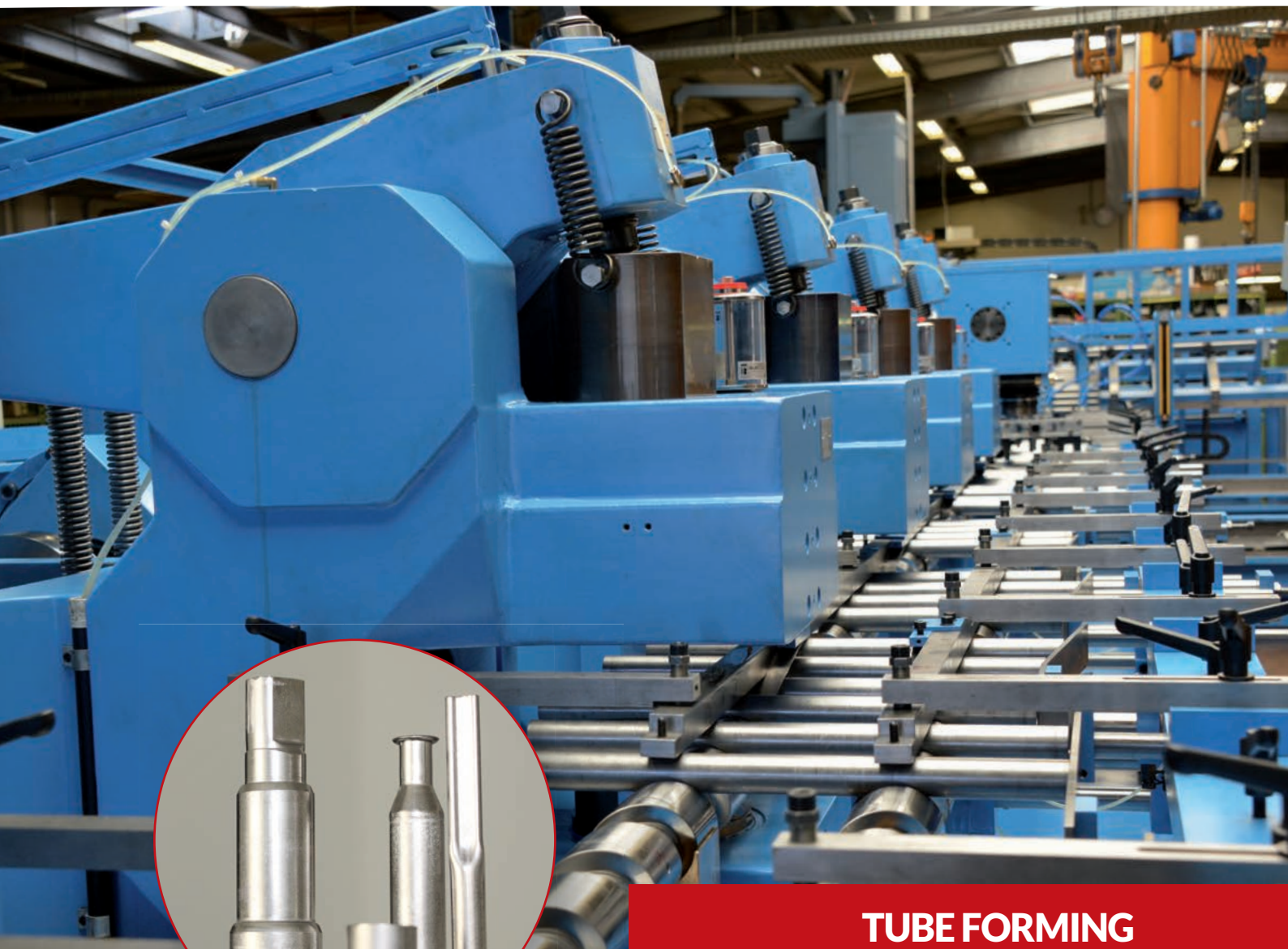


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AMBA



TUBE FORMING MACHINES

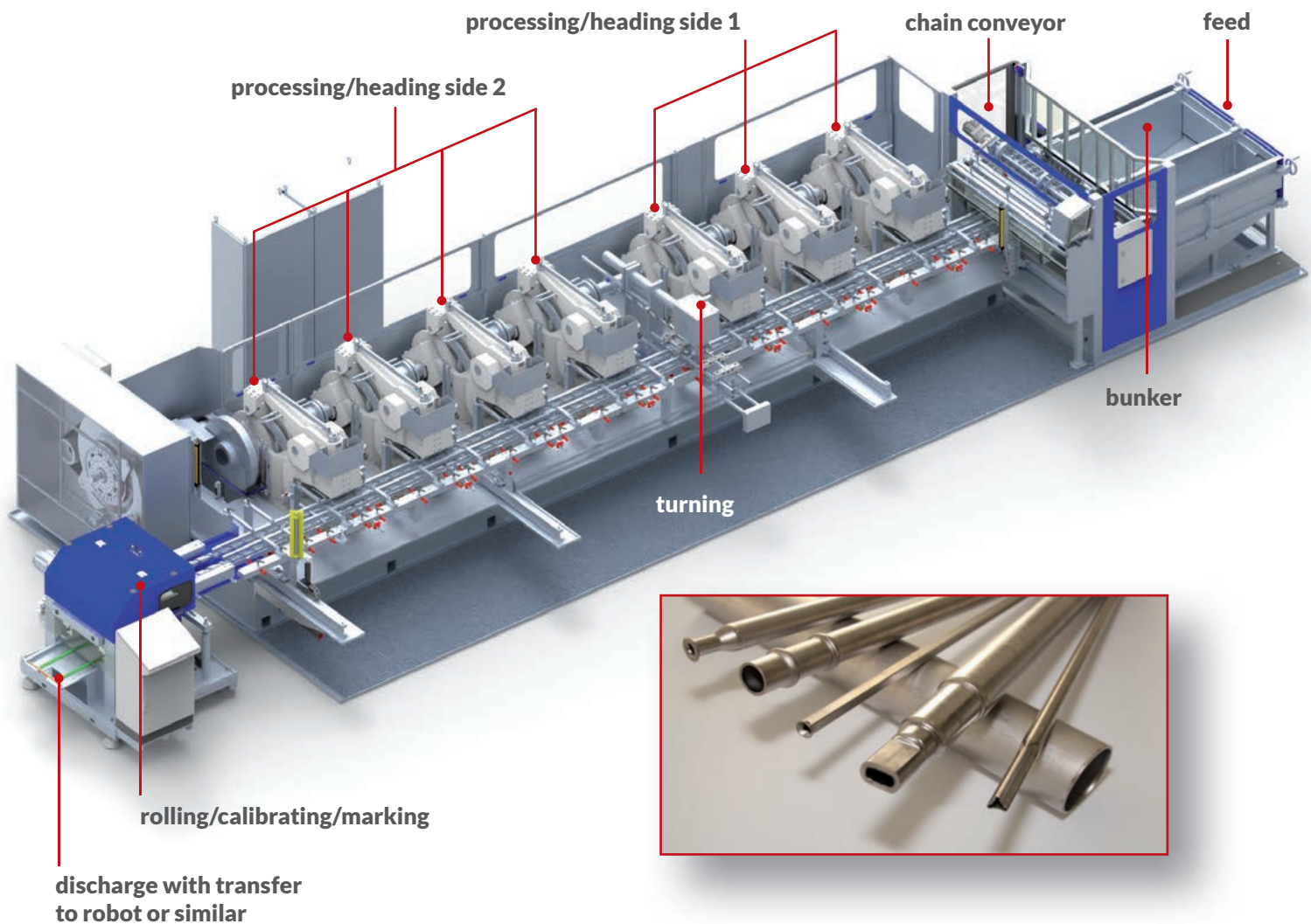
From blank to finished component in a single machine

**Cold forming and complete process integration in
a single machine - only AMBA can do this.**

As with the forming of solid material, we also apply the all-in-one principle to hollow profiles: The entire process from semi-finished product to finished product takes place in one machine - without reclamping or additional handling. This saves costs and increases productivity.

