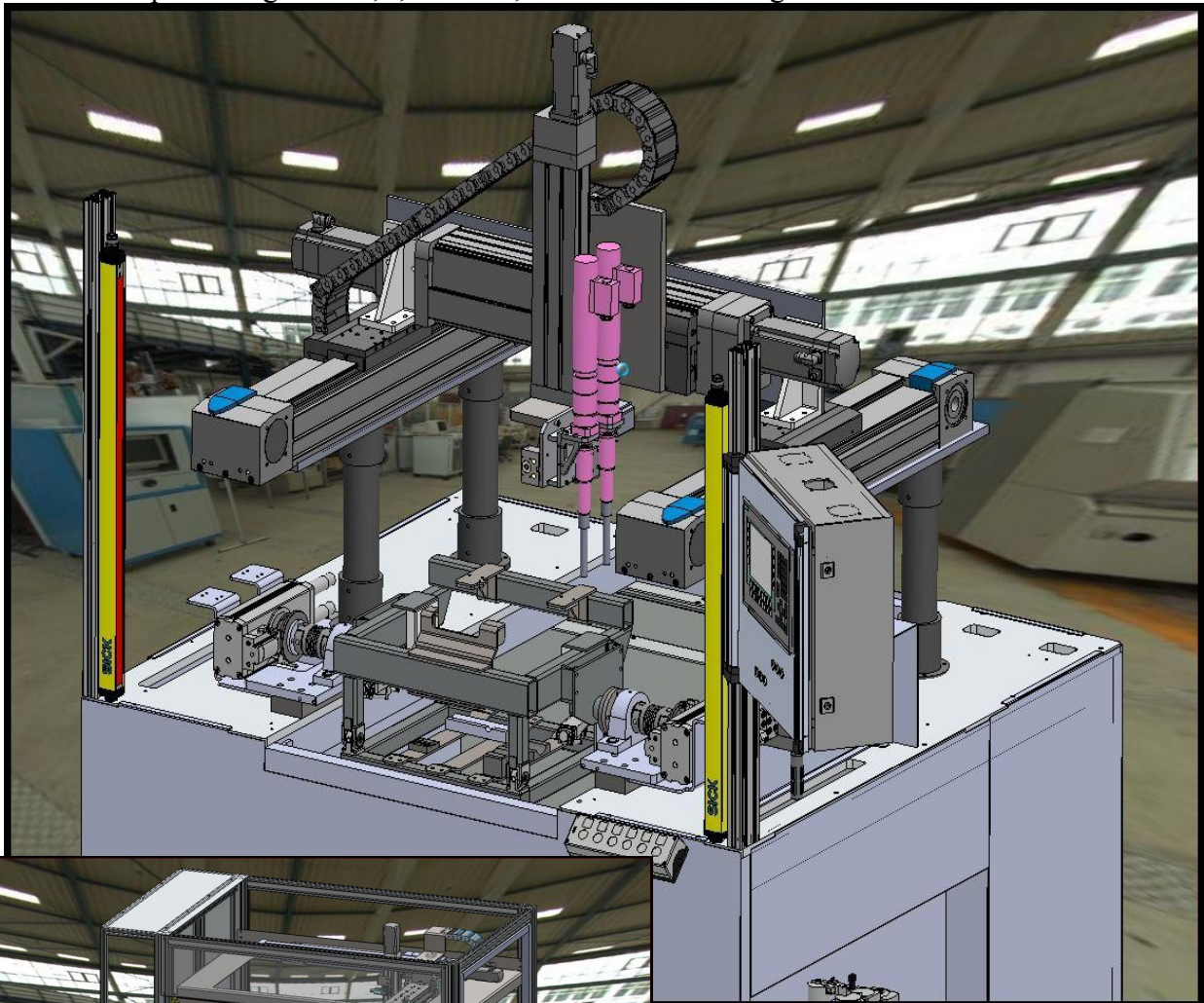
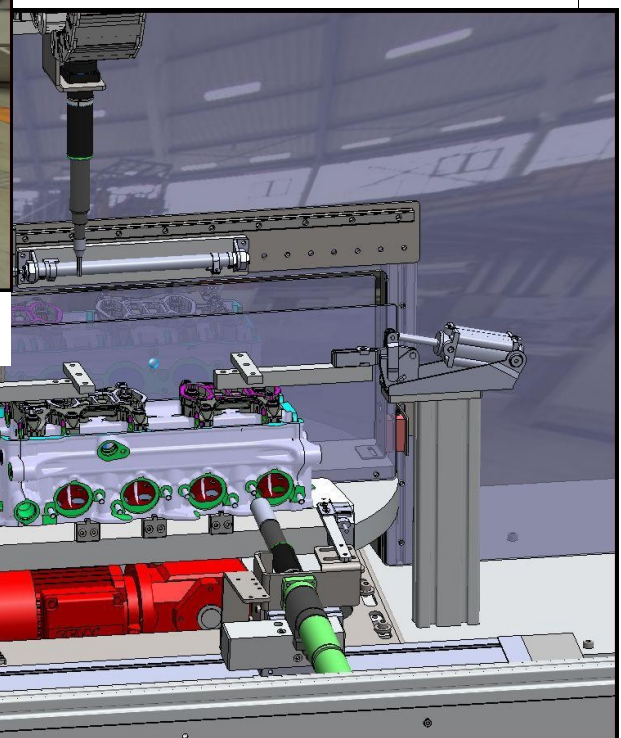


