

Solutions that **make** the difference since 1958

HIGH PRODUCTIVITY WITH CNC FLEXIBILITY

TRANS-BAR *CNC flex*

Flexible multi-spindle
non-rotating bar machines

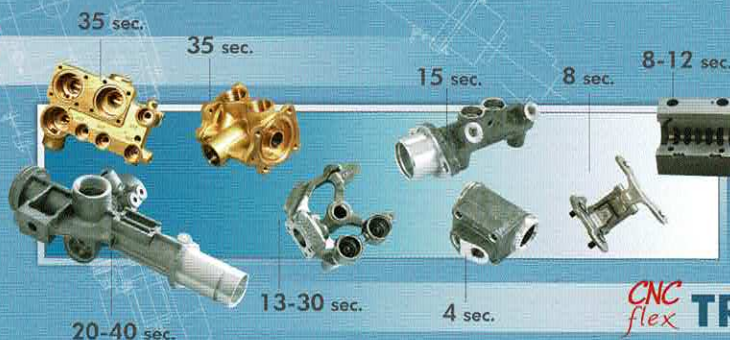


Multiple turning centers
integrated with transfer machines

CNC flex OMNI-TURN

OMNI-FLEX *CNC flex*

4 or 5-axis flexible machining
centers up to 5 spindles

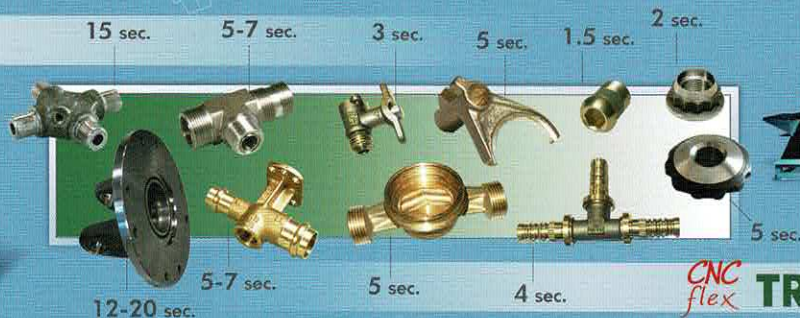


Flexible transfers with
multi-process multi-axis centers

CNC flex TRANS-N-CENTER

MULTI-WAY *CNC flex*

Multi-sided high precision
transfer machines



Double-production
transfer machines

CNC flex TRANS-DOUBLE

COMPLETE CHANGE OVER IN 15 TO 90 MIN.

TURNKEY SOLUTIONS FOR FLEXIBLE

Founded in 1958, Buffoli provides turnkey solutions for flexible high production machining of high precision parts from castings, forgings or directly from bar stock. Our solutions include CNC multi-spindle turning machines, high production machining centers, FMC, FMS, horizontal and vertical rotary transfer machines.

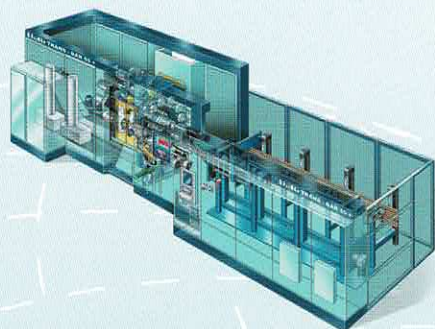


Buffoli machines produce either simple parts in about one second or high precision complex parts (up to 6 sides and 4-5 interpolated axes) with the shortest cycle times.

Machines are designed for quick change over and wide versatility.



Cycle times on Buffoli machines depend on the number of spindles simultaneously machining (up to 40 spindles distributed over 1 to 20 working stations).

