

SMARTREACH

- COMAU -



COMAU



COMAU MACHINING AT A GLANCE

We build machines and develop complete machining processes to ensure productivity, flexibility and long-term quality

Comau's turn-key competence in automation, ancillaries, assembly and test systems extends all the way to related digital solutions such as MES & IoT. We also have extensive retooling expertise, regardless of the machine brand, to help our customers protect the value of their existing lines. Finally, our additive knowhow includes PTWA thermal spray coating for emission reduction and performance enhancement.

300+ MACHINING LINES WW

6500+ INSTALLED MACHINES WW

150+ RETOOLING PROJECTS WW

Covering your production needs every step of the way

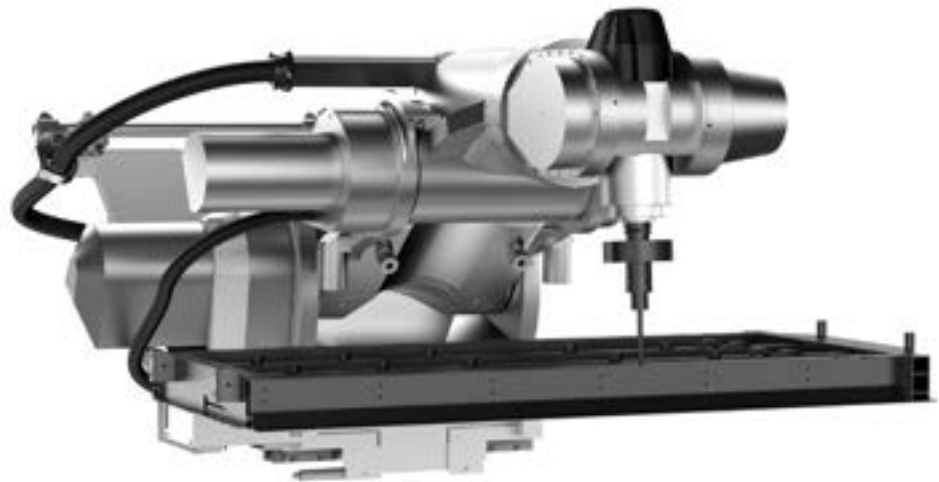
Comau provides comprehensive cross-functional services with a worldwide customer care network, an extensive range of spare parts and customized training programs. Comau also delivers professional machine maintenance and analysis in addition to retrofit and retooling solutions. Our services cover any type of machine, regardless of the manufacturer, including everything from set-up and commissioning to testing, troubleshooting and customized requests.



THE NEXT LEVEL IN MACHINING

SmartReach Comau fuses high versatility and speed with unwavering stiffness and accuracy to ensure high-performance, 6 side one-setup machining of large and complex lightweight AL parts

Designed to meet the evolving needs of automotive, energy, aerospace, electrification of automotive, electrification, aerospace, energy and other specialized sectors, SmartReach Comau represents a key element in Comau's next generation machining portfolio. Combining the precision of a machine tool, the agility of 5-axis articulation, and a unique modular structure, SmartReach Comau can easily be used in many machining application scenarios, increasing Overall Equipment Efficiency (OEE) while saving time and costs.



1.

A NEW PARADIGM IN HIGH VERSATILITY MACHINING

SmartReach Comau features unique capabilities such as:

- **One setup 6-side machining**
- **High flexibility combined with high stiffness and quality reliability**
- **High repeatability**
- **All maintenance at ground level**
- **Modular & Reconfigurable**
- **Full ESG compliance**
- **Compact floor space and reduced energy consumption**
- **Digital Native**

The game-changing design lets the mobile machine tool reach compound angles and access any side of large or multifaceted parts with ease, delivering highly accurate machining of aluminum and composite materials.