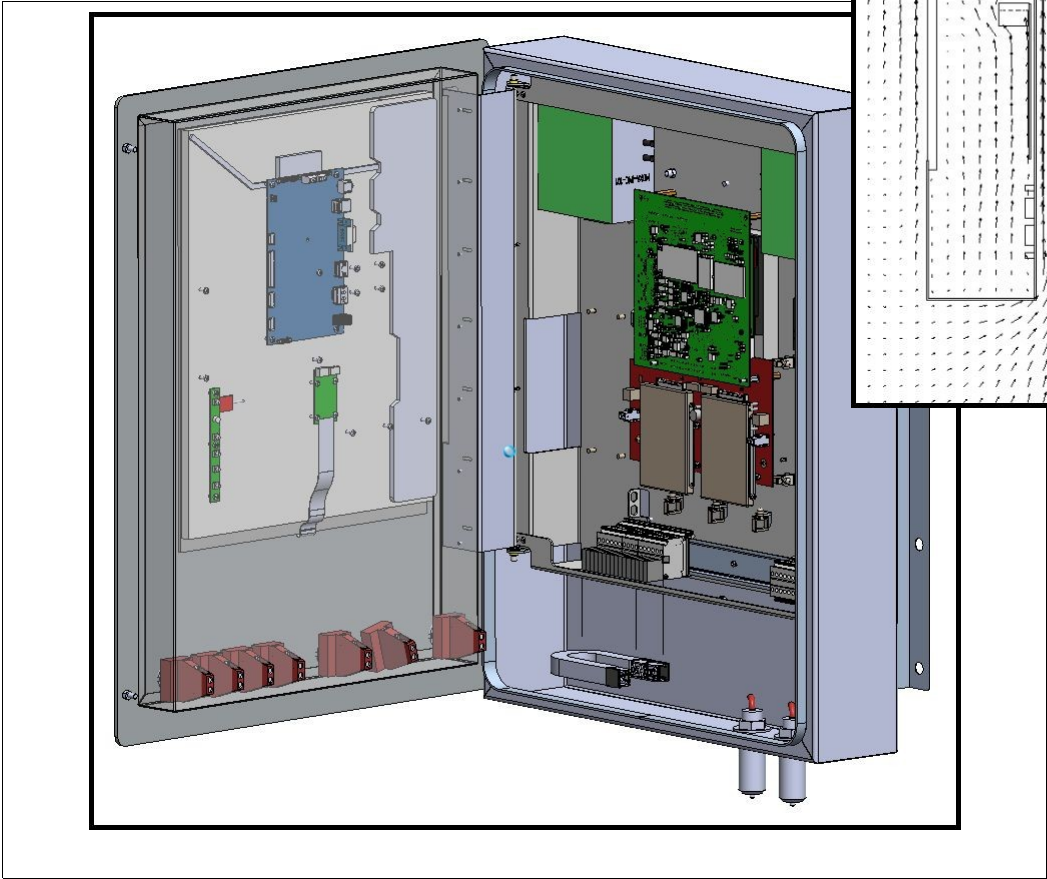
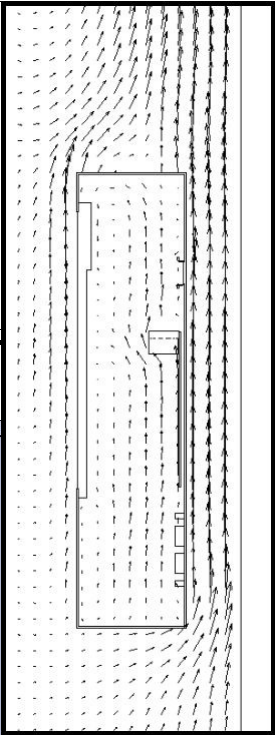
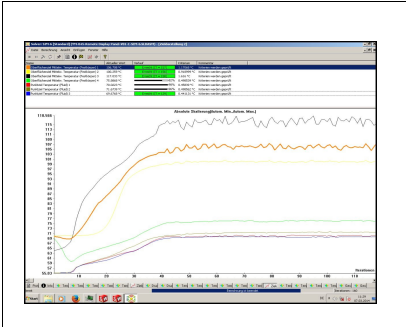
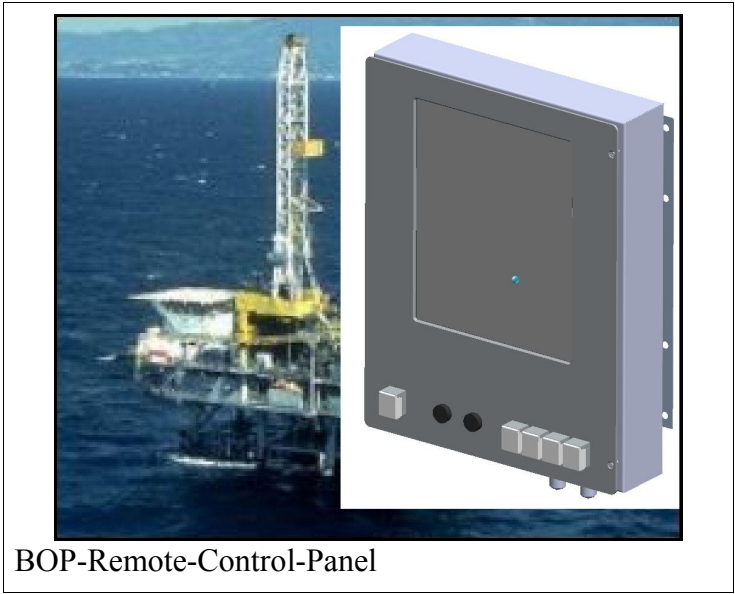
Einzelplatzanlage mit X,Y,Z-Achse, Stichmaßverstellung und Schwenktisch



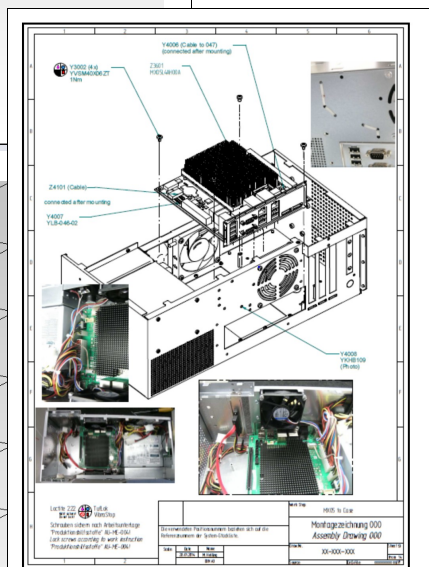
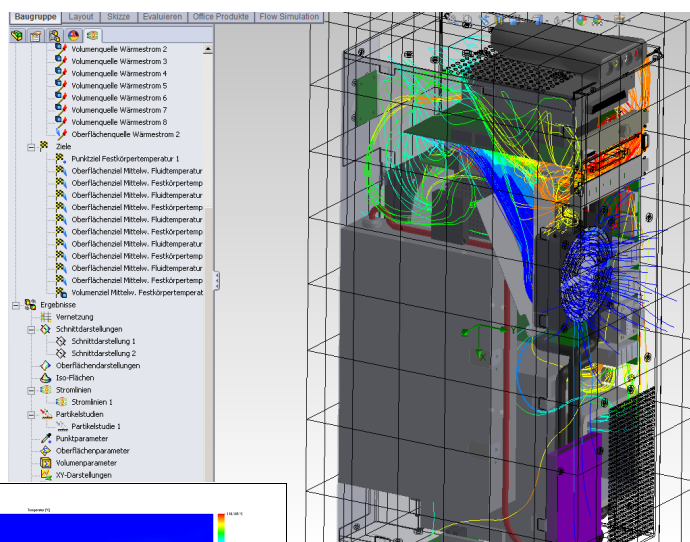
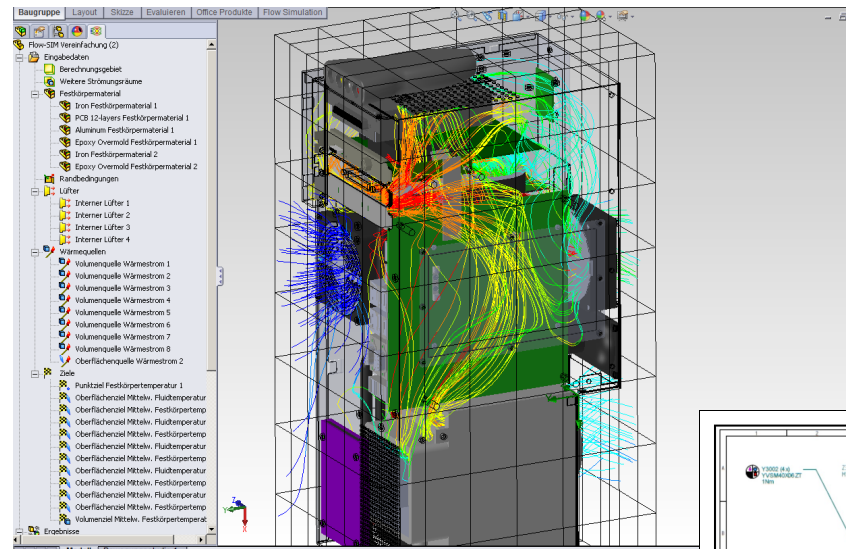
Einzelplatzanlage mit kleinem x,y,z-Portal,
Einlegeseite



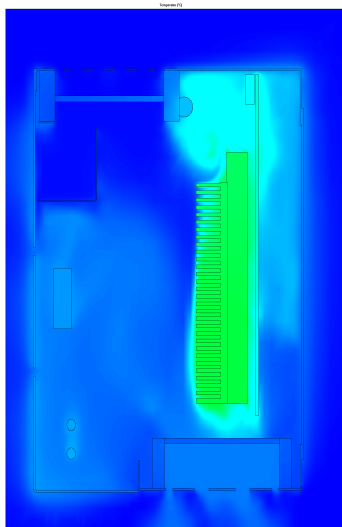
Arbeitsbereich: Verschrauben von Lagerbrücken und Gewindebolzen