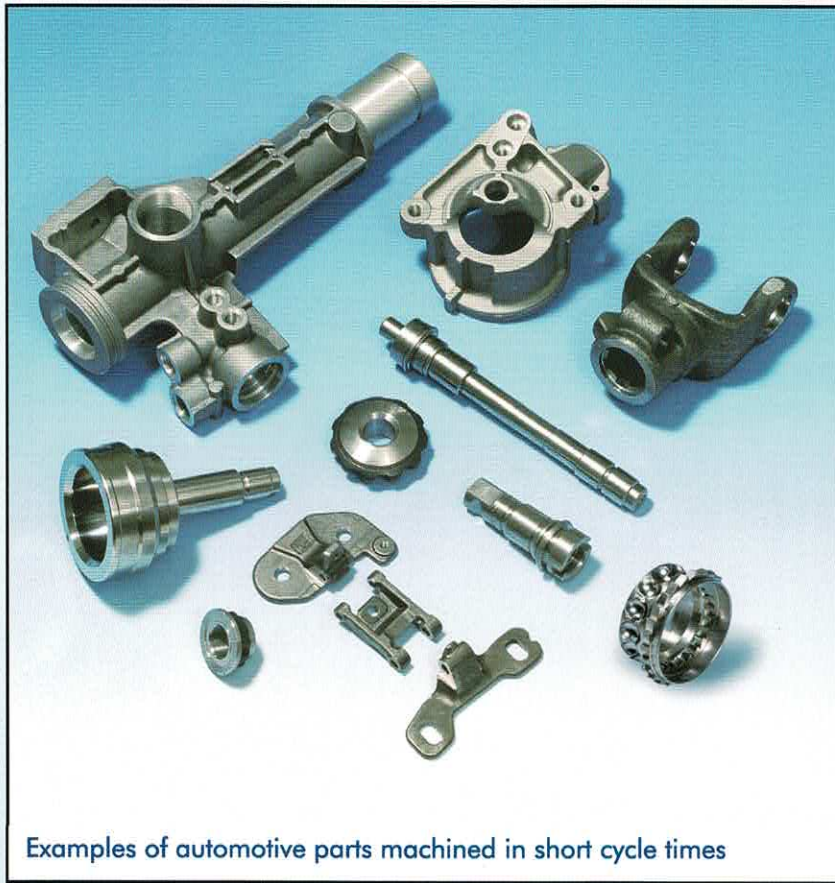


Buffoli is the worldwide leader in the manufacturing of CNC transfer machines for the production of precision parts from non-rotating bars or tubes (round, hexagonal or profiled).



HIGH PRECISION MACHINING

Industries served include: automotive, construction, defense, aerospace, appliance, pneumatic, hydraulic, sanitary, gas, medical, electrical, electronic, air conditioner and compressor parts, housings, pumps, shafts, valves, fittings, nuts, locks and precision turned parts in any material.



Examples of automotive parts machined in short cycle times



Locks and padlocks

Buffoli has a long time experience in supplying turn-key processes for the machining of any type of material, including special aluminum alloys, stainless steel, copper and bronze.



