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CUTTING AND END FINISHING BC80

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BC80

Continuous production, certified results

Highly productive and completely automated machine that can produce 2200 pieces/hour; cut to length, chamfered and measured, starting from either tube or solid bar.

BC80 is both the highest performing and lowest cost machine on the market designed for 24 hour per day production of bushings up to 80 mm (3.15") diameter and lengths from 10-350 mm (0.4" to 13").

BC80

- completely automated operation
- chips and scrap drops managed separately
- tubes are protected from scratches
- all tube diameter changeover adjustments done from a single location
- simplified operator graphical interface

The bundle loader is available in different lengths all the way up to a maximum of 12.5 m (40'). The loader can be filled without interrupting production.

End drops and scrap chips are collected in separate containers. The 1100 mm (43") outlet height of the finished part conveyor makes it easy to change collection bins without interrupting production.

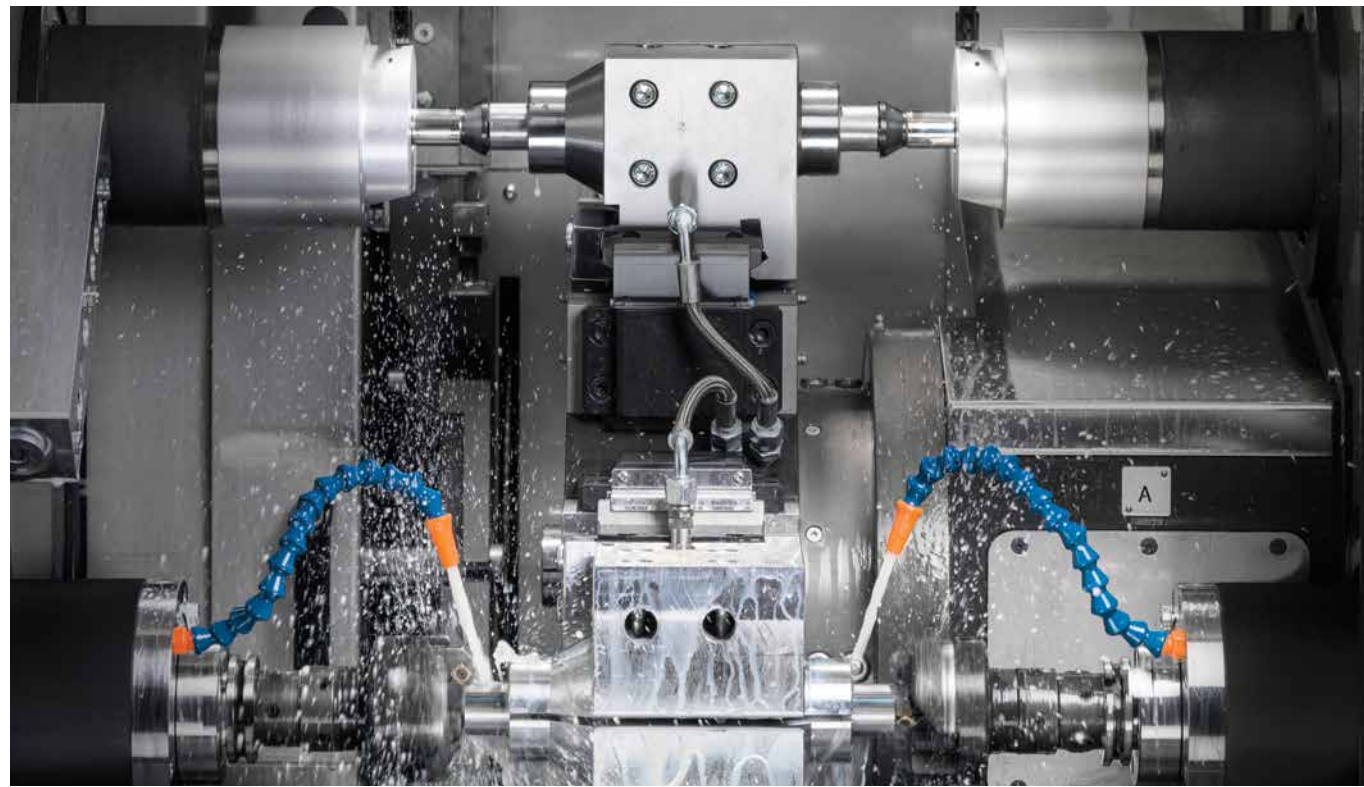


The finished part unloader has a two position separator that can be used when changing collection bins or to segregate scrap.

The pendant mounted operator console saves floor space and can be pivoted into position for maximum operator efficiency. The large touchscreen enables direct data input by the operator and provides a real time display of actual production.

BC80

Designed for continuous production



Features for process reliability

The totally enclosed work area prevents scrap accumulation and minimizes costly maintenance and cleaning operations.

The part measuring units are located in a higher position away from chips and scrap.

The washing / flushing of the part eliminates all processing chips and ensures consistent measurement results.



