

Cost Effectiveness

and Innovation

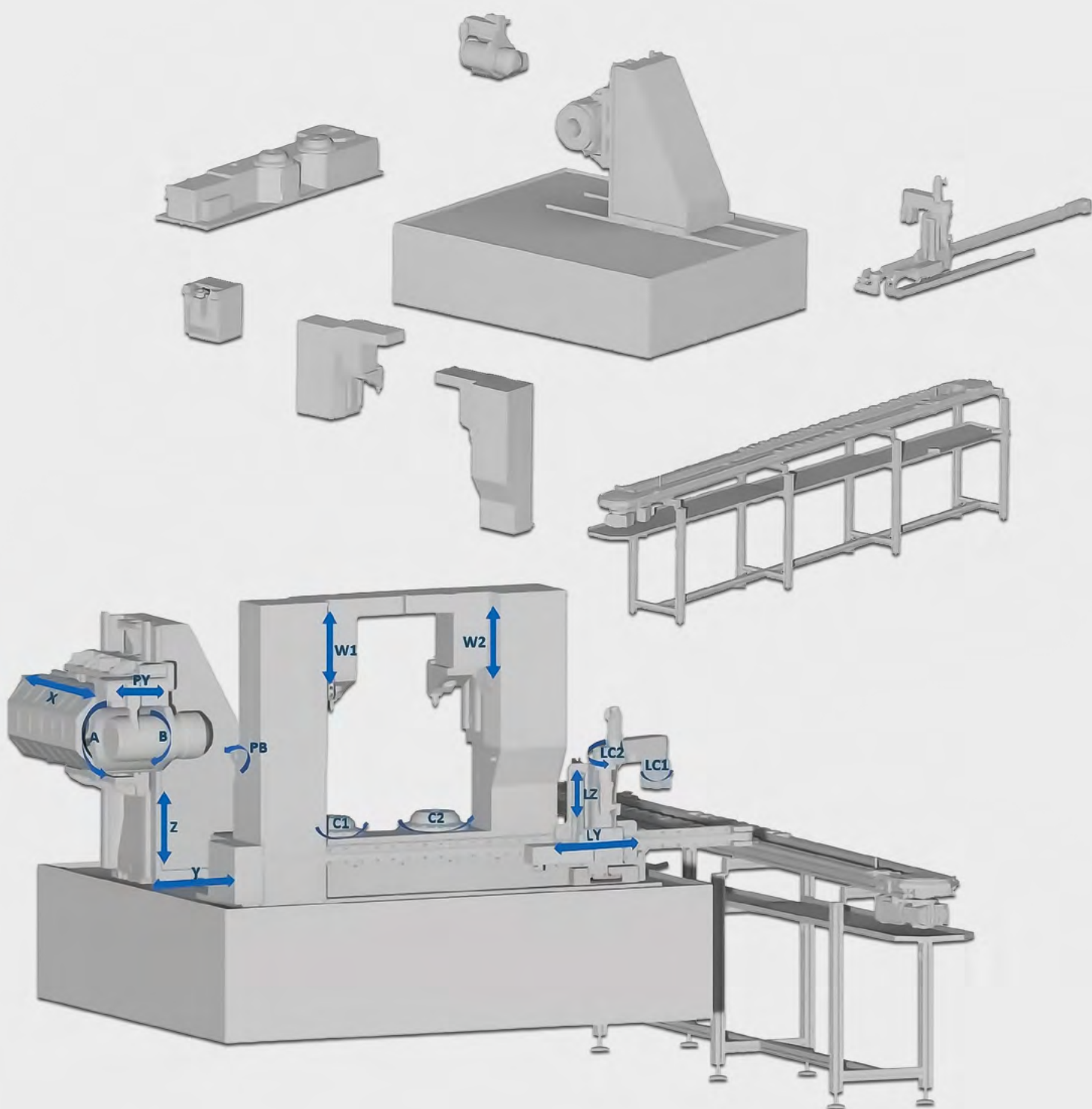
Made in Germany



**Double spindle
high performance generating
gear grinding machine BZ 130**

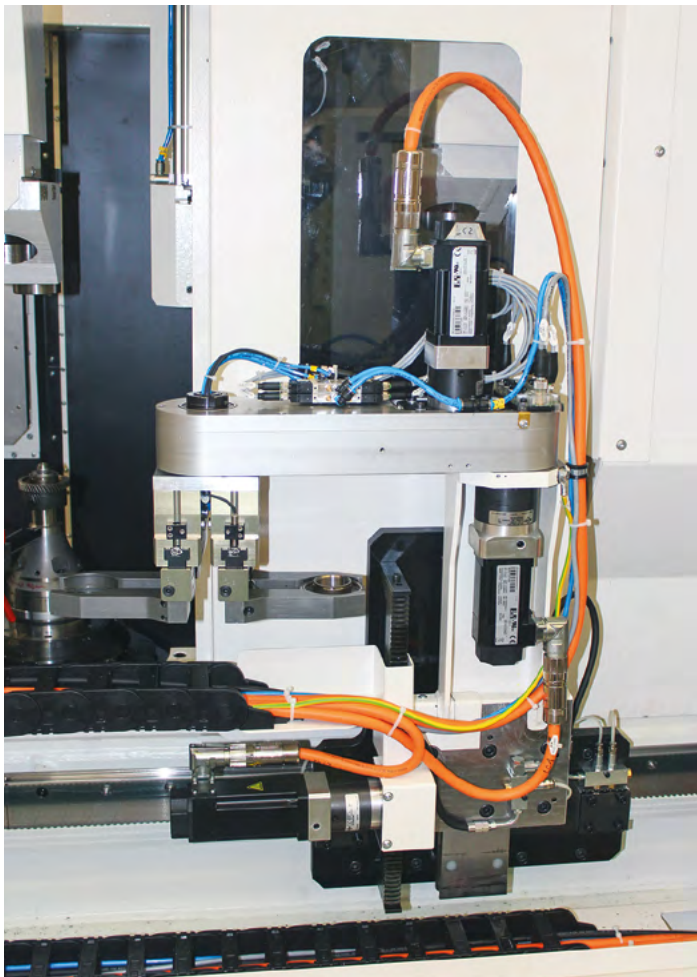
The Burri machine concept

One platform, many possibilities



The high-performance generating gear grinding machine built on our modular platform with its unique axis layout stands out from the standard. As a double spindle machine with a chip to chip time of only two seconds and the

integrated loading system the machine is ideally suited for large-scale production. As a workpiece storage, Burri offers a basket cell and various conveyer belts.



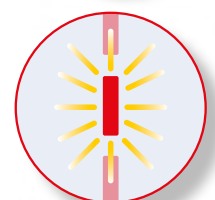
