



measuring and automation system

MEA systems s.r.o. – measuring and automation system – company has been established in 2014 and operates mainly in Czech Republic. It is a engineering and manufacturing company focused especially on:

- **semi automatic machines (for measuring, quality checking, assembling)**
- **fully automatic measuring machines (included SPC, data archivation...)**
- **technological and automatic assembly lines, single-purpose manufacturing machines**
- **special measuring tools for workshop environment.**

Furthermore :

- **Mechanic and hydraulic workpiece positioners and holders for machining**
- **custom made checking tools for plastic and sheet metal parts**
- **special fixtures for CMM – coordinate-measuring machines (mechanically, magnetically and pneumatically operated)**
- **custom limit gauges, special measuring tips and probes**
- **engineering works in 3D – SolidWorks**
- **Repairs, restoration, renovation and modernization of measuring devices and machines.**

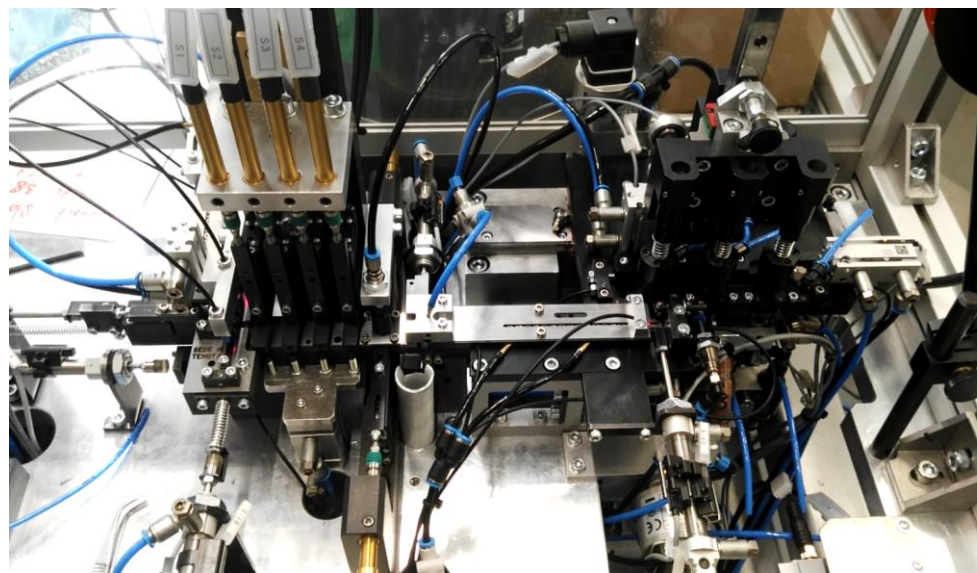
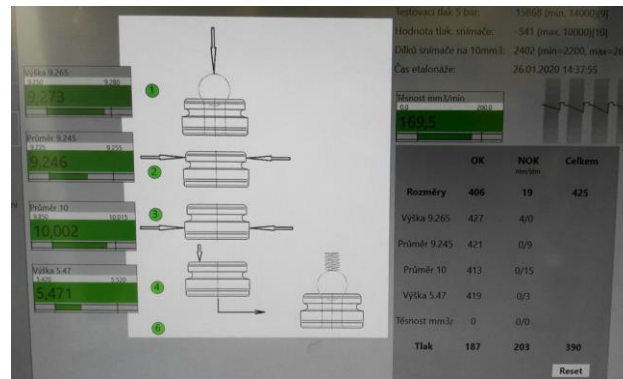
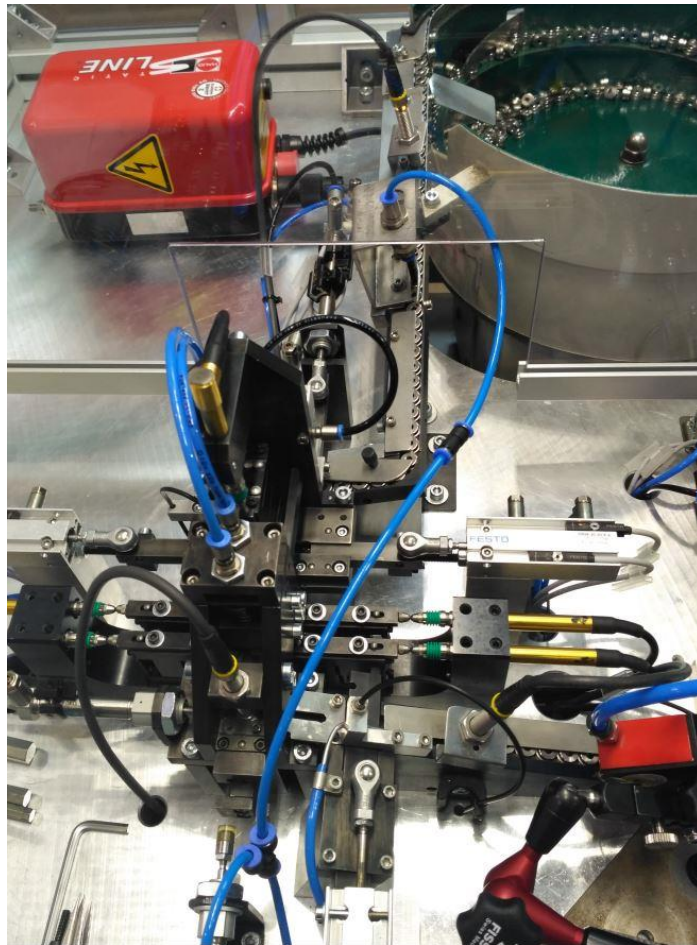
Automatic measuring machines

Automatic dimension measuring machine for head and tail lamps



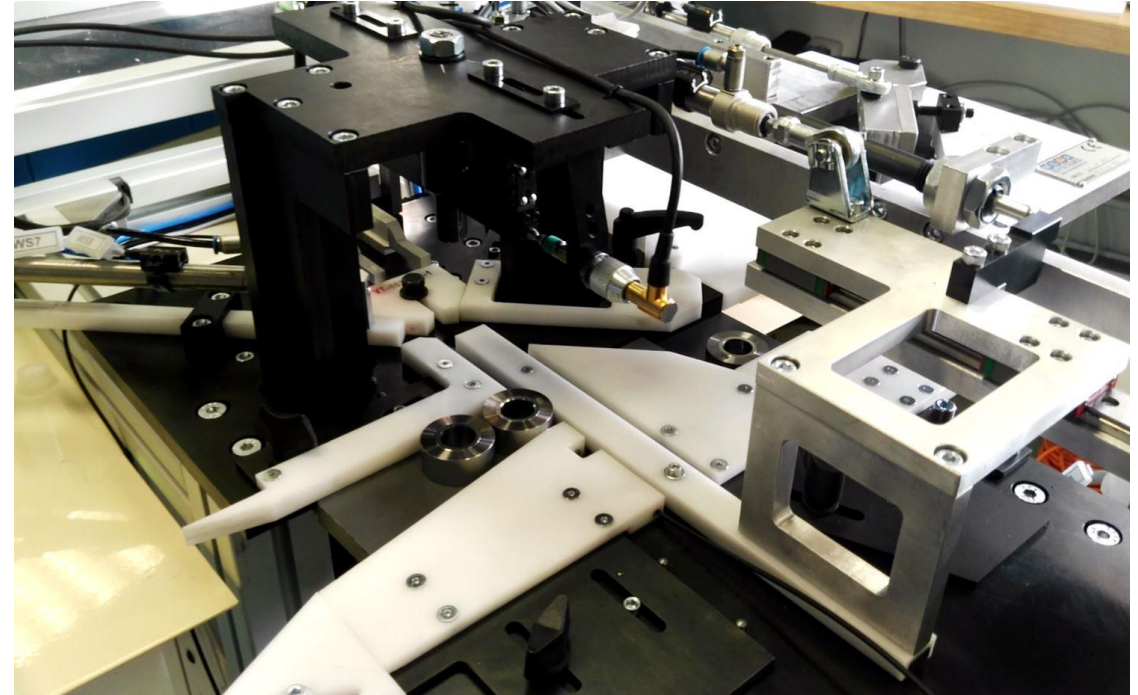
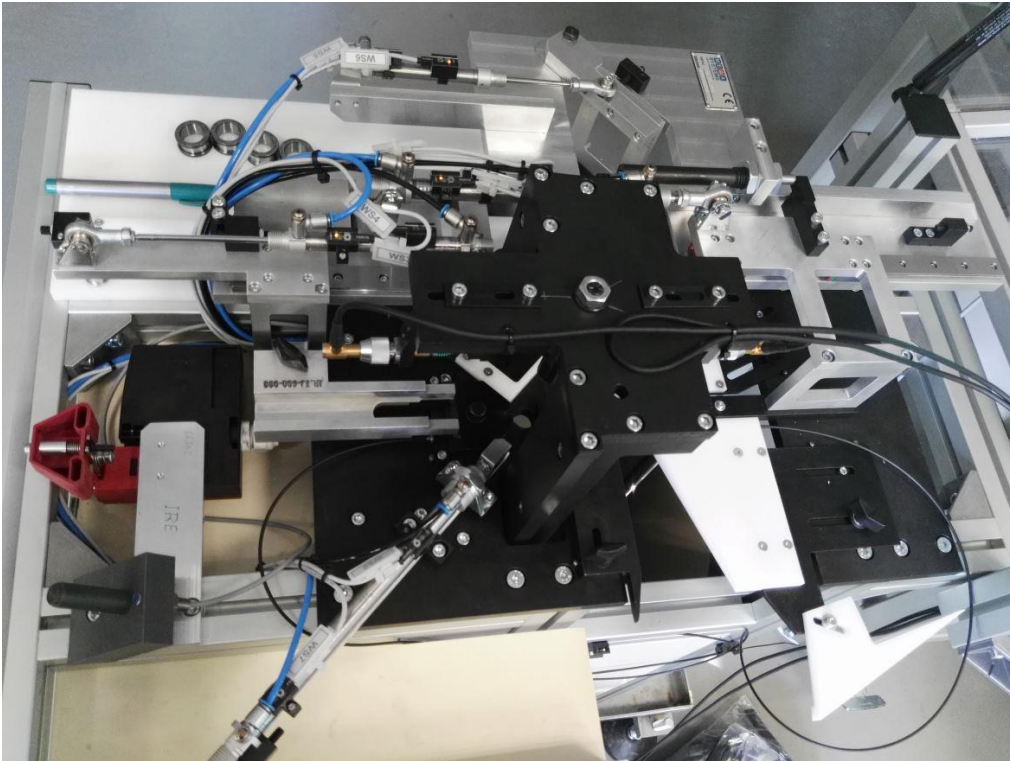
Automatic measuring machines

Dimensions and air tightness measurement of fuel injection component



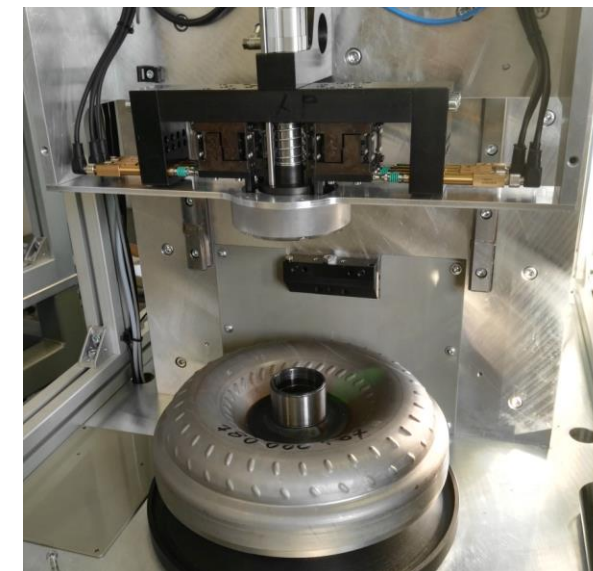
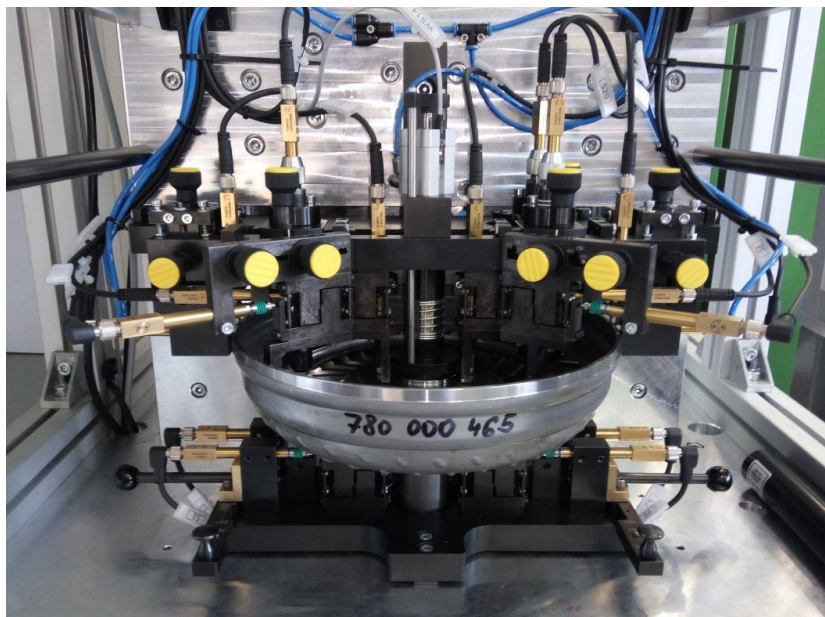
Automatic measuring machines

Automatic measuring stations integrated in production line for measuring of grounded bearing rings.



Automatic measuring machines

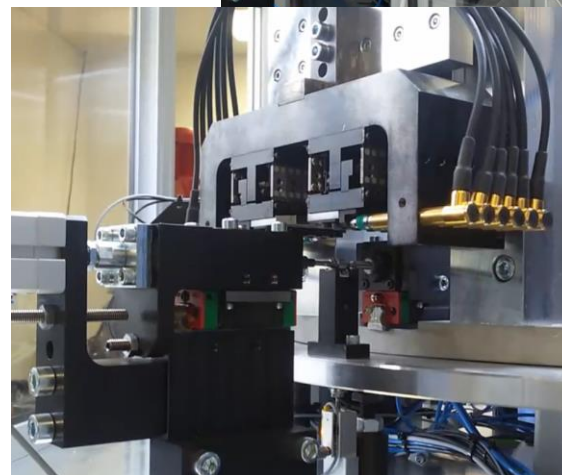
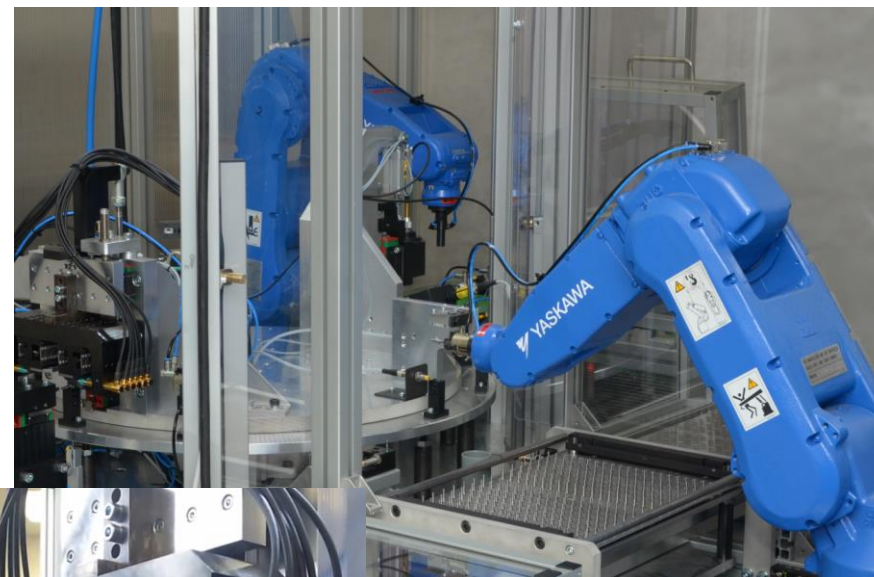
Dimension and geometrical tolerance measurement of torque converter



průměr
délka
ovalita
házení

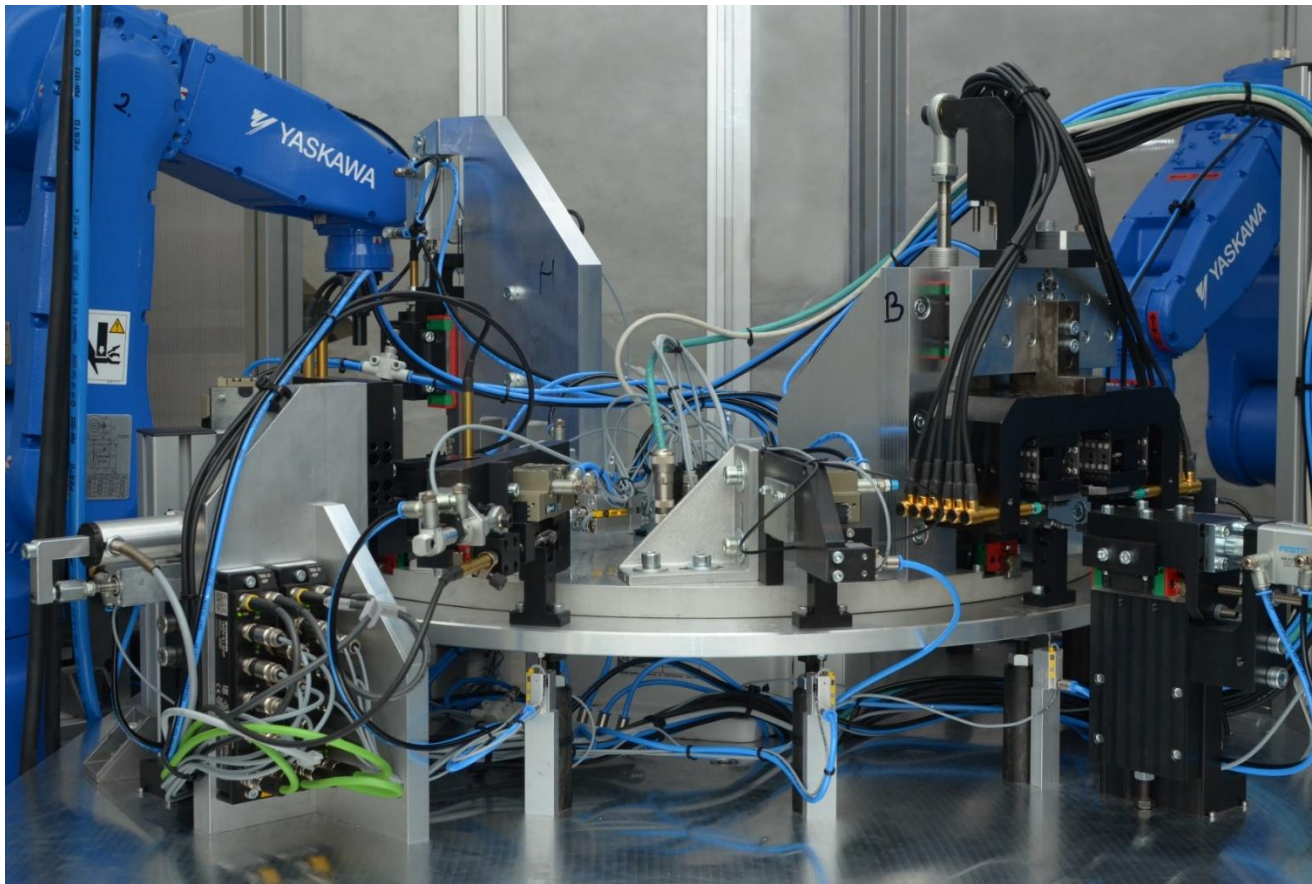
Automatic measuring and manipulation lines

Automatic measuring line equipped with robotic loading/discharging of measured parts



