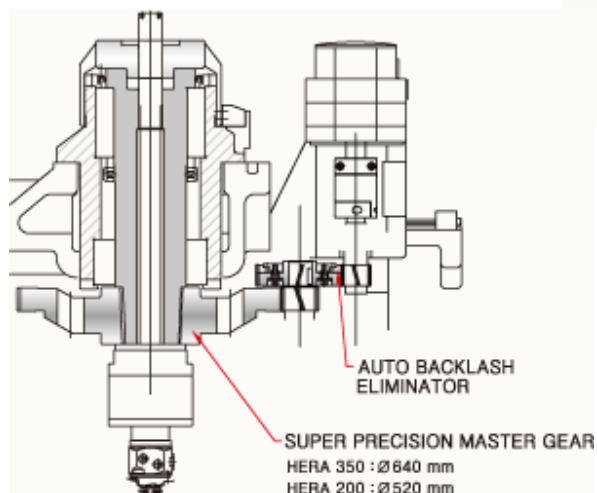


YUNIL CNC Gear Hobbing Machine

HERA 200/350



MACHINE FEATURES

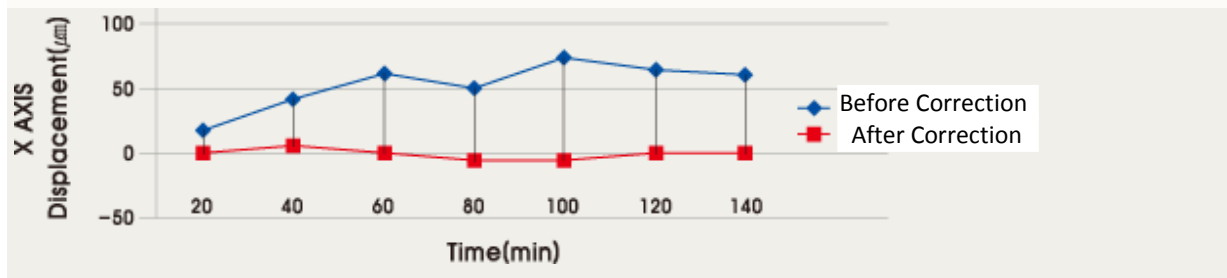
HIGH ACCURACY

- 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 per piece cost

THERMAL STABILITY BY X-AXIS DISPLACEMENT CORRECTION



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

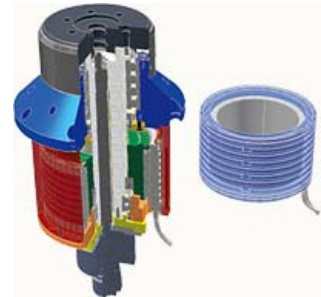
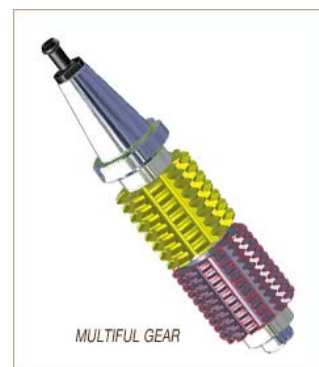


TABLE OF HIGH TORQUE BUILT-IN MOTOR (OPTION)

- High torque built-in motor with precision rotary encoder on C-Axis

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



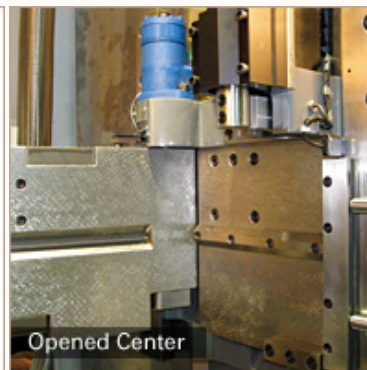
STANDARD ACCESSORY

1. Hob Arbor (Arbor, Sleeve, Collar, Nut)
: 2 Set (Ø27, Ø32)
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

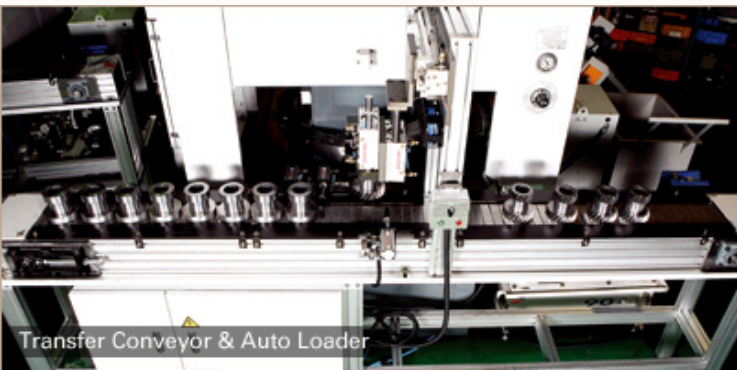
OPTIONAL ACCESSORY

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. Tangential Cutting Device
9. Oil Chiller for Coolant Tank
10. Jig & Fixture
11. Auto Loading / Unloading Attachment (Ring Loader Type)
12. Inner Conveyor Type
Auto Loading / Unloading Attachment
13. Stocker (Flange or Shaft Type)
14. Dry Cutting Device
 - Inner SUS Splash Guard
 - Vacuum Suction Unit
15. Transformer (50kva)

OPTIONAL ACCESSORIES (PHOTO)