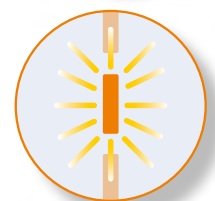
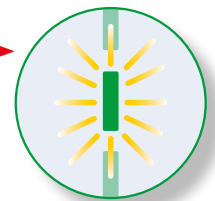
Integrated automation with double gripper



Workpiece storage as basket cell



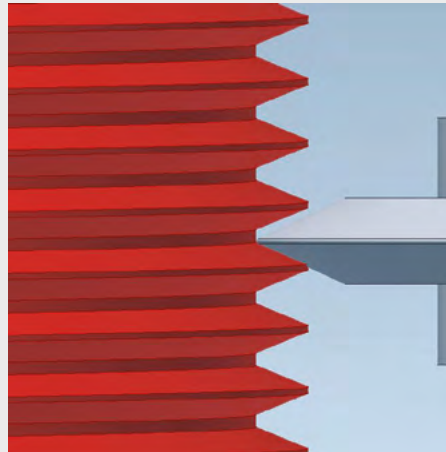
Workpiece storage as conveyor belt



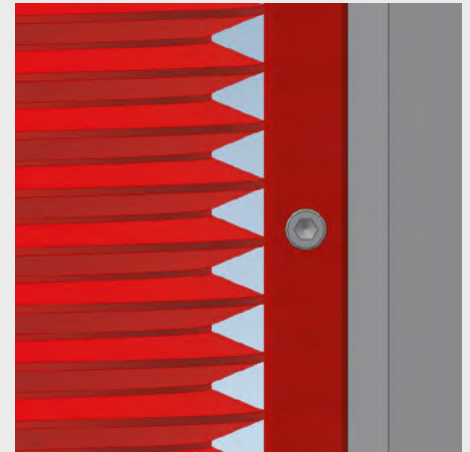
An integrated LED signal light shows the machine status.

The dressing spindle can be swivelled via NC axis for applications like twist control, asymmetrical gears, line dressing, single flank dressing, etc. A measuring device integrated into the outside diameter dresser checks the grinding wheel diameter every time the machine is switched on or after each wheel change, so that the maximum cutting speed can be reliably monitored.

