











Yunil Gear Machine Tech. Co.,LTD

GREETINGS

Thanks you for visiting YG Tech, Co., LTD

Since our inception in 1963, YUNIL MACHINE
has manufactured various kinds of machine tools,
specializing in gear machines.

Of this, the GEAR HOBBING MACHINE and the SLOTTING MACHINE have been the most favored product of our many customers; both domestic and overseas.

Based on 50 years of knowledge and experience, YUNIL has finally completed the HERA series C.N.C Hobbing machine.

This machine will satisfy our customers's demands for the highest quality product at the most affordable price.

Our staff aim to meet all of YUNIL's customer requirements whit a commitment to excellence and genuine service,

Wehank you in advance!









COMPANY HISTORY

1963, 03,	 YUNIL Ironworks Established Commenced manufacturing of Hobbing machines
1978, 10	• Developed the model:YNL-20 HOBBING MACHINE
1986, 05	• Developed the model: YNL-25 HOBEING MACHINE
1988, 11	• Developed the model: YNL-40 HOBBING MACHINE
1990. 03	• Developed the model: YS-250 A/M SLOTTING MACHINE
1991, 06	• Developed the model: YH-350W HOBBING MACHINE
2001, 11	• Developed the model: YS-250NC SLOTTING MACHINE
2004. 09	• Developed the model: HARA200/35C CNC HOBBING MACHINE
2005, 04	• Developed the model: YH-200W HO3BING MACHINE
2005, 05	• Completed development of the unmanned automatic system for all machine kinds
2009, 03	Developed the model: HARA-80 CNC HOBBING MACHINE
2009,03	\bullet Developed the $$ model: Ys=350NC SCOTTING MACHINE $$
2009,03	Developed the model: Ys-450NC SCOTTING MACHINE



6-AXIS CNC GEAR HOBBING MACHINE SUITABLE FOR SMALL PRODUCTION

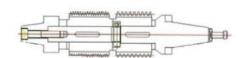
6-AXIS C.N.C GEAR HOBBING MACHINE

- Strong cutting capacity
- Easy to train how to operate this machine and operate it through a large 12—inch LCD screen and the program only for hobbing
- Control system (SINUMERIK 8400) with enough storage (256MB) and excellent control capacity
- Decrease in the time of entering data because it is easy to call gear data already saved
- Very easy to perform orientation by using the orientation return function of table spindle and hob spindle.
- Strong structure of keeping precision even if external impact or distortion occurs.



YUNIL Machine

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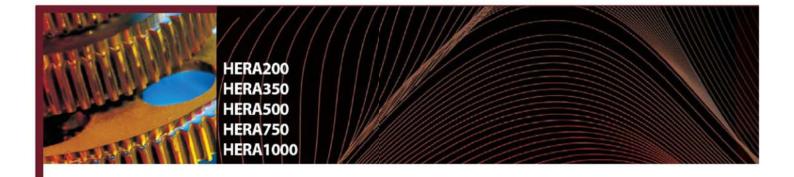
STANDARD UNIT SPECIFICATIONS

- 1, Hab arbor (arbor, sleeve, collar)
- 2. Coolant supply unit
- 3. Chip conveyor
- 4. Hydraulie tank (70L)
- 5. Automatic lubrication pump (Intermittent lub tank (4L))
- 6. Entire cover (Full splash guard)
- 7, C.N. C controller (SINUMERIK 840D, SIEMENS)
- 8. Work light
- 9. Leveling kits
- 10. Fasic tools (Standard tools & box)

OPTIONAL UNIT

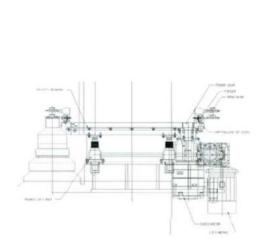
- 1. Auto tool lock device (Auto draw bar cttachment)
- 2. Auto door
- 3. Dust collector (Oil mist collector)
- 4. Magnetic chip conveyor
- 5. Deburring device
- 6. Hydraulic automatic clamping device
- 7. Automatic supply unit
- 8. Lcader (stocker)
- 9. Work rest (Steady rest for shaft)
- 10. Tool setting device
- 11. Coolant washing unit
- 12. Dry cutting attachment
- 13. Protective device for hob during power failure (X-axis retract at power failure)
- 14. Spindle orientation function (B-axis, C-axis)
- 15. Control panel dehumidifier and cooler (air-conditioner)
- 16. External counter (work, tool, check)
- 17. Jig & fixture





STRONG CONTROLLER

- Precision controller
- Easy to operate due to its interactive program (HMI)
- A variety Loading/Unloading System.
- Capable of responding to all the artifacts of Jig & Fixture provides abundant.