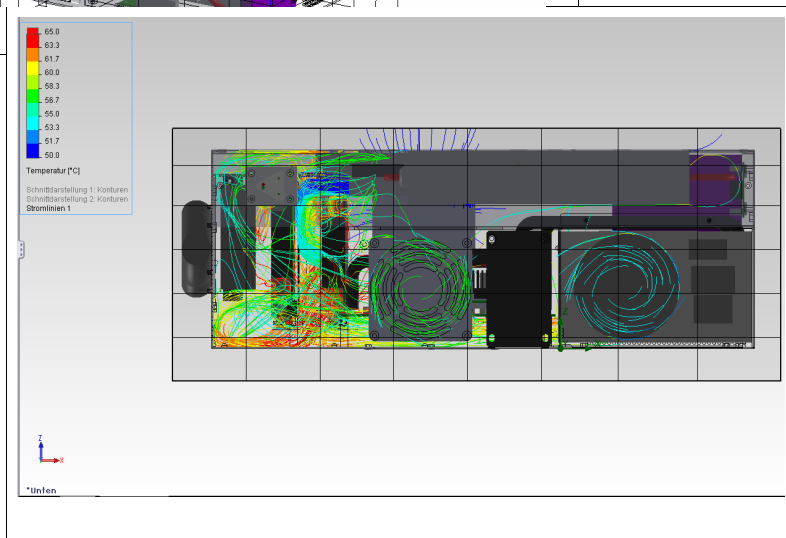
IPC eines mobilen C-Arm-Röntgengerätes-Strömungssimulation



