

# CNC GEAR HOBGING MACHINE

## HERA-150

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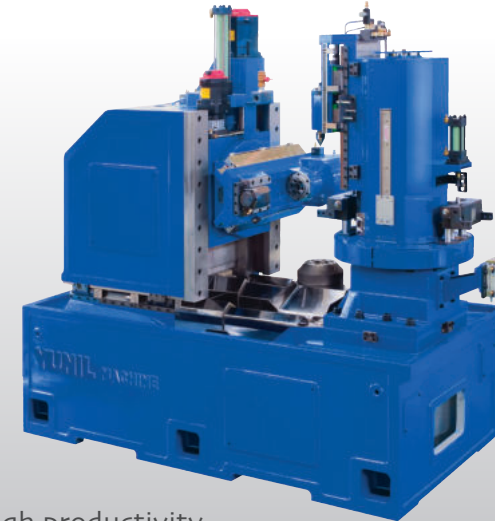
## CNC GEAR HOBGING MACHINE



Implementation of Smart Factory with  
Industrie 4.0 applied IoT technology to HERA series !

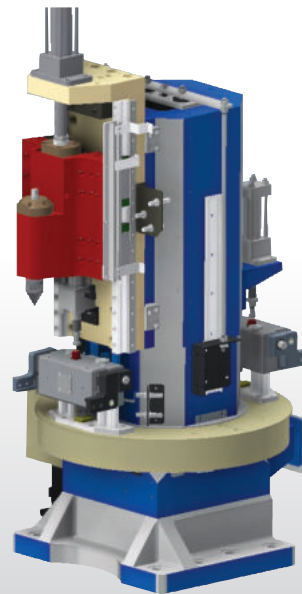
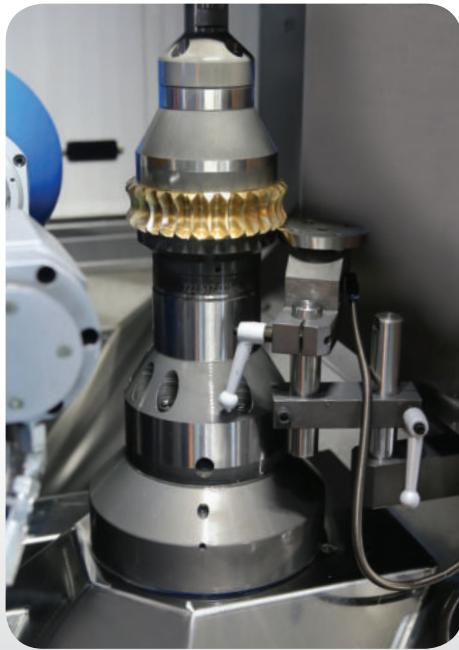
### The Most Optimized *Dry Cutting* Technology

- B and C axis with Direct Drive Motor
- Various Optional Accessories
  - Skiving Unit
  - Chamferring & Deburring Device

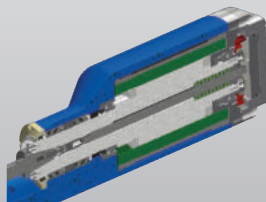


- High productivity
- Outstanding gear accuracy
- Easy and intelligent macro program
- Safe and easy operating

## HERA-150

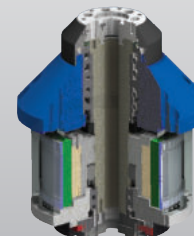


- Strong Column & Count Column Structure including Optimized Ring Loader (2 stations)



### B-Axis

- High-powered D/D Motor with accuracy Encoder
- Air Cooling for Dry Cutting



### C-Axis

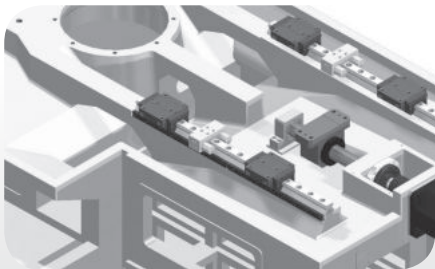
- High Torque D/D Motor
- Equipped with Rotary Encoder for precise dismantlement