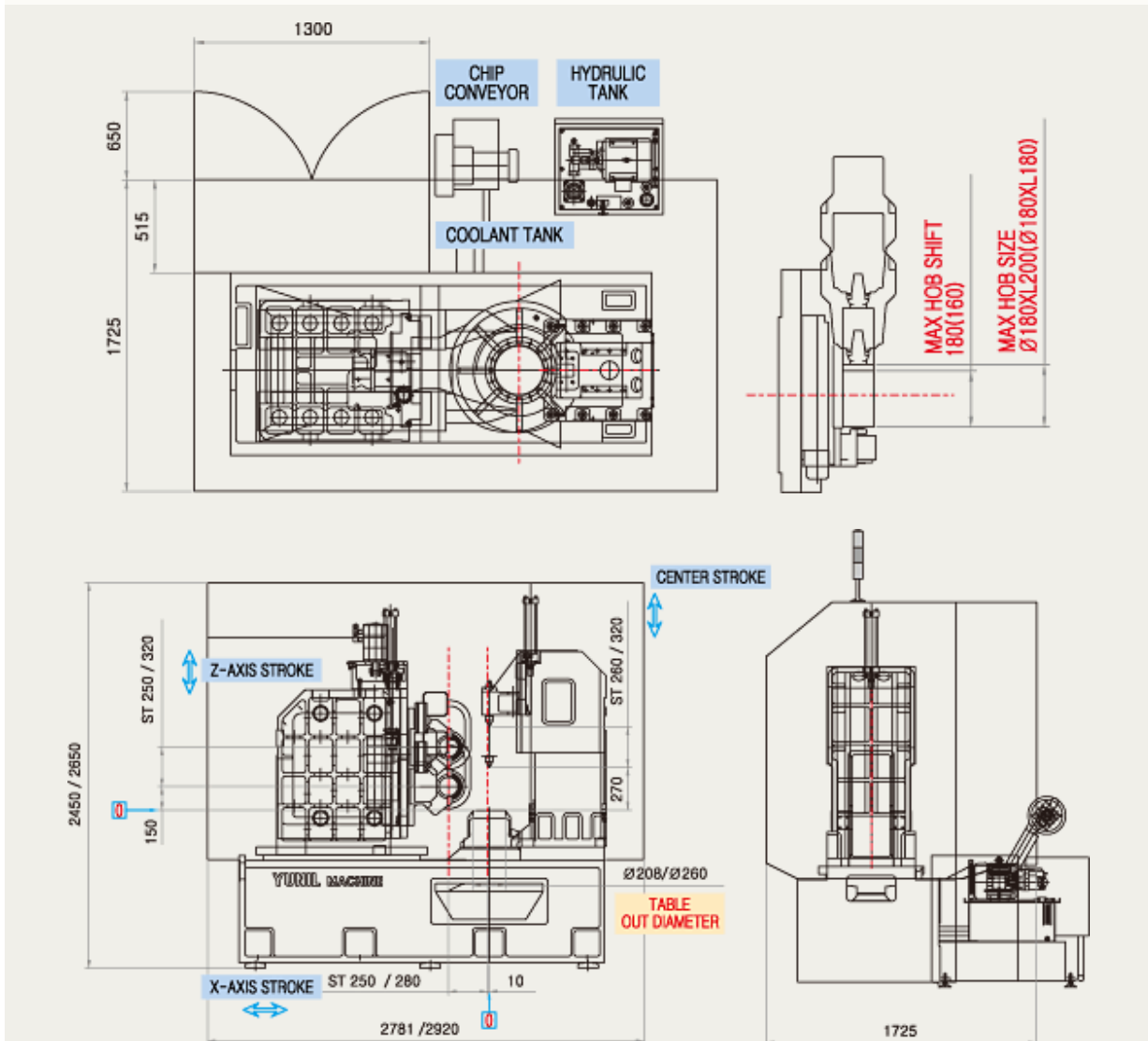
AUTOMATION SAMPLE



SPECIFICATIONS

Machine capacity	Unit	HERA 200	HERA 350
Max. workpiece dia.	mm	200	350
Max. pitch		module 4	module 6
Radial. travel (X-axis)		250 (10~260)	280 (20~300)
Hob spindle angle (A-axis)		±45°	±45°
Max. helix rpm (B-axis)	rpm	10~1,000/(10~2,000)	0~1,000
Table max. rpm (C-axis)	rpm	125	110
Working range			
Vertical work range (Z-axis)		250 (200~450)	320 (150~470)
Center stroke range		260 (270~530)	320 (280~600)
Table diameter		Ø200	Ø280
Hob			
Taper of spindle nose		NT #40	NT #40
Max. hob size (Dia×L)		Ø150×Ø180	Ø160×Ø200
Max. hob shift travel (Y-axis)		160	180
Rapid / Feed speed			
Axial rapid (Z-axis)	mm/min	10,000	10,000
Radial rapid (X-axis)	mm/min	12,000	10,000
Max. hob shift travel (Y-axis)	mm/min	1,500	1,500
Hob head swiveling	deg/min	720	720
Motor			
Total power	kVA	30	35
Main spindle motor	Nm	29	39 (24.5kw)
Control system		SIEMENS 840Di	SIEMENS 840Di
Floor space	mm (W×L×H)	2,780×2,375×2,450	2,920×2,375×2,650
Weight (Approx)	ton	9.0	9.8

LAYOUT DIMENSION & WORKING RANGE



Range	HERA 200	HERA 350
X-AXIS STROKE	ST250 : 10~260	ST280 : 20~300
Y-AXIS STROKE	ST160 : 0~160	ST180 : 0~180
Z-AXIS STROKE	ST250 : 200~450	ST320 : 150~470
CENTER STROKE	ST260 : 270~530	ST320 : 280~600