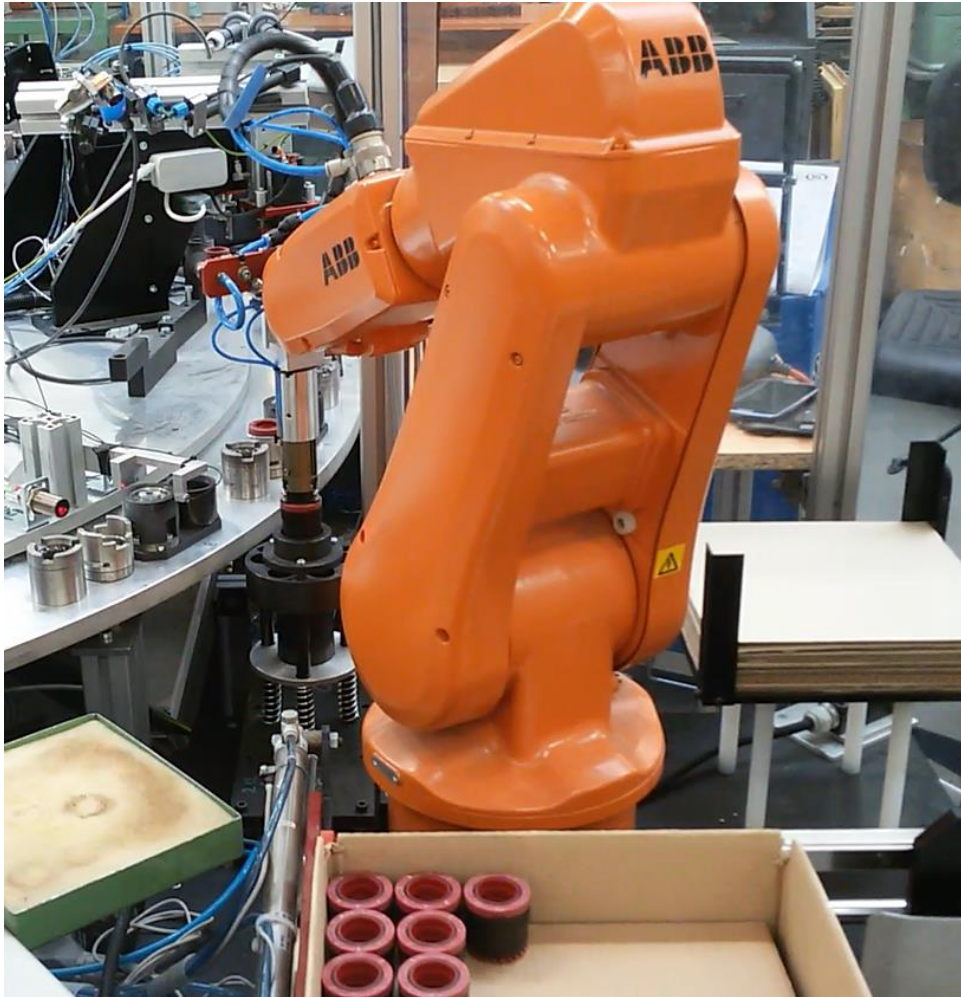
Automatic measuring and manipulation lines

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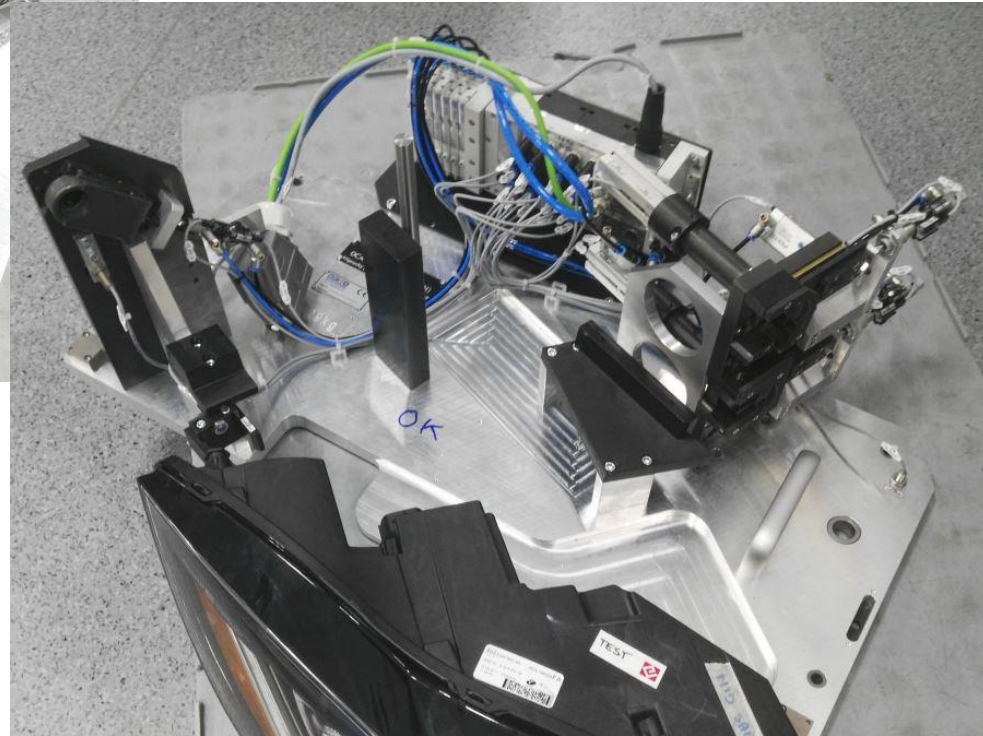
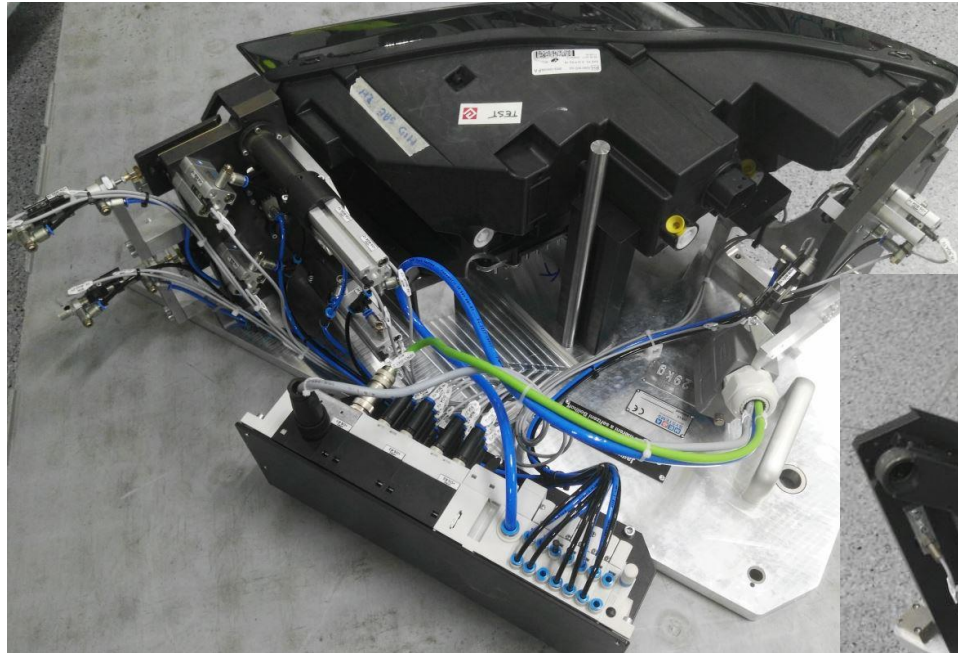
Automatic measuring and manipulation lines

Implementing of automatic gluing process using robotic arm and subsequent part checking



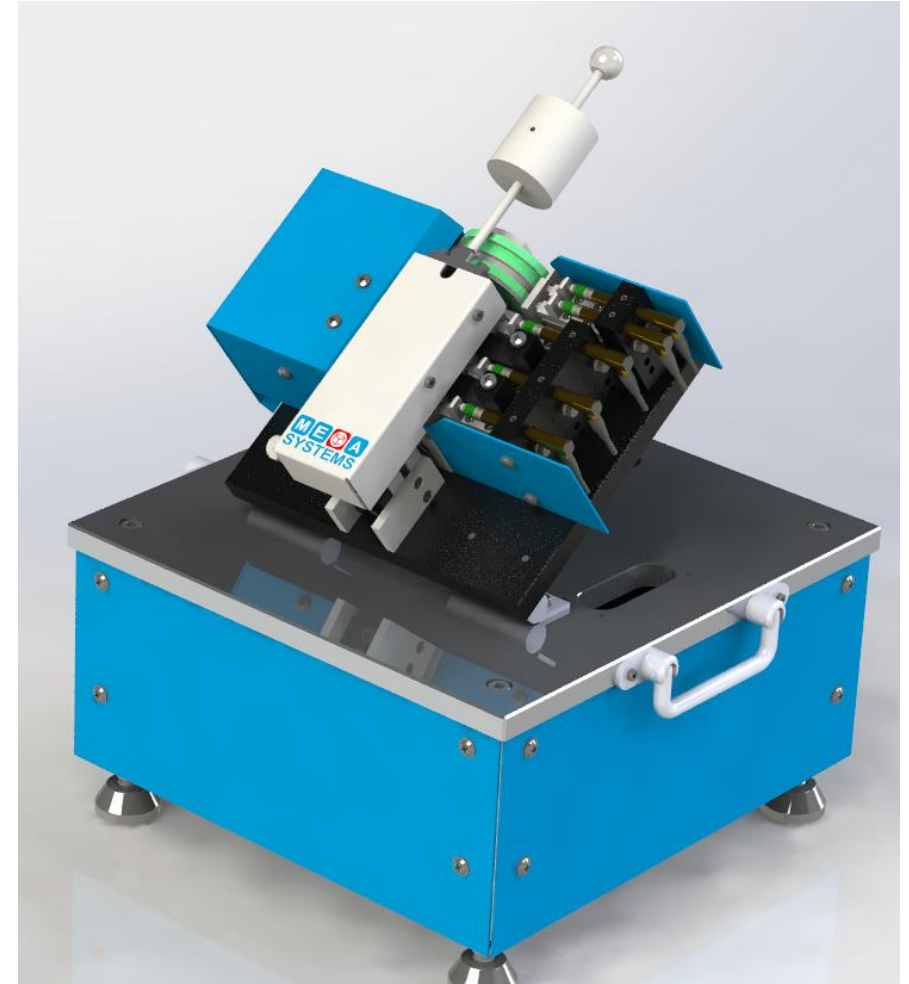
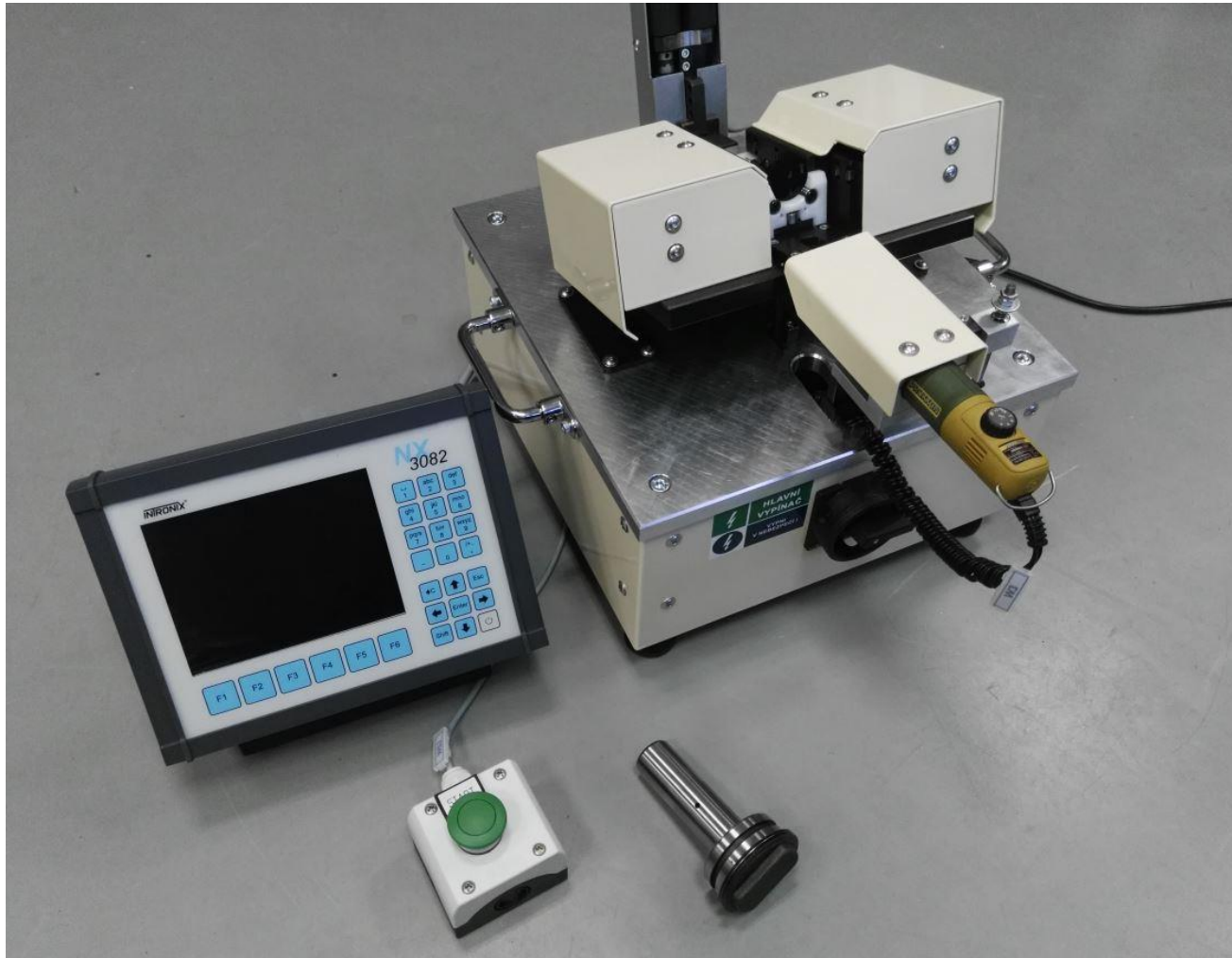
Clamping device for automatic production lines

Automatic head lamp clamping device with pneumatic fixtures



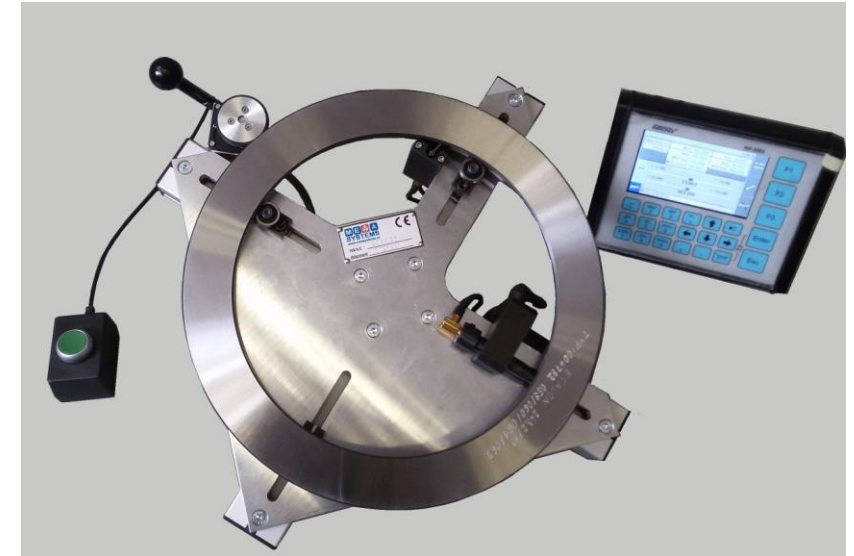
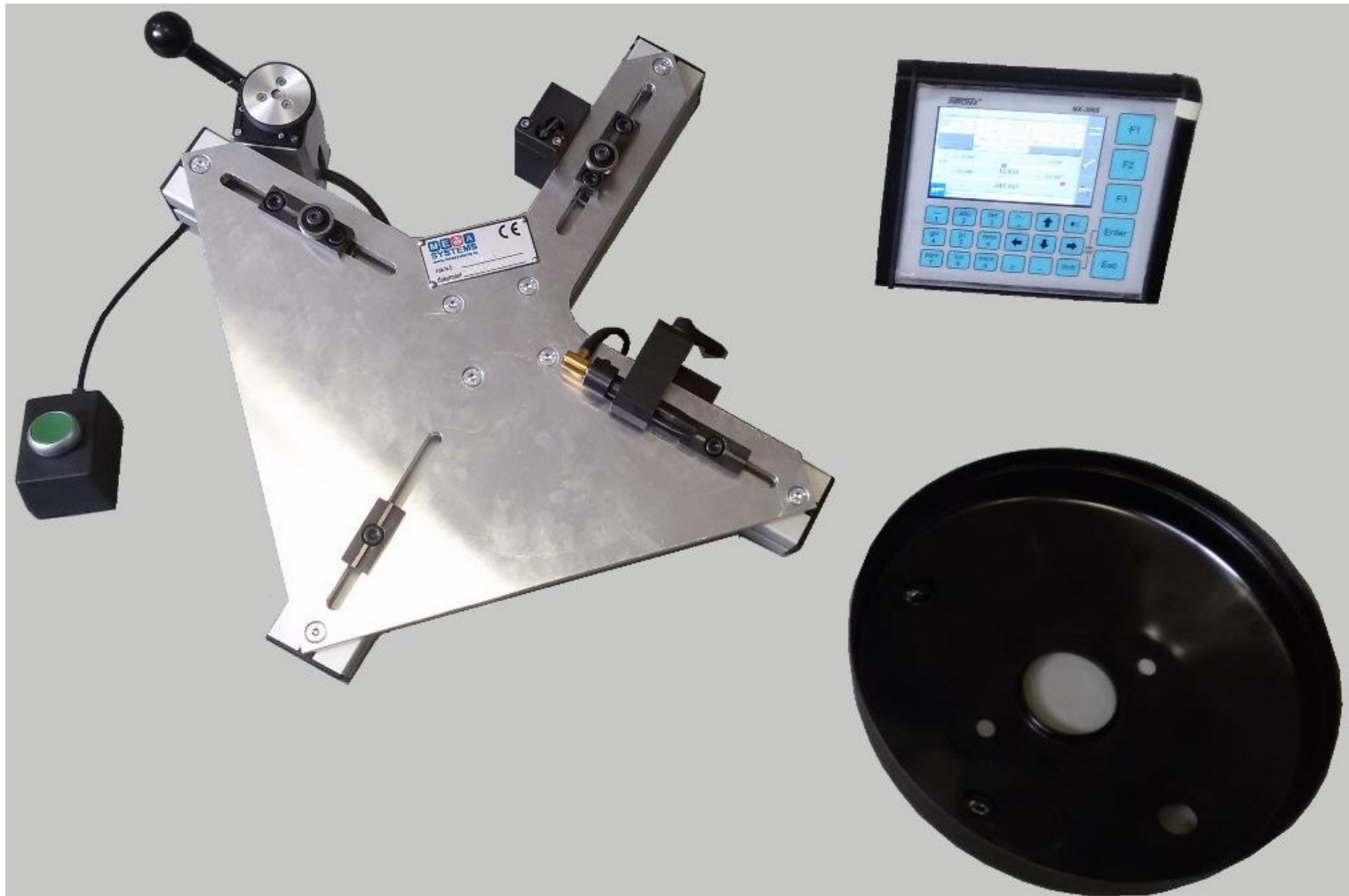
Semi automatic measuring devices

