



# CNC Internal Grinding Complex Machine EiG Series



Taichung  
SMEs  
Golden hand  
award



National  
brand  
Yushan  
Award



Excellent  
business  
pioneer  
and innovative



Innovative  
and  
customer  
satisfaction



Excellent  
manager



National  
excellent  
managing  
award



2018  
The Rising Star  
Award

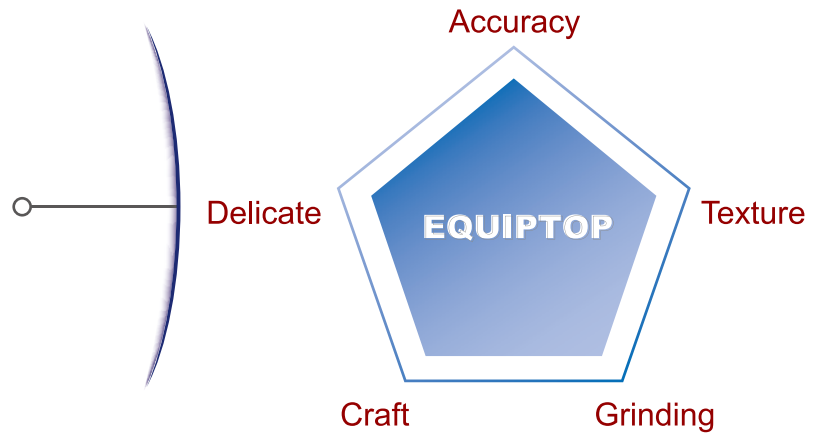
# EXCELLENT · FEATURES · PROVIDE · VALUE

- 1988 Established " EQUIPTOP MACHINERY CO., LTD" Made a speciality of developing high precision surface grinders.
- 1990 Developed ESG-618 & 818 ASD series, 3 axis fully automatic surface grinders.  
Used PC-CAD to upgrade mechanical design and development.
- 1992 Developed ESG-1228 & 1236 ASD series, 3 axis fully automatic surface grinders.
- 1993 Developed ESG-1632 & 1640 ASD series, 3 axis fully automatic surface grinders.
- 1995 Developed ESG-1020 & 1224 ASD series, 3 axis fully automatic surface grinders.  
Obtained CE-Mark certificate from AMTRI CE in England.
- 1997 Developed ESG-2448 to 2480, 3axis fully automatic, digital positioning ADX series, with a downfeed jog movement providing just 0.5\* $\mu$ m super microfeed for finer production finish.  
Column type surface grinder, using high anti-wear, heavy duty preloaded, H class linear guideway.
- 1998 Awarded ISO 9002 Certification by DNV company of Netherlands.
- 1999 Invested in "NANJING EQUIPTOP PRECISION MACHINERY CO., LTD." as branch in China.
- 2000 Developed ESG-3260 to 32120, 3axis fully automatic, smart digital positioning ADX series Received certified CE-MARK by DN company.
- 2001 Awarded Certified ISO 9000 by Bell company. Developed NC series, 3 axis fully automatic smart digital positioning grinders.
- 2002 Grand Opening of a new factory. The new facility is over 13,000m<sup>2</sup>. Invested 1.6 hundred million dollars in this new headquarte  
Successfully developed new complex grinders, moving EQUIPTOP into the high technology area.  
Renamed the company as "EQUIPTOP HITECH CORP."
- 2003 Awarded publication 2000 ISO 9001 certification. Developed " ASD\* " series, 3 axis, fully automatic digital positioning grinders.  
Developed " ACUMEM " super microfeed servo control and auto-wheel dressing & compensation system grinders.
- 2004 Established the branch in Wu Hsi-Shuai Hung Precision Machinery LTD. to expand China market.  
Developed cantilever type ESG-6120~8300 ASD\*series, 3 axis, fully automatic surface grinders.
- 2005 Obtained the prize of Taiwan Precision Product in manufacturing NC surface profile grinder.
- 2006 Developed ETM510APC tapping machine with auto pallet changer system & Double column grinding machine, table size 1500x3000 ~1500x5000 are available.
- 2008 Double column grinding machine, table size 1500x3000~1500x5000 are available.
- 2010 Upgrade ASD\* series to TD type. PLC control & touch color screen.
- 2012 Double column type grinding machine, table size 1200x3000~1200x5000 are available. Developed ESG-2448 to 24120, 3axis automatic TD type with touch color screen.
- 2013 Execute rotary & square constitute, hydrostatic spindle and guide rail program. Presented EMV-600APC auto pallet change, and 800x2000~5000mm, 1000x2000~5000mm double column grinders.
- 2016 Developed and officially listed ECG-CNC Cylindrical Grinder series. Innovation patented invention:  
1. Innovation surface grinding machine controller: Patent No.:1546161  
2. Innovation equal feeding speed control: Patent No.:M454893  
3. Innovation rotary & square constitute design: Patent No.:1508818 & M454892  
4. Innovation multi-sound alarm light structure: Patent No.: M486838  
2016 Create 1224-TD Plus Man-machine PLC controller.  
Publish ECG-27 / ECG-36 CNC Cylindrical grinding machine with man-machine controller.  
Develop ERG-600 ERG-800 ERG-1000 CNC/PLC controller application.
- 2017 Presented at TIMTOS, March 2017, 1224-TD Plus, EG-36 CNC and ERG-600CNC, with man- machine controller.  
The operation and application showed In an Industrial 4.0 demonstration line.  
Wining with honor: D&B TOP 1000 SMEs Elite Award  
The 14th National brand: Remarkable enterprise Yushan Award.  
Taichung city the 16th excellent SMEs Golden hand award.  
Republic of China prominent enterprise management association, the 18th golden peak award:  
Top 10 excellent business pioneer model.  
Republic of China prominent enterprise management association, the 18th golden peak award:  
Top 10 remarkable innovative research and development
- 2018 Golden torch prize: TD, ADC get Research and Innovation Award.  
Golden torch prize: TD, ADC have the honor to win best satisfaction from customer.