# HERA-150

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- Set stainless steel as interior protection cover for both Dry Cutting and prevention of thermal deformation

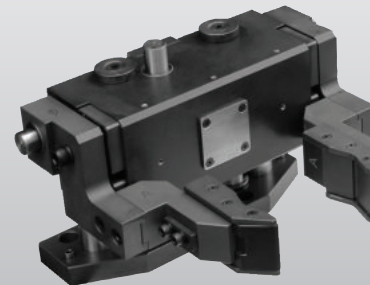


- Applied Roller Type L/M on P2-level
- X-axis repeated precision ( $\pm 0,001$ )
- Digital Scale at X/Z-Axis (option)



## **Chamferring Unit (option)**

- Chamferring and deburring Unit inside of machine



## **Gripper Unit**

- Swift torque (2sec)
- Semi-permanent Gripper Unit

## HERA-150 Automation System with Save your Gear Cutting Time



# HERA-150

## Standard Accessories

- Hob Arbor with Sleeve, Collar, Nut
- Coolant Supply Unit
- Hyd. Pump Unit with Fan Coller
- Intermittent Lub. Pump
- Full Splash Guard
- Chip Conveyor
- LED Work Light
- Air Conditioner on Electric Box
- Leveling Kits
- CNC Controller (SIEMENS or FANUC)
- Standard Tool & Box
- Operating Manual  
(Operating/Maintenance)

## Optional Accessories

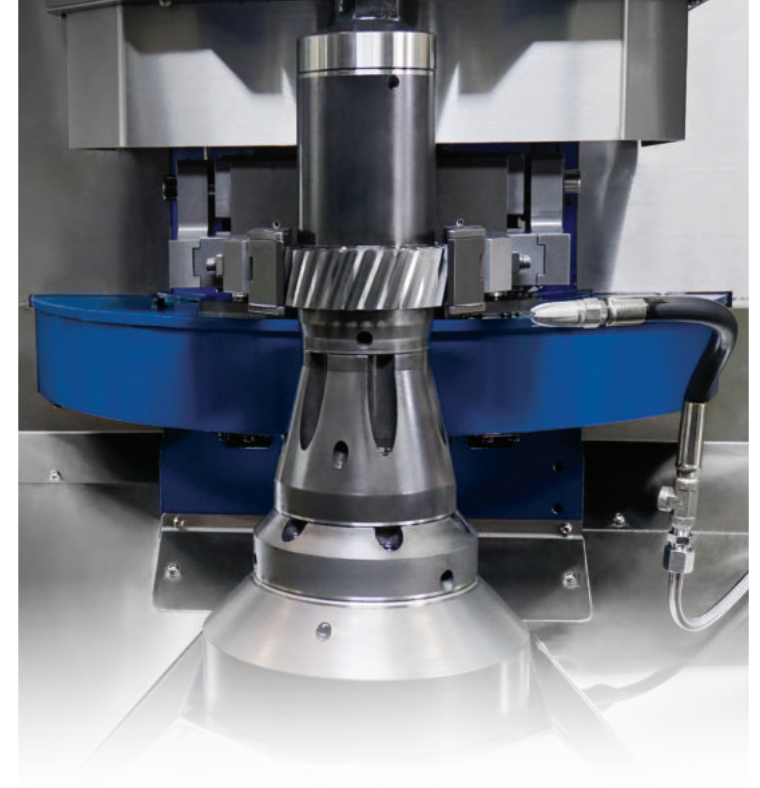
- Auto-Draw Bar Attachment
- Oil Mist Collector
- Chip Seperator (Magnetic)
- Tool Presetter
- Deburring Attachment
- Auto-Door (Air)
- Washing Line
- 3 Layer Lamp
- Jig & Fixture
- Auto-Loading/UnLoading System (Ring Loader)
- Conveyor & Stacker
- 2 years Service Contract (SIEMENS or FANUC)
- Skiving Unit
- Dry Cutting
- Various Kinds of N.C Software
- Robot System
- Steady Rest