Hydraulics

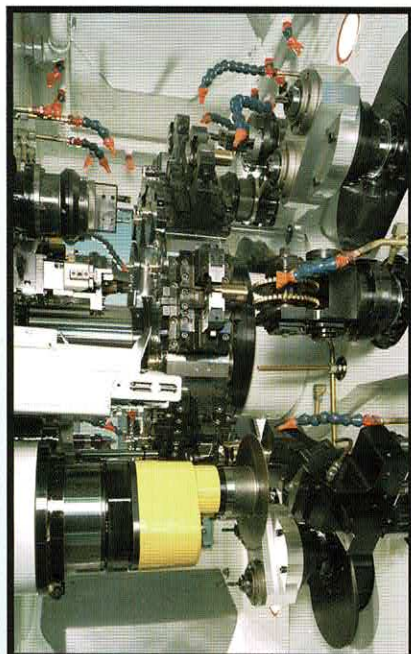


Sanitary and gas

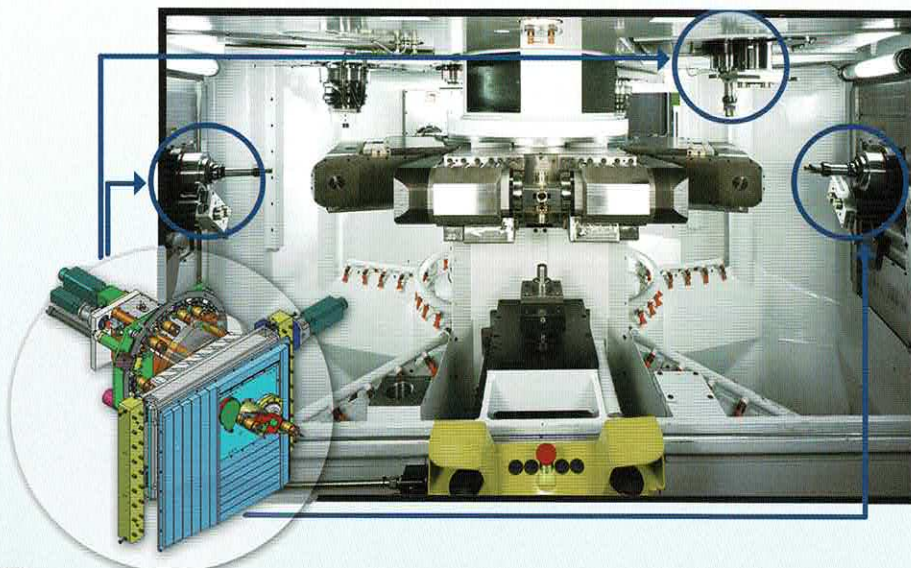


Household appliances

SOME OF OUR SOLUTIONS FOR HIGH



Flexible transfer machines with CNC continuous rotating jaws, equipped with machining centers with tool changers and static turning units (BUFFOLI CNC profiling heads)

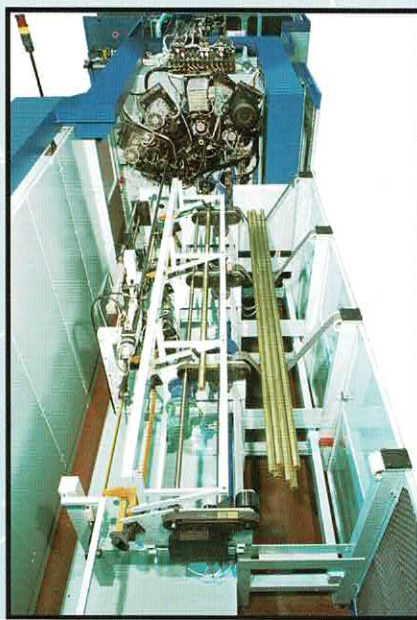


High precision multi-spindle transfer machines

- quick change over (less than 90 min.)
- possibility of upgrading and re-defining machine configuration
- suitable for machining complex parts on the entire internal and external surfaces
- short cycle times
- minimum material waste
- simultaneous machining from more directions
- possibility of unmanned production
- single or double production (1 or 2 parts/cycle)
- high geometrical and dimensional precisions
- high efficiency and repeatability
- in-process quality control, with SPC, CPK
- possibility of integrating up to 3 CNC lathes with tailstocks and multi-tool turrets

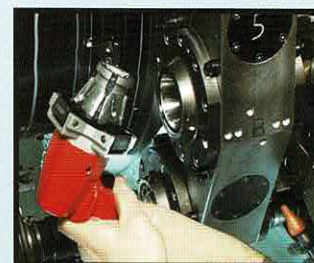


Buffoli is the world-wide specialist in static part precision turning and single-point threading by Buffoli CNC profiling heads offering high speed performances, accuracy and rigidity. Moreover Buffoli offers a wide range of special heads for milling, broaching, marking, rolling... in every direction



