

YUNIL CNC Gear Hobbing Machine

HERA 500/750



MACHINE FEATURES

HIGH ACCURACY

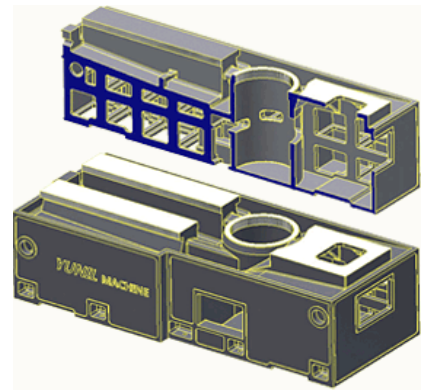
- Super precision bearing on B, C-Axis spindle
- Permanent auto backlash eliminator on B-Axis
- Big diameter super precision master gear on C-Axis

TOTAL FLEXIBILITY

- Easy learn, and operating the machine with gear MACRO program(HMI)
- Gear MACRO program will reduce cycle time and piece cost

RIGIDITY ON STRUCTURE

- 3~4 Solid length wide walls
- 250mm wide of bed slide way
- Strong bridge with bed slide way and table area
- Dia. Ø80mm ball screw on Z-Axis



REMARKABLE DURABILITY

- Auto backlash eliminator device on B-Axis gear train
- Direct connected table spindle with high torque built-in motor (2,860Nm)
- Powerful clamping device on all of slide way
- Various kinds of self check instruments on Lub, Hyd, Air Line

SAFETY DEVICE AND SELF CHECK OPERATING FUNCTION

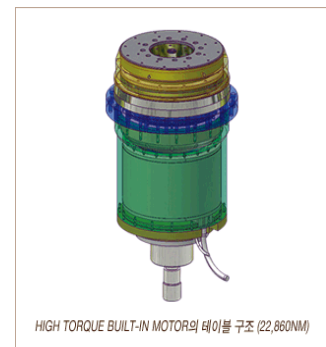
- Various kinds of double filtering, Pressure switch auto check switch, Quantity control switch, Leveling switch on lubrication, hydraulic, intermittent, lubrication, coolant and air unit

TABLE OF HIGH TORQUE BUILT-IN MOTOR (24.5KW)

- High torque built-in motor with precision rotary encoder on C-Axis (22,860NM)

SOFTWARE OF VARIOUS FUNCTIONS

- Function centrifugation
- Tapered and various kinds of crowing cutting function
- Orientation function
- Synchronous with B, C, Z and Y-Axis (4-Axis)
- Multiple gear cutting with over 2 hobs



- Jump function on broken tooth
- Auto hob shift limit

STANDARD ACCESSORY

1. Hob Arbor (Arbor, Sleeve, Collar, Nut)
: 2 Set (Ø32, Ø40)
2. Coolant Supply Unit
3. Coolant Washing Unit
4. Hyd. Tank
5. Automatic Lubricating Pump (Intermittent Lub. Tank)
6. Full Splash Guard
7. X-Axis Retract at Power Failure
8. LED Work Light
9. Air-Conditioner
10. Leveling Kits
11. Standard Tools & Box
12. Operating Manual