# Excellent perform for Accuracy and Texture

Excellent Grinde  
and Top Craft



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# EiG-410SR

CNC Steady Rest Internal External  
Grinding Machine

Double Grinding Wheel Spindle Structure

Maximum Grinding Depth 410mm

Full Guarded Splash Guard

FANUC Controller

X/Z axis : 650/550 mm



The perfect combination of linear and box way

# EQUIPTOP



- X axis

Excellent & enlarge structure design with high accuracy and high rigidity Linear way.  
Totally three linear ways and equipped 9 blocks upgrade the stable and reliable.

- Z axis

Use one V & one flat box way design, equipped auto lube system, ensure the machine movement smooth and keep machine accuracy and long life.

- Spindle

Use A2-6 sleeve type high rigidity spindle.

- Air-floating slide table

It can be adjust the position of spindle head according size of work-piece, the adjustment degree of table is  $-5^{\circ} \sim +15^{\circ}$ !

- steady rest

Use the steady rest in accordance with customer work-piece size.

- Belt type grinding spindle

Use  $\varnothing 90\text{mm}$  belt type grinding spindle. It can change different type speed of grinding spindle in accordance with customer work-piece and driven by brushless servo motor

- Built-in type grinding spindle

Use  $\varnothing 160\text{mm}$  / 7.5kw built-in type grinding spindle. The maximum grinding wheel size is  $\varnothing 205\text{mm}$ .



## EiG-500L

CNC Internal External Grinding  
Complex Machine



3 set grinding wheel spindle and Turning tool module Structure

Maximum Grinding Depth 200mm

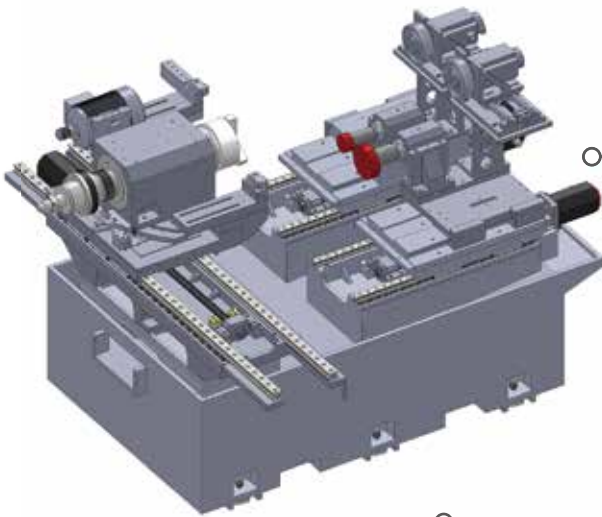
Full guarded Splash Guard

FANUC Controller

X / Y / Z axis : 750 / 320+200 / 320+200 mm

# New design without frames

## EiG-500L Type A

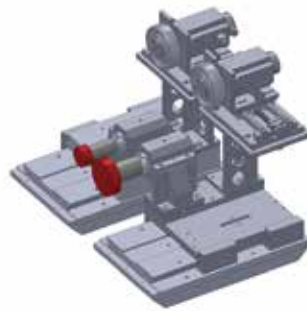
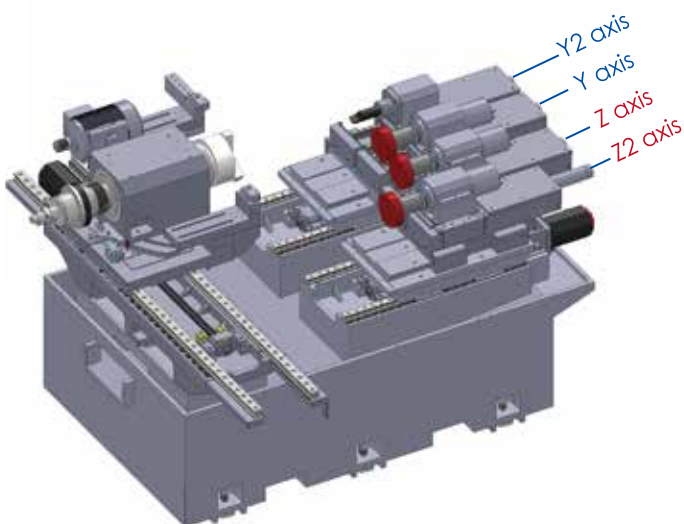