TUBE FORMING MACHINE BM 10

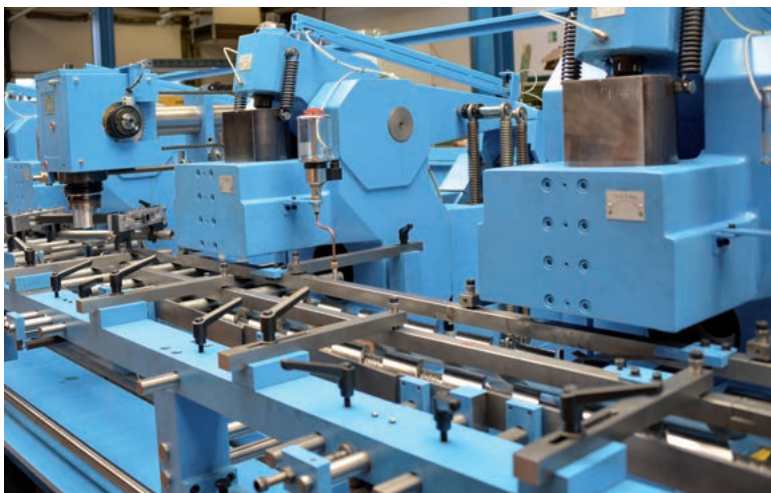
Version with seven processing stations arranged in line



Cold-formed tubes generally exhibit better strength behaviour than hot-formed tubes: With thinner starting material, they achieve the same mechanical properties. This means that cold forming in the all-in-one machine can produce a component from a thin tube that has the same strength as a hot-formed component from a thicker tube.

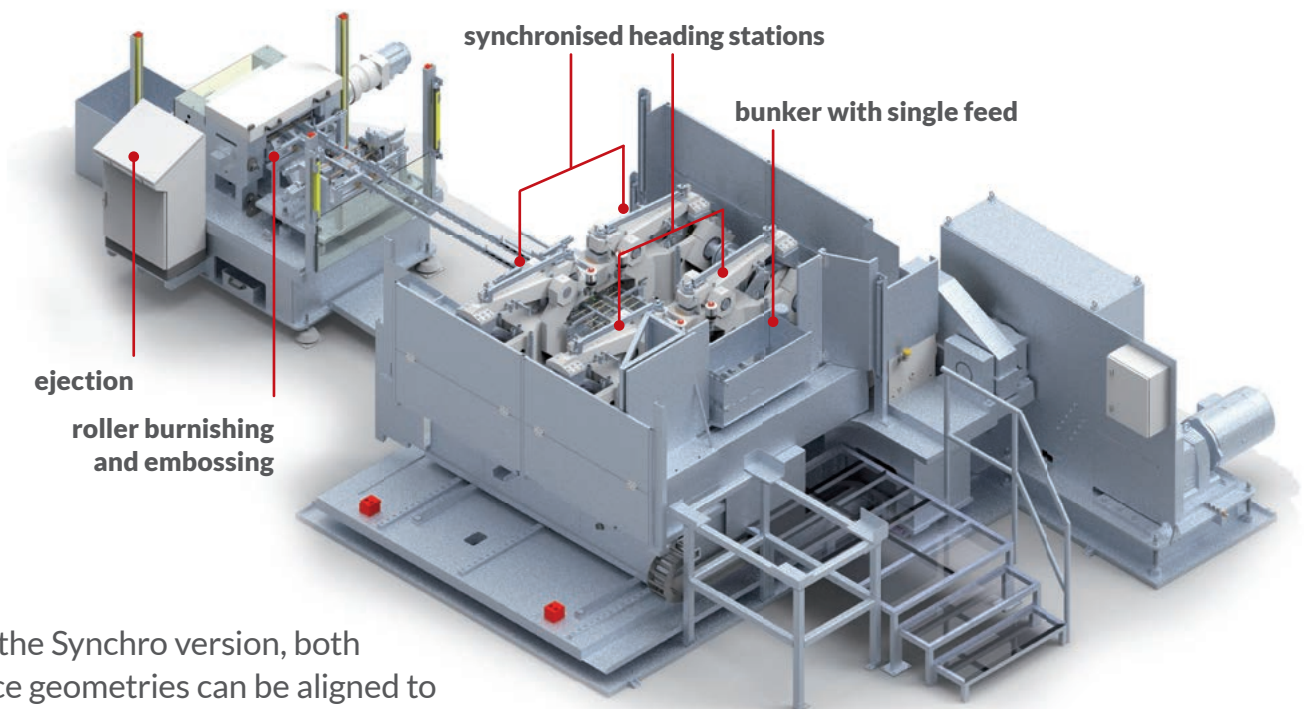
They also have a higher surface quality and in many cases subsequent machining is not necessary.