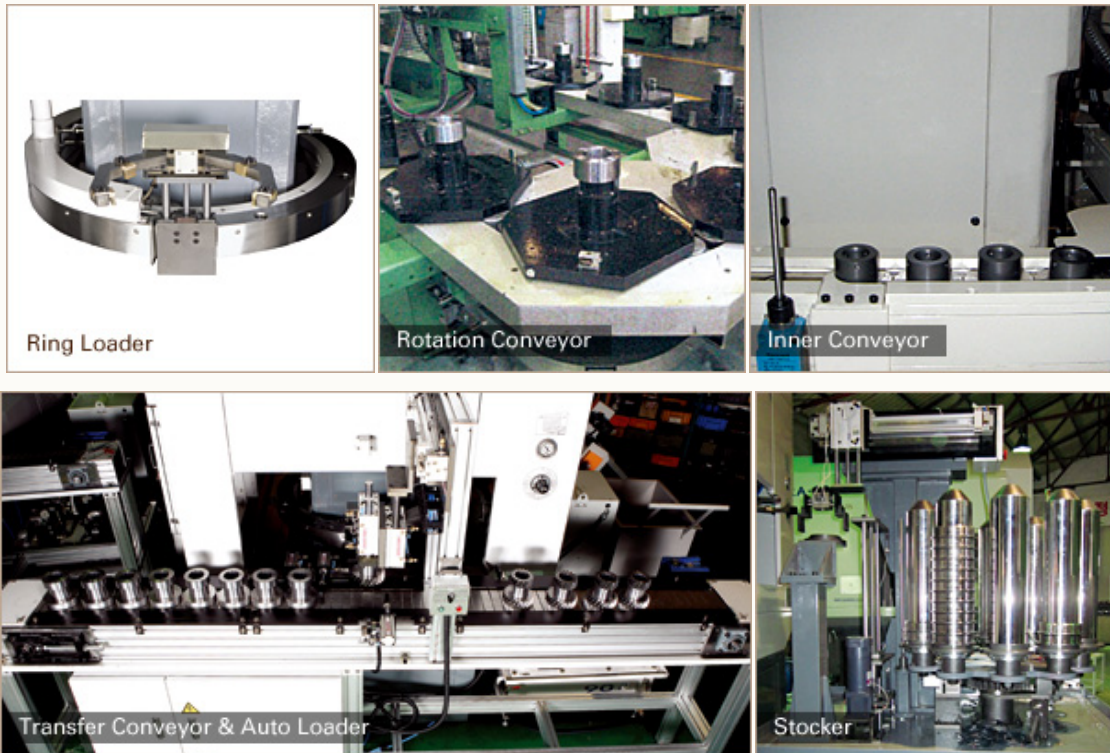
OPTIONAL ACCESSORY

1. Auto-Door (Air)
2. Steady Rest
3. Deburring Attachment
4. Oil mist Collector
5. Tool Presetter
6. Magnetic Chip Conveyor
7. Auto Drawbar Device
8. Opened Center
9. Tangential Cutting Device
10. Oil Chiller for Coolant Tank
11. Jig & Fixture
12. Auto Loading / Unloading Attachment
13. Transformer (120kva)

OPTIONAL ACCESSORIES (PHOTO)



