



KABUTOYAMA WORKS CO.,LTD.

# Copy-type Chamfering Machine

**KSG-300 Series** (1-spindle & 2-spindle types)  
Various-shape following system - no programming required

Low cost,  
High performance  
machine series

Increased productivity

Simultaneous processing  
in one chucking



Improved quality

Auto deburring  
and chamfering

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

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



- Easy change of set-up  
— Ready for high-mix, low-volume production
- Equipped with a pneumatic chuck and a pneumatic motor
- Space-saving design

[www.mentori.biz](http://www.mentori.biz)

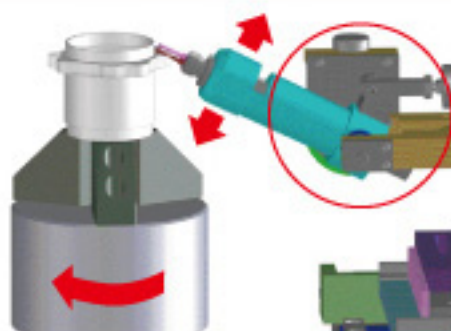
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## KSG-300 processing method

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.

## Examples of gear chamfering

- ① Various gears (spur gear, helical gear, internal gear, bevel gear, spiral bevel gear), sprockets —
- ② Chamfering of outer and inner circumferences of odd-shape parts, such as automobile parts, motorcycle parts, and construction machinery parts



Spur gear (m = 1.5)

Dia. 80; 20 sec.  
for processing outer circumference



Internal gear

Dia. 80; 25 sec.  
for processing inner circumference



Spiral bevel gear

Dia. 90; 18 sec.  
for processing outer circumference



Spur gear

Dia. 100; 18 sec.  
for processing outer circumference



Helical gear

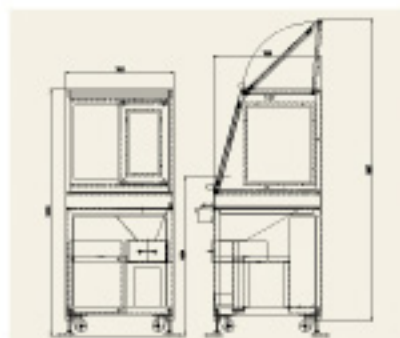
Dia. 85; 16 sec.  
for processing outer circumference



Sprocket

Dia. 110; 20 sec.  
for processing outer circumference

**Inquiries regarding workpieces are welcome.**



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

Type	KSG-310	KSG-350	KSG-360
Number of tool spindles	1 spindle	2 spindles	1 spindle + brush
Allowable rotative 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.: 180 dia. x 150 lg.		
Tool collet diameter	3.0 or 6.0		
Power consumption	1 KVA		
Air consumption (l/min)	230	460	460
Machine dimensions (width x depth x height) mm	700 x 620 x 1600		
Weight (approx.)	270 kg	300 kg	300 kg

### Type List

1-spindle type	KSG-310
2-spindle type	KSG-350
1-spindle + brush unit type	KSG-360

\* Counter (Optional)

Distributor

Manufacturer



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