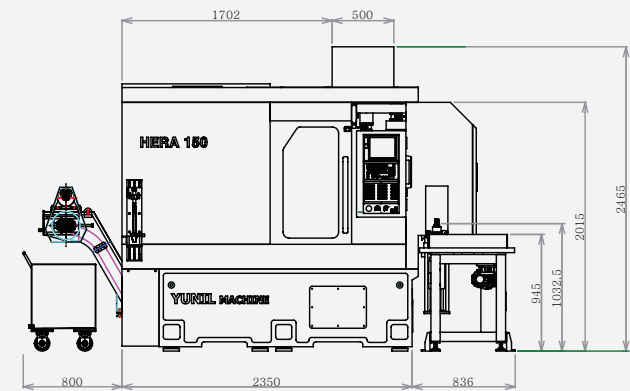
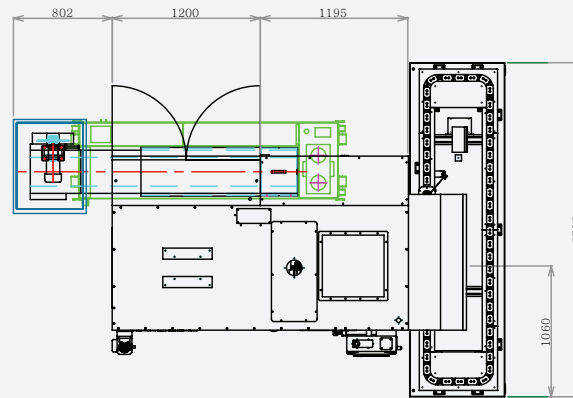
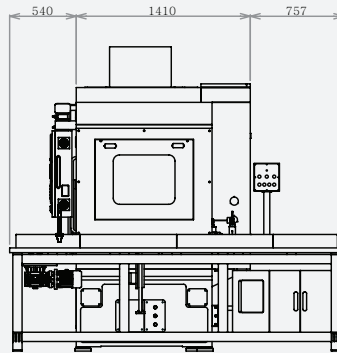


## Technical Data

Machine Capacity	최대기계사양	HERA 150
Max. workpiece dia	최대 가공물	Ø150mm
Max. pitch	최대 모듈	module 3.5
Radial travel (X-axis)	전후 이송 거리	180(15~195)mm
Max. helix angle (A-axis)	호브 회전 각도	±45°
Hob spindle rpm (B-axis)	B-축 회전수	2,500rpm
Table max. rpm (C-axis)	C-축 회전수	600rpm
Working range	작업 범위	
Z-axis work range	상하 이송 범위	250(150~400)mm
Center stroke range	센터 이송 범위	300(300~600)mm
Table diameter	테이블 직경	Ø150mm
Hob	공구	
Taper of spindle nose	주축 테이퍼	BT #40
Max. hob size (Dia x L)	호브 규격	Ø120mm X 200mm
Max. hob shift travel (Y-axis)	Y-축 이송량	180mm
Rapid / feed speed	이동속도	
Axial rapid (Z-axis)	상하 급이송 속도	12,000mm/min
Radial rapid (X-axis)	전후 급이송 속도	12,000mm/min
Hob shift travel (Y-axis)	공구 급이송 속도	6,000mm/min
Hob head swiveling	헬리칼 회전 속도	720deg/min
Motor	모터	
Total power	총 소요 전력	30KVA
Main spindle motor	주축 모터	12Kw (115 Nm)
Control system	컨트롤러	FANUC OiMF/SIEMENS 828D
Floor Space (L x W x H)	소요 면적	3,200 x 2,190 x 2,480
Weight (Approx.)	기계 총량	7.8ton



## Lay-out Drawing



## Work Range

HERA 150	RANGE
X-AXIS STROKE	ST180 (15~195)
Y-AXIS STROKE	ST180 (0~180)
Z-AXIS STROKE	ST250 (150~400)
CENTER STROKE	ST300 (300~600)

## Official Distributor

 **YG TECH Co., LTD.**  
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