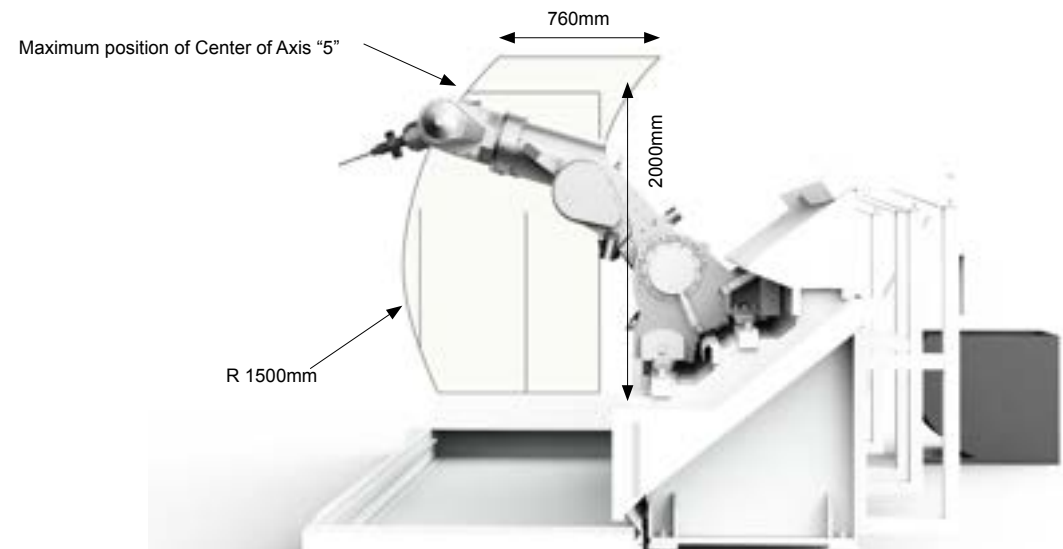


Highly flexible and dynamic



Key technical data

CADCAM	Part programming
Repeatability	<±3 µm ISO 230-2
Max speed X/Y/Z [m/min]	80 / 90 / 90
Max Acceleration X/Y/Z [m/s²]	8
Max work envelope [mm]	3000 x 1900 x 1000
Module weight [T]	1.5 per arm
Control system	Siemens Sinumerik one
Spindle	HSK63A - 18,000 rpm
Footprint (mm)	6230*4200*2700 to 3500



2. MACHINE FEATURES

SmartReach Comau moves in a half-cylindrical envelope, moving around the part while performing 6-sided operations.

With SmartReach Comau, there is no need to split operations between multiple stations, thus increasing overall productivity.



Digital Twin available

Compact Footprint

Front & Top Loading

Environmentally friendly Machining or MQL

Chip evacuation

IoT ready with integrated OPCUA

ESG-compatible design



**SmartReach**

Full 5-Axis CNC

Controller

Siemens Sinumerik one

HMI

22" multi touch display

Tool Magazine

Tool length up to 400 mm

2 x 40 pockets

Automatic tool holder cleaning

Multiple configurations available

Workpieces up to 3000 mm

Compact

Electro-fluidic cabinet

3. SMARTREACH COMAU TWIN

All the features of the SmartReach Comau are also available on the SmartReach Comau Twin.

With two SmartReach Comau devices working together, production is doubled. SmartReach Comau Twin grants the possibility to use both spindles on the same workpiece, or machine two workpieces together in the same machine, assuring high productivity and complete flexibility of the system.



APPLICATION

4.



Automotive

- Aluminum battery trays
- Aluminum mega casting underbodies
- Aluminum shock absorbing tower
- Aluminum front&rear cross beams
- Aluminum front&rear subframes
- Other AL structural components

Aerospace

Increasing demand for fast time to market

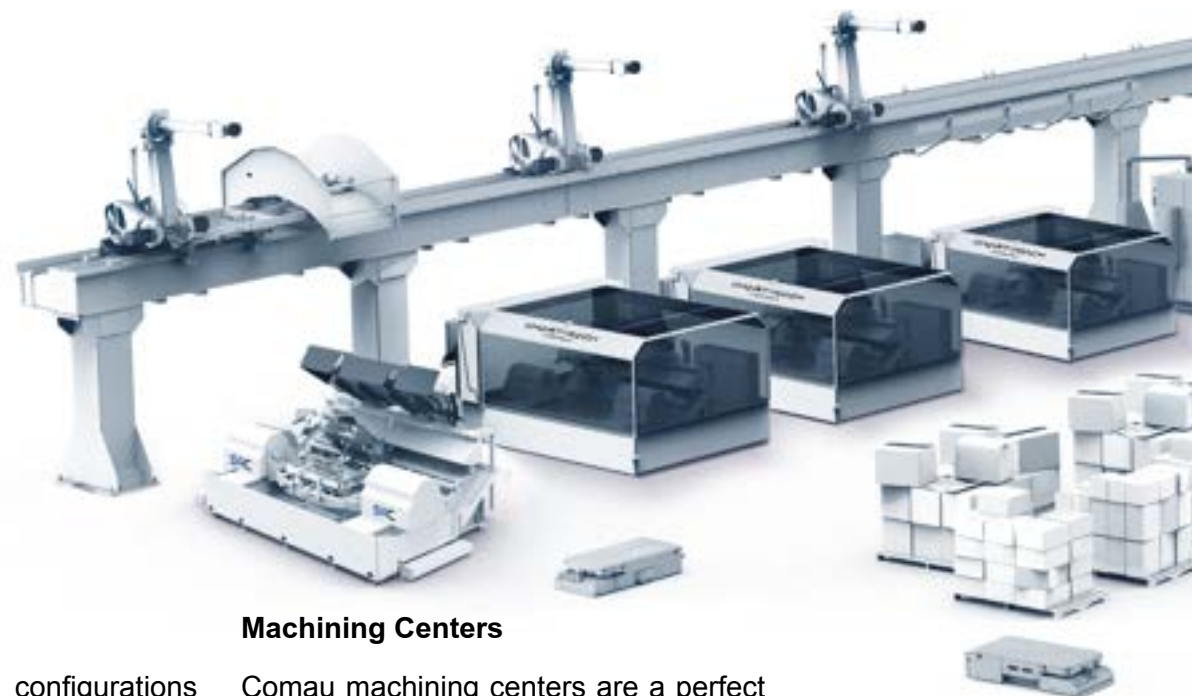
- Full material machining
- Complicated AL structural parts which require flexible 5 axis continuous machining

5.