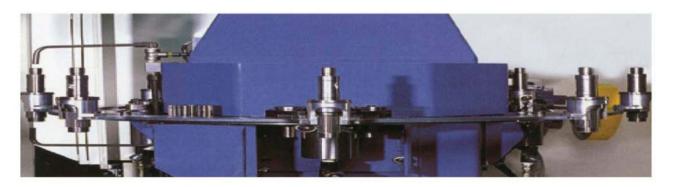












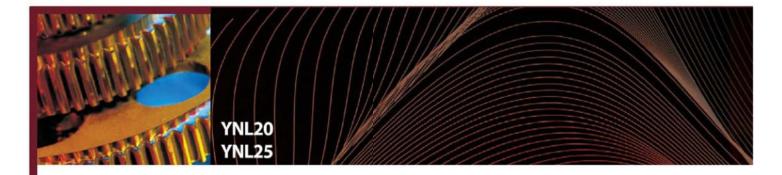




SPECIFICATION

Descriptions	HERA 200	HERA 350	HERA 500
Maximum workpiece diameter	200mm	350mm	500mm
Maximum module	M4	M6	N8(10)
Maximum axial travel	250mm	350mm	400mm
Workhead spindle speed range	5-300rpm	5-300rpm	3-240rpm
Min./mox, hob diameter	ø 120	ø 150	9 180
Min;/Max/hob length, toothed	180mm	180mm	280mm
Maximum hob shift travel	180mm	180mm	200mm
Total swivel range	± 45°	±45°	±45/-30
Hob speed range	50-1000rpm	50-1000rpm	10-600rpm
Hob spindle power	29Nm	39Nm	Ac 18kw
Floor space	2700×3000×2700	2700 x3100 x 2800	3050x3800x2800
Net weight	9,500kg	10,500kg	13000kg

Descriptions	HERA 750	HERA1000
Maximum workpiece diameter	750mm	1,000mm
Maximum module	MI2	MI2(MI6)
Maximum axial travel	550mm	65Omm
Workhood spindle speed range	3-40rpm	3-40rpm
Min,/max. hob diameter	ø 200	ø200
Min,/Max/hob length, toothed	250mm	250mm
Maximum hob shift travel	220mm	220mm
Total swivel range	+35-30	+35-30
Hob speed range	30-300rpm	25-250rpm
Hob spindle power	Ac22kw	Ac3Olow
Floor space	3600×4200×3400	3800×4500×3600
Net weight	17,000kg	18,500kg



YNL SERIES - YNL20, YNL25 AUTO CYCLE GEAR HOBBING MACHINE

FEATURES

- Slide part of any high-frequency heat treatment (HRS 68-72) and then treated polishing.
- 2. Made the production even in fully automatic hydraulic operation suitable.
- 3. Control Box is connected to circuitry inside the PC is almost no failure rate, semi-eligibility.
- 4. Hydraulic tank, hydraulic significance was maximum life of semi-permanent candidate.
- 5. Internal Gear minimize the noise Gringding hwahayeo integrity and durability are very excellent.
- 6. Suitable for powerful cutting machine with a stable weight.

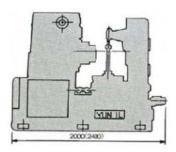
STANDARD Acc'ys

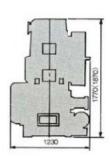
1. Electrical equipment	lset
2. Coolant supply system	lunit
3. Replacement gear(feed, index)	lset
4. Accessory tools & box	lset
5. Hob arbors (22,225/25,4/31,75mm)	lset
6. Works arbors	lpcs
7 Hyd support lift	Iset

OPTIONAL Acc'ys

- 1. Chip conveyor attachment
- 2. Two-cut cycle attachment
- 3. Hydraulic crowning attachment(pending)
- 4. Counter system
- *Specification listed in this catalog may be changed without notice



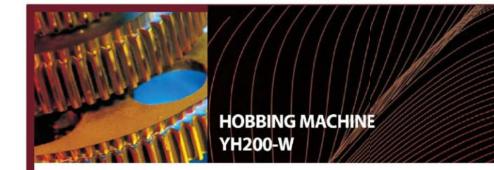




YNL-20/25 SERIES HOBBING MACHINE SPECIFICATION

Technical Data	YNL-20	YNL-25
MAX, HOBBING CAPACITY(WITHOUT SUPPORT)	660mm	9)Omm
MAX, HOBBING CAPACITY(WITHOUT SUPPORT)	52Umm	800mm
MAX. HOBBING CAPACITY OF MODULE	M8(DP3)	MI0(DP2,5)
MAX, TRAVEL OF HOB SADELE	360mm	450mm
MAX, TAPER CUTTING ANGLE	45°	45°
DIAMETER OF TABLE	530mm	57Omm
MAX, DIAMETER OF HOB	120mm	13Omm
MAX, LENGTH OF HOB	130mm	I(Omm
HOB SPEED	68~220RPM	42~134RPM
MAIN SPINDLE TAPER	MT 4	MT4
MAIN MOTOR	3,75KW ×4P	3,75KW ×6P
OUT SIDE DIMENSOIN	3,300×2,200×1,850mm	3,300×2,200×1,900mm
WEIGHT	5,000kg	6,5000kg





With precision and durability guaranteed for a long time through a modern design and a high-tech manufacturing system, the YH-200-W is the fruit of our efforts of having manufactured various kinds of hobbing machines for over 45 years.

