

Copy-type Chamfering Machine

KSG-500 Series (1-spindle, 2-spindle & 3-spindle types)

No programming (Various-shape following method)

*Adaptable to automation
for increased productivity*

*Various gears and sprockets,
Automobile/motorcycle parts,
Construction machinery parts, etc.*

*Capable of processing outer and
inner circumferences of Various-shape parts*

Improved quality

*Auto deburring
and chamfering*

*Ready to use with
a rough deburring unit
or a brush unit*

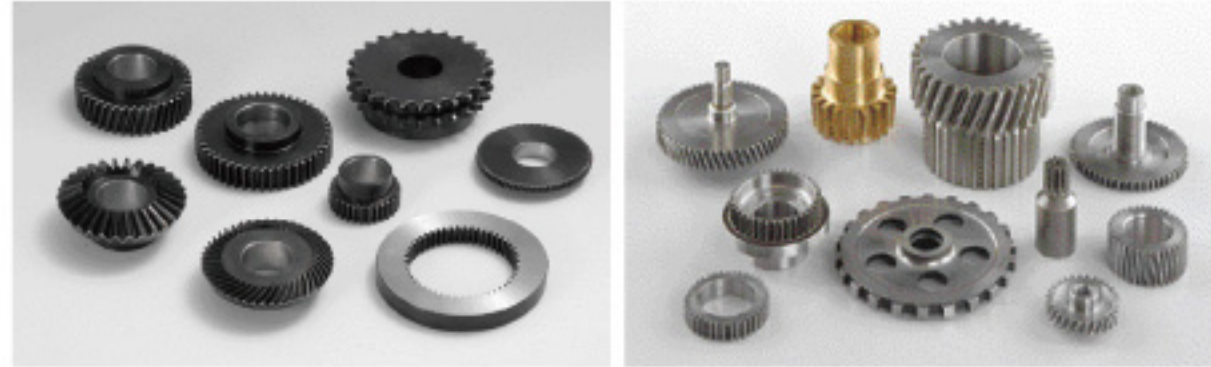
Increased productivity

*Simultaneous processing of
both sides (top/bottom)
in one chucking*



Examples of processed workpieces

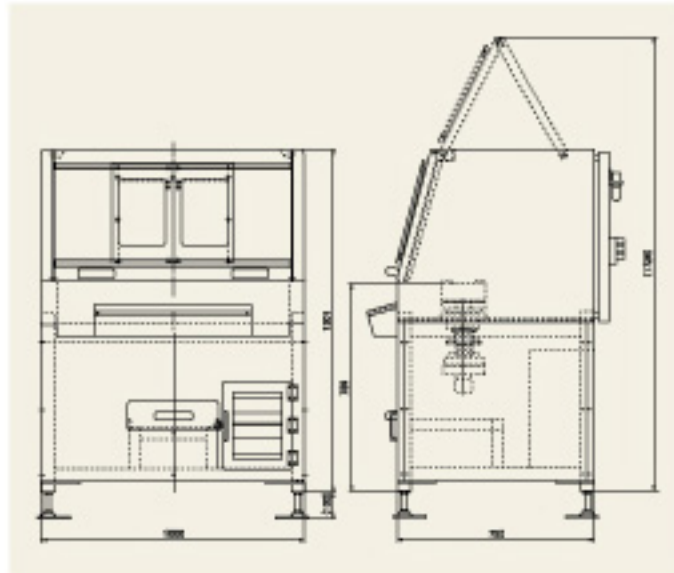
- ◎ Various gears (spur gear, helical gear, internal gear, bevel gear, spiral bevel gear), sprockets
- ◎ Chamfering of outer and inner circumferences of Various-shape parts, such as automobile parts, motorcycle parts, and construction machinery parts



Inquiries regarding workpieces are welcome.

Note: Some workpieces may not be able to be processed with this machine depending on their shapes and materials.