Auszug aus der Montageanleitung

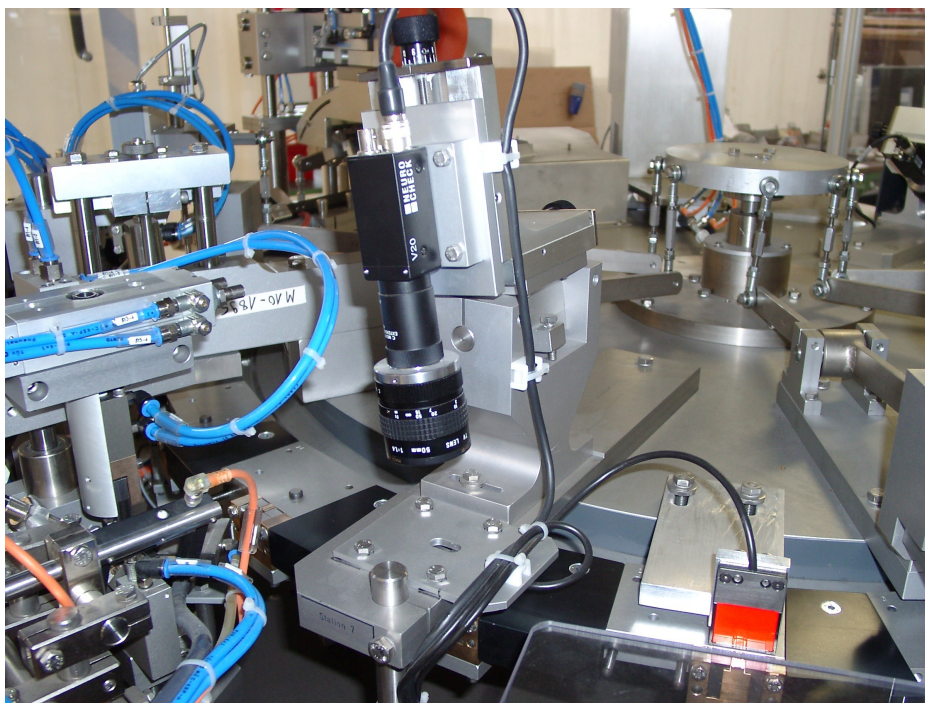


Luft überstreicht KK





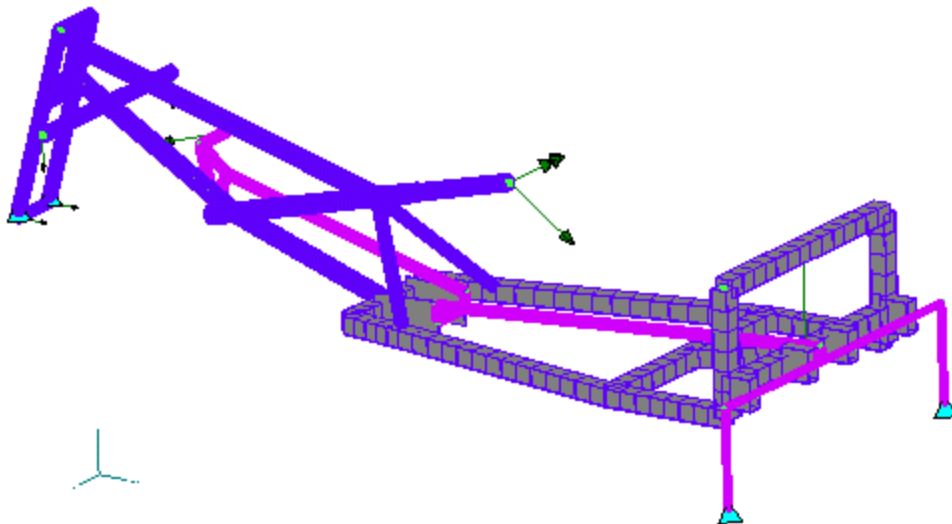
Montageanlage Schlauchkupplung



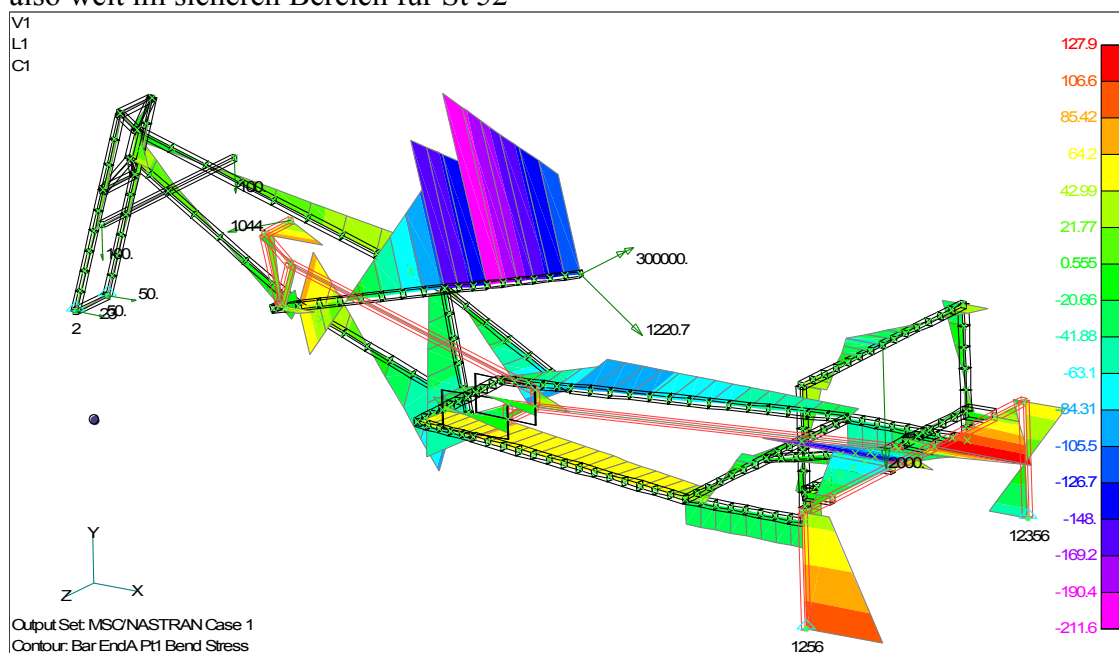
Kamerakontrolle in einer Montageanlage

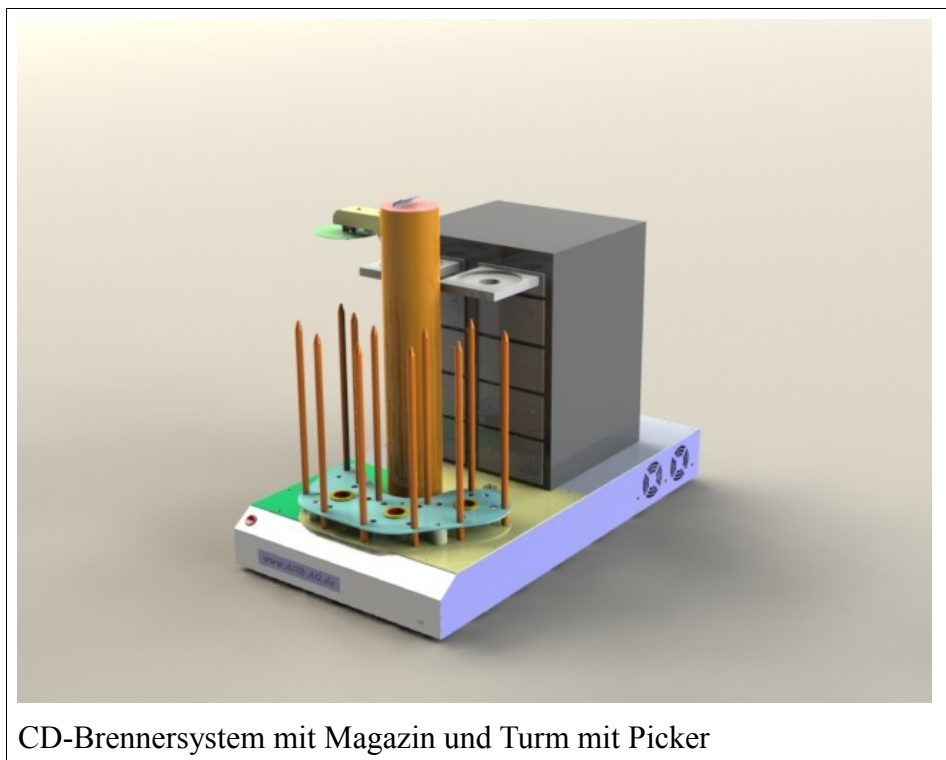
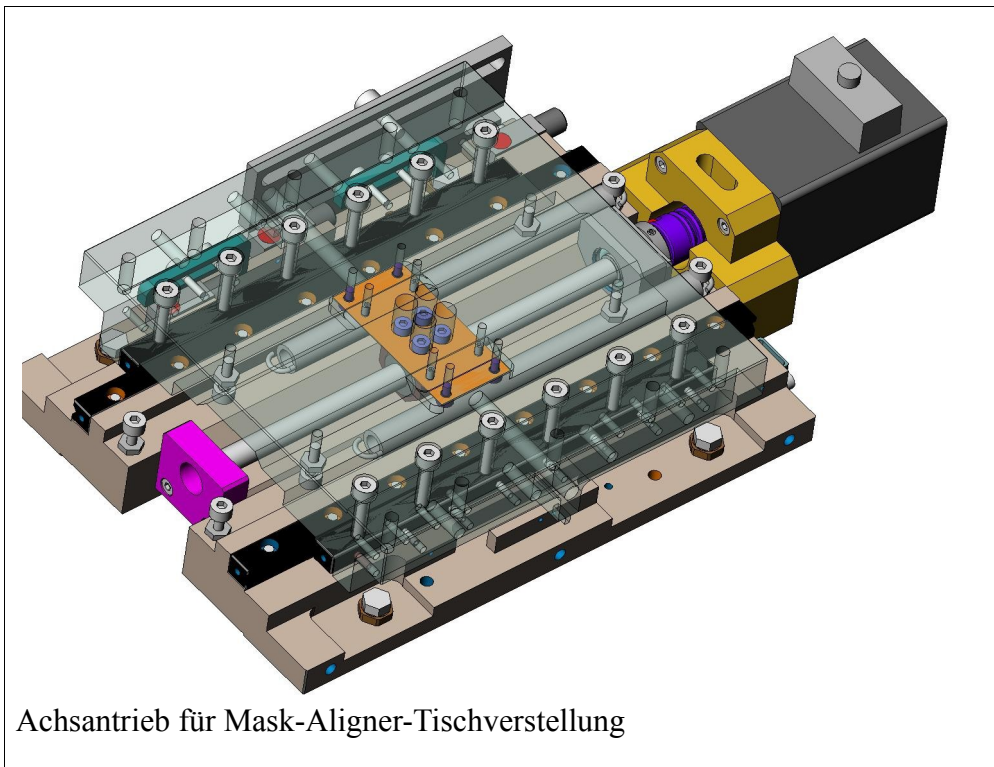
FEM-Modell

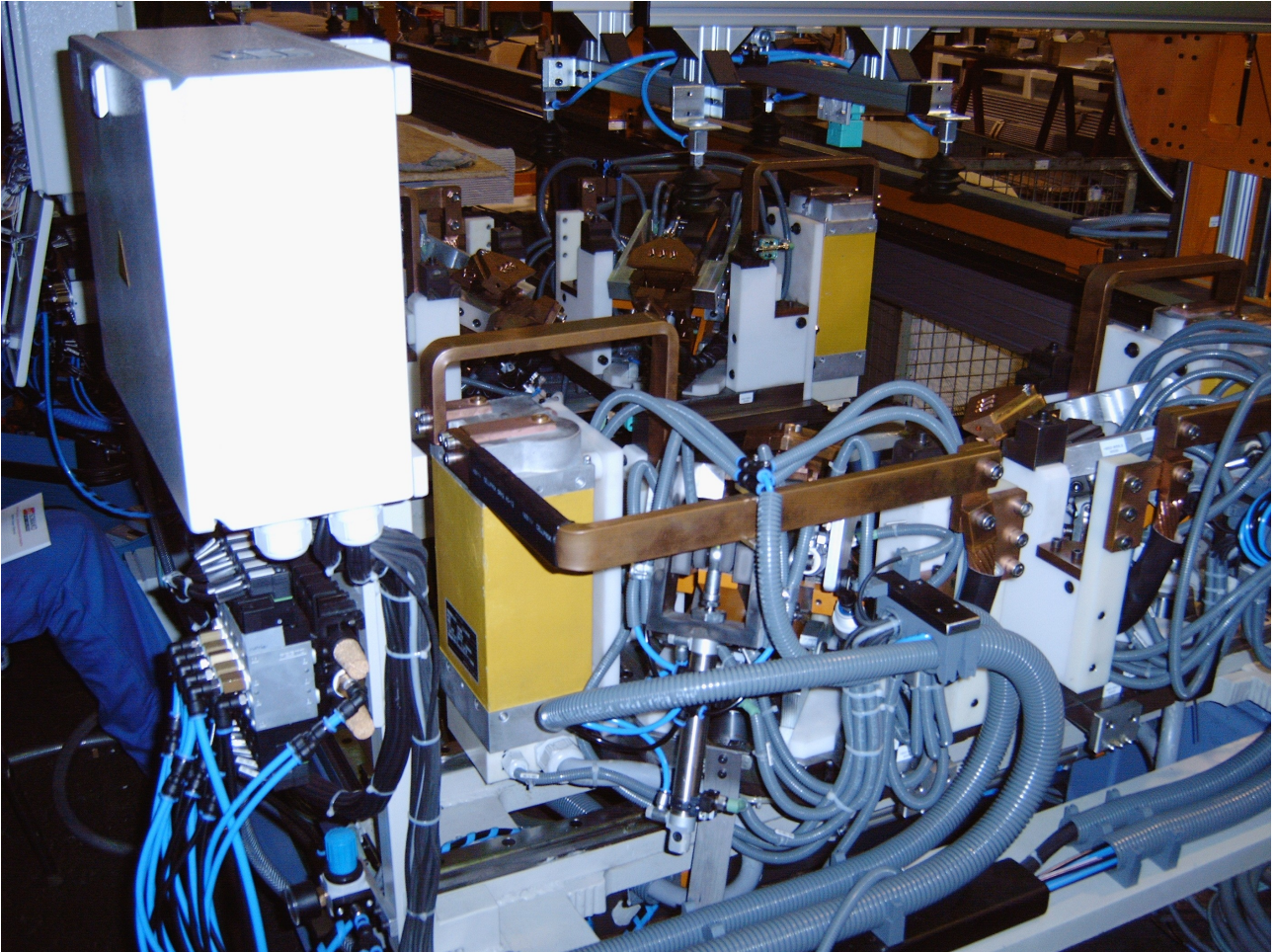
Die lila eingefärbten Elemente simulieren den Antriebsstrang (Pedale, Kurbel, Kettenblatt, Kette, Getriebe, Kette, Differential, Halbwellen, Räder)
blau eingefärbt: Rundrohre, grau: Vierkantrohre