ONE PARTNER FOR THE ENTIRE SYSTEM

No matter how complex your machining needs are, our result-oriented methodology and systems expertise can support you.

Comau has the competence to develop any machining process, assure productivity, flexibility and long-term quality that span the entire production chain, including assembly and test equipment across the lifetime of your manufacturing systems.



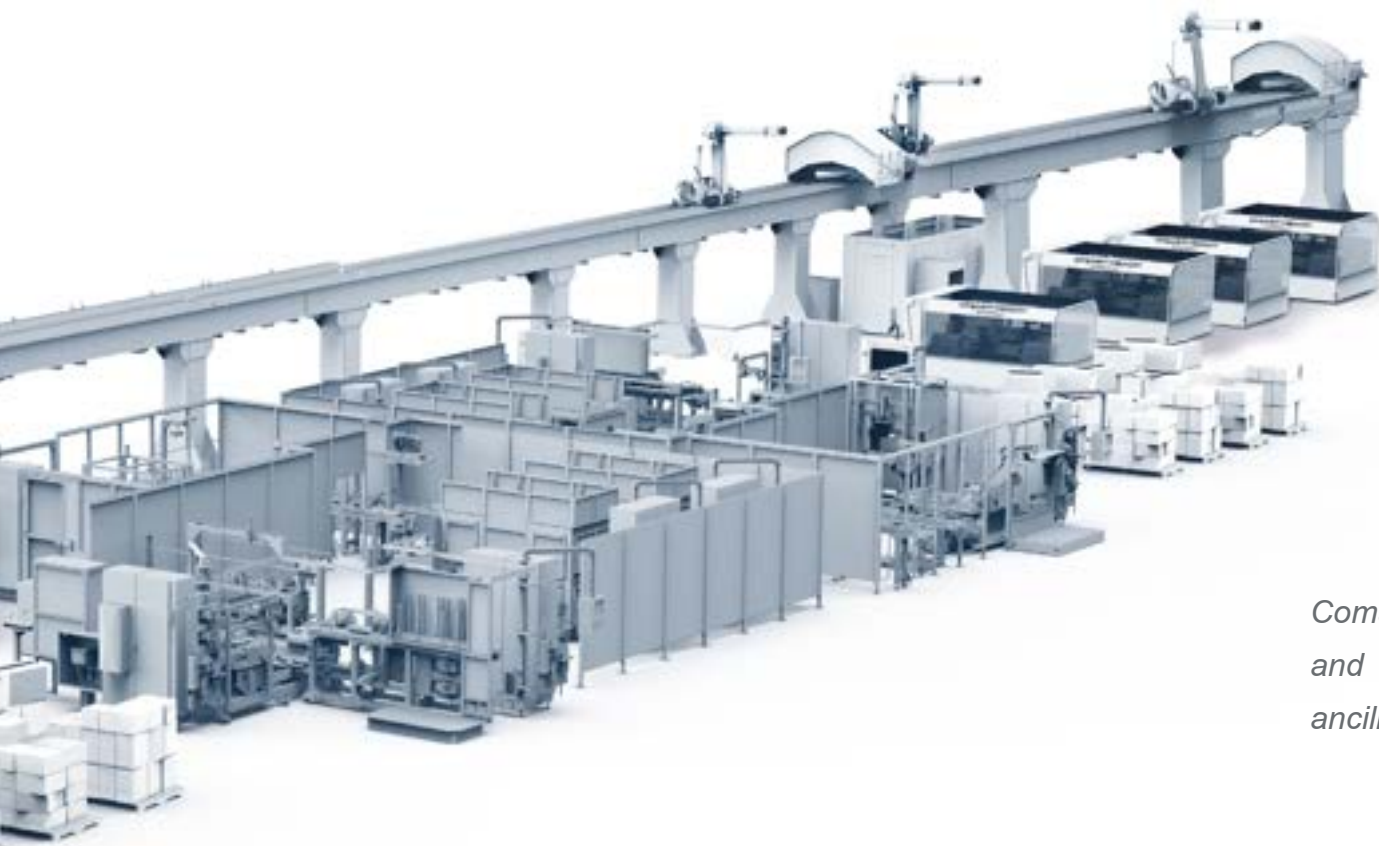
Automatic Loading

Comau supplies several configurations of carriages and arms to meet required production levels.

Machining Centers

Comau machining centers are a perfect fit wherever maximum flexibility and productivity are non-negotiable

Our spectrum ranges from single machining cells to complex systems with multiple integrated operations.



Comau ensure productivity, long-term quality and continued reliability including a range of ancillaries such as:

- Tightening
- Riveting
- FSW
- Leak test
- Washing
- Marking
- Final inspection
- Logistics



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