Dynamic measurement of diameter and circularity



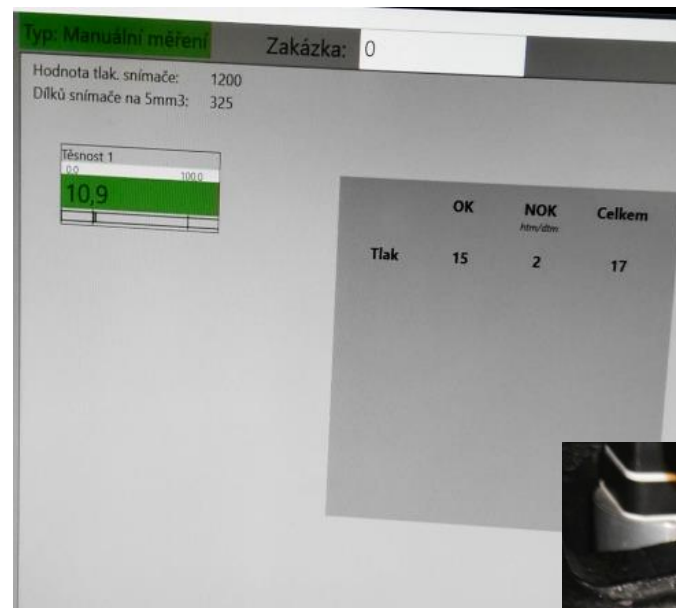
Semi automatic measuring devices

Dynamic measurement of diameter and circularity



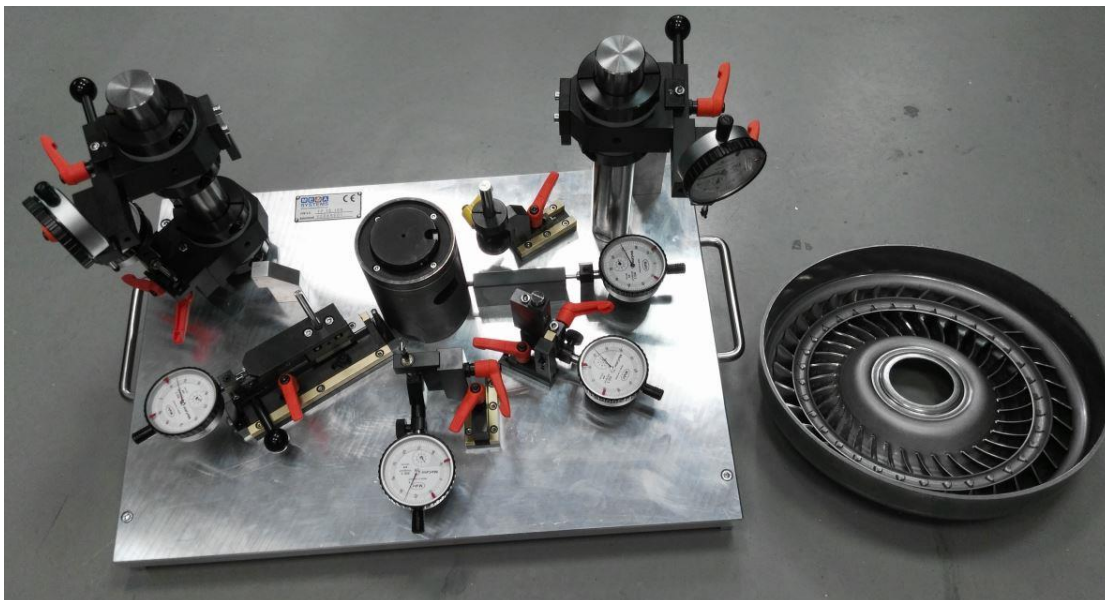
Semi automatic measuring devices

AIR LEAK MEASUREMENT



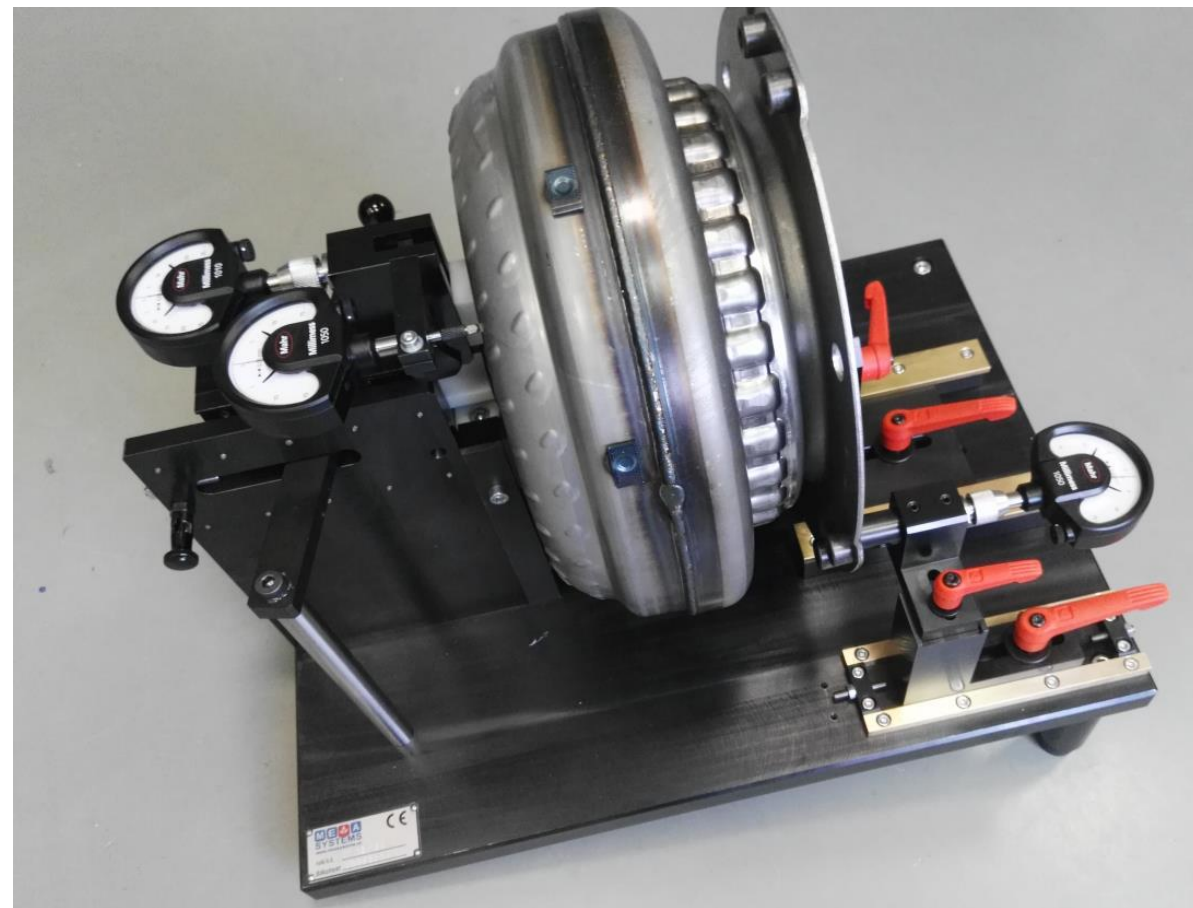
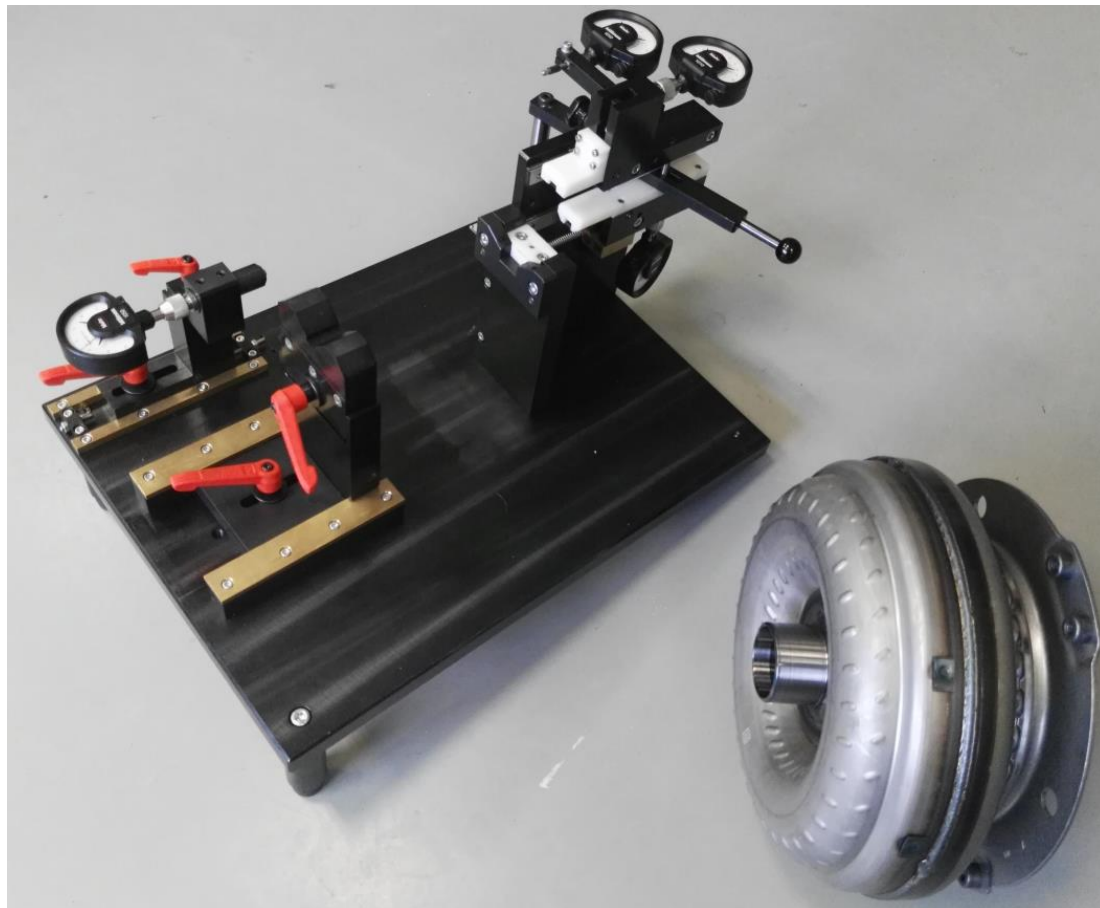
Multiparametric checking tools for workshop env.

Dimensions and circular run-out measurement

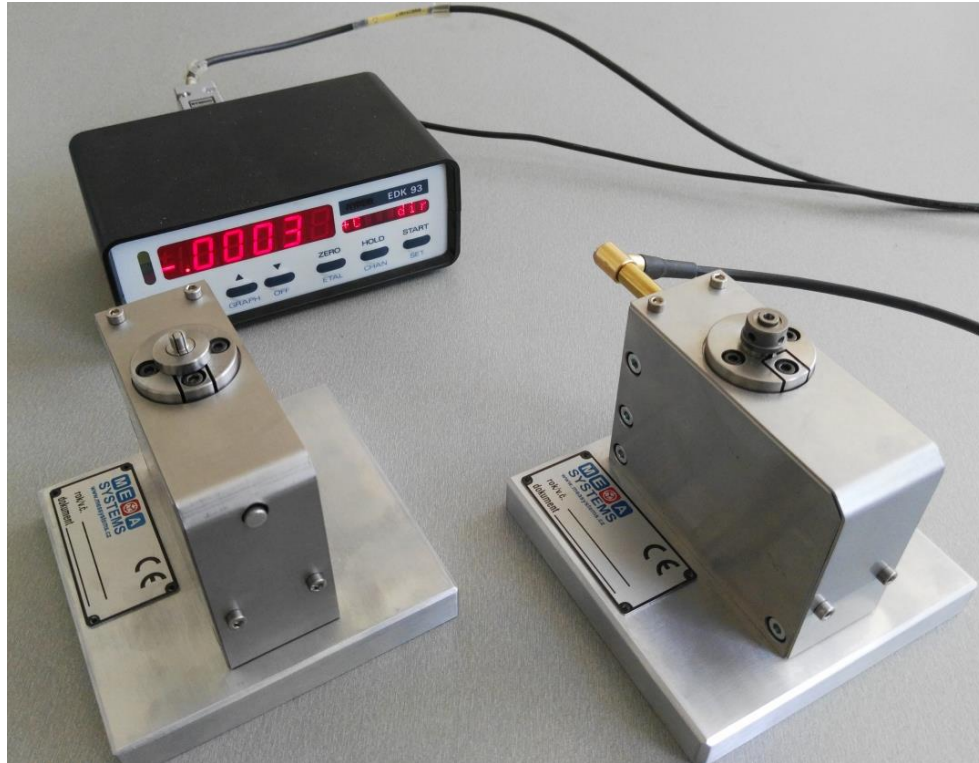


Multiparametric checking tools for workshop env.

Dimensions and circular run-out measurement



Dynamic measurement of diameter and circularity



Měření vnitřních průměrů od 4mm
Měření ovality

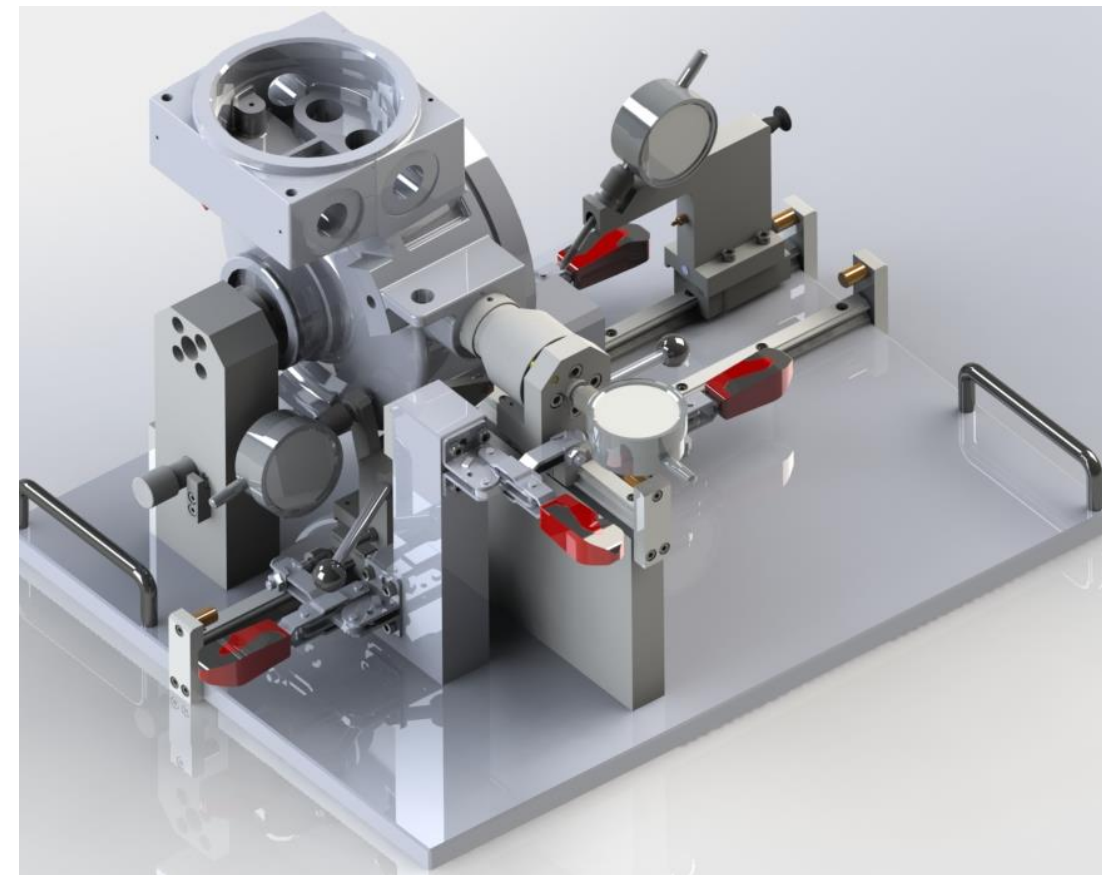
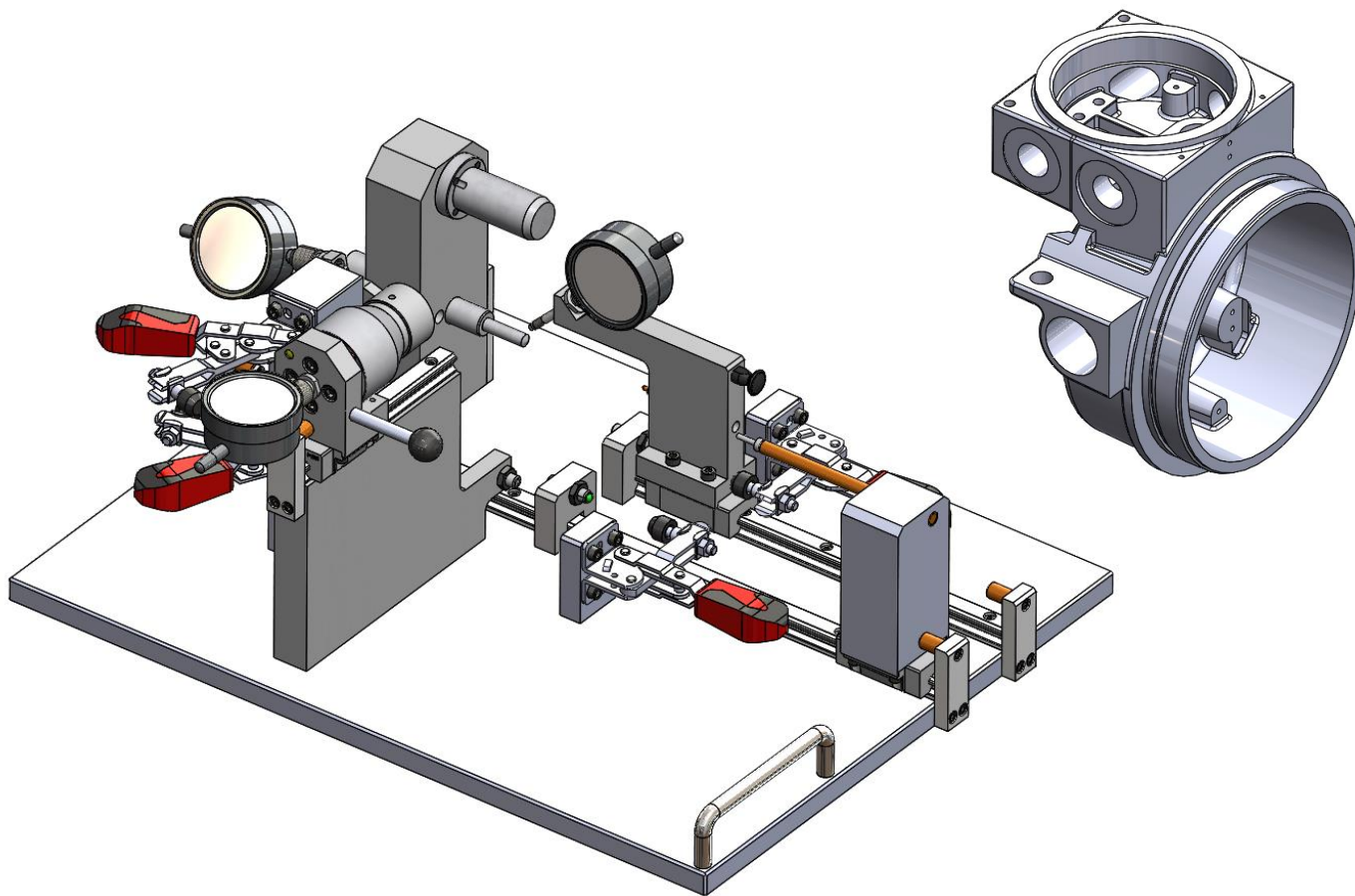
Univerzální měřidlo pro měření:

- Vnitřních průměrů
- Vnějších průměrů
- Házení
- Ovality

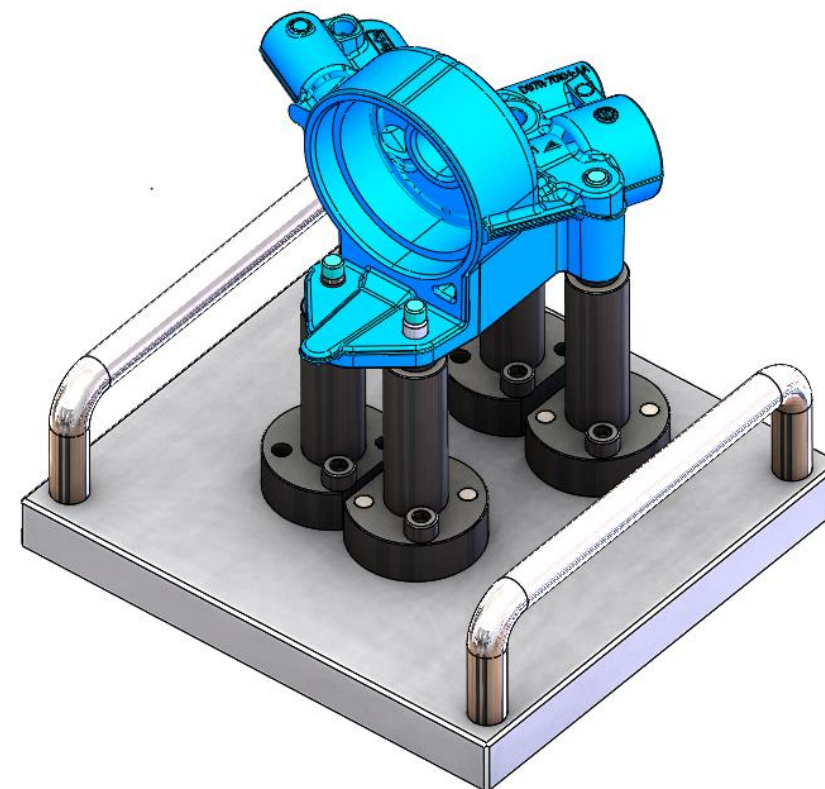
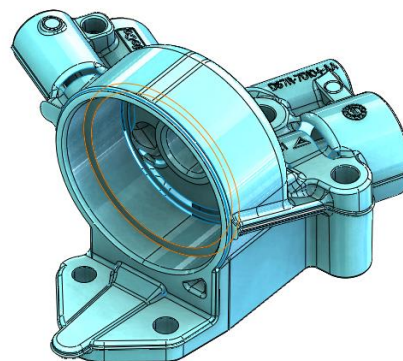
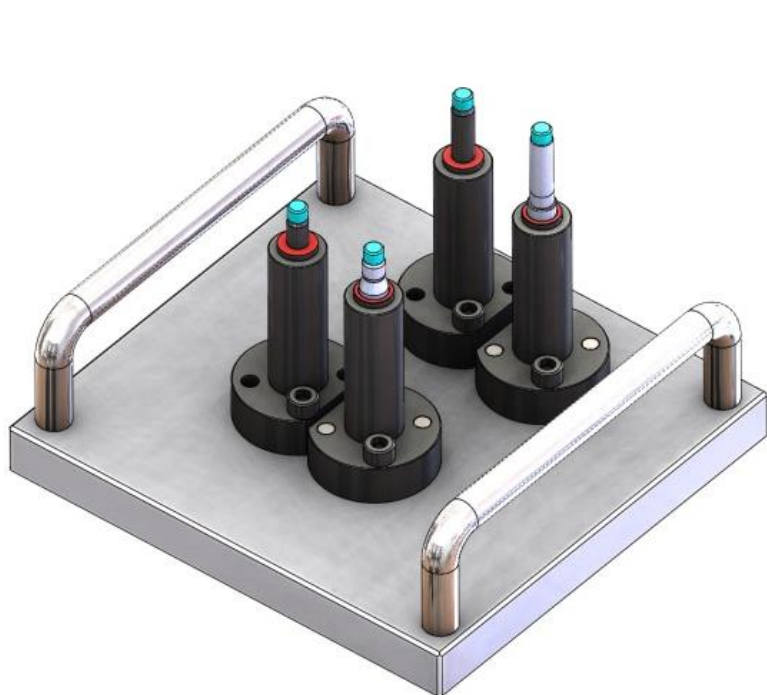


Multiparametric checking tools for workshop env.