General view of the standard machine (unit: mm)



Note: Information in this catalog is subject to change without notice.

KSG-500 Series - Standard Specifications

Type	KSG-510	KSG-550	KSG-560
Number of tool spindles	1 spindle	2 spindles	3 spindles
Allowable module range	0.75 - 6.0		
Chamfering capacity	Steel: 0.2-0.8		
	Cast iron: 0.2-1.2 Brass: 0.2-1.0		
Workpiece size	Min.: 25 dia. x 20 lg. Max.: 500 dia. x 150 lg.		
Tool collet diameter	3.0 or 6.0		
Power consumption	1 kVA		
Air consumption (l/min)	0.2		
Machine dimensions (width x depth x height) mm	900 x 1000 x 1380	1000 x 750 x 1350	
Weight (approx.)	250 kg	300 kg	400 kg

Manufacturer



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Distributor

● Easy change of set-up / Ready for high-mix, low-volume production

● Specialized machine designs according to the workpiece are also available

● Capable of automation (loading/unloading) and incorporation into a line

● Space-saving design

<http://www.mentori.biz>

KABUTOYAMA WORKS CO., LTD.

Increased productivity
through high-speed processing and simultaneous
double side processing

Deburring/Chamfering Machine

KSG-500 Series



Examples of gear chamfering



According to the workpiece, 3 types (1-spindle, 2-spindle, 3-spindle) are available to select from.



- ① 1-spindle type
- ② 2 types (vertical workpiece rotating axis type and horizontal workpiece rotating axis type) are available.
- ③ The photo shows an example of a horizontal axis type machine working with a gantry loader, making up an automated line.



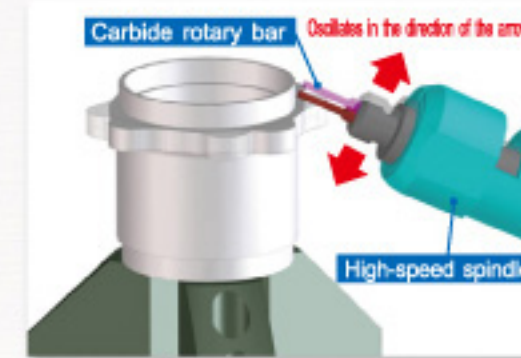
- ④ Standard machine with a vertical workpiece rotating axis and two tool spindles
- ⑤ Provided for dual-mode operation - 1-spindle processing and simultaneous 2-spindle processing



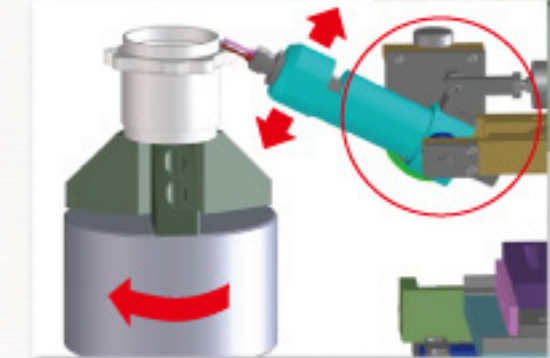
- ⑥ Special 3-spindle specification
- ⑦ Simultaneous 3-point processing is also possible.
- ⑧ The photo shows an example where a rough deburring unit for removing large burrs is attached.
- ⑨ A brush unit can also be attached.

KSG-500 processing method

No programming
(Various-shape following method)



In this machine, a carbide rotary bar rotating at a high speed follows the shape of the workpiece to trim its edge. Therefore, there is no need for a processing program or workpiece positioning.



The tool contact pressure on the workpiece is adjusted at the section circled in red in the above figure. The chamfering amount is adjusted during set-up change using the tool contact pressure.

KSG-500 Proposals for automation

Kabutoyama Works provides support for achieving automation in deburring and chamfering processes in order to increase productivity. In response to customers' requests, we will provide detailed solutions based on the conceptual plans.

