

## **Bevel Gear Grinding**

## Simple by Design

The Phoenix® 280G eliminates pipes, wiring and clutter from the work area so that swarf containment and evacuation is extremely efficient.





your machine with coolant headers that can be set up without tools in seconds, with nozzles that deliver high pressure coolant exactly where it's needed. Header positioning is easily repeatable to achieve exactly the same results on the same parts downstream.

To save on first-part inspection time, you add a wireless, removable probe for fast, convenient checking of flank form, tooth size, pitch error and balancing.

Finally, you want one machine to do it all: Coniflex® grinding of straight bevel gears; Coniface $^{TM}$  grinding of face gears; grinding from solid; and the ability to produce Super Reduction Hypoids and Hypoloids...

It's the perfect machine for today's bevel gear fine finishing requirements. We call it the Phoenix® 280G.



Telescopic dressing unit extends for dressing and retracts during grinding.



Quick, repeatable tool-less exchange of coolant pipes.

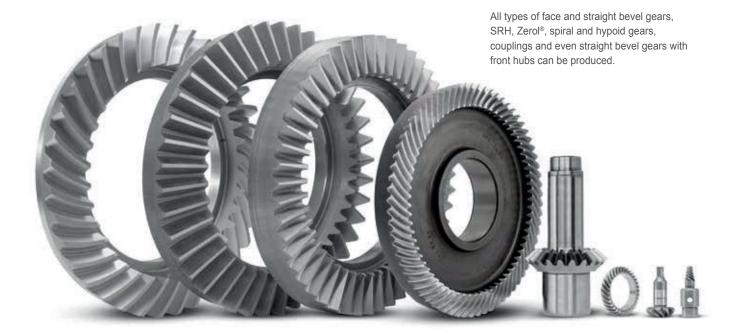


Automatic stock divider for a consimultaneously with dressing.

## Now, Better Than Ever

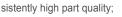
The 280G has been a proven solution for several years, employing all of the many features and benefits described above. New users routinely report index quality improvements of 2-3 classes, and the need for far less random parts checking. Now a host of new capabilities is taking the 280G to an even higher level. These include:

- Automatic compensation for workholding runout: 75% less.
- Polish grinding: for low-noise, less fuel consumption.
- UNIMILL™ Universal Milling Method: ideal for prototyping and front hub cutting.
- Next-generation grinding wheels: less wheel wear per part to reduce dressing.
- Automation solutions to increase throughput.
- Closed Loop connectivity with inspection for corrections on the fly.



## **Bevel Gear Grinding**







Integrated workpiece measuring for simple and fast inspection of the first workpiece.



Quick-change tooling for workholding and tools.



Different models of Gleason bevel gear grinding wheels cover the widest range of applications, including grind from solid.



Meet the 280G



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