Complex part check



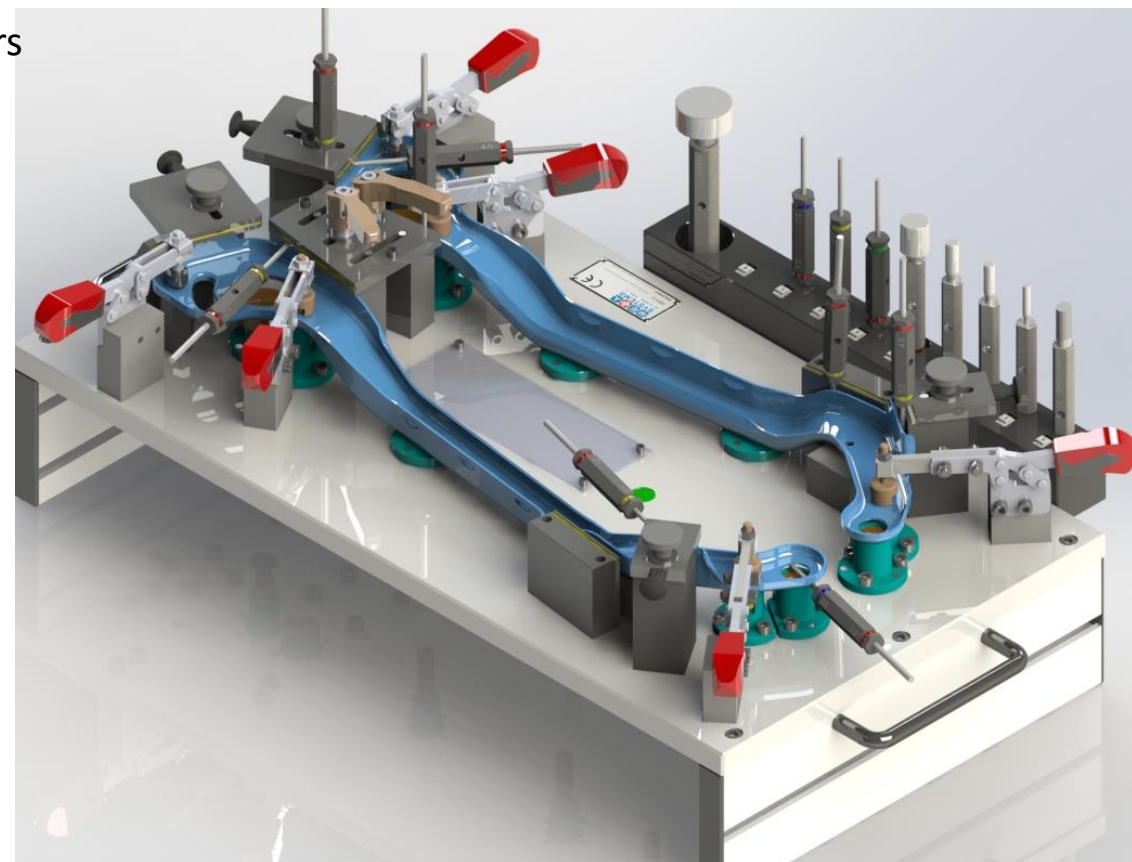
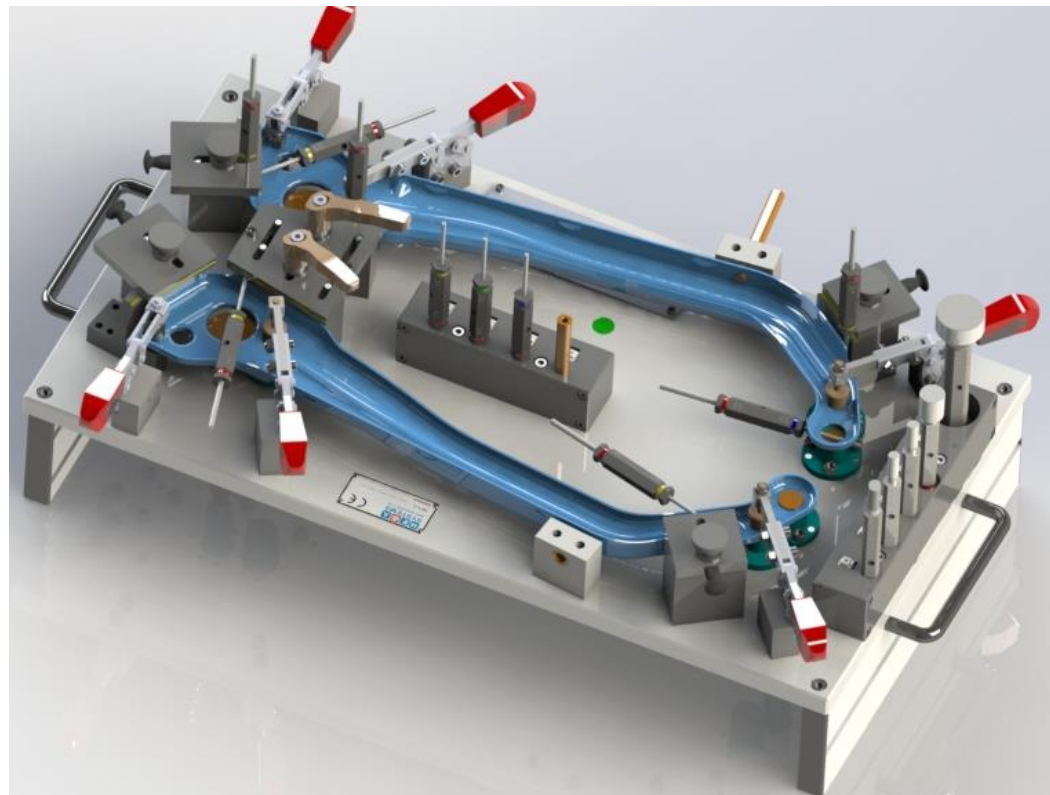
Special tables for shape, location, and dimension check



Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry

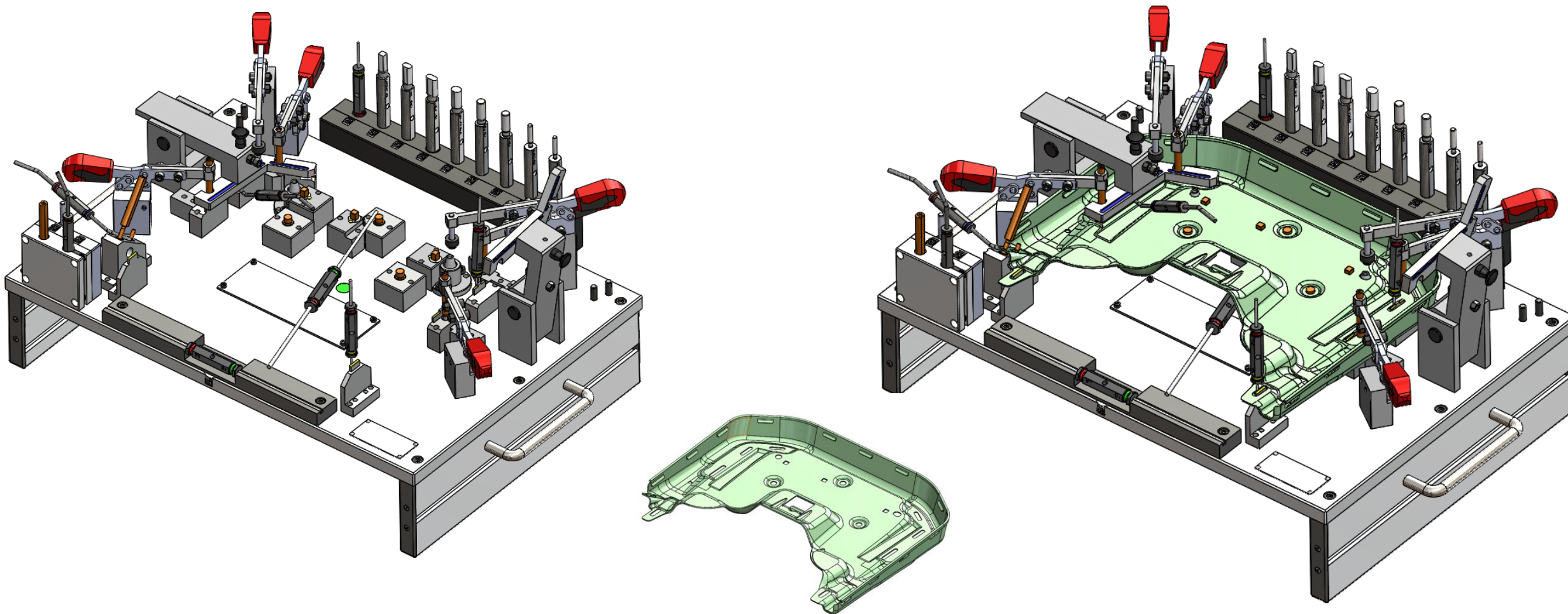
Parameter check using gap gauges, limit gauges, and retractable calipers



Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry

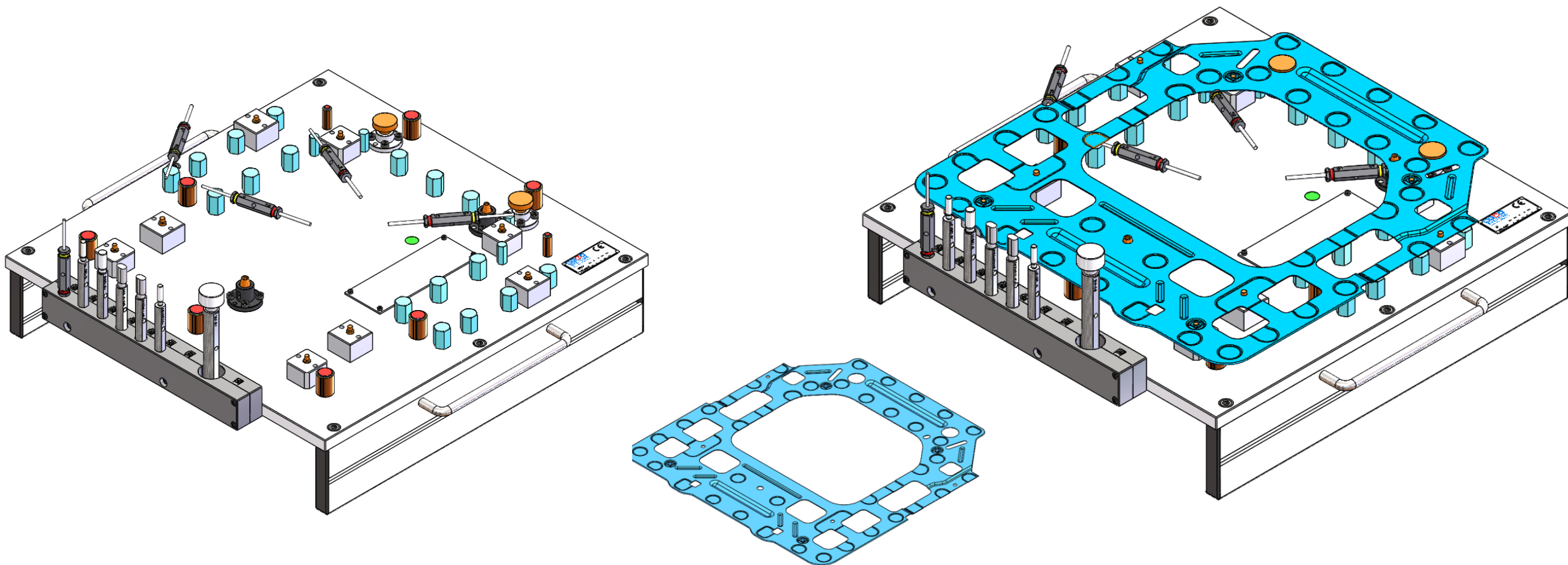
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Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry

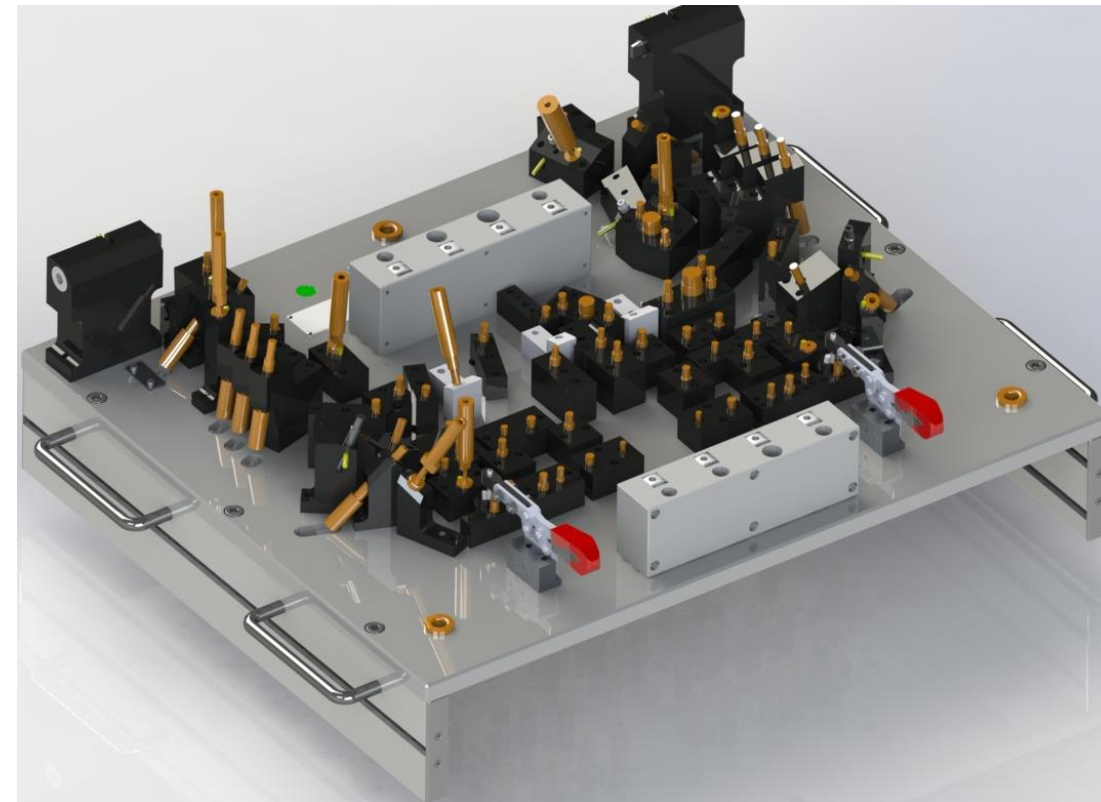
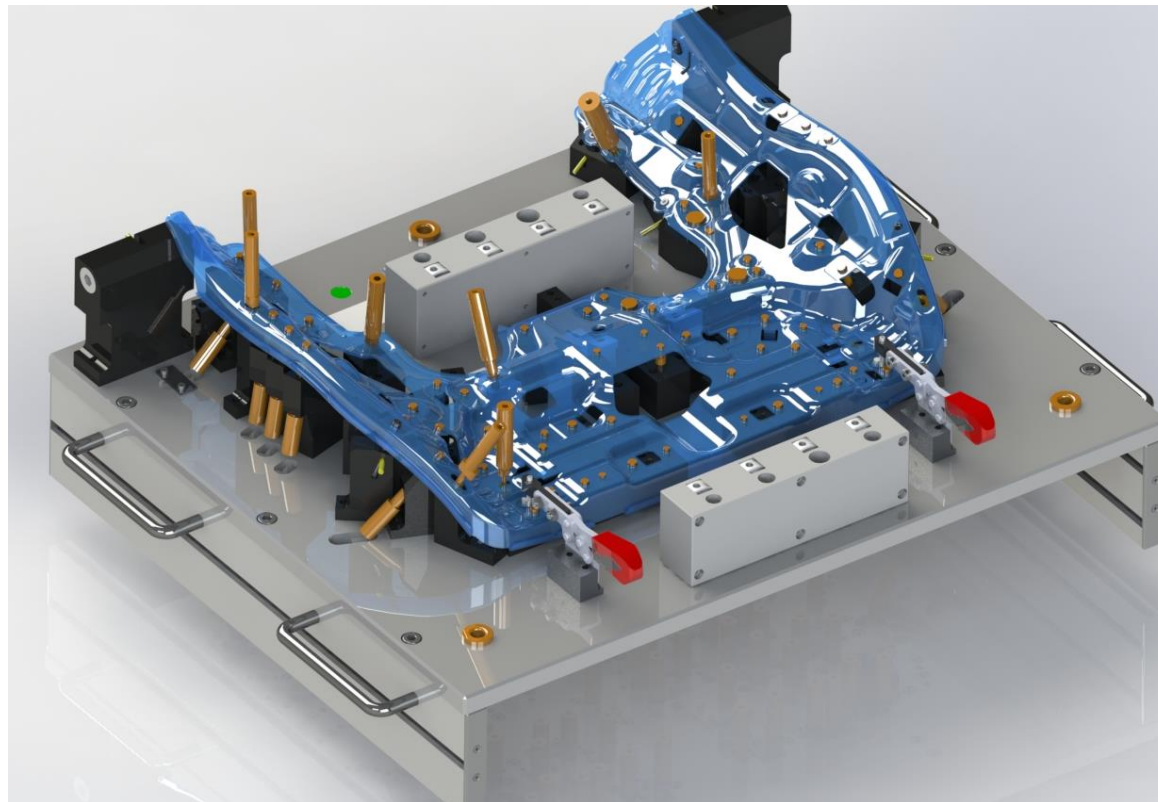
Parameter check using gap gauges, limit gauges, and retractable calipers



Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry

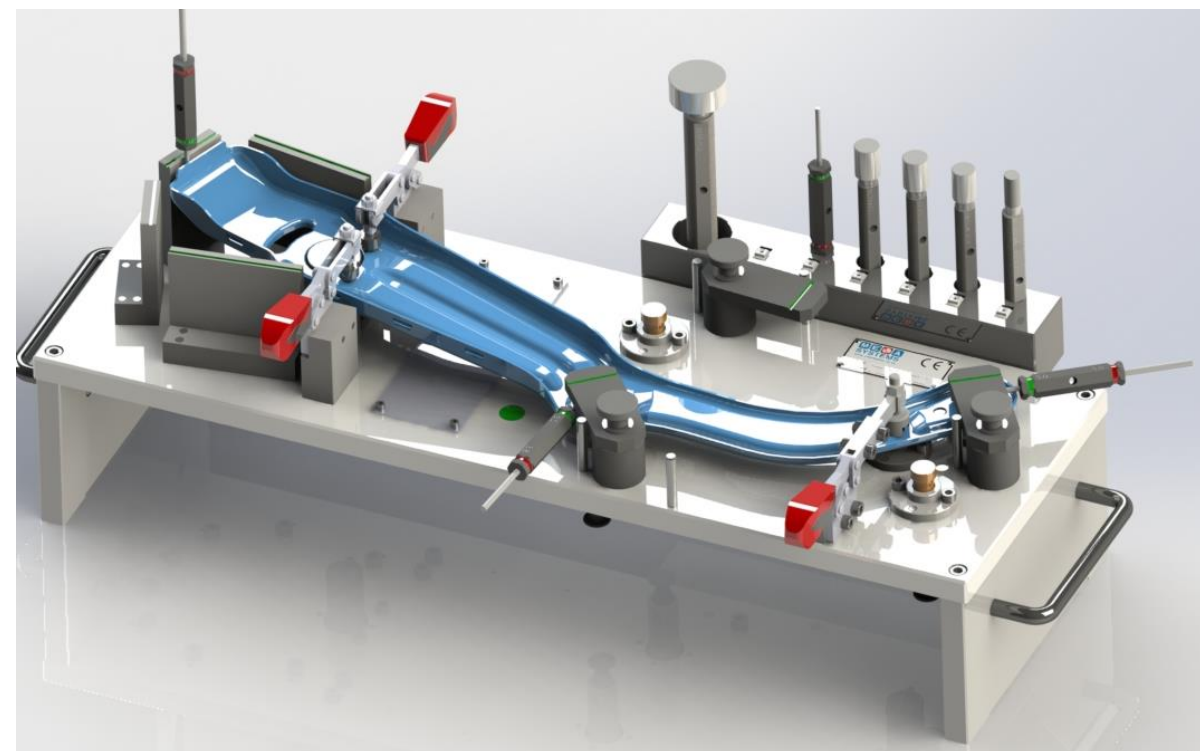
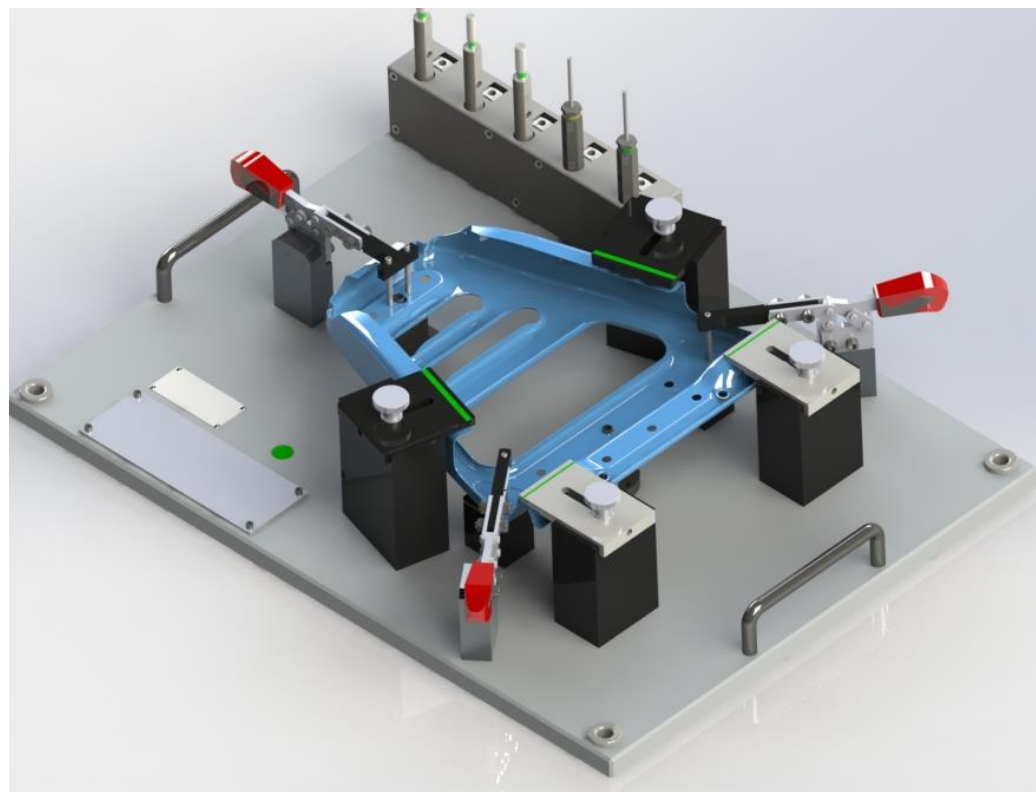
Parameter check using gap gauges, limit gauges, and retractable calipers