In contrast to machining processes, no material is removed during cold forming. This increases material efficiency and saves further processing steps.



TUBE FORMING MACHINE **BM 8**

Synchro version with opposing processing stations



In the Synchro version, both face geometries can be aligned to each other in the angular position.

Like all AMBA machines, the tube forming machine also significantly increases production efficiency:

■ **MECHANICAL POWER TRANSMISSION**

Cam control allows high forces at high speeds.

■ **HIGH FLEXIBILITY**

The number of cycles is infinitely variable in order to adapt the throughput to changing production requirements.

■ **MODULAR DESIGN**

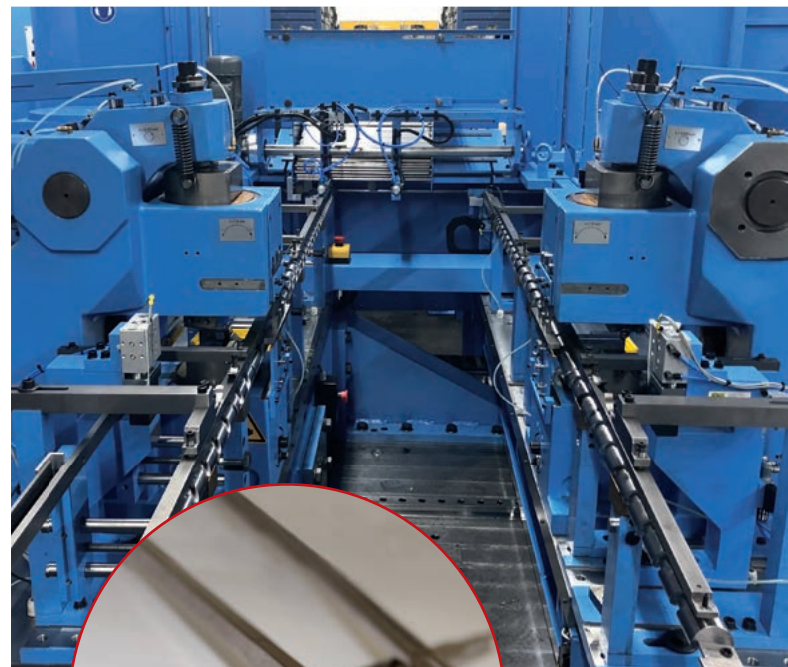
The number of processing stations is configured individually. Capacities can be provided for retrofitting modules at a later date.

■ **SIMPLE OPERATION**

Fully automatic operation

■ **HIGH AVAILABILITY**

Low downtimes due to robust mechanics



All-in-one tube forming machines

The highlights:

- Cold forming of hollow profiles up to 2,000 mm long
- Wall thicknesses up to 4 mm
- Tube diameters from 3 to 50 mm
- Spindle technology for part transport in the machine
- Robust mechanical design with high availability
- High energy efficiency
- Fast amortisation

The options:

- Material bunker
- Chain conveyor
- Empty stations for later extensions
- Marking stations
- Process monitoring
- Remote maintenance

AMBA spindle technology enables the safe transport of long components.



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