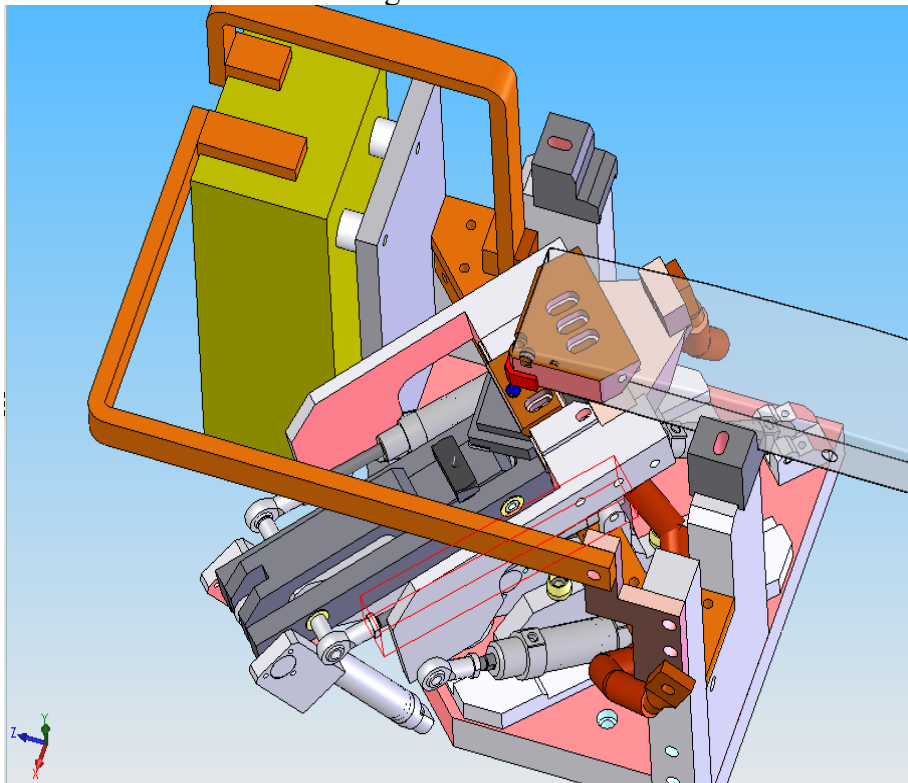
Biegespannungen in N/mm^2 aufgrund von Trittkräften ($x=1000\text{N}$, $y=300\text{N}$) und dem entsprechenden Sitzlehnenmoment $M=300\text{Nm} = 300000\text{Nmm}$
Gabelkräfte vorn: $x=100\text{N}$ durch Stöße u. dgl.
Berechnungen der Gabel mit 1000N Bremskraft ergaben 61N/mm^2 an der unteren Gabelbrücke, also weit im sicheren Bereich für St 52

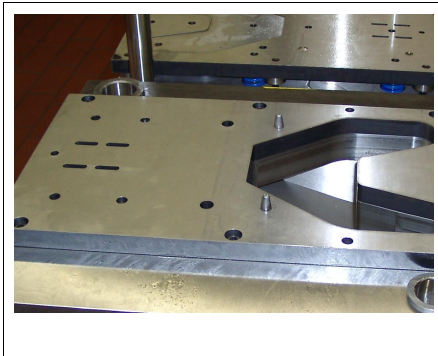
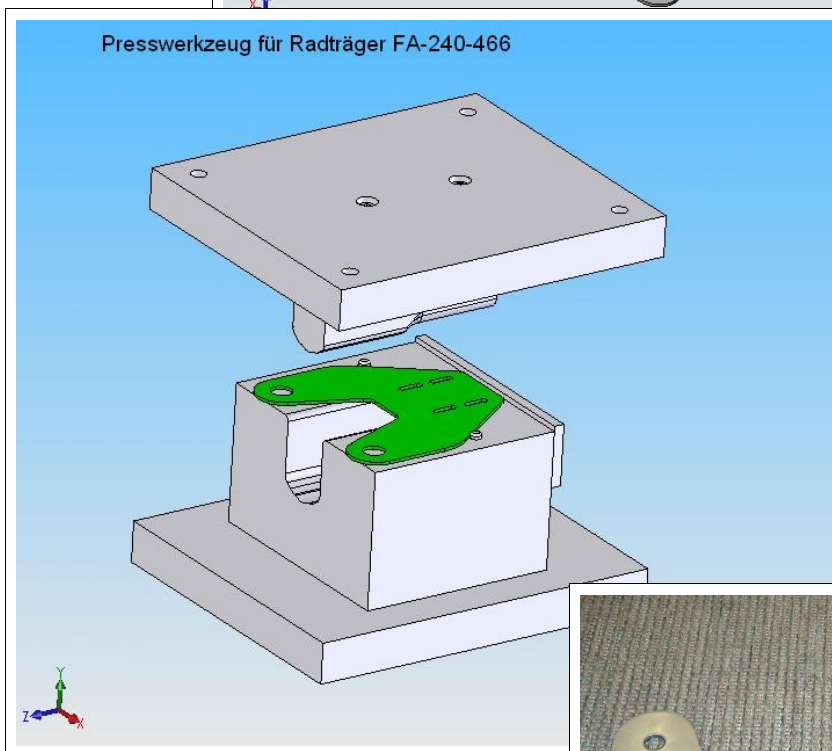
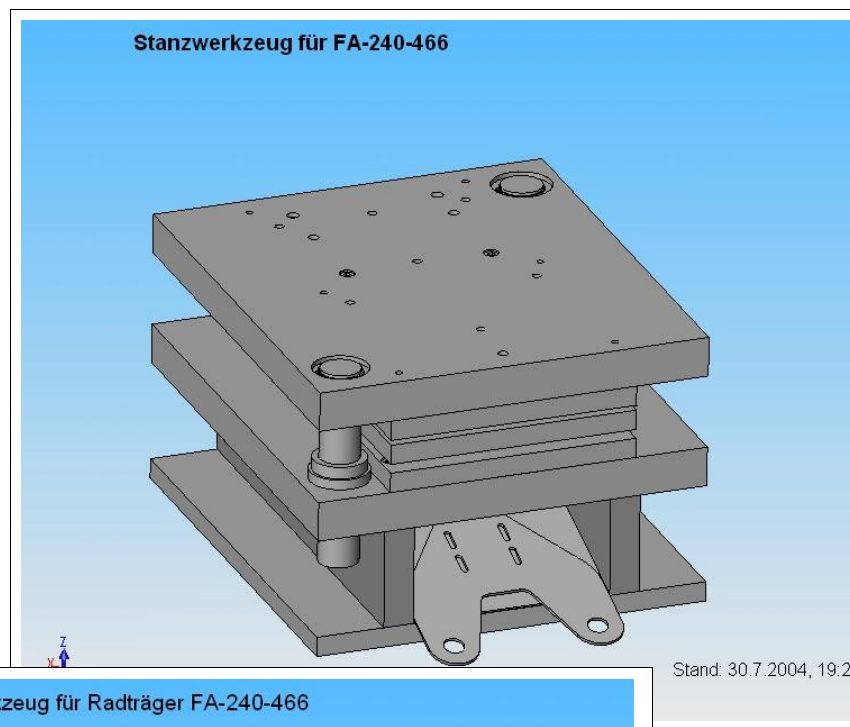


