

# 齿轮加工机床

## GEAR TECHNOLOGY

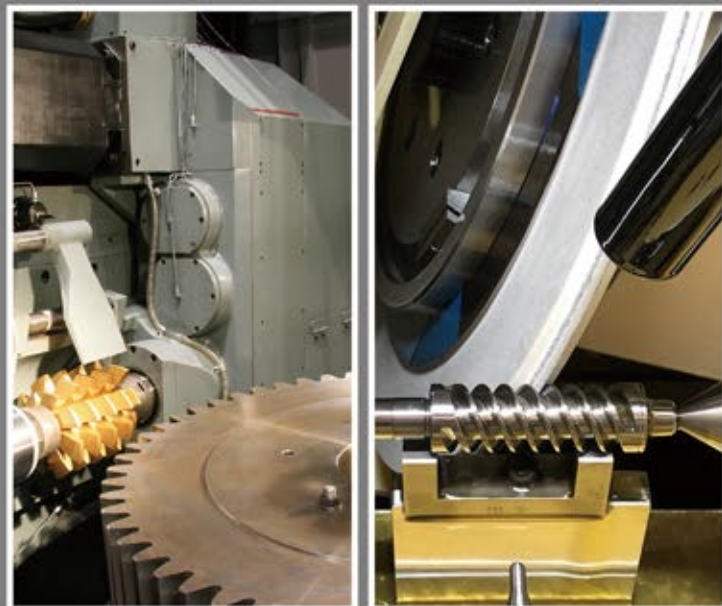
刮齿机  
GEAR SKIVING MACHINE



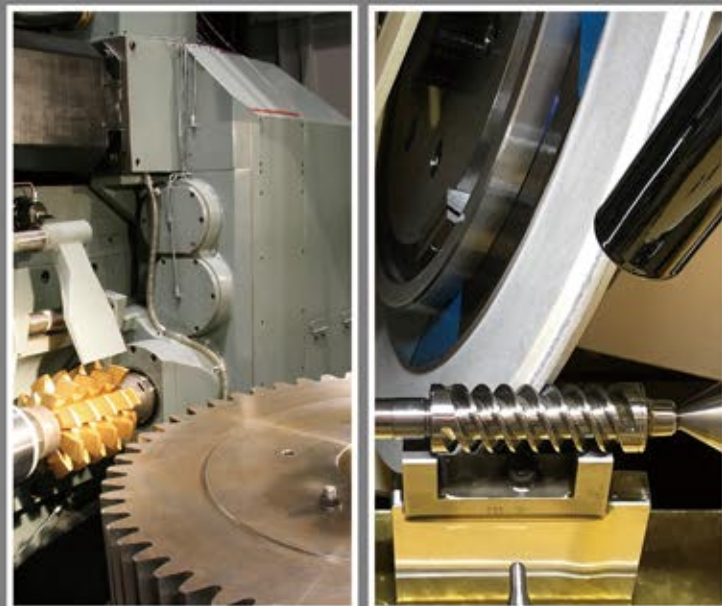
插齿机  
GEAR SHAPER



大型滚齿机  
LARGE HOBBING MACHINE



蜗杆磨床  
WORM AND THREAD GRINDER



株式会社 唐津精密机床  
Karats Precision, Inc.

# 刮齿机

# GEAR SKIVING MACHINE

## GSV-25N 刮齿机 GSV-25N GEAR SKIVING MACHINE

同插齿加工相比，刮齿加工的效率及精度有飞跃地提升。为满足日益增长的汽车零部件与机器人用精密减速机等齿轮高效加工的需求，于2014年开始销售。

Gear skiving process significantly improves productivity and accuracy compared with conventional shaping process. To meet the demand for high productivity and high precision in automobile and various reduction gear processing, Karats Precision has started supplying gear skiving machine since 2014.



## GSV-45N 刮齿机 GSV-45N GEAR SKIVING MACHINE

采用特殊构造对减速机、工程机械、卡车等行业中型齿轮的高精度高效率加工有显著效果。

GSV-45N is the latest model of gear skiving machine specialized in machining medium size gears for reduction gear boxes, earth movers and large vehicles.

## GSV-60N 刮齿机 GSV-60N GEAR SKIVING MACHINE

专为加工工程机械等驱动系中的大齿轮而开发的机型。各轴龙门式驱动构造，具备高刚性。采用对称式架构可很好地控制本体的重量以及热变形。

GSV-60N is designed to process large size internal gear up to m8. Double column design is employed and provides excellent rigidity which guarantees high quality, high productivity as well as long tool life.