### Use A2-6 sleeve type high rigidity spindle.

Use high accuracy and high rigidity Linear way for X/Y/Z axis.

X axis travel stroke 750mm and equipped 6 blocks upgrade the stable and reliable.

## EiG-500L Type B



### Standard accessories

Belt type grinding spindle  
Use  $\varnothing 90$  mm belt type grinding spindle. It can change different type speed of grinding spindle in accordance with customer work-piece and driven by brushless servo motor. It can be low speed but get high torque and high efficient.

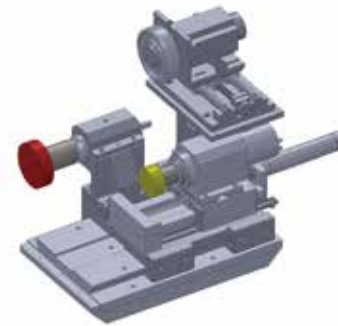
### Optional accessories

#### Y axis add with Turning tools

|                   |                     |
|-------------------|---------------------|
| Stroke            | 180 mm              |
| Diameter of tools | $\varnothing 40$ mm |
| Drive             | Hydraulic           |
| Guide way         | Linear way          |

#### Z axis add with End face grinding module

|               |             |
|---------------|-------------|
| Stroke        | 180 mm      |
| Spindle type  | Built-in    |
| Spindle speed | 10,000 rpm  |
| Power         | 3 kw        |
| Cooler        | Oil cooling |
| Drive         | Hydraulic   |
| Guide way     | Linear way  |



| Y axis Module | Y axis      | Y2 axis                               |
|---------------|-------------|---------------------------------------|
| Stroke        | 180 mm      | Stroke 180 mm                         |
| Spindle type  | Built-in    | Diameter of tools $\varnothing 40$ mm |
| Spindle speed | 30,000 rpm  | Drive Hydraulic                       |
| Power         | 3 kw        | Guide way Linear way                  |
| Cooler        | Oil cooling |                                       |
| Drive         | Hydraulic   |                                       |
| Guide way     | Linear way  |                                       |

| Z axis Module | Z axis      | Z2 axis     |
|---------------|-------------|-------------|
| Stroke        | 180 mm      | 180 mm      |
| Spindle type  | Built-in    | Built-in    |
| Spindle speed | 20,000 rpm  | 6,000 rpm   |
| Power         | 3 kw        | 6 kw        |
| Cooler        | Oil cooling | Oil cooling |
| Drive         | Hydraulic   | Hydraulic   |
| Guide way     | Linear way  | Linear way  |

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## EiG-450

CNC Internal External Tuming Grinding  
Complex Machine



Double Grinding Wheel Spindle Structure

Turning Tool Module Structure(optional)

Maximum Grinding Depth 200mm

Full Guarded Splash Guard

FANUC Controller

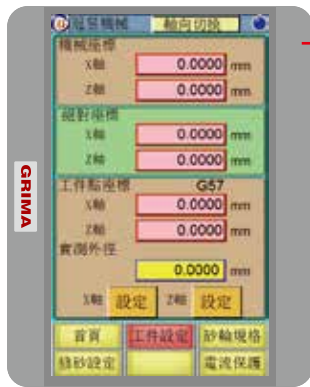
X / Y / Z axis : 390 / 350+200 / 350+200 mm