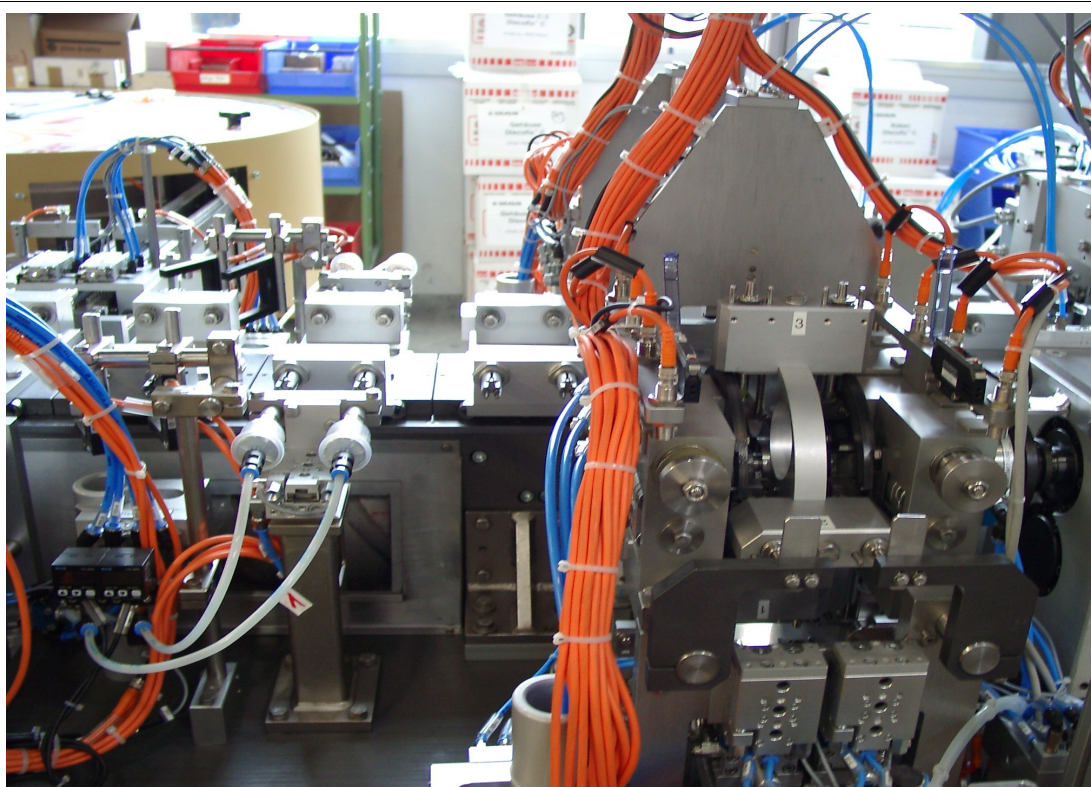




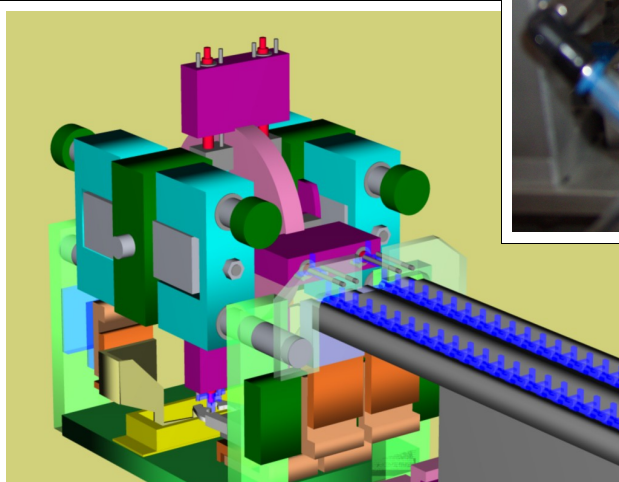
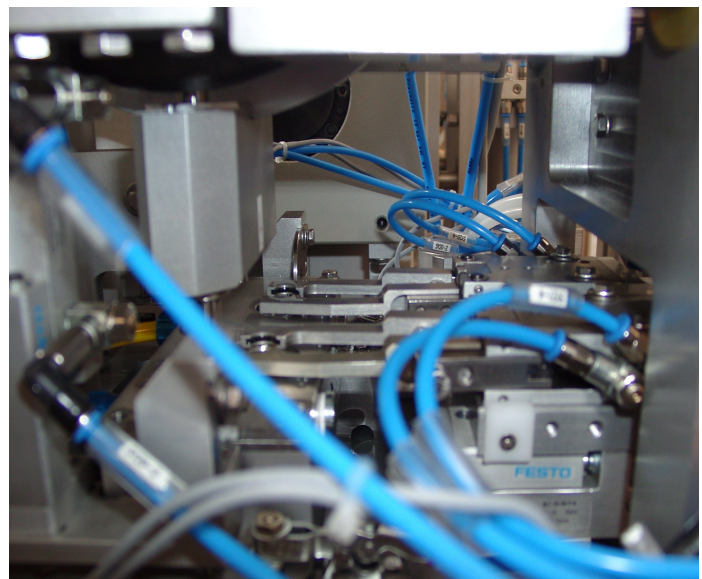
Schweiß-Prägestation einer Produktionsanlage