FEATURES

- Our Hobbing machine obtains a high-precision and high-speed cutting capacity by utilizing a strong main body,
- The YH2OO-W has an anti-dust and anti-abrasion table with a long-time fixation rate and high-speed rotation.
- 3. The spindle has adopted a strong roller bearing structure with a high fixation rate and a great strength. In addition, as there is no thermal deformation or abrasion even under high-speed and powerful cutting, the YH2OO-W does not need readjusting and is available for high-precision gear processing. The control of the spindle speed follows the CVT (Continuously Variable Transmission) system and can be set to the optimal cutting speed. (The RPM can be set separately for double cutting.)
- 4. Various functions such as jumping, double cutting, automatic cycling of the worm gear, automatic loading, unloading and crowning of processed goods, and an automatic door provide for an optimal automatic production line along with PLC control functionality.







Maximum	Hobbing Capacity	200 _m		
Maximum Hobbing Capacity of Module Maximum Travel of Hob Saddle Distance between Hob Center and Work Cent Toble Diameter (Face)		M 6		
		400 _{be}		
		nr 150∼35Q na 20Q na		
Maximum	Hob Diameter Length	150 × 180 m		
Maximum	Travel of Hob Shifting	80 _{mm}		
Variable I	fob R.P.M	60~500 RPM		
Feed	Low	0.64~4.22		
	High	0,93~6,15		
Motor	Moin	5,5 NW (4P)		
	Ropid	1.5 KW (4P)		
	Coolant (Cut)	250 W		
	Coolant (Washing)	250 W		
	Lubricant (Machine)	0.4W (4P)		
	Lubricum (Slide)	26 W		
	Hob Shift	60 W		
	Hydroulic Pump	1.5 NW (4P)		
Installatio	n Area (W _X L _X H)	Max, 2065 (W)x3485 (L)x2080 (H		
GROSS V	ÆGHT	APPROX 6000Kg		



TECHNICAL ENVIRONMENT

- 1. The repeated precision of cutting depth is held perfect through the servo motor.
- 2. Fine adjustments are available by using an M.P.G. (adjustable down to 0.002mm).
- 3. Using bearings around the head spindle and the table spindle has made it possible to have high resistance to thermal deformation and abrasion even under high-speed rotation,
- 4. A forced circular oil cooling system was adopted to keep a high fixation rate,
- 5. The full splash guided system keeps cutting oil from being scattered, and the oil mist collector helps to prevent environmental pollution.
- 6. The pileup of chips was mirimized by installing the washing line separately.
- 7. The CVT (Continuously Variable Transmission) of the Hob rotation speed is made possible by an I.G.B.T inverter. (Optional)

STANDARD PARTS

Hob arbor (Collar, Sleeve, Nut) ---- 1 set Change gear ---- 1 set Accessory tools & box ---- 1 set

OPTIONAL PARTS

Hydraulic jig & fixture Chip conveyor Crowning attachment Automatic door (Air) Automatic hob shift equipment Worm gear cutting equipment Oil cooling system Hob spindle variable speed Full splash guard Auto loading / unloading system Work stocker



YS-250NC(M), YS-300NC **HEAVY DUTY PRECISION SLOTTING MACHINE**

FEATURES

■ A tapering process is possible within 10° by adjusting Ram.

■ All the slide ways are treated with high-requency heating and grinding to guarantee durability.

■ Semi-permanent durability is guaranteed because of the use of the highest quality components including oilless, special bearings, and finely grinded gears.

precision processing



YS-250NC(M) /350NC/400NC/300NC SLOTTING MACHINE SPECIFICATION

Descriptions	YS-25ONC(M)	YS-300NC	YS-350NC	YS-45CNC
MAXIMUM STROKE	250mm	OOmm	350mm	450mm
TILING OF RAM	0~10°	O~10°	0~10°	0~10 *
VERTICAL ADJUSTMENT OF RAM	260mm	230mm	300mm	370mm
RAM GUIDE TO TABLE SURFACE	415mm	500mm	550mm	600mm
RANGE OF STROKE SPEED	21~93SPM	Incarborized temenistics	Unoutherized termination	Unauthorized transmission
DIAMETER OF TABLE	460mm	Ø 530	Ø 580	φ 580mm
LONGITUDINAL TRAVERSE	440mm	440mm	600mm	600mm
CROSS TRAVERSE	360mm	360mm	650mm	650mm
MAX, TOOL POST TO COLUNN	500mm	i70mm	850mm	900mm
TOOL POST FACE TO COLUMN	450mm	450mm	630mm	650mm
TABLE CENTER TO COLUMN	295~735mm	295~735mm	350~1,000mm	350~1200mm
MAIN MOTOR	2,2Kw(3HP)	5Kw Servo Motor	Servo Motor	Servo Motor
MAX, TOOL SHANK SIZE	40mm	4 40mm	∅ 60mm	Ø 60mm
FLOOR SPACE	1,205 x 2,165mm	1,360 x 2,200mm	1,360 x 2,200mm	1,360 x 2,200mm
About Net Weight	2,500kg	1,000kg	6,000kg	6,500kg