# New design without frames



FANUC Controller



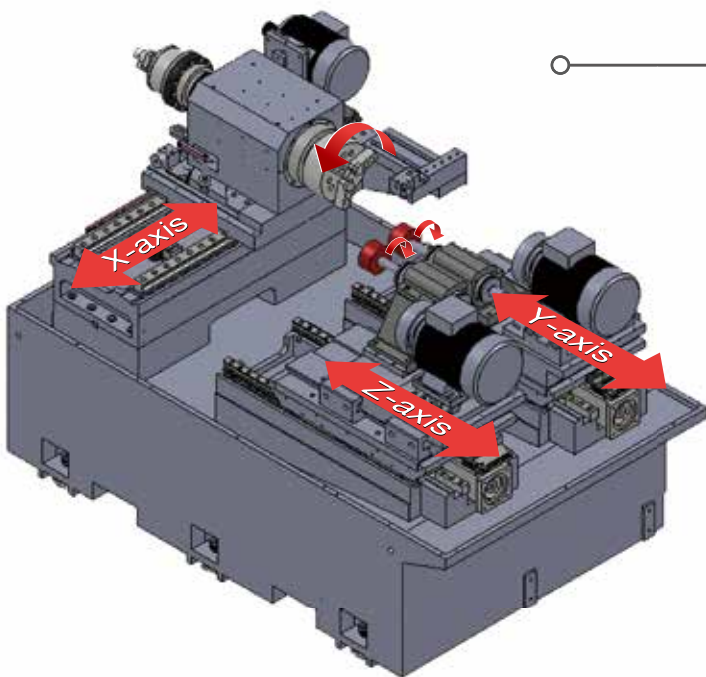
Color HMI Interface



Two Set Grinding Spindle



Grinding Spindle + Turing Tools Set



## BEST Optimized structural design, Stable & Rigidity.

- High precision Linear way and ball-screw for X / Z axis, high accuracy and high rigidity.
- High class Casting FC30, rein-forcing rib and structure, keep machine accuracy and reliability precision.
- Stronger rib and stable enlarged machine base, to keep excellence accuracy.
- Servo motor drive for X / Y / Z axis , Min. movement 0.001mm.

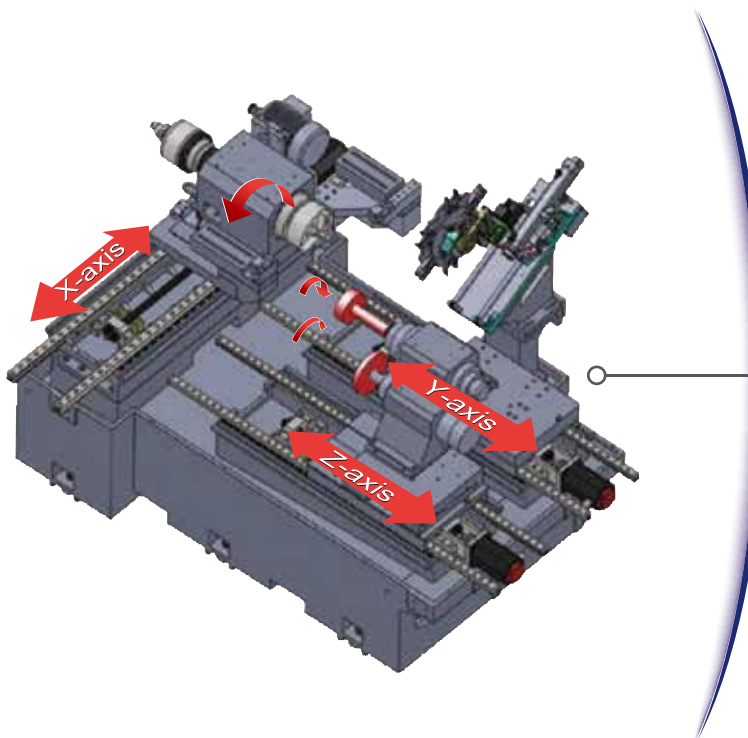
## **EiG-500ATC**

CNC Internal External Grinding  
Complex Machine

Internal / External Grinding Spindle  
Auto Change Grinding Wheel (ATC)  
Maximum Grinding Depth 250mm  
Full Guarded Splash Guard  
FANUC Controller  
X / Y / Z axis : 750 / 600 / 600+200 mm



# New design without frames



- **Work head**

Use A2-6 spindle with 8" 3 jaw hydraulic chuck.

- **Two set grinding spindle**

Y axis with ATC tool changer, Maximum of grinding wheel is  $\varnothing 150\text{mm}$ .

Z axis, Maximum of grinding wheel is  $\varnothing 205\text{mm}$ .

- **Double protection cover**

Use Bellows type protection cover with metal sheet type cover for the machines.

- **ATC – 6 pcs tools ATC**

Auto tools changer system.



