

New CNC Centerless Grinder from Total Grinding Solutions (TGS)

With precision and affordability in mind, Total Grinding Solutions (TGS) is pleased to offer the TGS-CL-6020 centerless grinder. Configured for both throughfeed and infeed grinding, the TGS-CL-6020 handles even the highest volume production runs with extreme accuracy and consistency. The TGS-CL-6020 is designed for large-batch production with short setup times and easily handles a variety of applications industry-wide.

“Sound purchase,” “rock solid,” and “long-term investment” are terms used to describe the TGS CNC centerless grinding machine. Constructed with only the most heavy-duty components, the TGS-CL-6020 centerless grinder provides long service life even in the toughest production environments. You can be assured that the TGS centerless grinding machine is built to last.



▲ TGS-CL-6020 CNC centerless grinder with elevator hopper, loading conveyor and post-process gage for throughfeed pin grinding

Excellence. Expertise. Economy. – TGS CNC Centerless Grinders

Excellence.

By continuously engineering innovative grinding equipment through its significant investments in research and development, TGS remains an industry-leading manufacturer of centerless grinders.

Expertise.

Whatever your question or concern, the TGS team of grinder experts – with over 150 years of combined experience – will partner with you to solve your challenge. The TGS team can suggest auxiliary equipment and centerless grinding machine upgrades that will increase production rates and machine efficiency.

Economy.

Aware of the increasingly competitive manufacturing environment, TGS engineers and manufactures centerless grinders that boast the quality of higher-priced equipment while still accommodating most budgets. TGS allows you to enjoy the benefits of a new piece of equipment – and the most recent technological improvements – with a quick payback.

Just a few of the many features of the TGS-CL-6020 CNC centerless grinding machine:

- Grinder machine bed is constructed from high quality cast iron that is stress-relieved for lifetime accuracy and years of reliable, trouble-free operation.
- Integrated, heavy duty preloaded rolling guide ways speed cycle times and allow tighter tolerances.
- Regulating wheel spindle incorporates high precision, greased-for-life roller bearings.
- Outboard bearing support provides maximum spindle rigidity and extended operational life.
- Upper and lower slideways feature a micro-feed attachment for fine adjustment of less than 0.001mm.
- Two-axis CNC grinding wheel dresser accommodates any part profile.

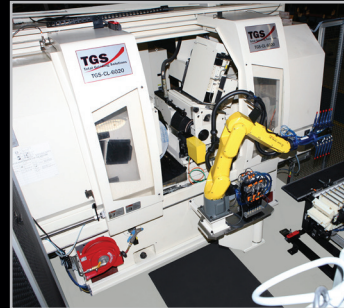
Automation options include:

- Gantries
- Robots
- Vibratory bowl feeders
- Roller/belt conveyor

“The TGS is everything we would want in a machine. Once our new centerless got going, it’s proven itself as a solid machine that will carry us into the future. It will be around for a long time.”

- Henry Matousek Jr., president, Grind All

TGS-CL-6020 CNC centerless grinder with robotic load and unload for punch grinding



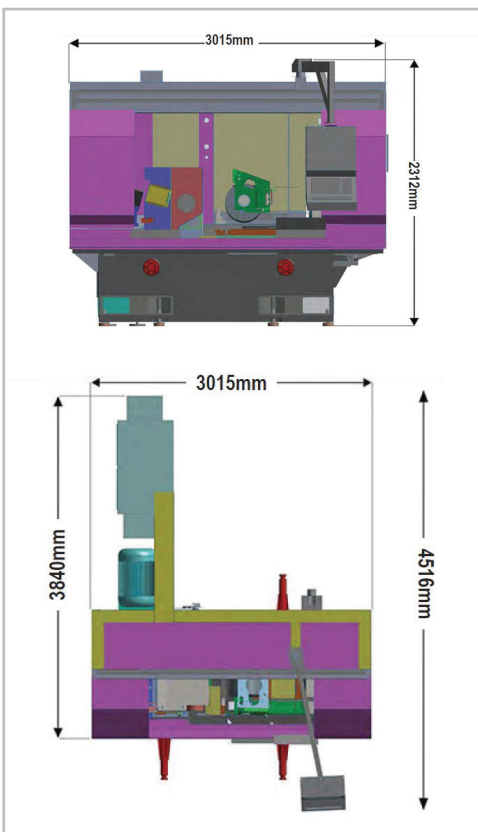
TGS-CL-6020 centerless grinder with roll feed automation system



▲ FANUC controller



Machine layout



Specifications

	Unit	TGS-CL-6020
CAPACITY		
Min-max diameter	mm	∅3 - ∅120
Length	mm	200
GRINDING WHEEL		
O.D. x Width x I.D.	mm	∅610 x 200 x ∅304.8
REGULATING WHEEL		
O.D. x Width x I.D.	mm	∅350 x 200 x ∅152.4
IN-FEED SLIDE		
In-feed stroke	mm	150
GRINDING WHEEL, TRAVERSE DRESSER		
Slide stroke	mm	250
GRINDING WHEEL IN-FEED DRESSER		
Slide stroke	mm	150
CONTROL SYSTEM		
Standard		FANUC
Optional		Siemens / Allen-Bradley
MACHINE SIZE L x W x H		
Weight	mm kg	3700 x 3750 x 2300 8000