Special tables for shape, location, and dimension check

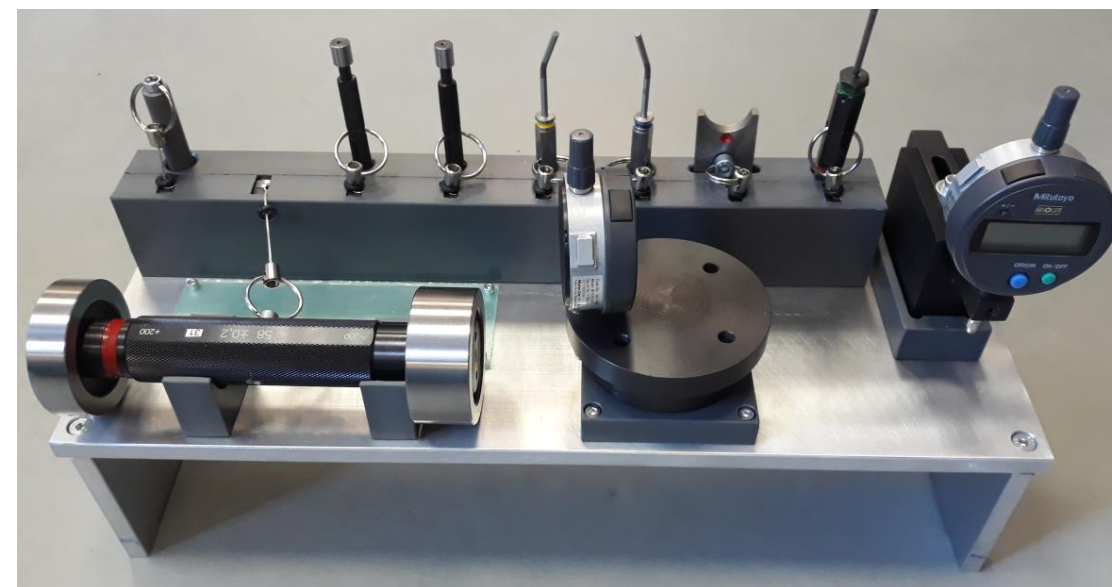
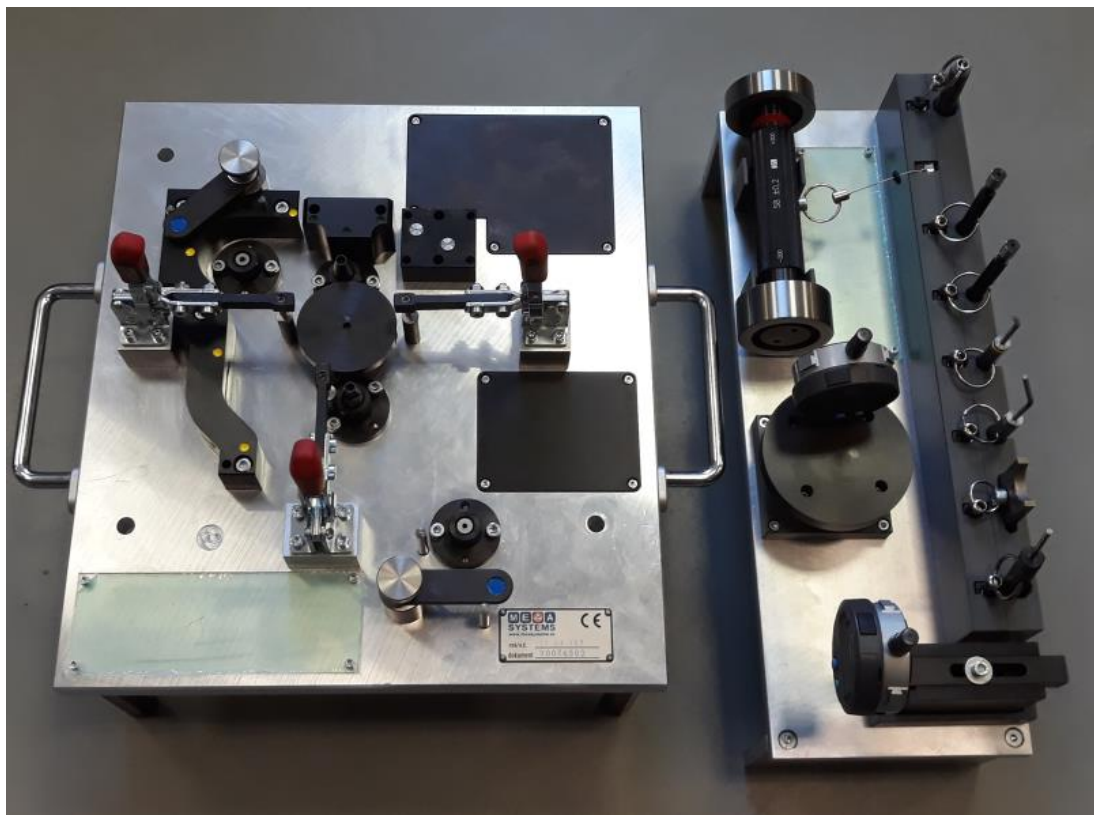
Sheet metal and plastic parts for automotive industry

Parameter check using gap gauges, limit gauges, and retractable calipers



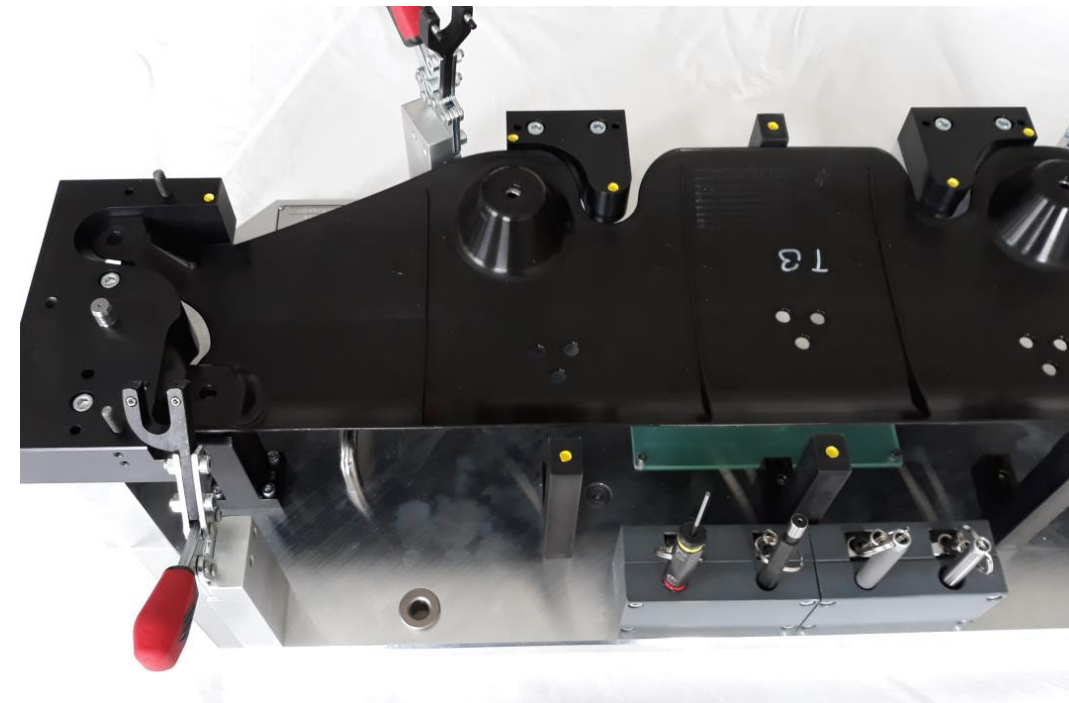
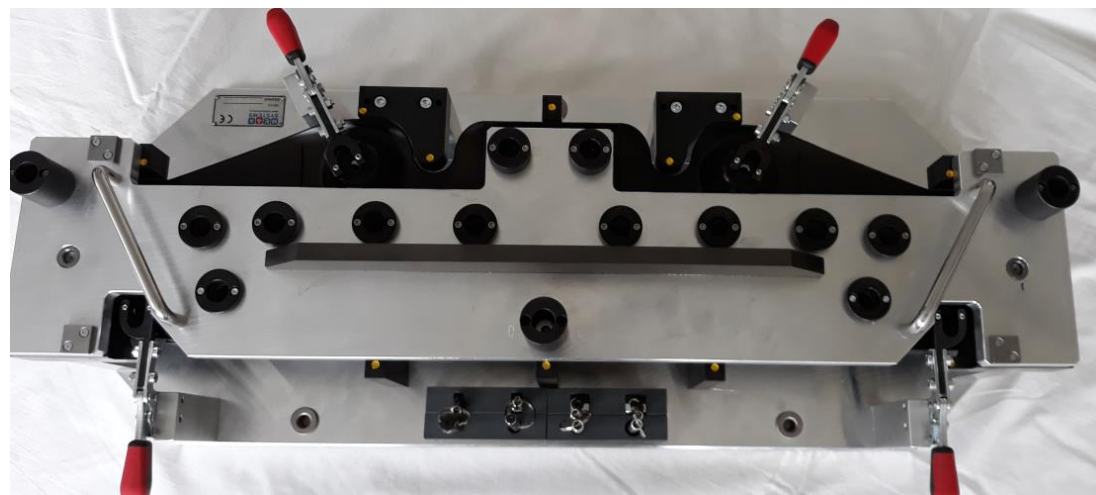
Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry



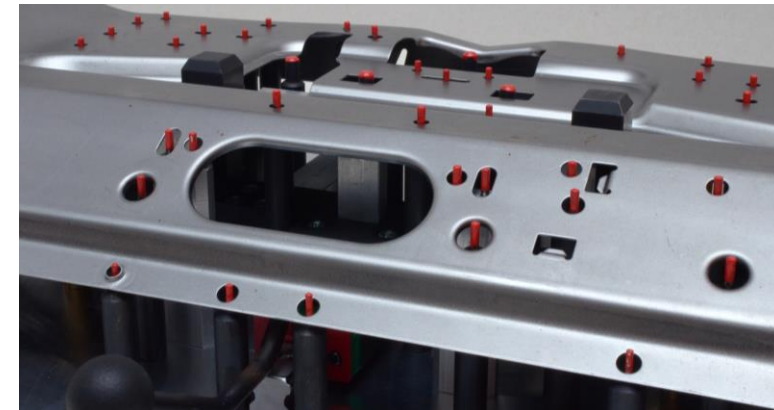
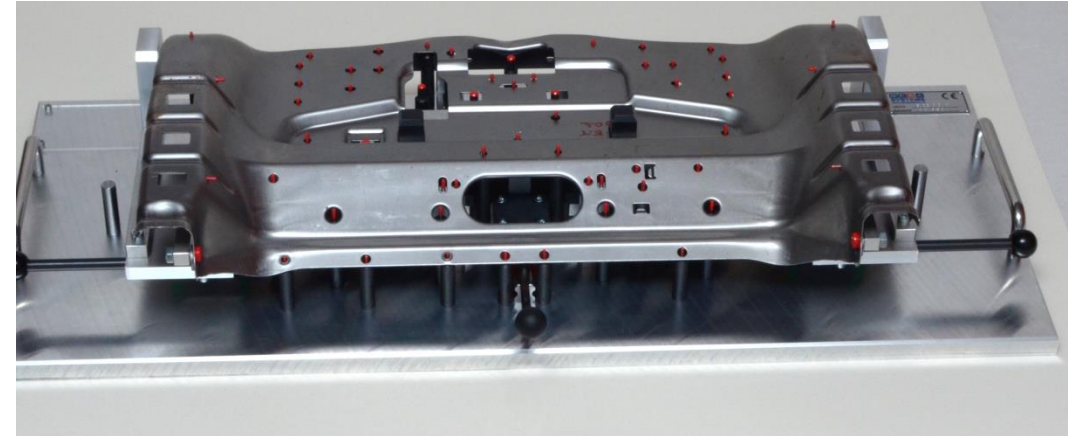
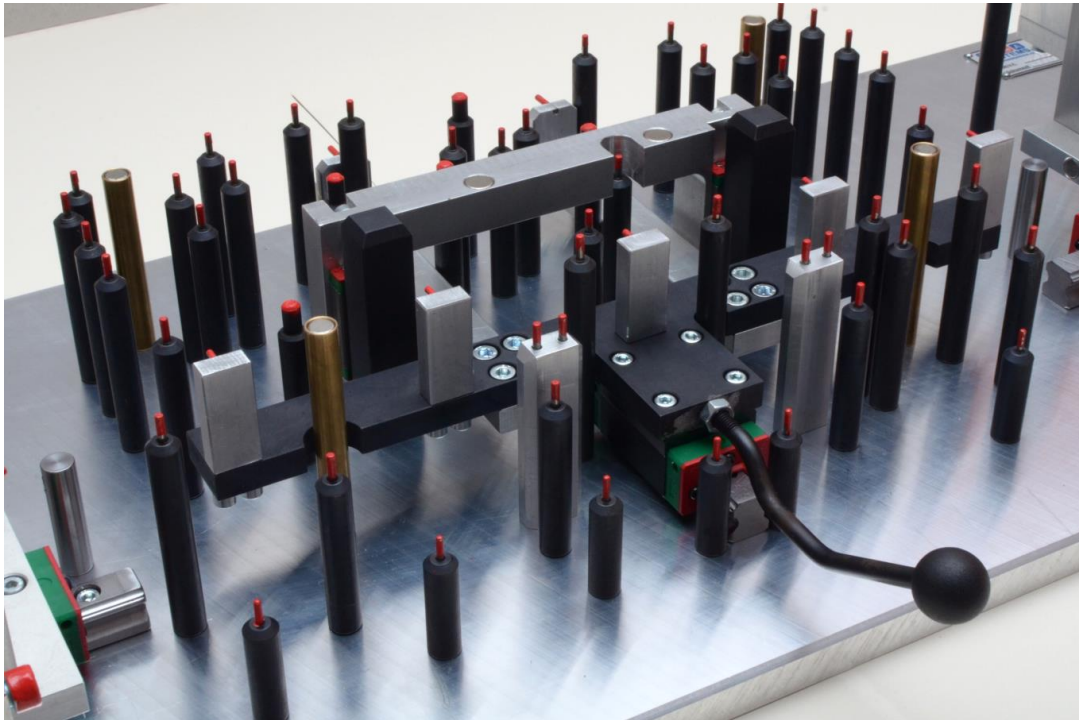
Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry



Kontrolní přípravky tvaru, polohy, rozměrů

Kontrola prostřížení otvorů na plechovém dílu



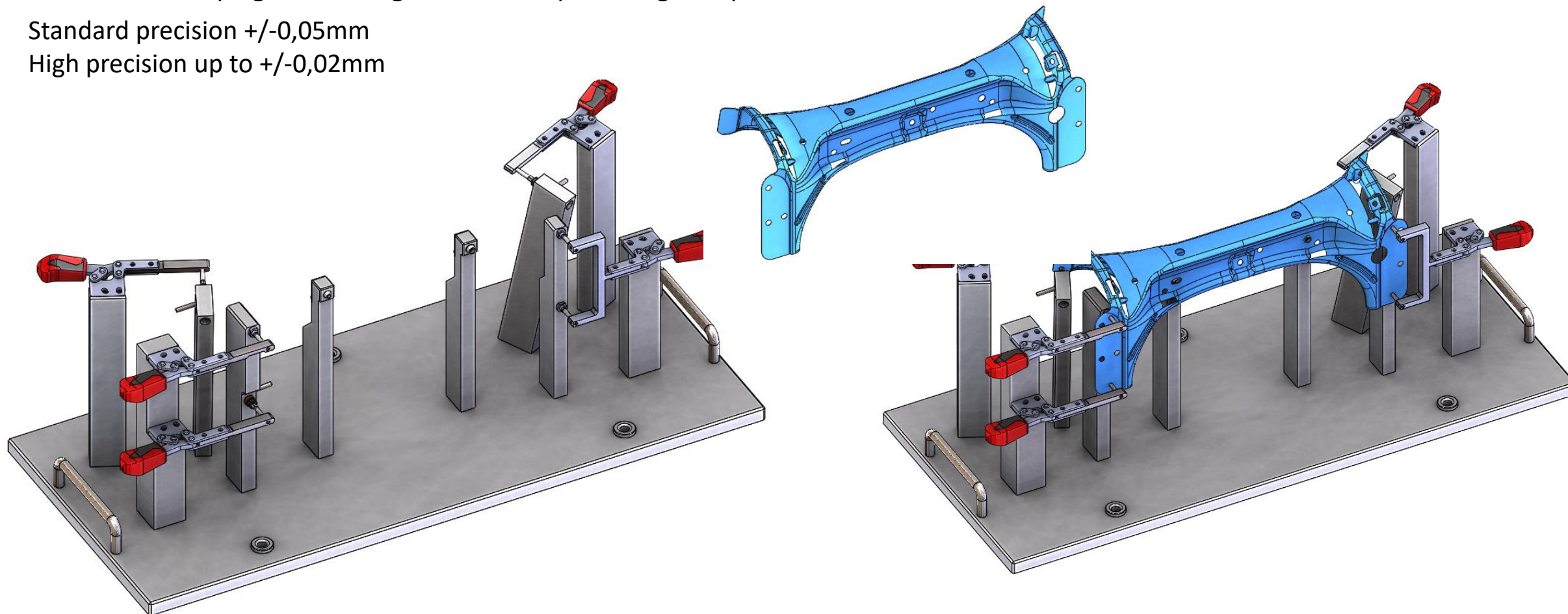
Special fixtures for CMM – coordinate-measuring machines

Mechanical clamping of sheet metal and plastic parts

Mechanical clamping with 3D alignment of the part using the special features on the fixture