# 大型滚齿机

# LARGE GEAR HOBBING MACHINE

## GH-120N 大型滚齿机 GH-120N LARGE GEAR HOBBING MACHINE



双头滚珠丝杠切削进给安定；  
人机对话编程操作便利；  
滑动导轨刚性高；  
齿轮驱动切削性能强劲。

Vertical feed motion is activated  
by twin ball screws,  
vertical feed and infeed motions  
are supported on sliding  
guideways and hob spindle  
is driven through a rigid gear train.

# 蜗杆磨床

# WORM AND THREAD GRINDER

## SWG-200N 蜗杆磨床 SWG-200N WORM AND THREAD GRINDER

本机床是专为量产汽车EPS蜗杆与减速机  
小型蜗杆而开发的高精度、高效率蜗杆磨床。

SWG-200N is a specially designed grinder  
for worms, above all for EPS worms.  
A complete flow from wheel truing and dressing  
to grinding is conducted in the shortest cycle time.  
Interfaces for changeover of jobs,  
changing of grinding cycles and conditions are built in.



## GSM-12N 插齿机 GSM-12N GEAR SHAPER

极为紧凑且高精度的高速插齿机。  
共计近400台的实际业绩，所具备的优越的  
操作性、信赖性、精度可以切实地满足客户的要求。

GSM-12N gear shaper is the most popular machine among our current gear technology machinery lineup. The design concept of this model is high performance with less footprints and operation friendliness in gear cutting production line for automotive industry. Design reviews carried out in the last decades have significantly improved its performance in high accuracy and reliability. Thus, close to 400 units were delivered to automotive, motorcycle and robotic industries in Japan and overseas markets.



## GSM-25N型 插齿机 GSM-25N GEAR SHAPER

紧凑、高性能、操作方便的高效插齿机。  
保持了现有机型 (GSM-12N) 在多年实际业绩和  
经验的基础上不断开发而形成的优点的同时，  
全面提升了设备的刚性、速度、便利性。

GSM-25N is new, compact, operator friendly and high productive CNC gear shaper. It also offers higher rigidity, higher accuracy and higher reliability than the preceding and long established model GSM-12N.



## GS-200N型 插齿机 GS-200N GEAR SHAPER

操作极为便利，工件装卸方便的中型插齿机。  
广泛应用于工程机械以及工业产业中的减速机齿轮加工。

GS-200N gear shaper is a long standing model widely used in job shops for construction vehicle gears and for variety of gears used in other industries. Superior rigidity, operation friendliness, high efficiency and long service life have achieved close to 300 units delivery.

## GS-70N 插齿机 GS-70N GEAR SHAPER

应众多正在使用GS-200N型号插齿机用户的心声而开发的更高效率、更高精度，并且配备刀库的升级机型。

GS-70N has been marketed recently complying with the demand for higher performance for similar applications with GS-200N.

ATC is available as an option.



## 刮齿机 GEAR SKIVING MACHINE

型号 MODEL				GSV-25N		GSV-45N	GSV-60N
				单电机 Single motor head	双电机 Twin motor head		
工作台直径	Diameter of work table	mm	250		450	700(800)	
工件最大模数	Max. module	m	4		6	8	
主电机 (连续额定)	刀具	Main motor (Continuous rating)	Cutter	22	18.5×2	31	30
	工作台		Table	15		9.5×2	9.5×2

## 插齿机 GEAR SHAPER

型号 MODEL			GSM-12N	GSM-25N	GS-200N	GS-70N	GS-80N
工作台直径	Diameter of work table	mm	250	250	750	700	800
工件最大模数	Max. module	m	4	4	6.5	6.5	10
主电机(连续额定)	Main motor(Continuous rating)	AC/kW	5.5	7.5	3.7	7.5	11

## 大型滚齿机 LARGE GEAR HOBBING MACHINE

型号 MODEL			GH-120N
工作台直径	Diameter of work table	mm	1200
工件最大模数	Max. module	m	25
主电机(连续额定)	Main motor(Continuous rating)	AC/kW	22

## 蜗杆磨床 WORM AND THREAD GRINDER

型号 MODEL			SWG-200N
顶尖中心距	Max. center distance	mm	200
工件最大外径	Max. dia. of worm gear	mm	25
工件最大模数	Max. module	m	3
主电机(连续额定)	Main motor(Continuous rating)	AC/kW	5.5

※产品介绍如有变更，恕不另行通知。

※Contents in this brochure are subject to modify without notice in case of machine improvement.

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