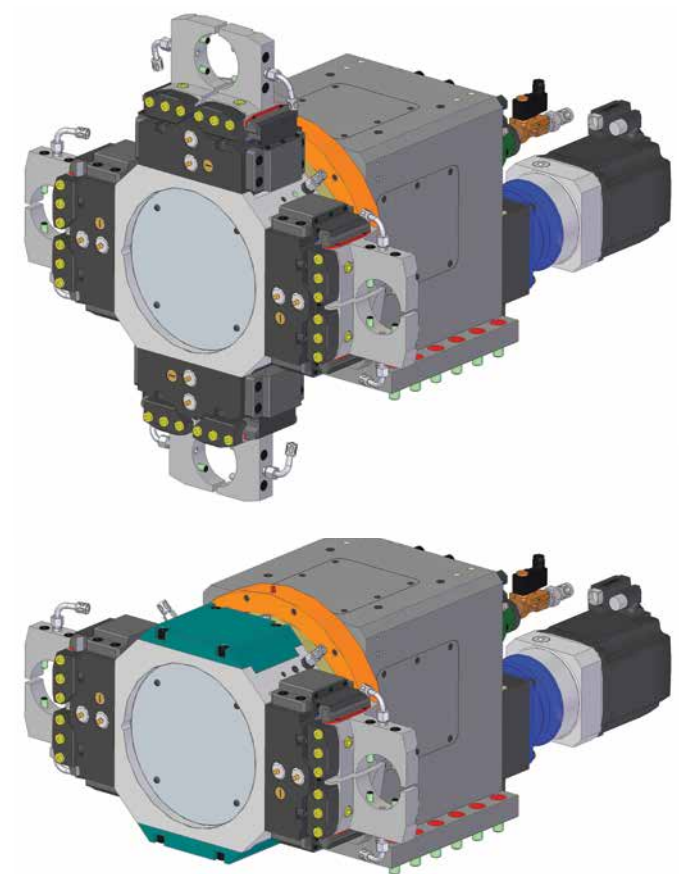
ADVANTAGES

- dynamic washing / flushing of the cut parts
- tool wear monitoring
- in process part measurement and 100% part inspection to print

The turret has self-centering grippers, each of which with its own integrated washing system to ensure proper part grip and avoid damaging or scratching the part surface.

The grippers and processing heads are precisely centered and aligned during machine installation.

Operators can perform any subsequent realignment of the workstations required due to crashes or unforeseen events.



BC80

Ergonomics and maintenance



Large access doors on both sides of the machine allows quick access for changing saw blades and tooling or performing routine maintenance to quickly let the machine resume production.

The new **‘head retract’** feature provides faster and easier saw blade changes.

Easy to use menus guide the programming of part dimensions, material types, tooling and processing steps to automatically provide optimized cutting conditions for maximum productivity.

The control monitors **the sawing chip load** and varies the feed rate and torque to optimize cutting performance and blade life.

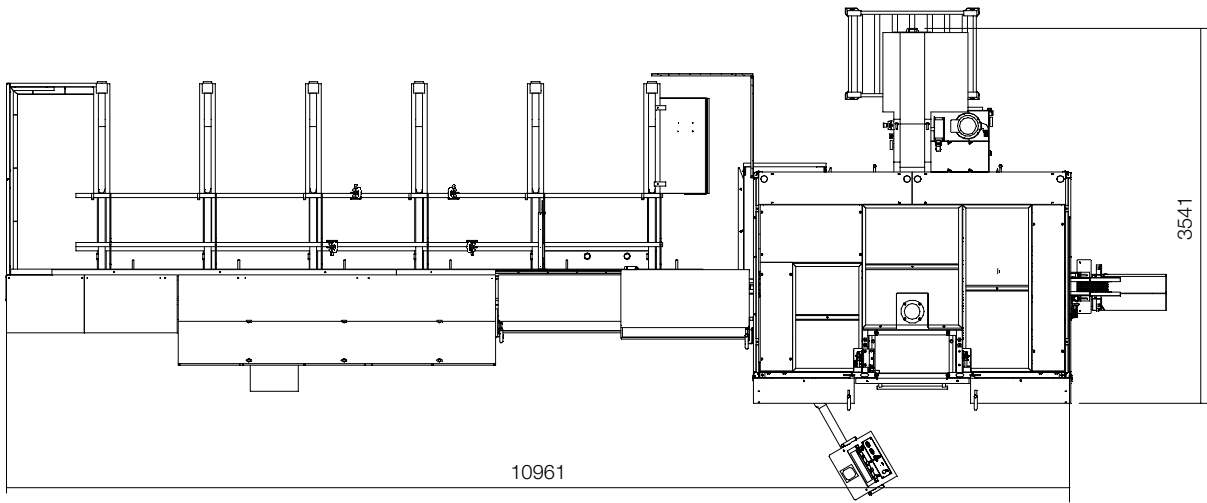


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Technical data

Round tube cutting capacity (mm)	min. 10 mm (0.4") - max 80 mm (3.15")
Workpiece length (mm)	min. 10 mm (0.4") - max 350 mm (13")
Loader length (m)	6.5 m (21'), 8.5 m (28'), 12.5m (40')
Saw blade diameter (mm)	275 mm (11") to 360 mm (14.15")
Saw rotation speed (rpm)	20 - 4000
Removal unit power (kW)	5.5
Tool holder style	ISO40 / Varilock - ABS Komet
Cutting spindle power (kW)	7.5 (HSS) / 9.2 (HM)
Total installed power (kW)	44
Basic machine weight L=6500 mm (kg)	13000 kg (28600 lbs)

The machine can optionally be supplied with a ‘hard metal’ or ‘non-ferrous’ cutting head.



Ⓒ Features, weights, measures, capacities and machine performance descriptions are not binding and may be changed without prior notice. The photographs are only examples.

SAWING AND END-FINISHING

tube bending
endforming
lasertube cutting system
sawing, deburring and washing
combined sheet and tube laser cutting
handling
3d measuring
manufacturing cell
non touch measuring systems
process control software



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