Buffoli bar loaders

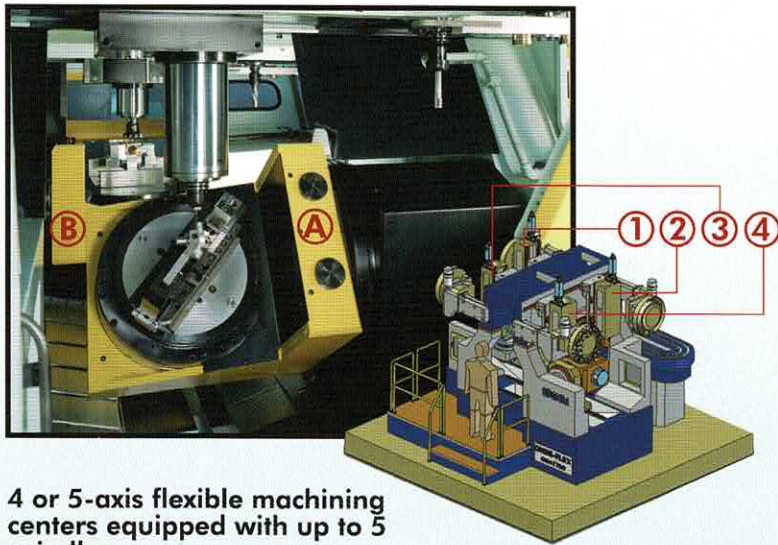
- completely automated
- 3000 kg bar bundles
- bar length up to 7 m
- automatic orientation for profiled bars



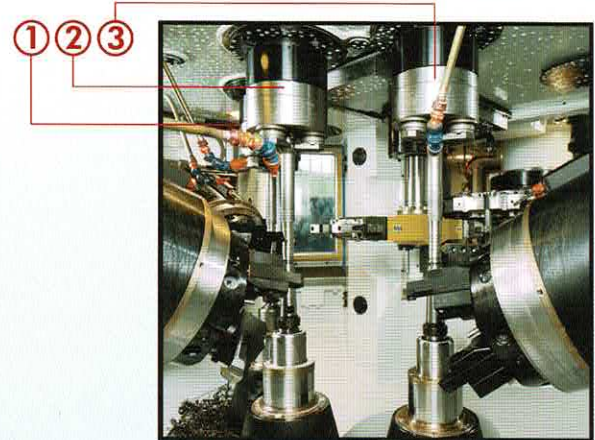
Extremely quick change over
(15-90 minutes) or completely automatic (unmanned)



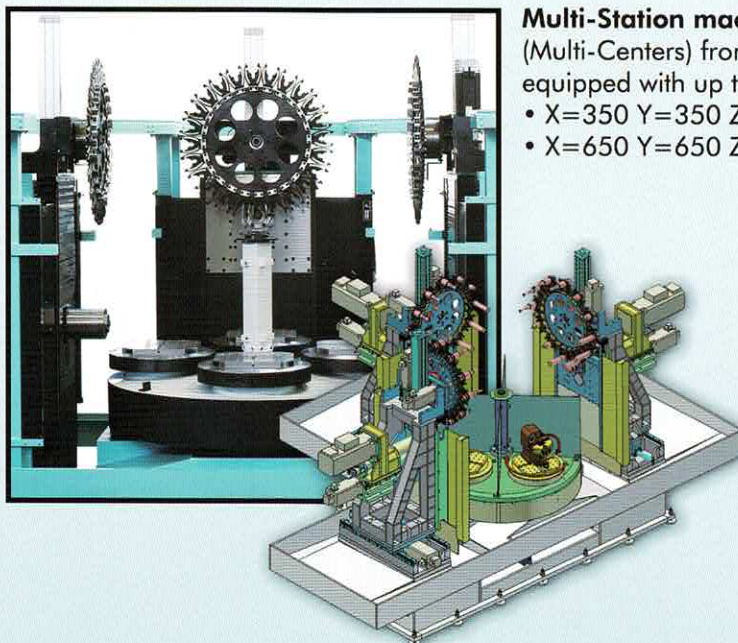
PRODUCTIVITY WITH CNC FLEXIBILITY



4 or 5-axis flexible machining centers equipped with up to 5 spindles



Machines integrating turning center and machining centers for complex parts (shafts or long parts)