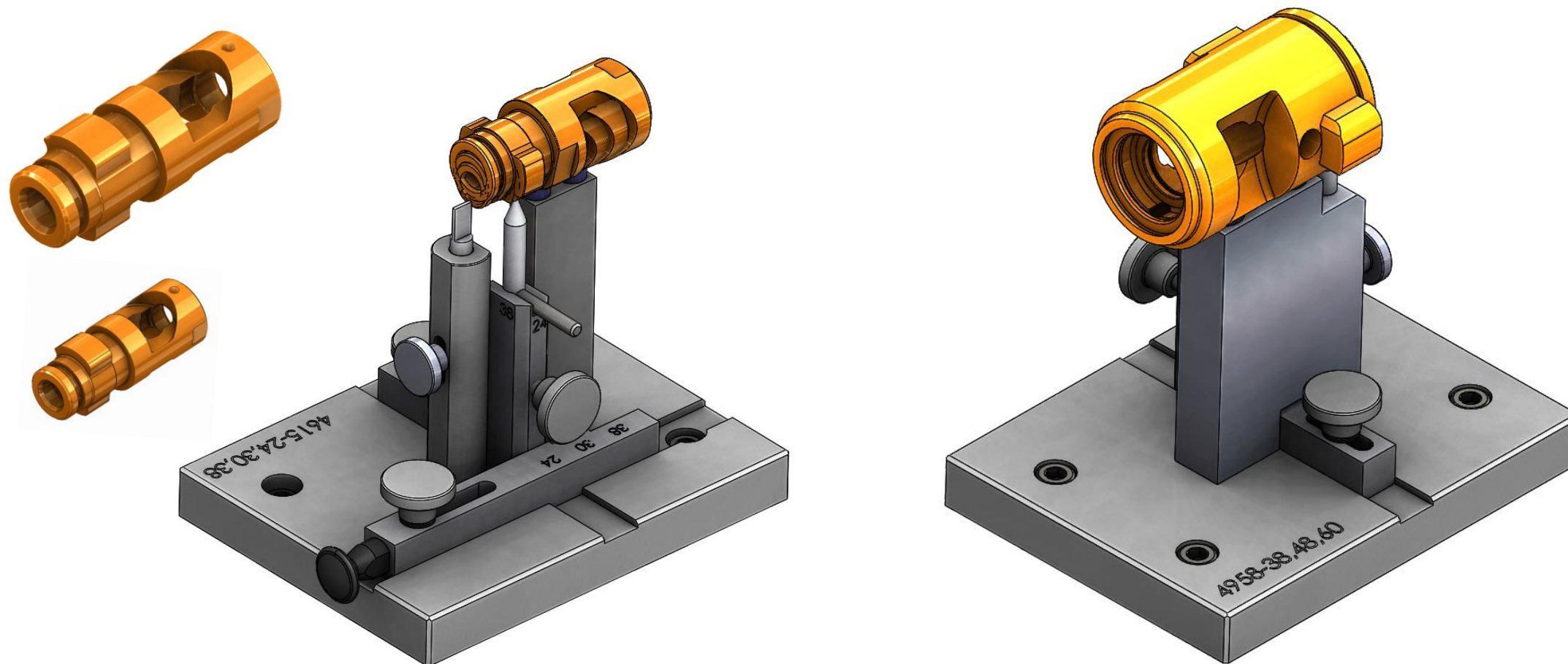
Standard precision $\pm 0,05\text{mm}$

High precision up to $\pm 0,02\text{mm}$

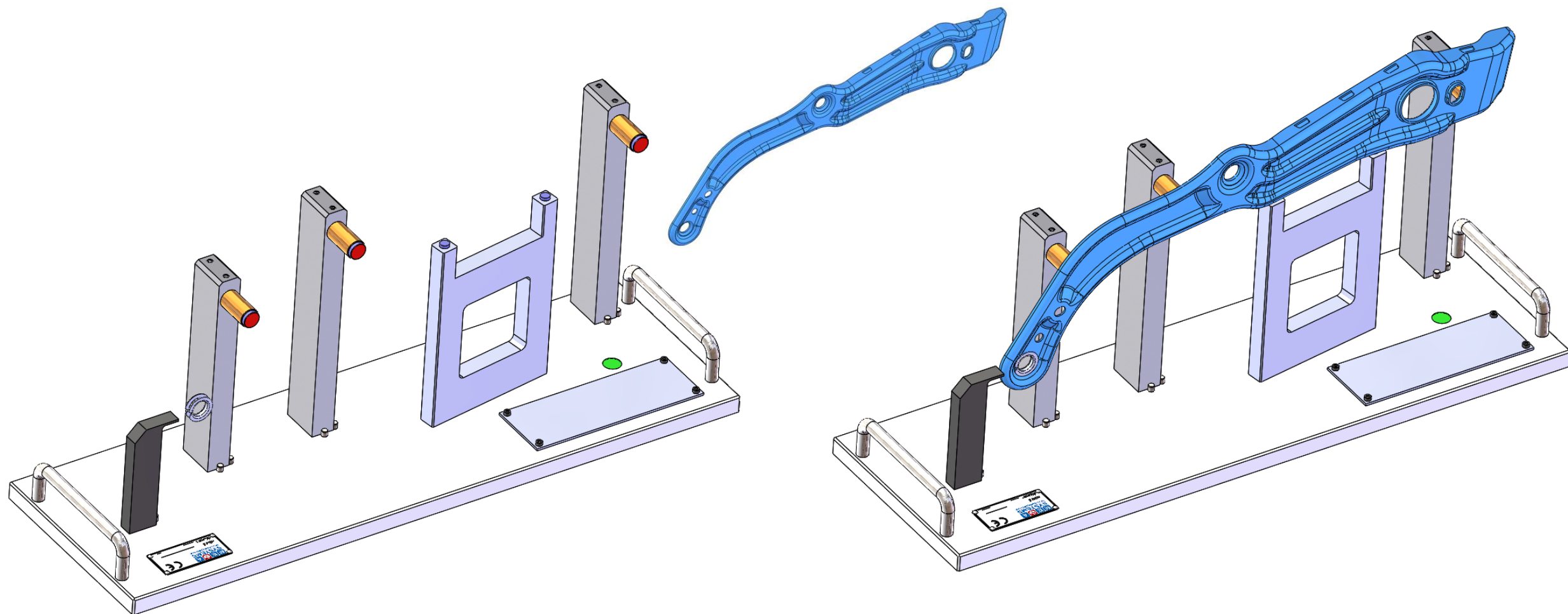


Special fixtures for CMM – coordinate-measuring machines

Magnetic clamping mechanism, adjustable for different part types (part numbers)

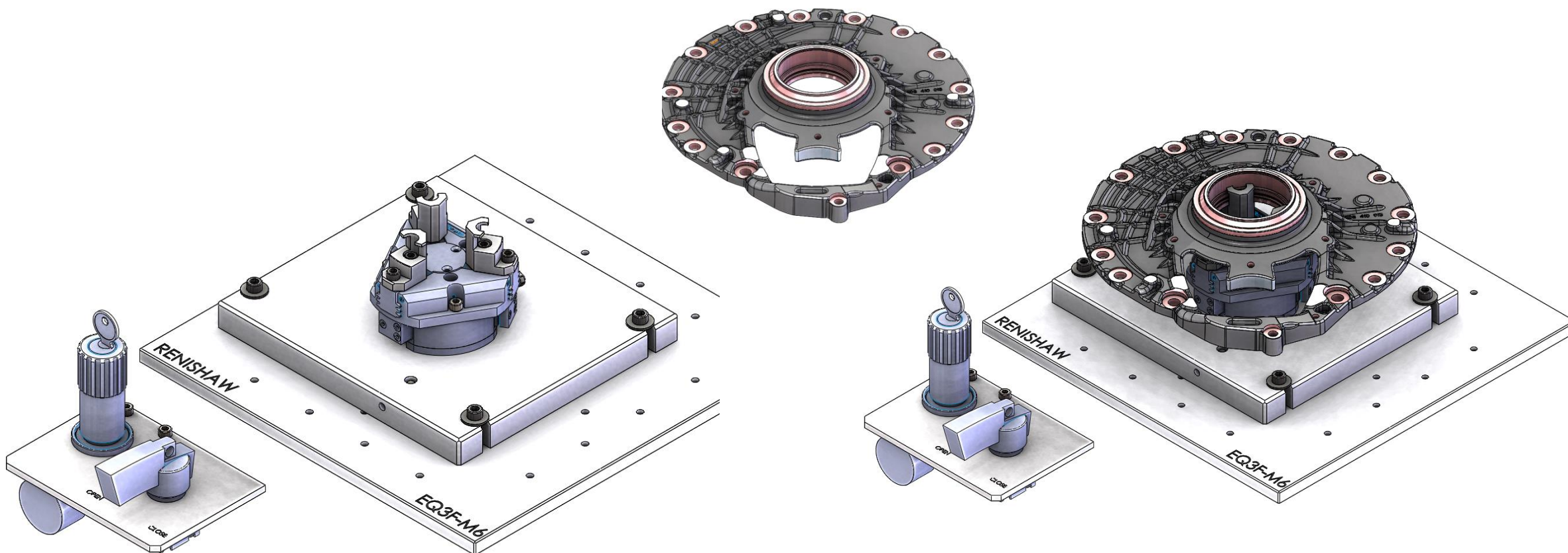


Special fixtures for CMM – coordinate-measuring machines

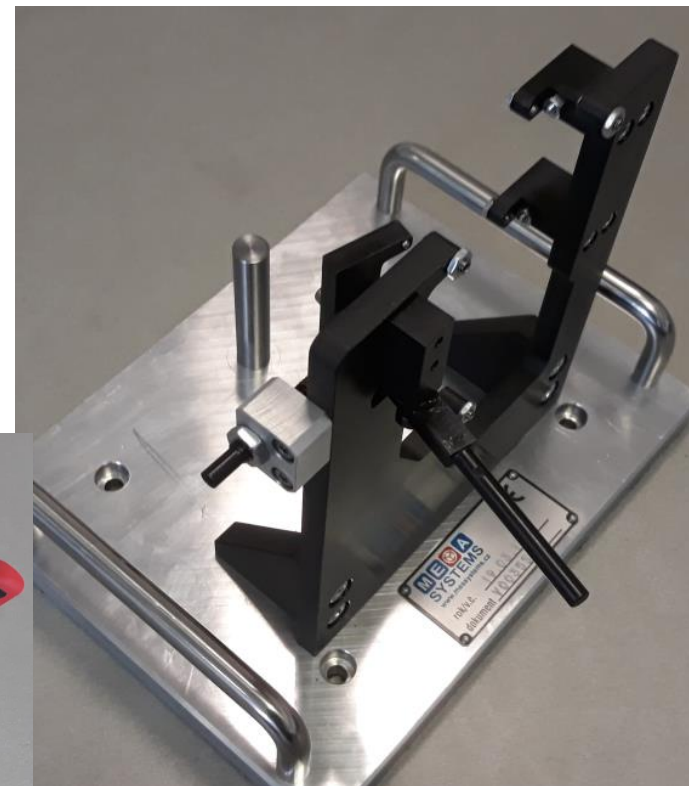
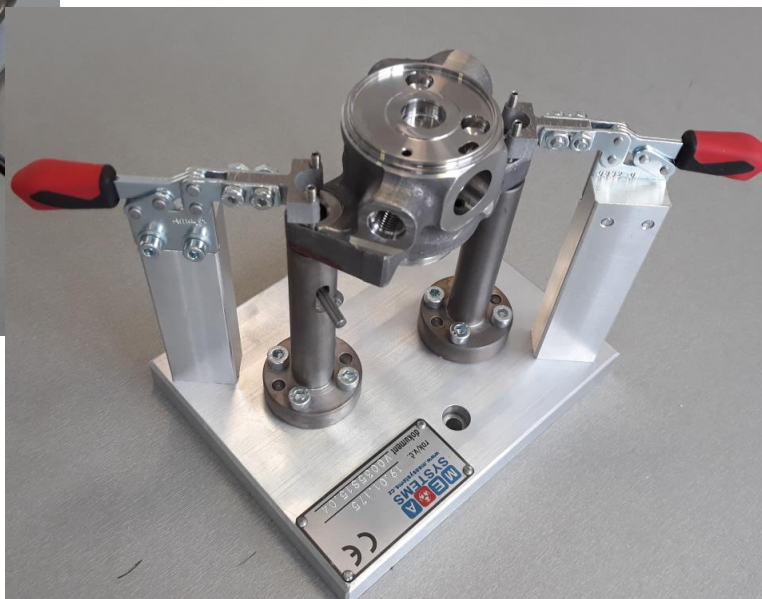
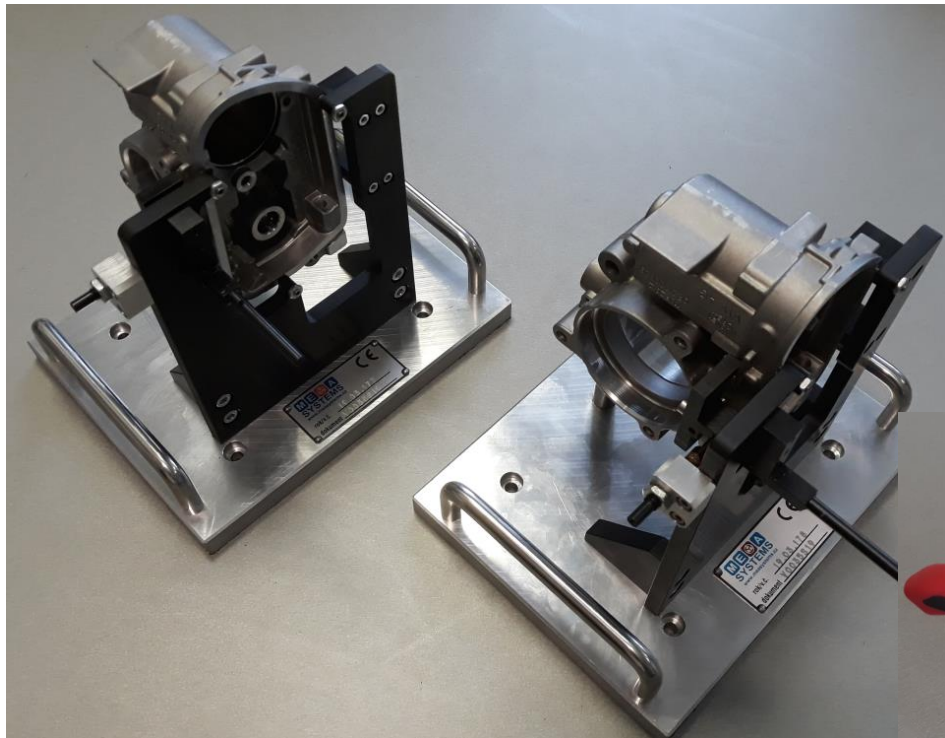


Special fixtures for CMM – coordinate-measuring machines

Pneumatics

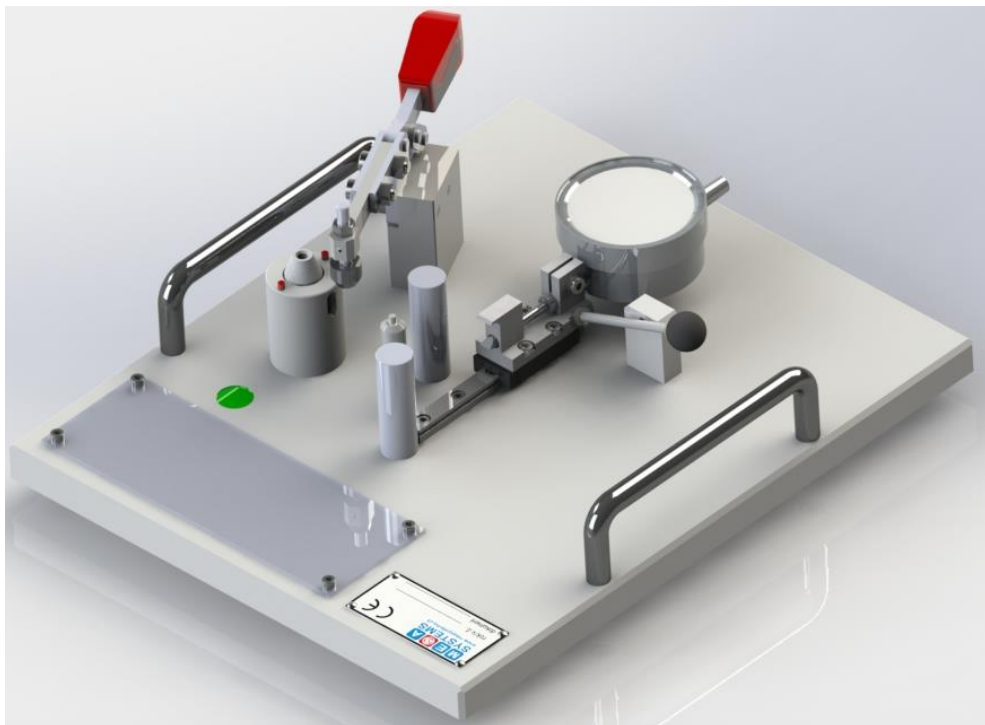


Special fixtures for CMM – coordinate-measuring machines



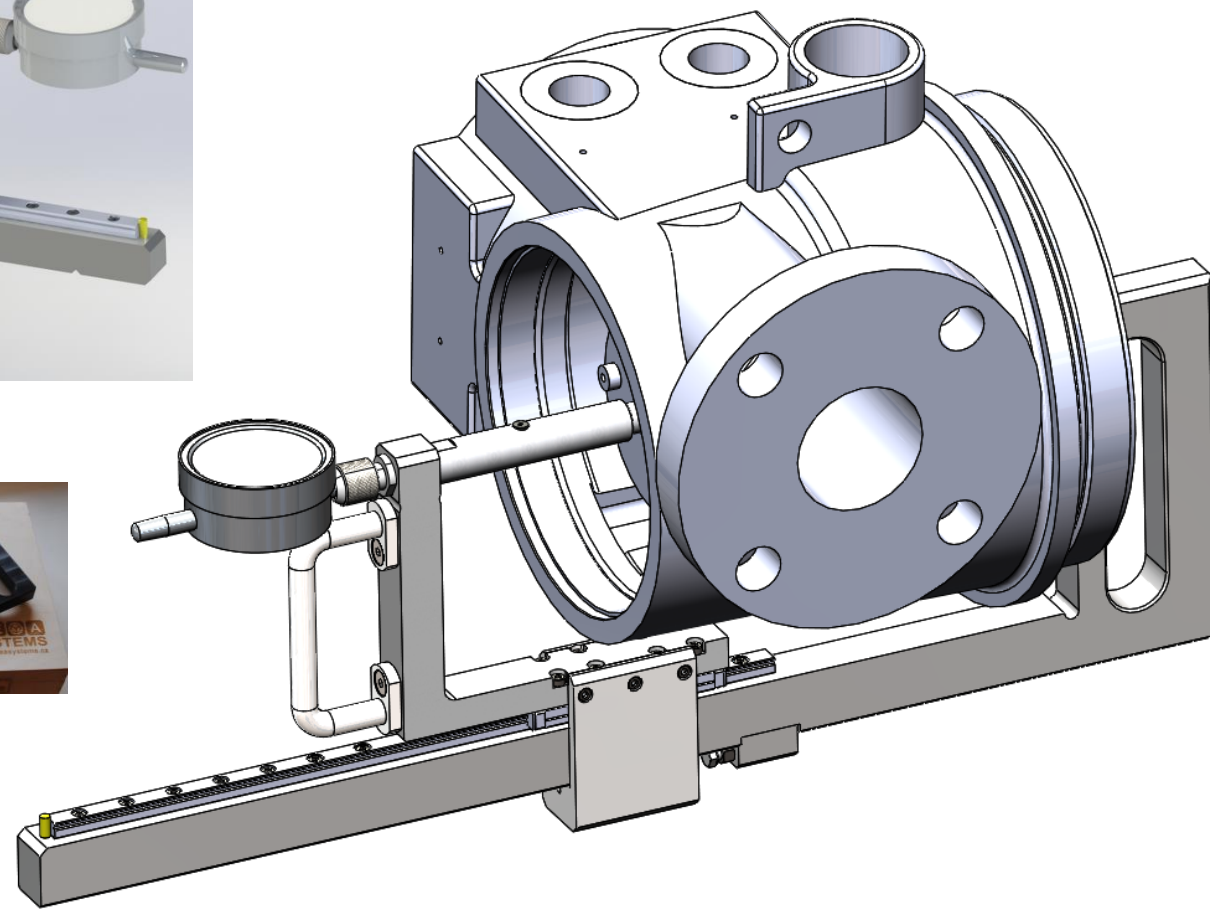
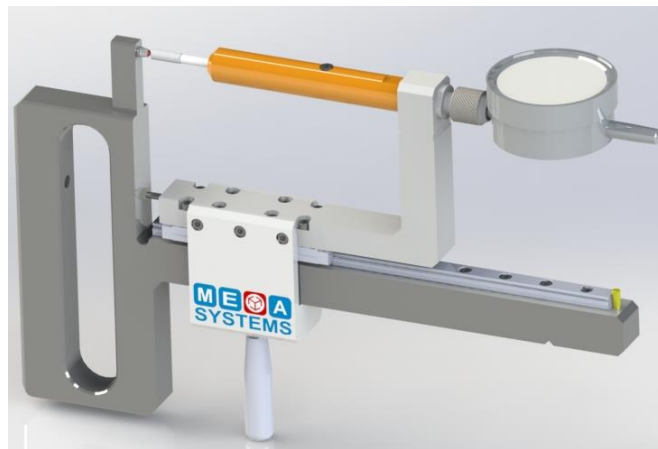
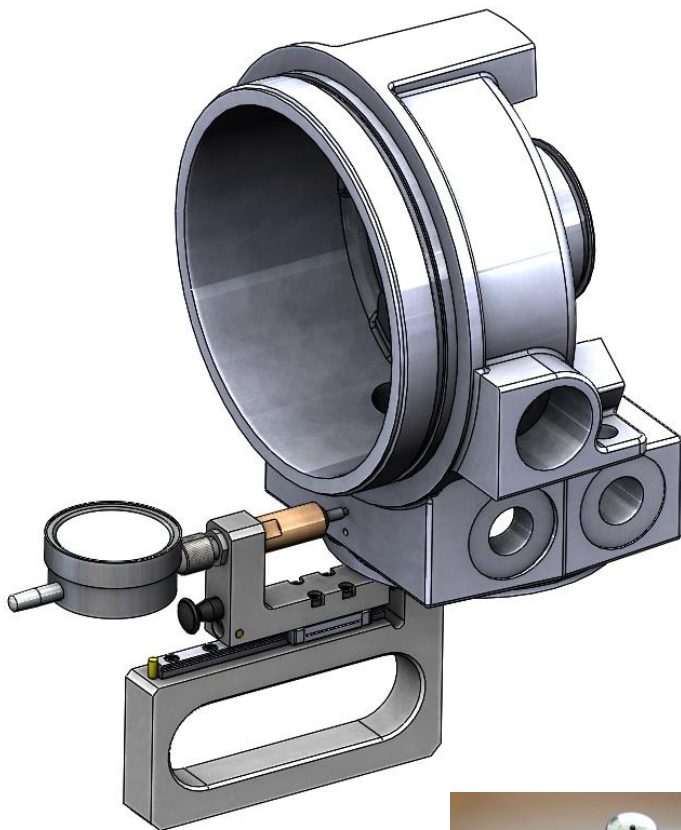
Special tables for shape, location, and dimension check