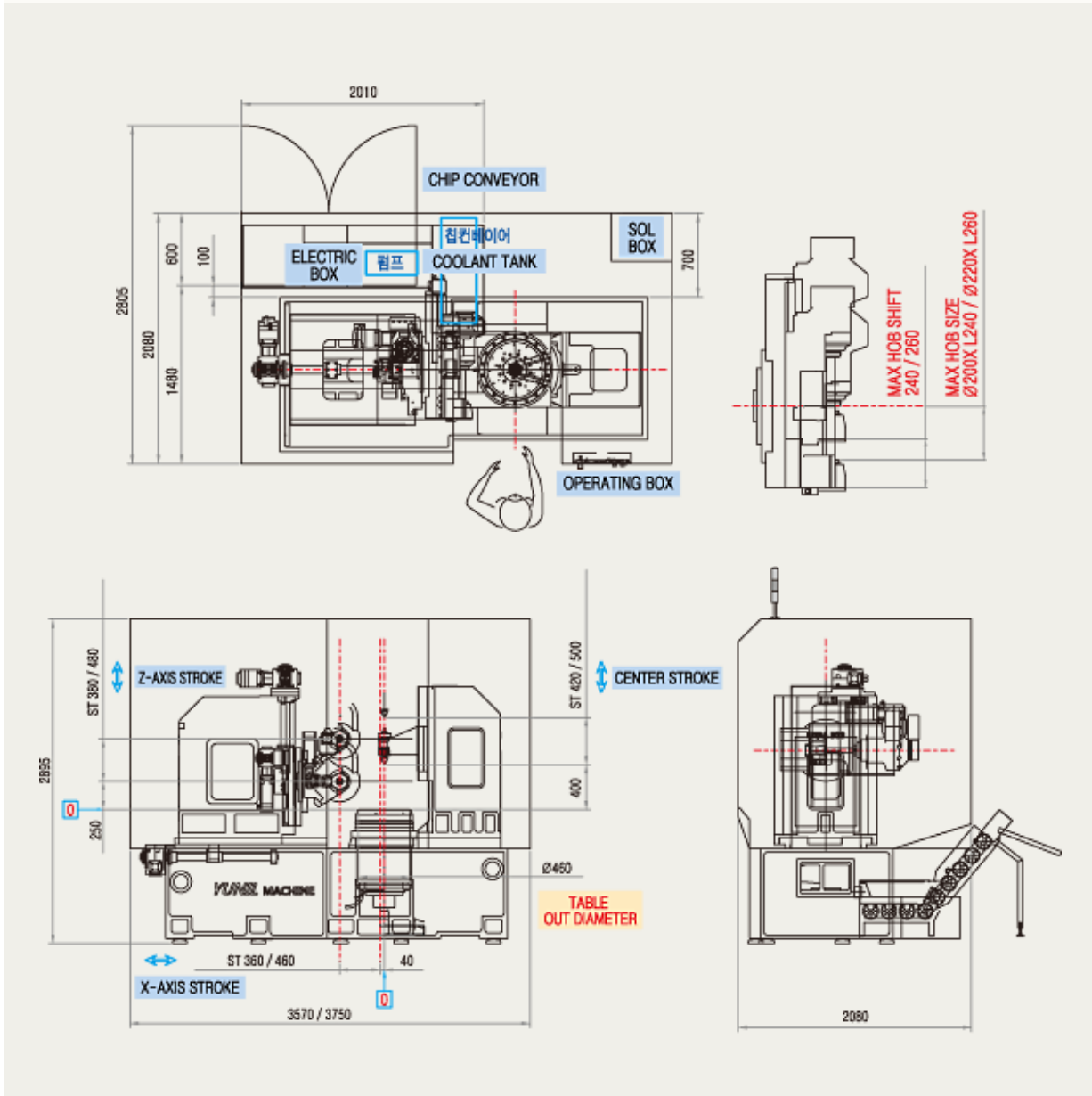
AUTOMATION SAMPLE



SPECIFICATIONS

Machine capacity	Unit	HERA 500	HERA 750
Max. workpiece dia	mm	500	750
Max. pitch		module 12	module 14
Radial. travel (X-axis)		360 (40~400)	460 (40~500)
Hob spindle angle (A-axis)		+35° / -45°	+35° / -45°
Max. helix rpm (B-axis)	rpm	20~500	20~350
Table max. rpm (C-axis)	rpm	110	110
Working range			
Vertical work range (Z-axis)		380 (250~630)	480 (250~730)
Center stroke range		420 (400~820)	500 (400~900)
Table diameter		Ø450	Ø650
Hob			
Taper of spindle nose		NT #50	NT #50
Max. hob size (Dia×L)		Ø220×Ø260	Ø220×Ø280
Max. hob shift travel (Y-axis)		240	260
Rapid / Feed speed			
Axial rapid (Z-axis)	mm/min	5,000	5,000
Radial rapid (X-axis)	mm/min	50,000	50,000
Max. hob shift travel (Y-axis)	mm/min	2,000	2,000
Hob head swiveling	deg/min	720	720
Motor			
Total power	kVA	90	90
Main spindle motor	Nm	39 (24.5kw)	39 (24.5kw)
Control system		SIEMENS 840Di	SIEMENS 840Di
Floor space	mm (W×L×H)	3,570×2,800×2,900	3,750×2,800×3,000
Weight (Approx)	ton	13.0	15.5

LAYOUT DIMENSION & WORKING RANGE



Range	HERA 500	HERA 750
X-AXIS STROKE	360 (40~400)	460 (40~500)
Y-AXIS STROKE	240 (0~240)	260 (0~260)
Z-AXIS STROKE	380 (250~630)	480 (250~730)
CENTER STROKE	420 (400~820)	500 (400~900)