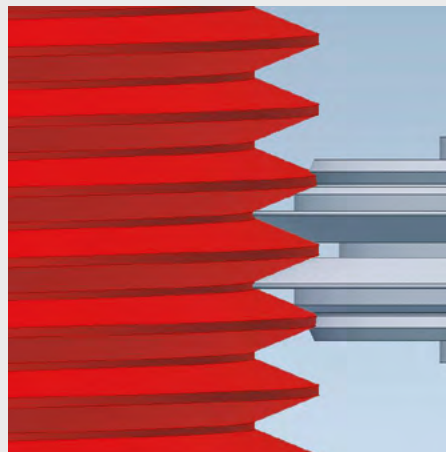
Dressing technologies



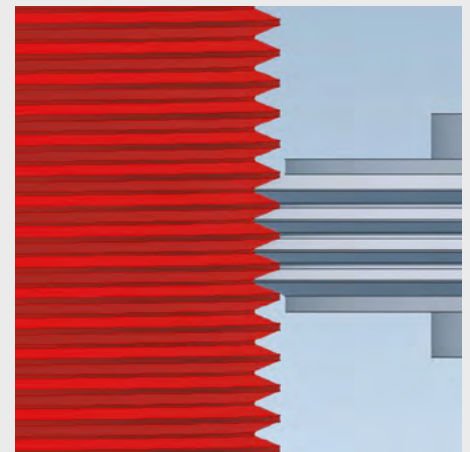
Double cone disc for single and double flank dressing



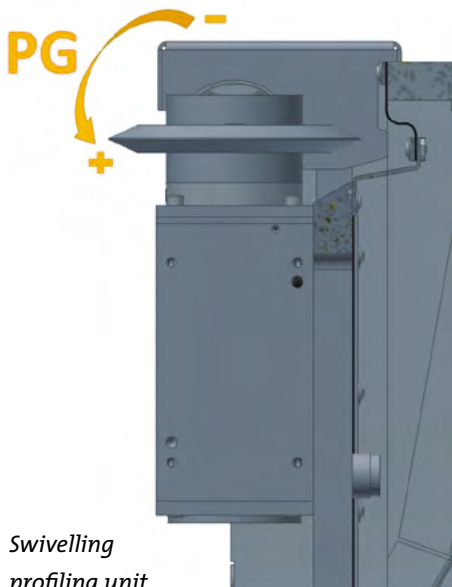
Outside diameter dresser



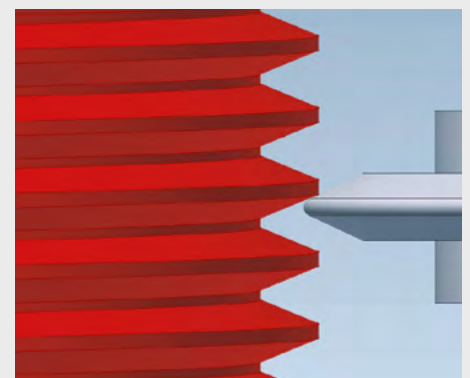
Composite roll



Multirib composite roll



Swivelling profiling unit



Radius roll for line dressing

BZ 130

With the newly designed compact grinding spindle with built-in bearings, grinding wheels up to a width of 200 mm can be used without counter bearings.

The new balancing head which is integrated in the spindle allows the fine balancing of the grinding worm in two planes. The complete set-up of the machine with the doors closed is guaranteed by the acoustic touch control. The grinding wheels are mounted directly on the spindle without flange. Therefore, the grinding wheel can be changed very quickly and ergonomically without auxiliary tools and without a crane. Due to the large wheel width of up to 200 mm, segmented grinding worms with roughing, finishing and polishing zones can be used very economically.

The workpiece spindles with water-cooled direct drives are matched to the high speed synchronisation developed by Burri and prepared for the Burri quick-lock base chuck. The oil spinning function is done in parallel to the machining process with the workpiece spindles.

The BZ 130 has an unbeatable energy efficiency in its class (10 kVA in production with loading).

Split touch screen: On the left is the machine area, the right area can be switched between balancing, acoustic touch control, automation and filtration unit.



Patented OD-dressing and monitoring of the grinding wheel diameter



Dressing with double cone disc

Technical data:

Workpiece Ø (max.):	160 mm*
Module:	0,5 – 4,0 mm
Workpiece length (max.):	530 mm**
Helix angle:	+/-45° (+135°)
Workpiece weight (max.):	5 kg
Workpiece speed (max.):	3.000 rpm
Cutting speed (max.):	80 m/sec.
Grinding pass (max.):	400 mm
Grinding wheel dimensions:	300 x 200 x 160 mm (D x W x d)
Dressing disc dimensions:	120 – 140 x 40 x 52 mm (D x W x d)

*larger diameters on request

**Minus clamping devices and tailstock centre



Grinding wheel with polish zone



Our sales network

From Germany to the world – More informations: www.burri.de



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