Sheet metal and plastic parts for automotive industry



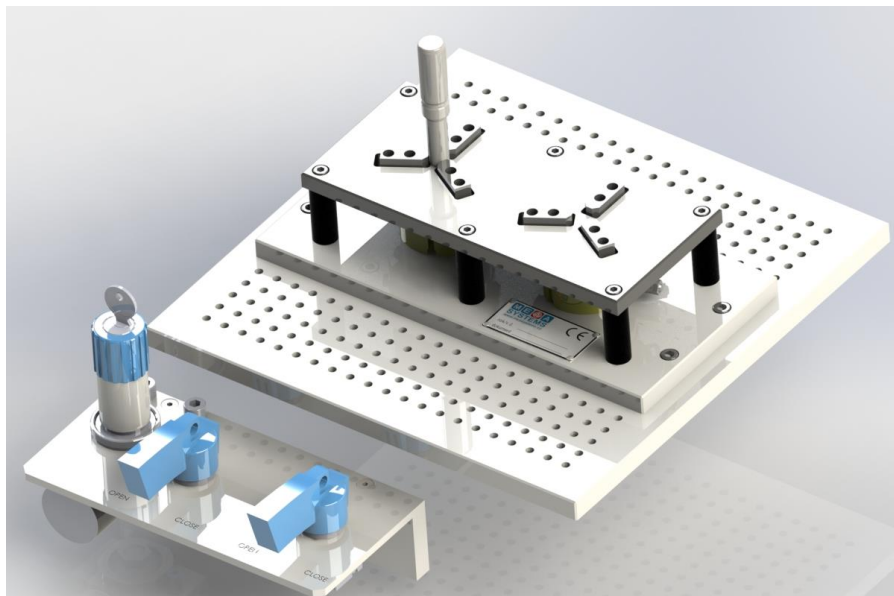
Custom made thickness and depth measuring tools

Thickness measuring of bottom flange – wide spread of thickness measuring tips

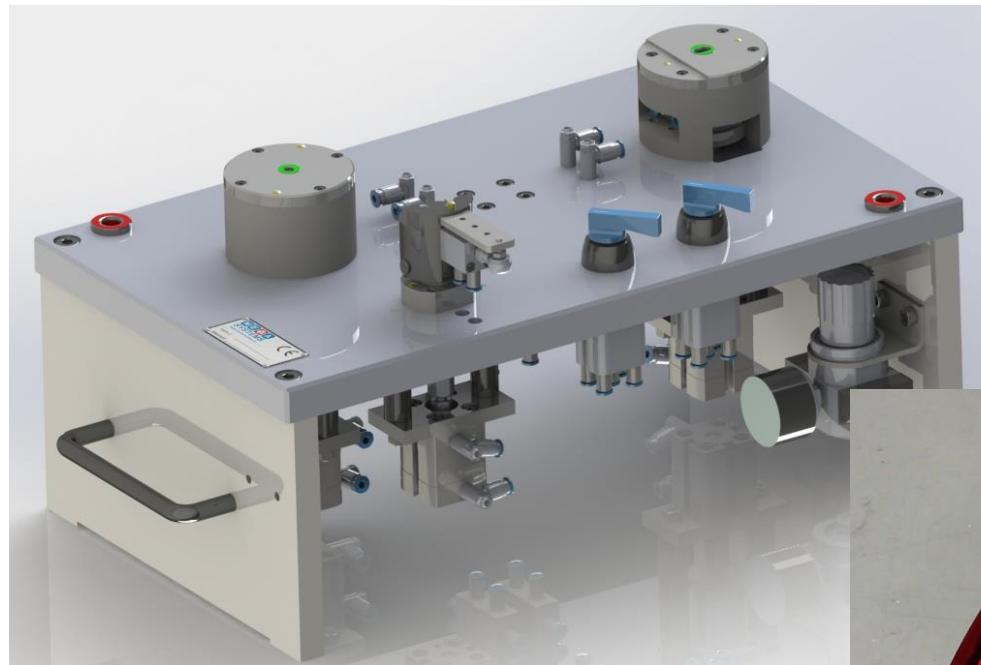


Special fixtures for CMM – coordinate-measuring machines

Pneumatics



Clamping grinding rod

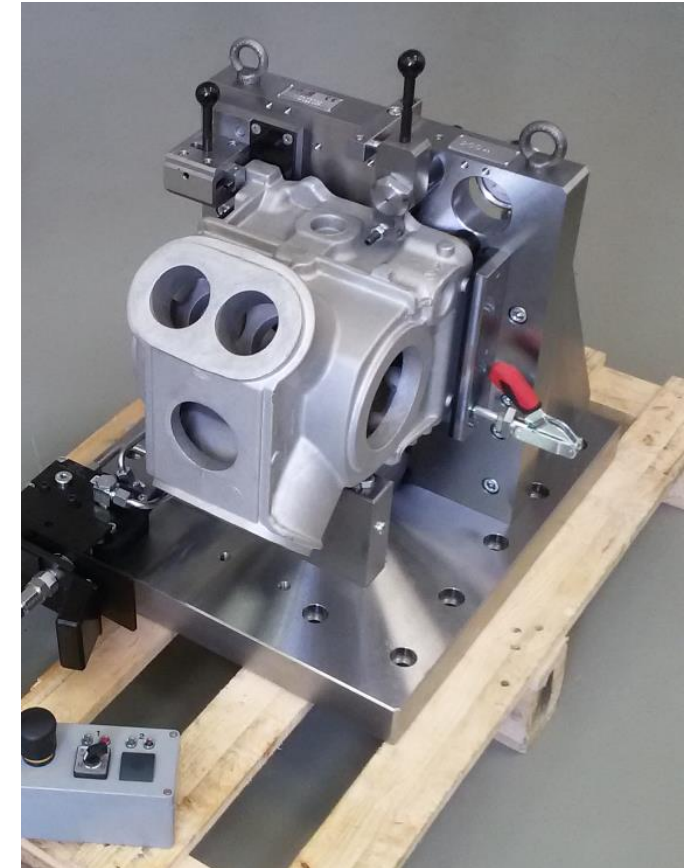
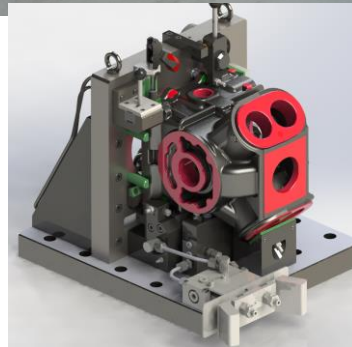
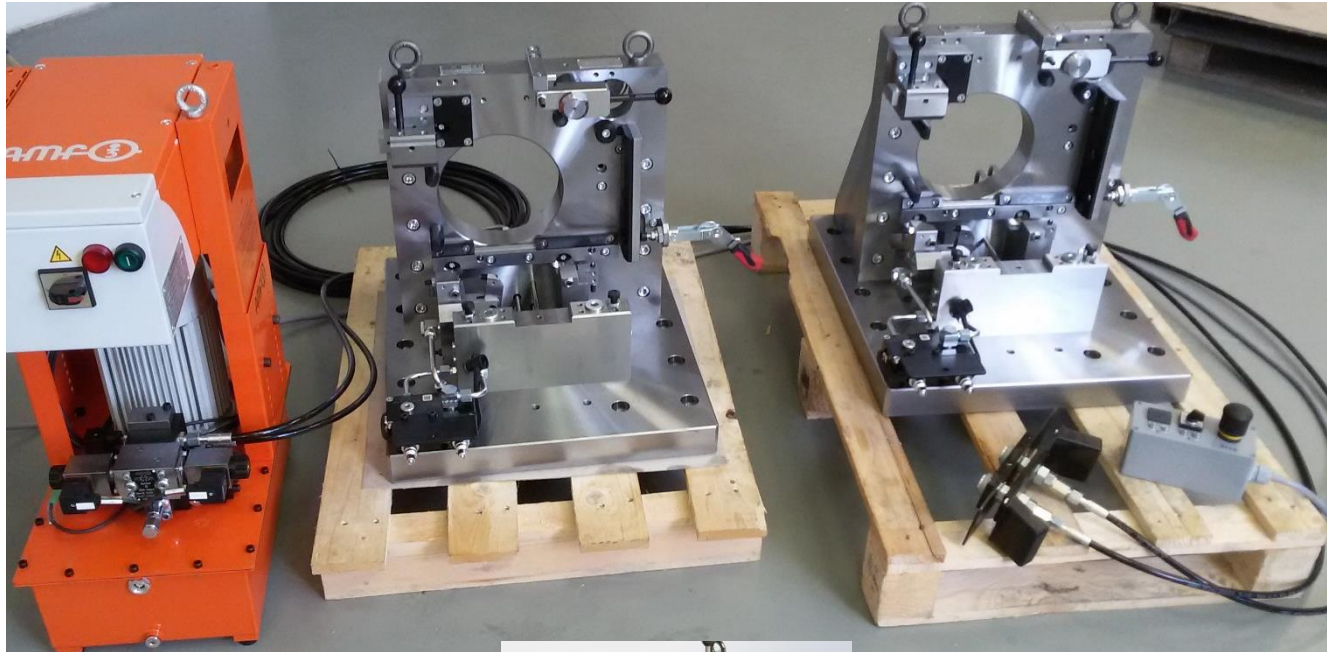


Clamping lamp



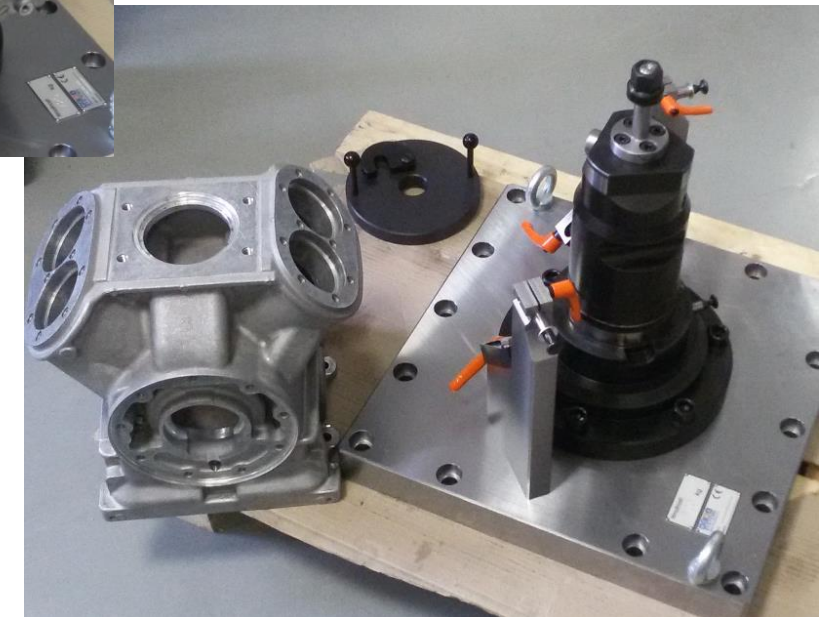
Workpiece positioners and holders for machining operations

Hydraulic clamping mechanism



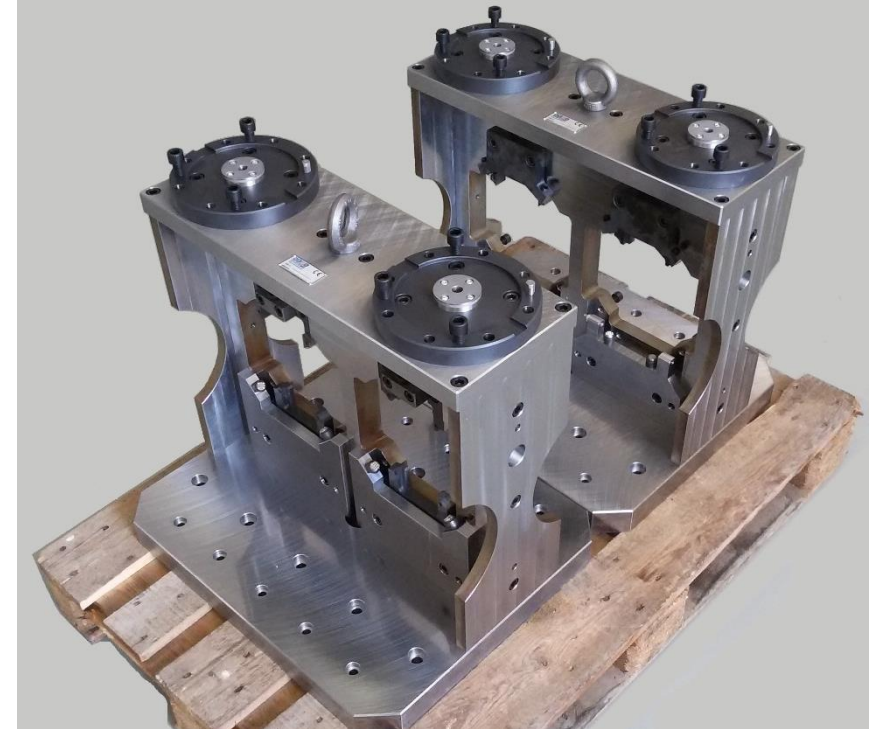
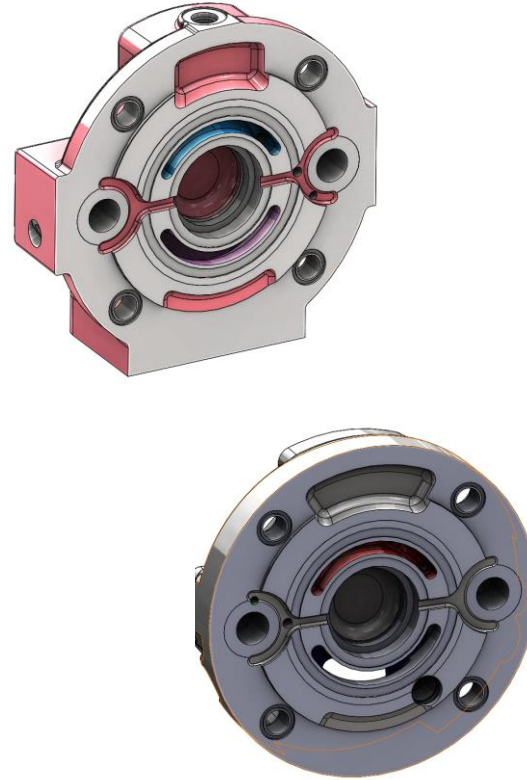
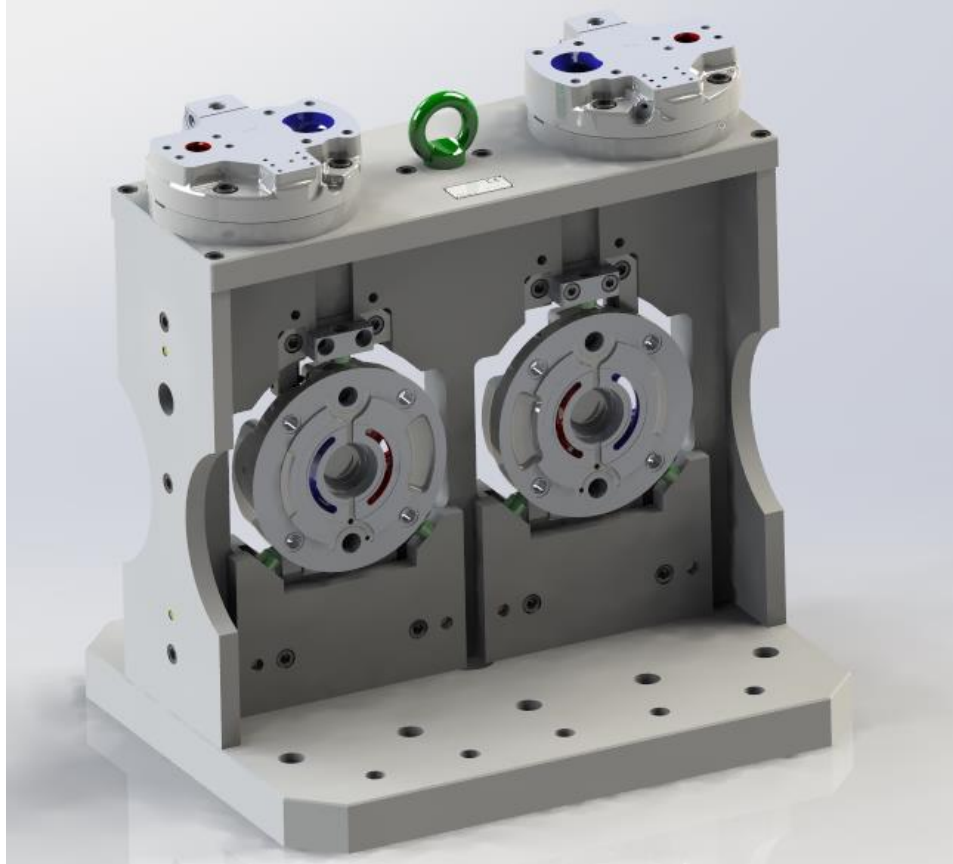
Workpiece positioner and holders for machining operations

Clamping mandrel



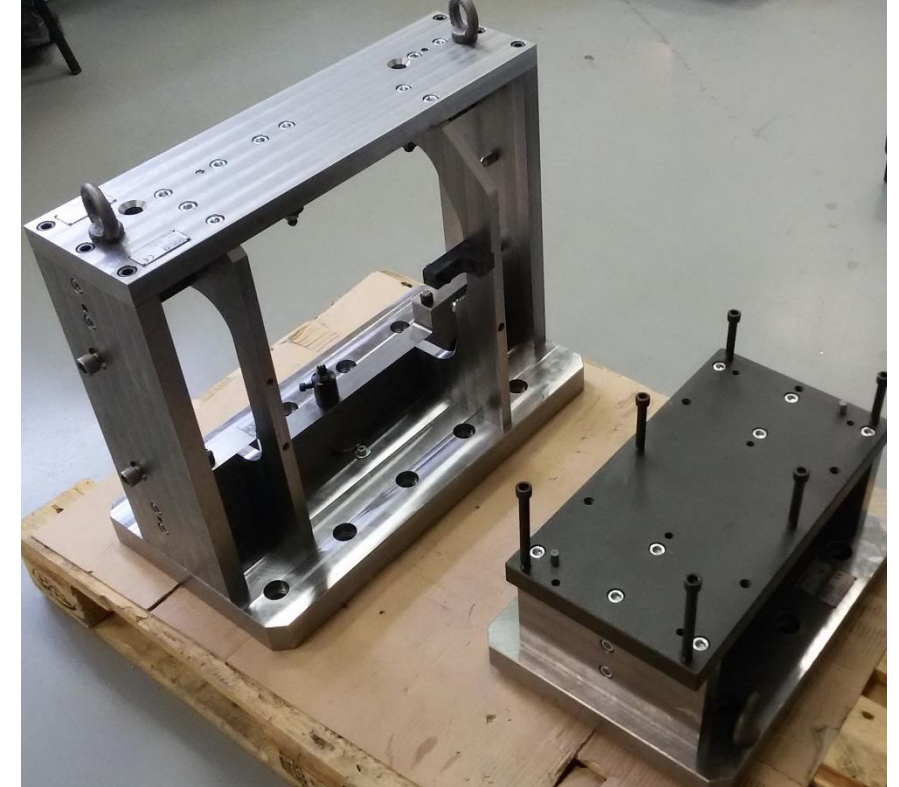
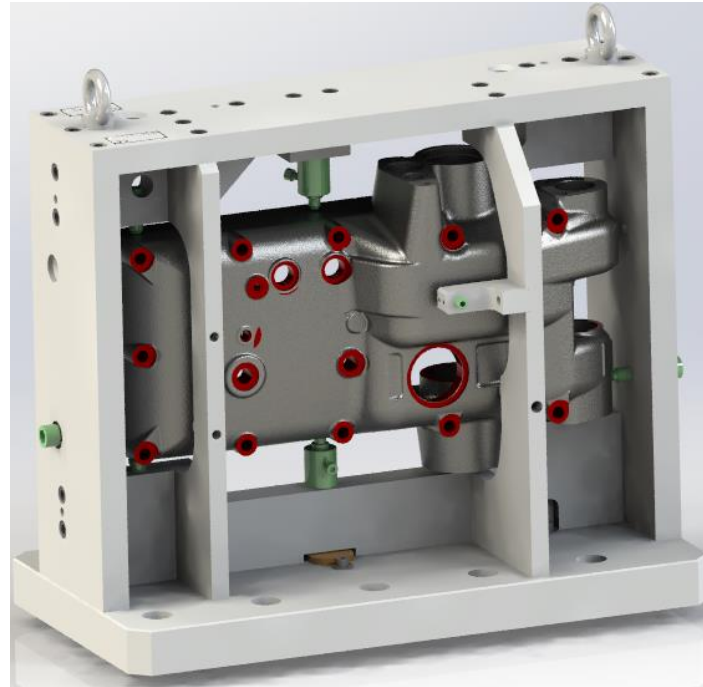
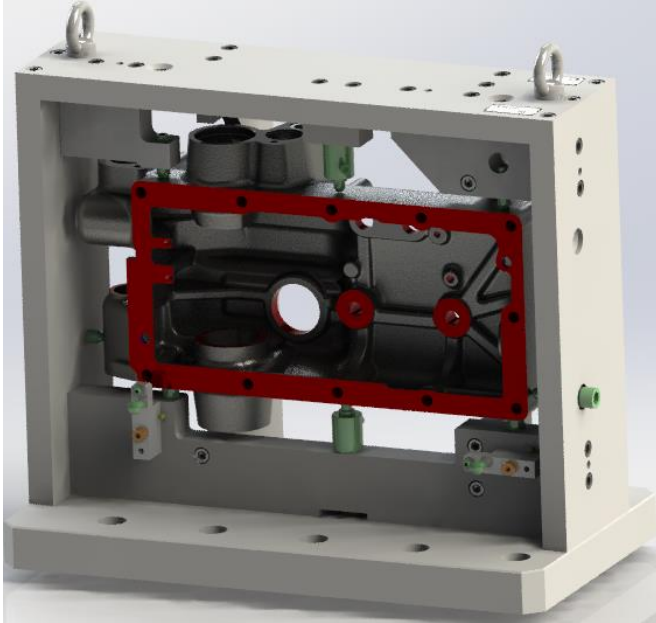
Workpiece positioner and holders for machining operations