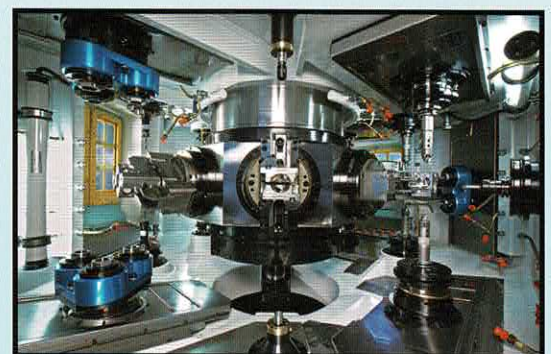
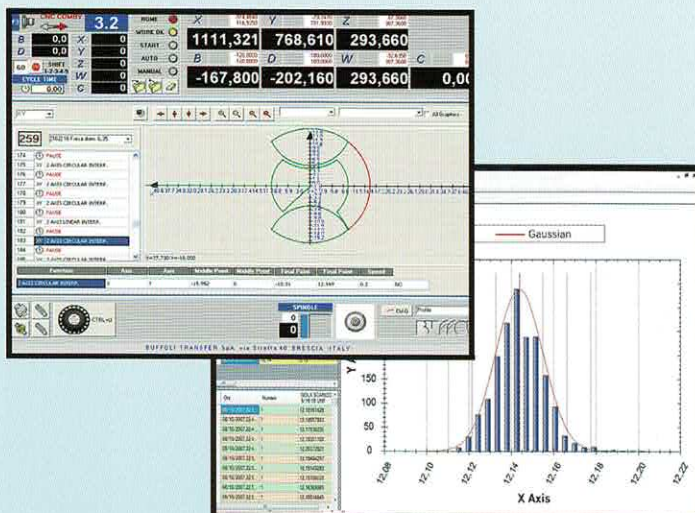


Multi-Station machining centers (Multi-Centers) from 4 to 6 stations, equipped with up to 5 spindles

- X=350 Y=350 Z=300 mm
- X=650 Y=650 Z=400 mm



Precision flexible transfer machines equipped with 3-tool **4-axis Multi-Process Modules** (patented) with tool change time in less than **0.4 seconds** (chip to chip)