Work Head



Double Protection Cover



ATC



Two Built-in High Speed Grinding Spindle

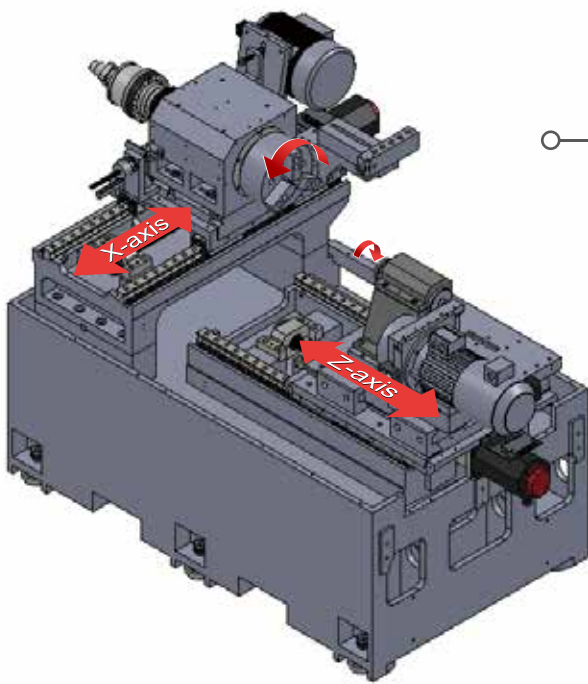
# EiG-150A

CNC Single Spindle Grinding Machine



Single Spindle Grinding structure  
Turning Tool Structure (optional)  
Maximum Grinding Depth 150mm  
Semi-Guarded Splash Guard  
FANUC Controller  
X / Z axis : 300 / 400+100 mm

# New design without frames

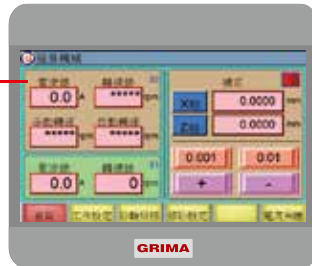


## BEST Optimized structural design, Stable & Rigidity.

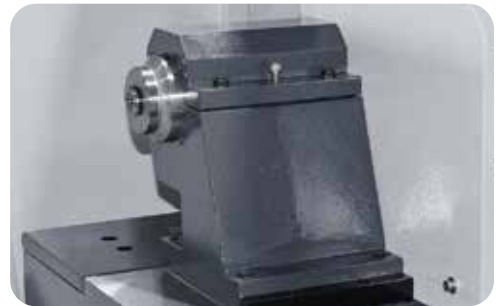
- High precision Linear way and ball-screw for X / Z axis, high accuracy and high rigidity.
- High class Casting FC30, rein-forcing rib and structure, keep machine accuracy and reliability precision.
- Stronger rib and stable enlarged machine base, to keep excellence accuracy.
- Servo motor drive for X / Z axis , Min. movement 0.001mm.