Mechanical clamping mechanism



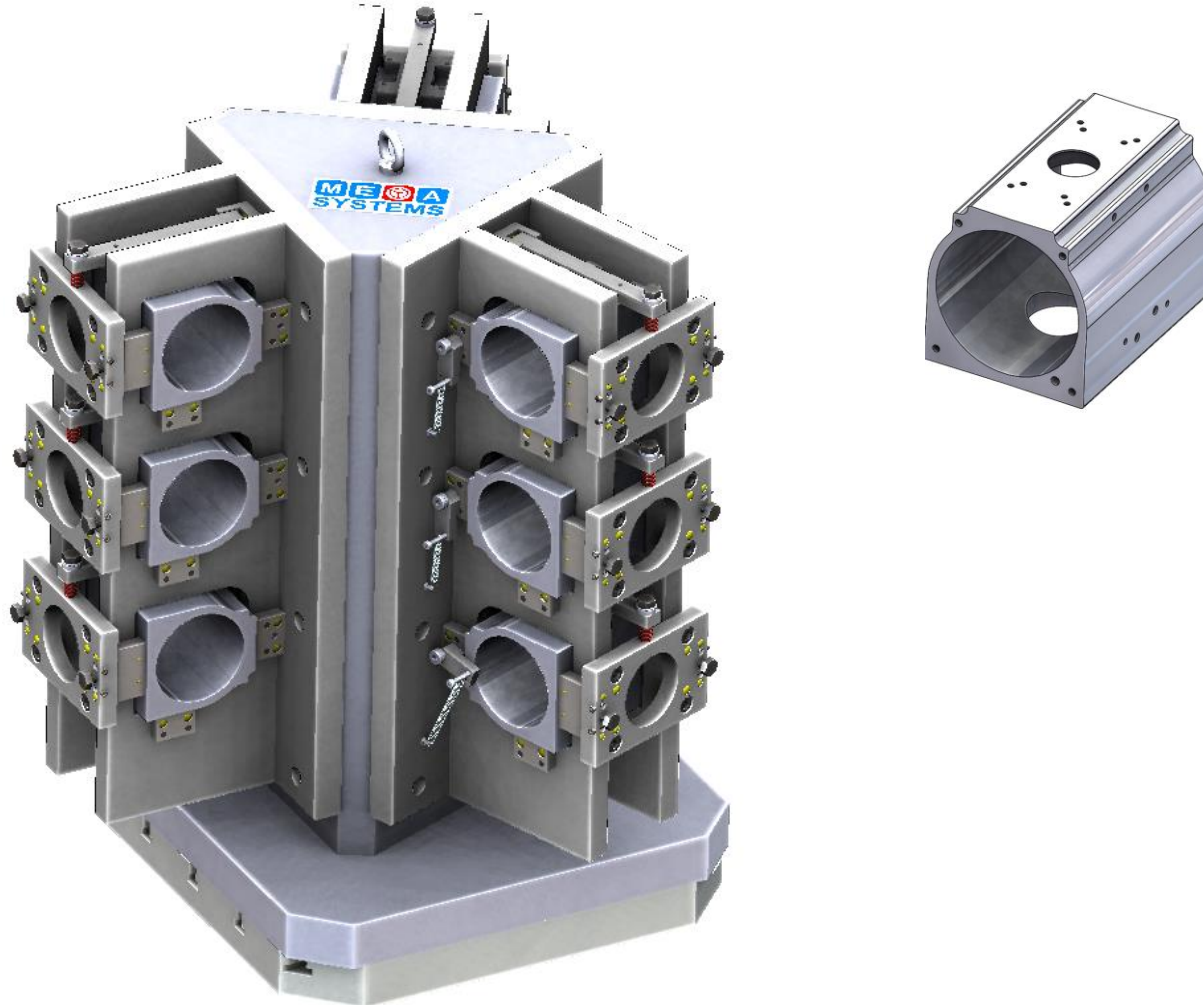
Workpiece positioner and holders for machining operations

Mechanical clamping mechanism



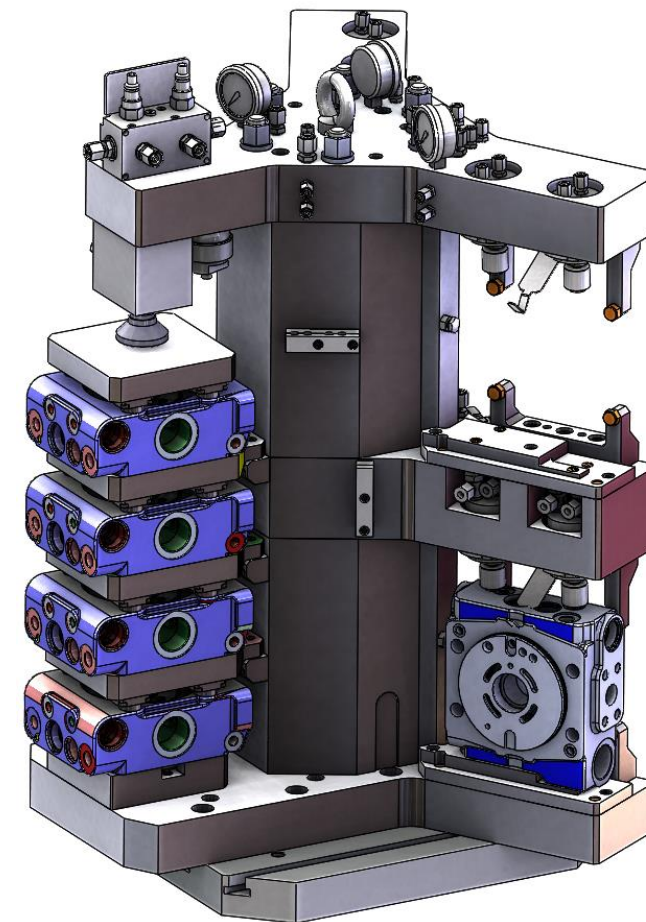
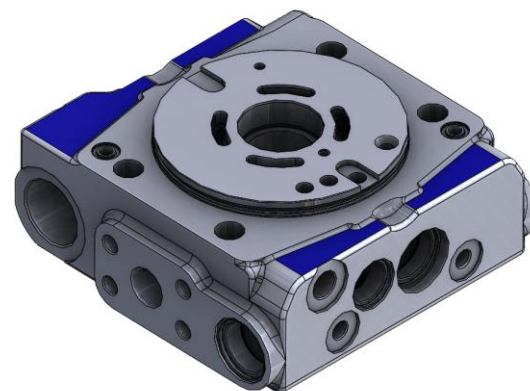
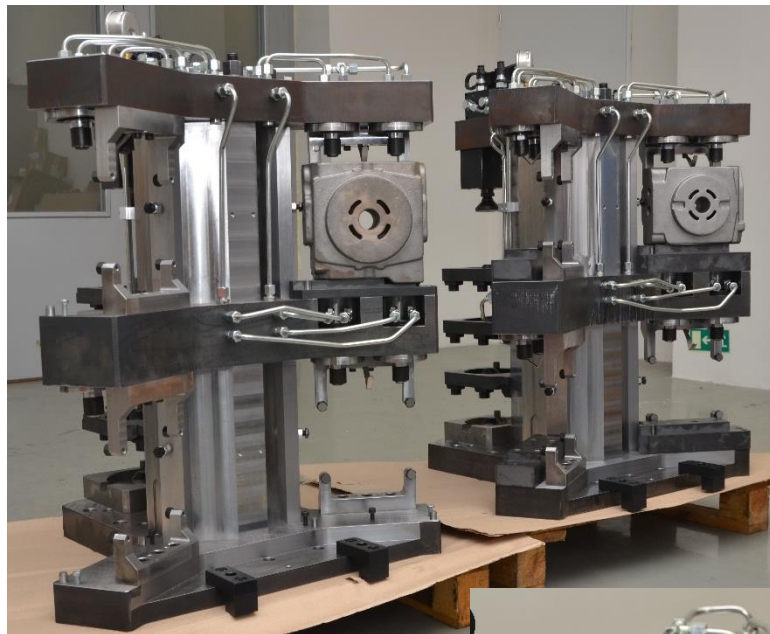
Workpiece positioner and holders for multiple parts

Mechanical clamping mechanism, from two to four sided towers



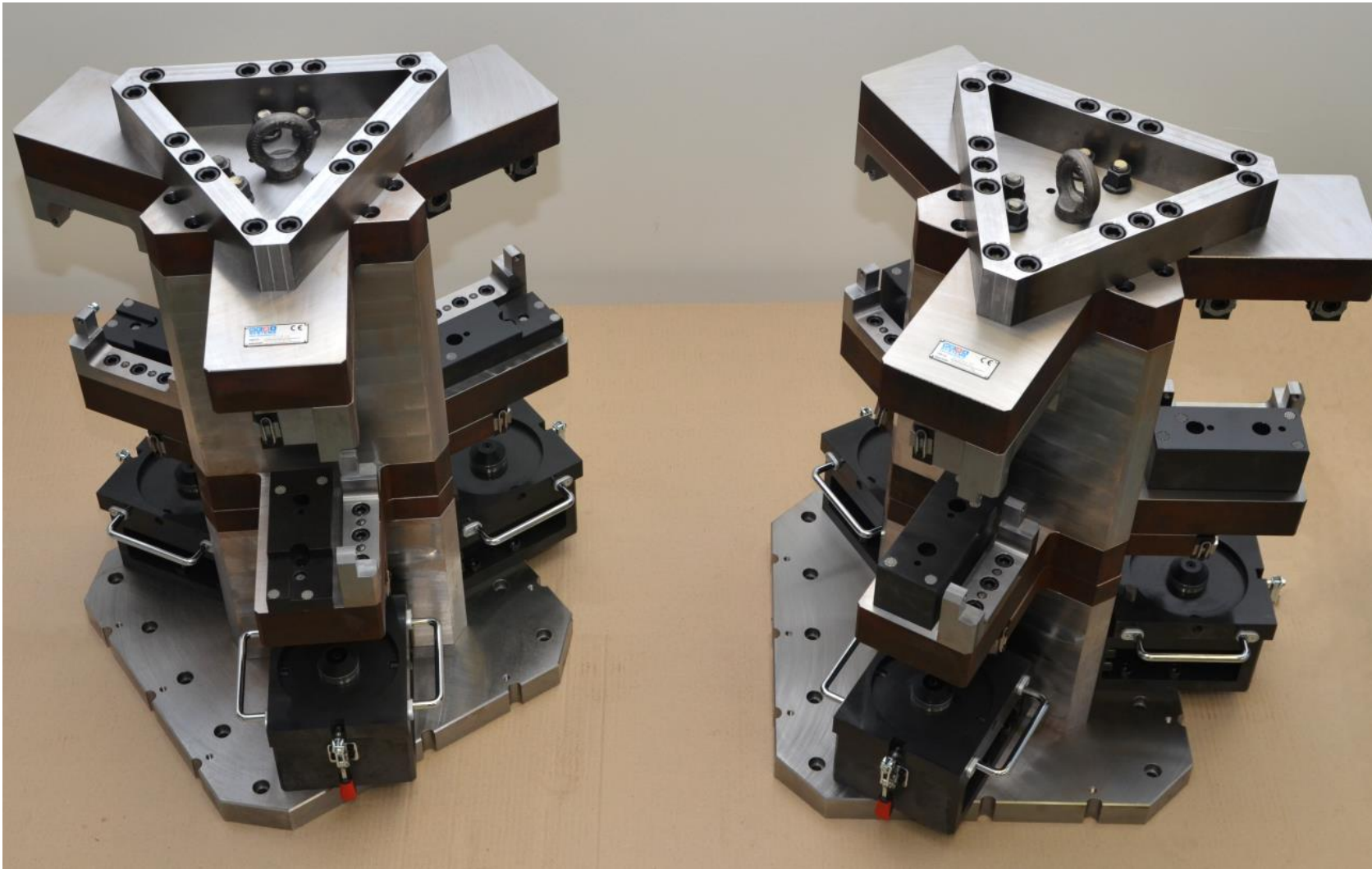
Workpiece positioner and holders for multiple parts

Hydraulic clamping mechanism



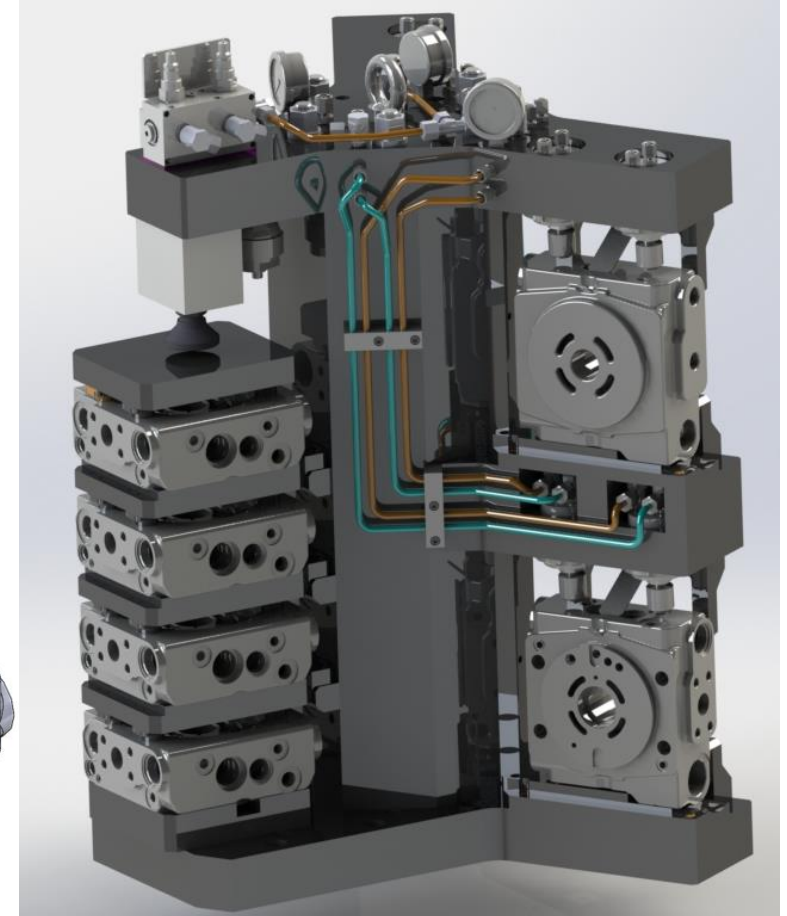
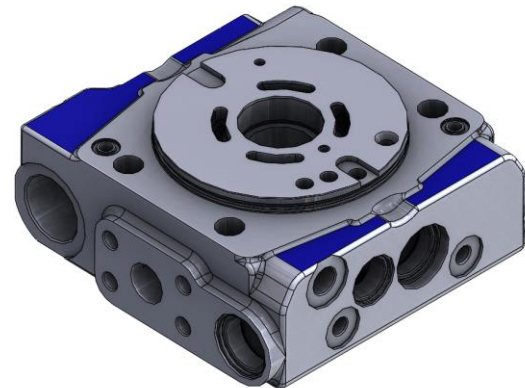
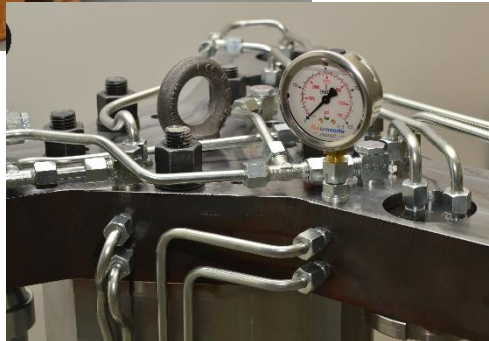
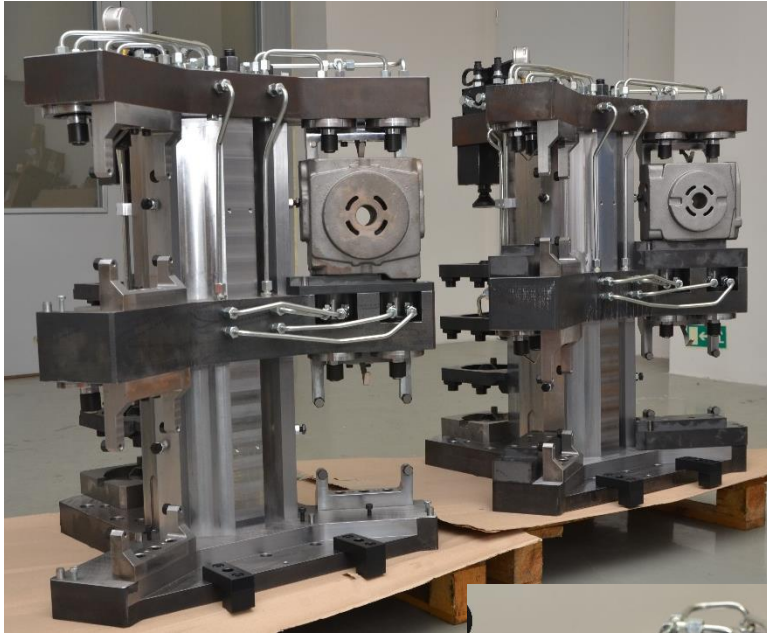
Workpiece positioners and holders for machining operations

Hand clamping mechanism

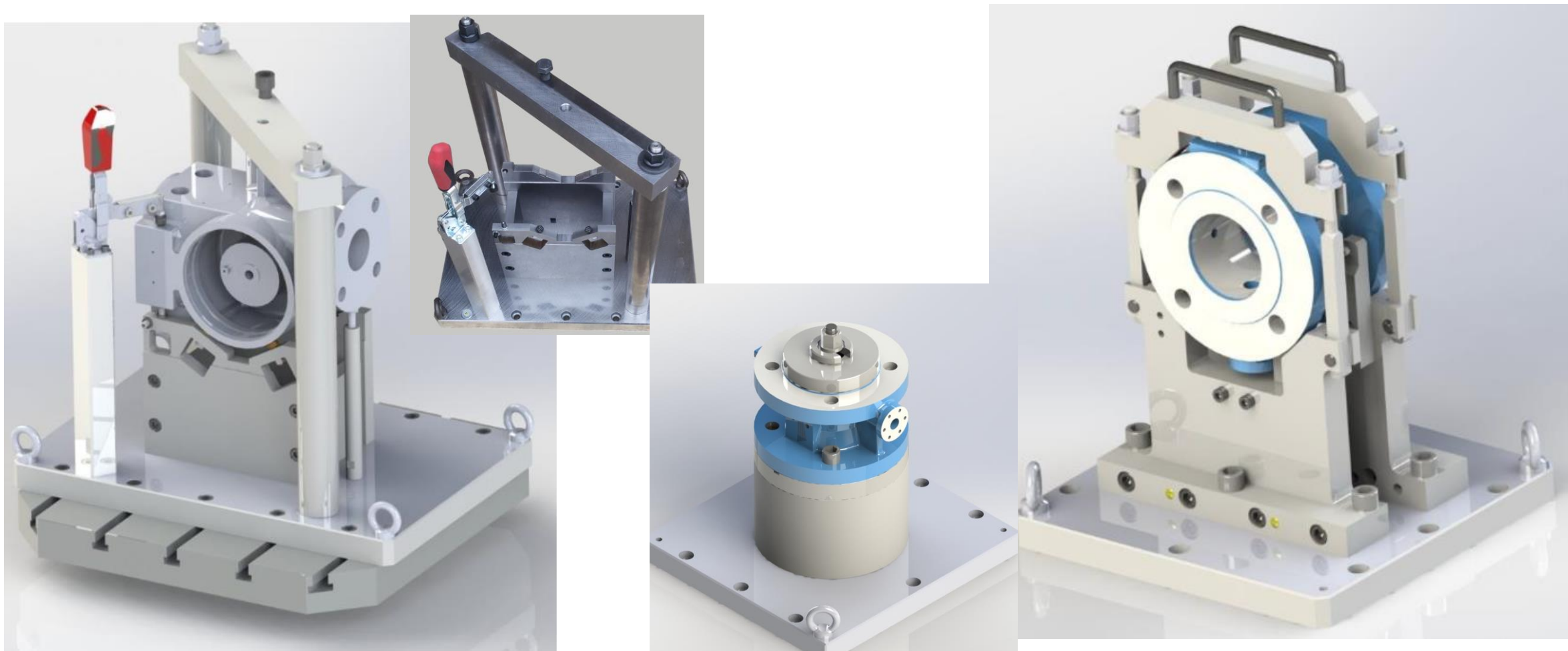


Workpiece positioners and holders for machining operations

Hydraulic clamping mechanism



Workpiece positioner and holders for machining operations



Workpiece positioner and holders for machining operations