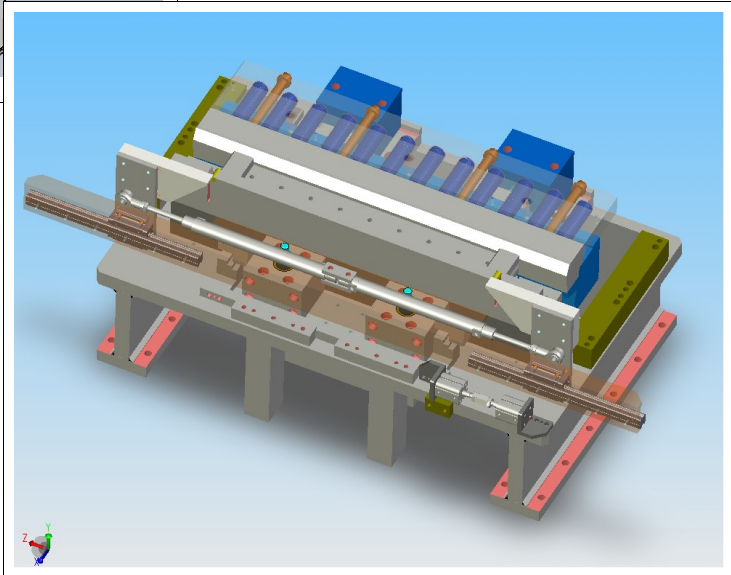
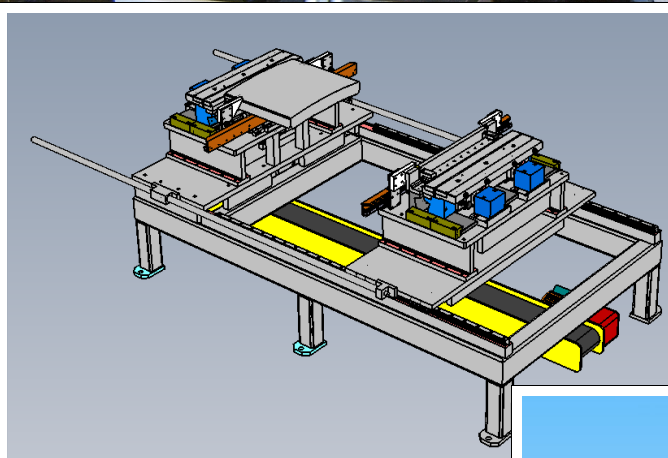
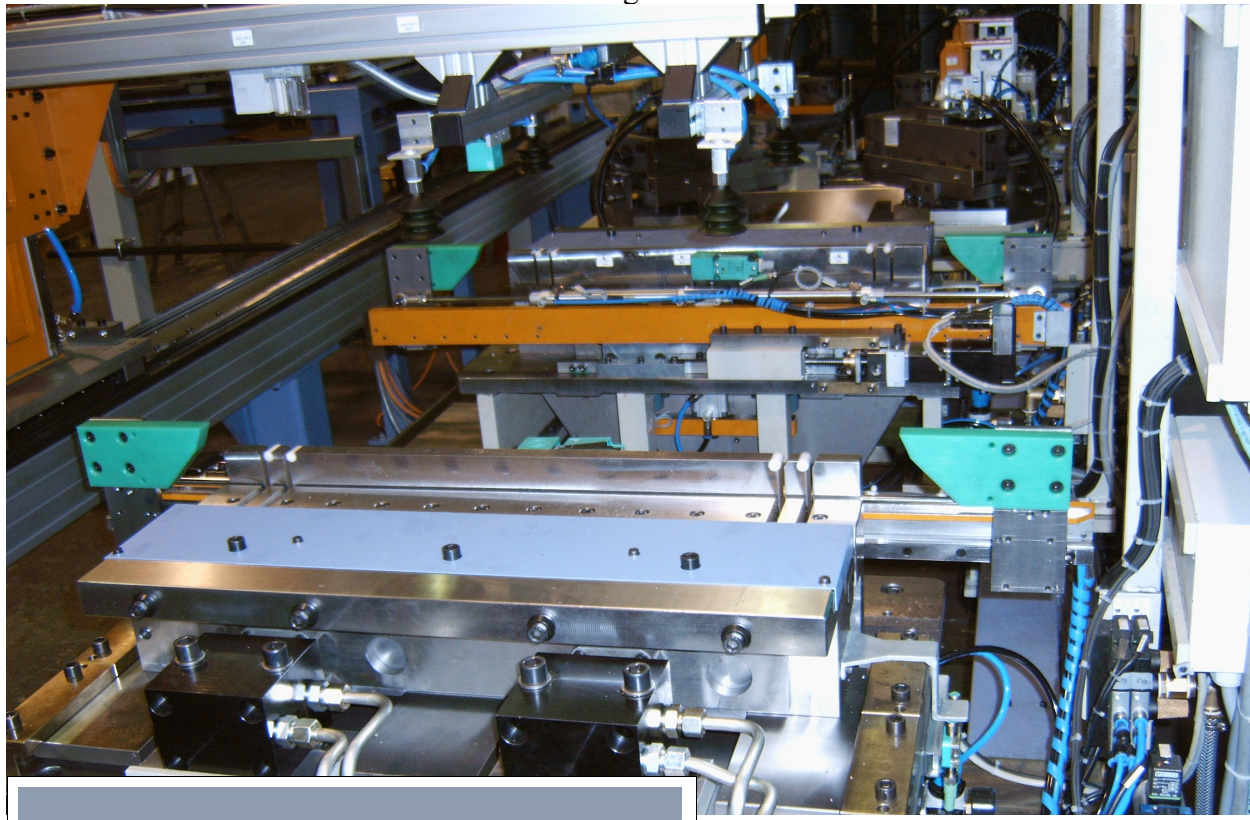