FANUC Controller



Color HMI interface



Grinding Spindle



Grinding Spindle + Turning Tool Set

## EiG-150B

CNC Inernal External End Face Grinding Complex Machine



Double Grinding Wheel Spindle Structure

End Grinding Structure

Maximum Grinding Depth 150mm

Full Guarded Splash Guard

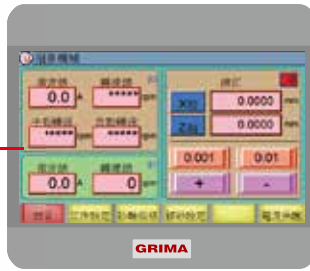
FANUC Controller

X/Z axis : 300/400±100 mm

# New design without frames



FANUC Controller



Man-machine interface

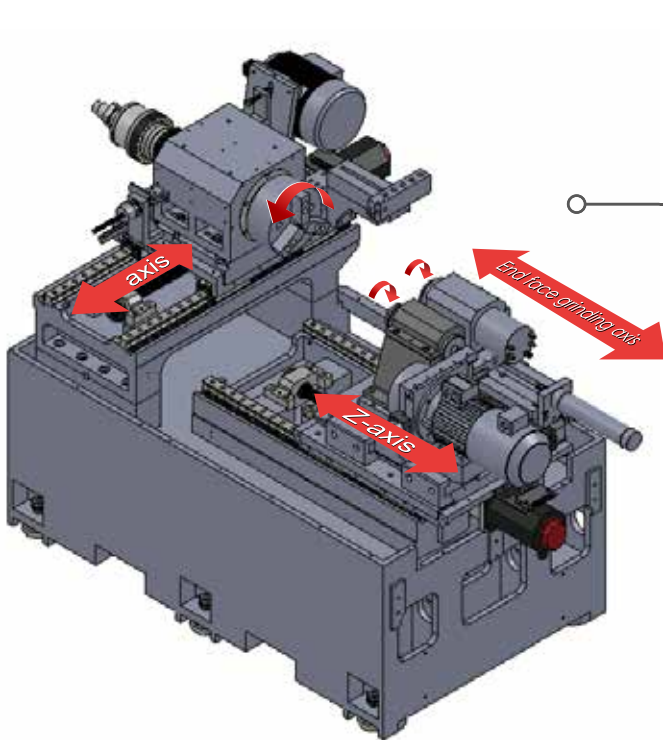


Single Grinding Spindle and Turning Tool Structure



End Grinding Spindle

1. Positioning by hydraulic cylinder and servo motor for grinding movement
2. Built-in spindle

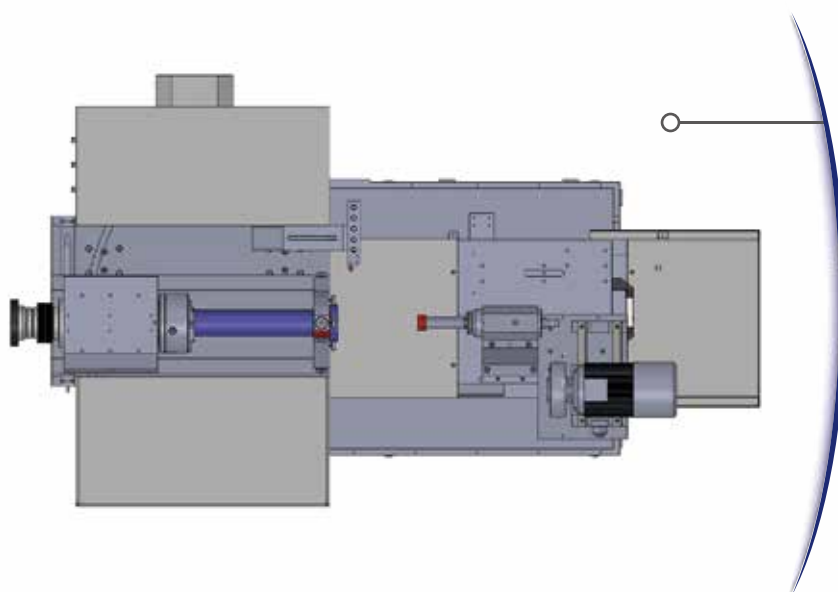
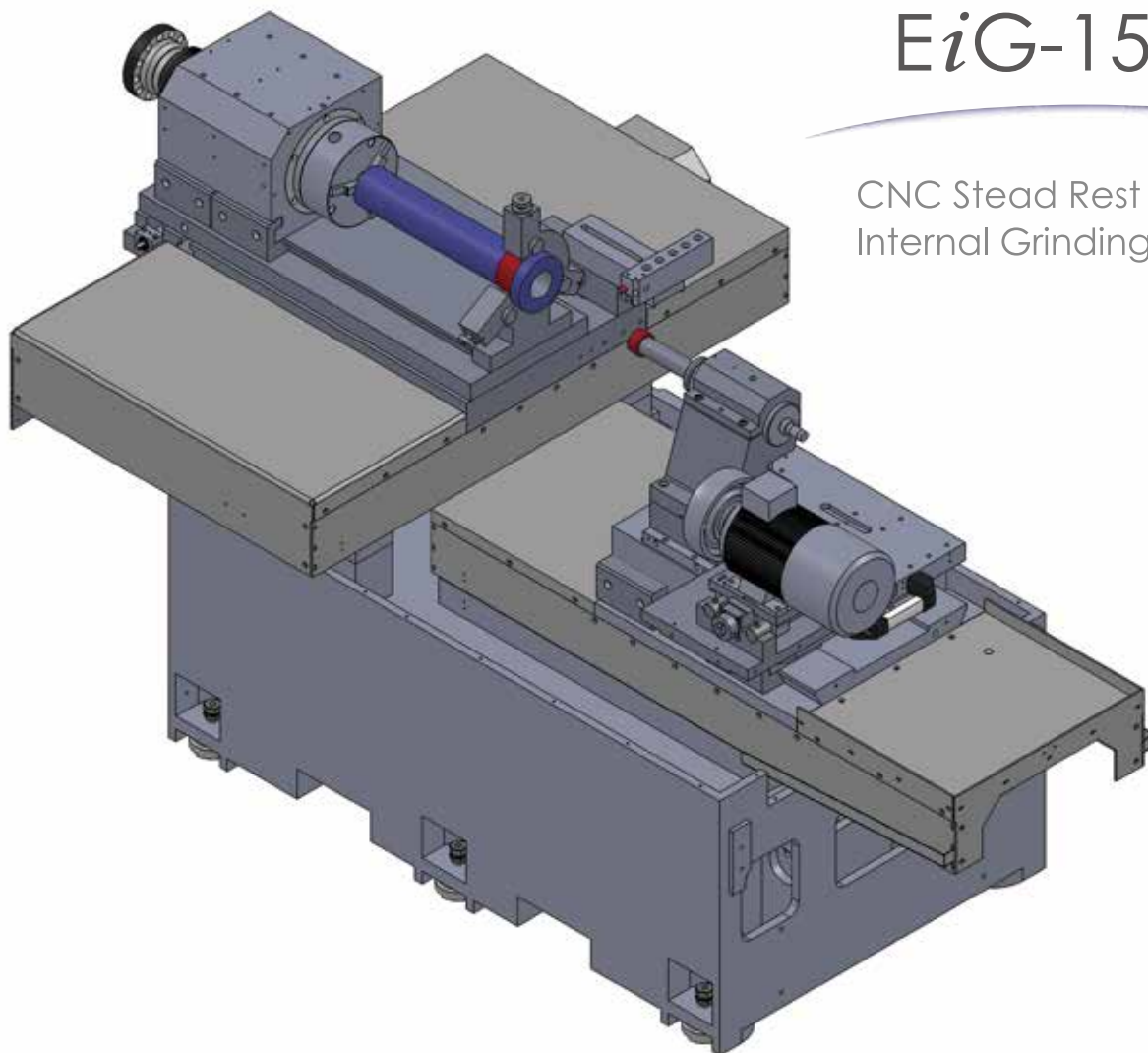