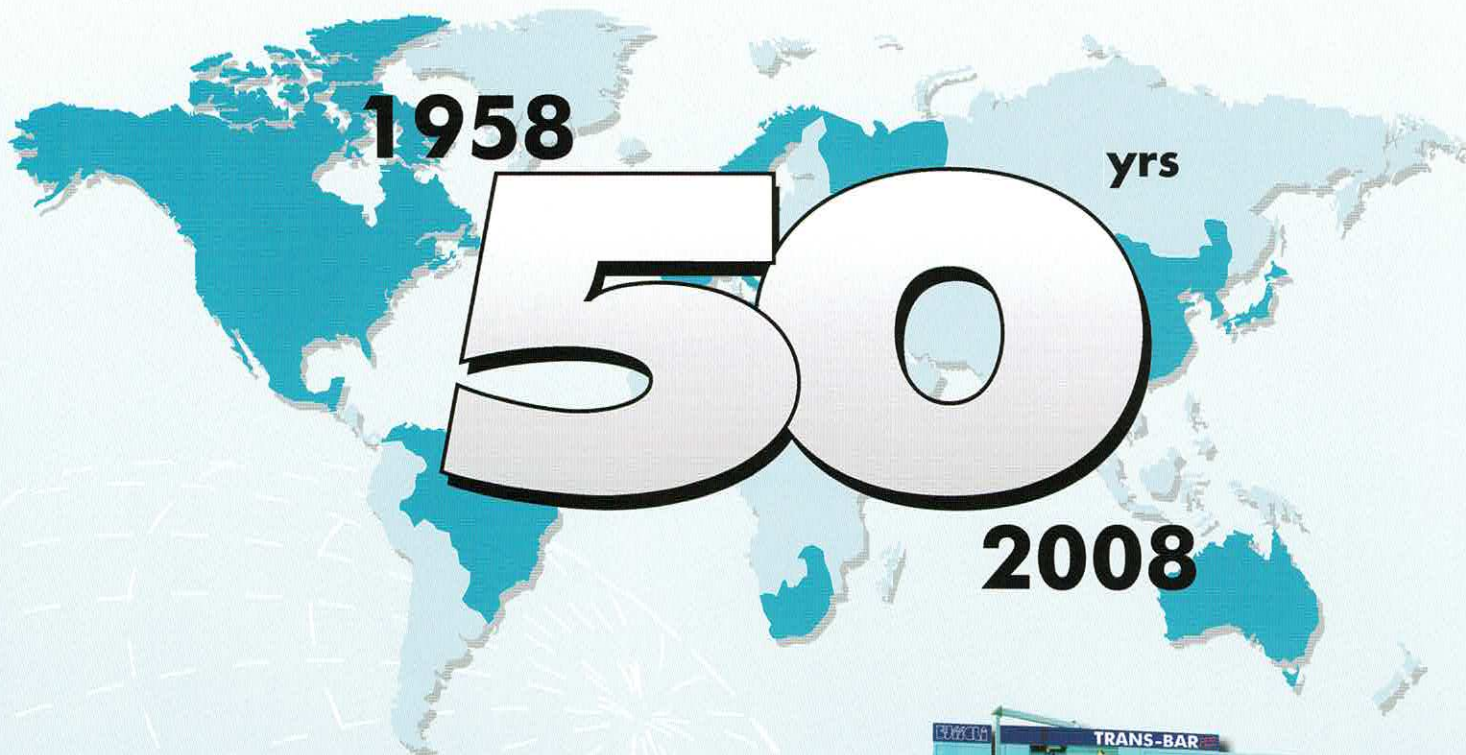
Precision CNC oriented clamping devices (continuous rotating with absolute encoders)

50 YEARS OF EXPERIENCE



Founded by Dr. Eng. Mario Buffoli in the early 50's as an Industrial Design Technical Office, since **1958** Buffoli has grown into a complete manufacturing facility (10,000 sq m – 108,000 sq ft) for the production of highly productive and flexible equipment built on the latest technology in the service of a wide variety of industries.

In **1981** the **Trans-Bar** was introduced, a machine especially developed to produce precision parts from non-rotating bar stock or tubes.



For over 27 years Buffoli has been the world leader in producing trunnion style bar machines up to 75mm (3") diameter.

Our continuous innovation and research, combined with close customer cooperation, allow us to constantly develop and improve our machines, serving all types of industries all over the world.



Buffoli®



Buffoli uses the most advanced methods in design, production and quality control to ensure up to date technology for our customers.

Designed and constructed to satisfy requirements of precision, productivity and flexibility, Buffoli machines are known and appreciated all over the world for their high reliability and efficiency.



From the most professional engineering staff down to our clean and well-organized workshop, our first priority is to provide the most advanced and cost effective manufacturing solution to each and every

Our specialized service staff ensures complete training, and immediate telephone or modem assistance and rapid dispatch of spare parts all over the world.



Buffoli serves the entire world and is the leading CNC rotary transfer machine builder in the North European and North American markets



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Our continuous improvement programs provide for progressive improvements and changes to our equipment and specifications
We regret that all changes may not be reflected in this literature