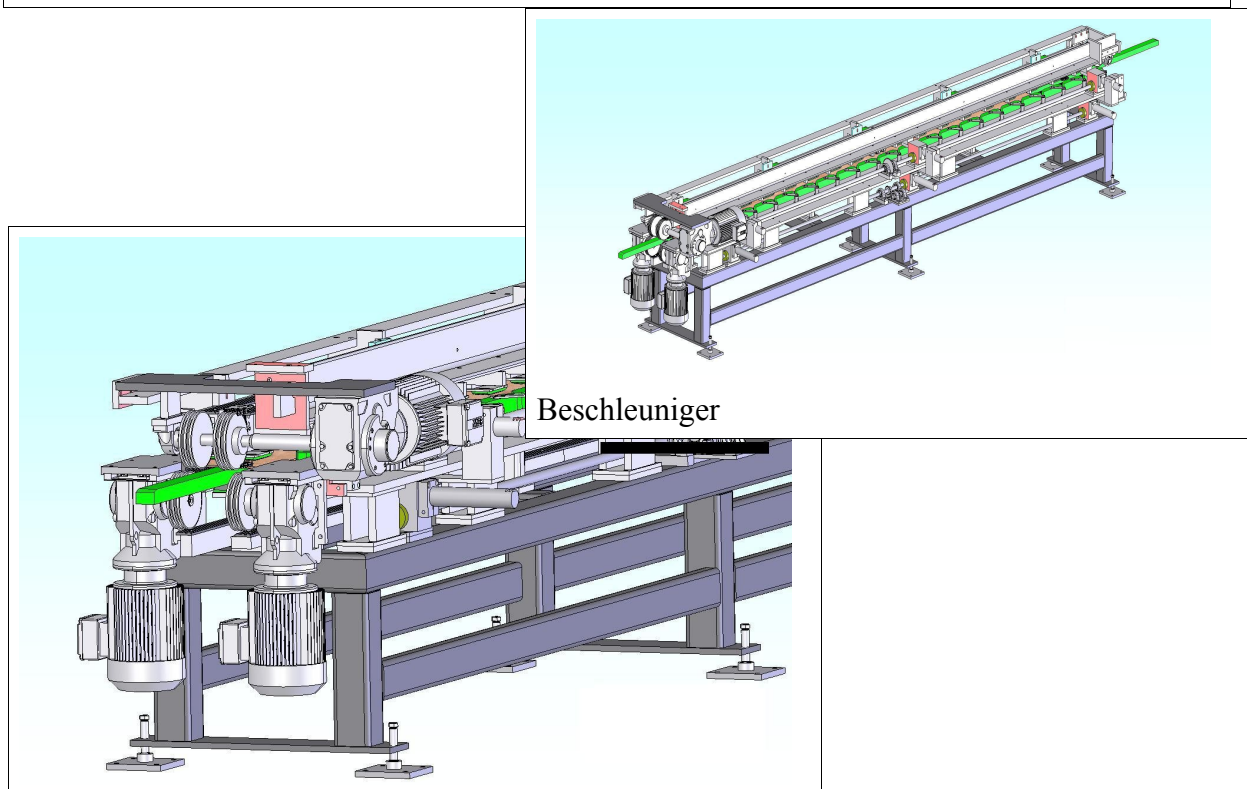
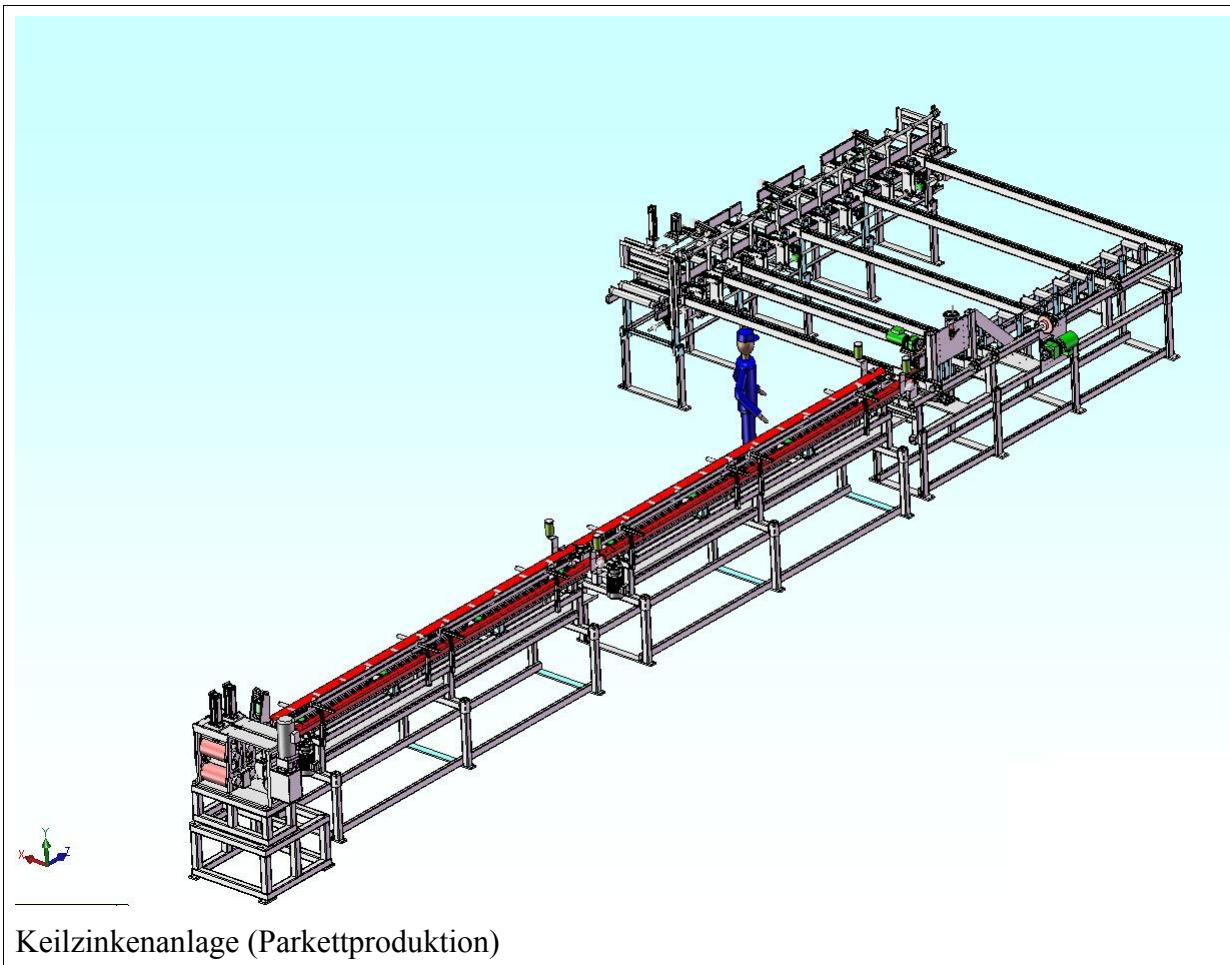
3-Wegehahn-Montage, Silikonisierstation Kükens, demontierte Zuführschiene



Design-Entwurf

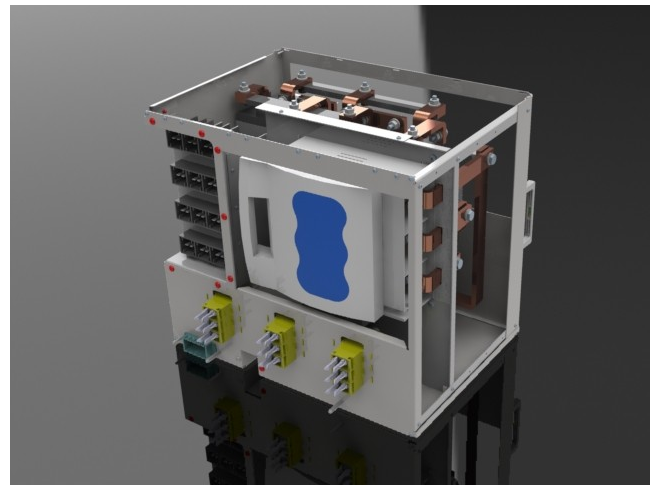
Stirnseitenbeschneiden in einer Produktionsanlage







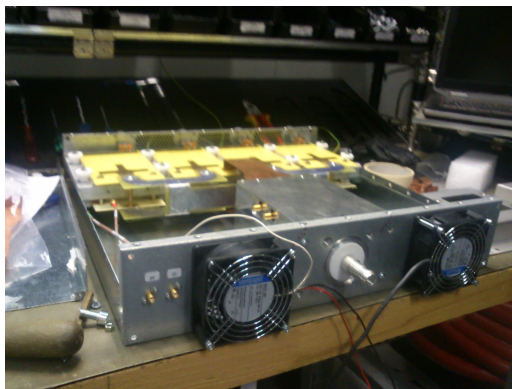
MCC-Feld-Schaltschrank



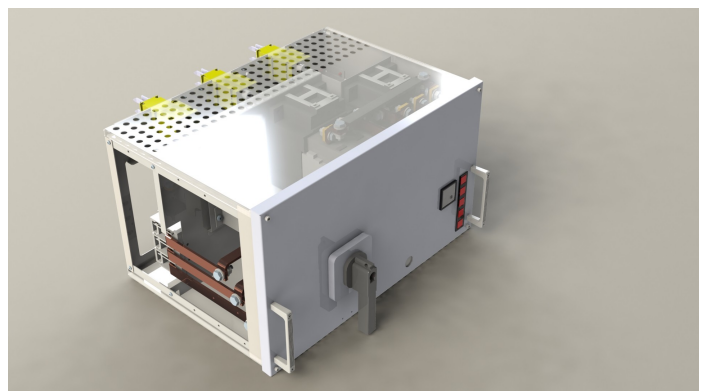
2HE Schaltmodul (1HE=175mm)
Stromschienenseite



Bedienseite



45kW-Combiner eines HF-Generators
für CO2-Laser



Steuermodul 2HE