## Stable, Powerful & Rigidity Casting structure

- High precision Linear way and ball-screw for X / Z axis, high accuracy and high rigidity.
- High class Casting FC30, rein-forcing rib and structure, keep machine accuracy and reliability precision.
- Stronger rib and stable enlarged machine base, to keep excellence accuracy.
- Servo motor drive for X / Z axis , Min. movement 0.001mm.

## EiG-150SR

CNC Stead Rest  
Internal Grinding Machine



- Max. grinding internal diameter  $\phi 100$  (stead reset)
- Max. grinding depth 250mm
- **Funcation:**  
X axis with stead rest
- Max. workpiece length 400mm
- **Working Range:**  
Internal diameter  $\phi 100$  ~ depth 250mm



# New design without frames

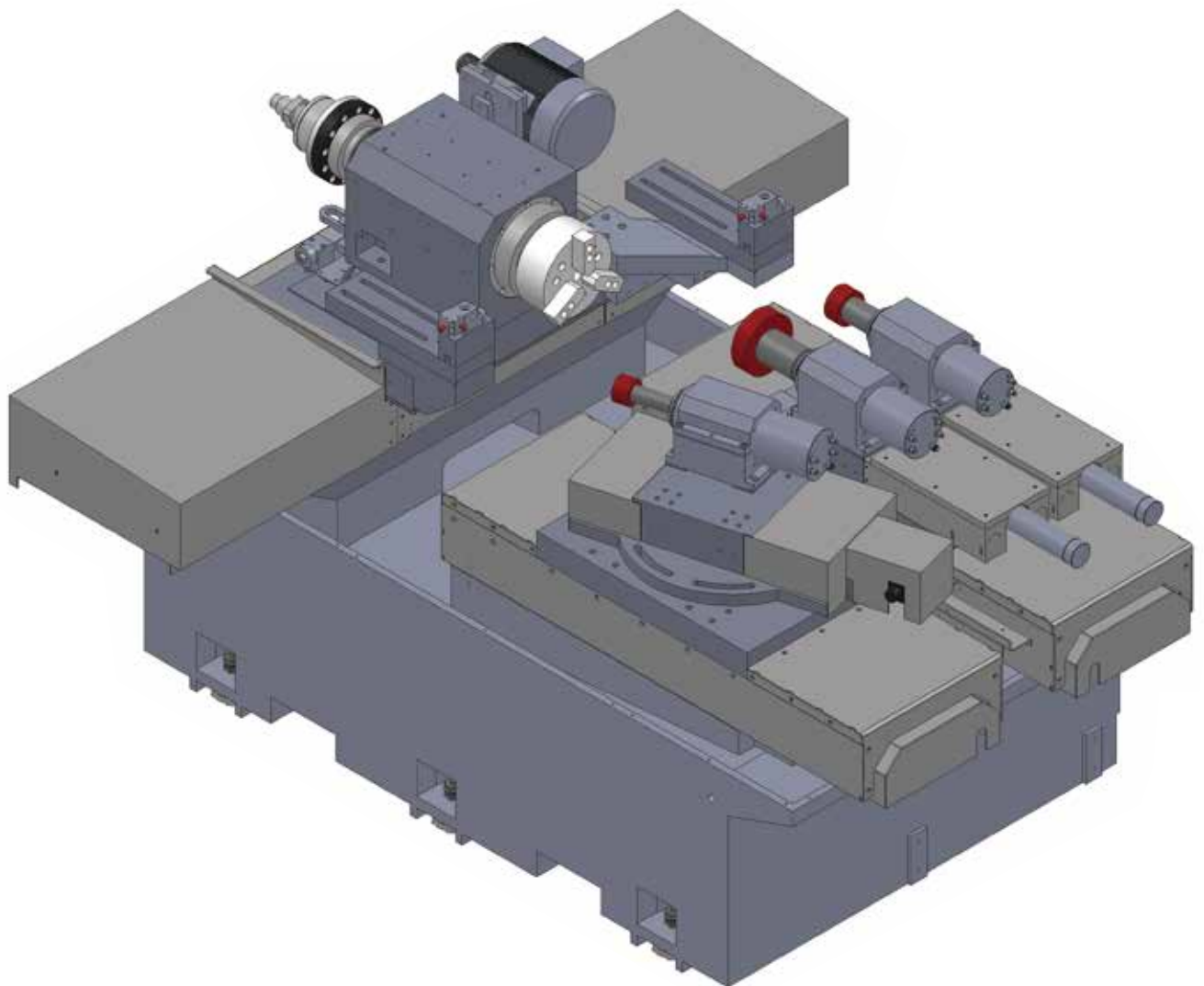
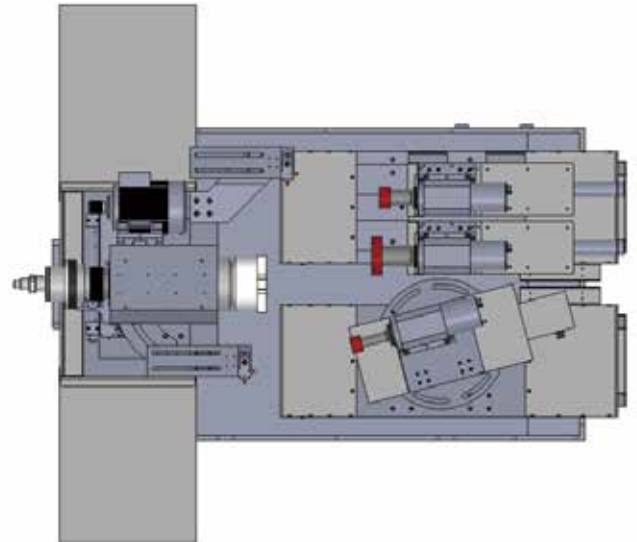
## EiG-500LR

CNC Internal External End Face Grinding Complex Machine

It can be equipped with 3 set grinding spindles.

After the Y / Y2 axis is positioning by hydraulic, it can be used for internal and external grinding.

Z axis grinding wheel can be adjust the degree and driven by servo motor.



Spec. Item / Model

EiG-410SR

EiG-500L

|                            |   |                     |                        |
|----------------------------|---|---------------------|------------------------|
| Capacity                   | Range of grinding diameter                      | ∅ 4 ~ ∅ 320         | ∅ 4 ~ ∅ 320 mm         |
|                            | Max. grinding depth                             | 410 mm              | 200 mm                 |
|                            | Max. Swing range of workpiece                   | ∅ 390 mm            | ∅ 500 mm               |
|                            | Swing range within the waterproof cover         | -                   | ∅ 320 mm               |
| Control system             | Controller                                      | FANUC               | FANUC                  |
| Work head                  | Spindle speed                                   | 0 ~ 1000 rpm        | 0 ~ 1000 rpm           |
|                            | X-axis feed rate/ max. stroke                   | 10 M/min / 650      | 10 M/min / 750 mm      |
|                            | X-axis mini. display unit                       | 0.0001 mm           | 0.0001 mm              |
|                            | Swivel angle of work head                       | -5° ~ +15°          | -5° ~ +30°             |
| Worktable                  | Y, Z-axis feed rate                             | Z : 6M/min          | 10 / 10 M/min          |
|                            | Y, Z-axis max. stroke                           | Z : 550mm           | 320+200 / 320+200 mm   |
|                            | Y, Z-axis mini. display unit                    | Z : 0.0001mm        | 0.0001 / 0.0001 mm     |
|                            | Distance from spindle center to the ground      | 1050 mm             | 1100 mm                |
| Hydraulic system           | Oil tank capacity                               | 30 L                | 30 L                   |
| Cooling system             | Coolant tank capacity                           | 400 L               | 200 L                  |
| Motor                      | Hydraulic motor                                 | 0.75 Kw (1HP)       | 0.75 Kw (1HP)          |
|                            | Coolant pump motor                              | 0.37 Kw (1/2HP)     | 0.37 Kw (1/2HP)        |
|                            | X, Y, Z-axis servo motor                        | X : 2.5Kw Z : 2.5Kw | 1.6 / 1.6 / 1.6 Kw     |
|                            | Grinding wheel motor                            | 3.7 (5HP)           | 2.2 (3HP)<br>2.2 (3HP) |
|                            | Spindle head motor                              | 2.2 · 4P (3HP)      | 2.2 · 4P (3HP)         |
| Others                     | Automatic lubricator                            | 4 L                 | 4 L                    |
|                            | Machine dimension including accessories (LxWxH) | 4200x3100x2050 mm   | 3300x2300x1950 mm      |
|                            | Machine weight                                  | 7300 kg             | 5000 kg                |
| Standard accessories       | CNC controller                                  | ●                   | ●                      |
|                            | Inverter for grinding spindle motor (X axis)    | ●                   | ●                      |
|                            | Inverter for grinding spindle motor (Y-axis)    | -                   | ●                      |
|                            | Inverter for grinding spindle motor (Z-axis)    | ●                   | ●                      |
|                            | Y-axis grinding spindle                         | -                   | ●                      |
|                            | Z-axis grinding spindle                         | ●                   | ●                      |
|                            | End & Built-in grinding spindle                 | -                   | -                      |
|                            | Hydraulic chuck                                 | ●                   | ●                      |
|                            | Hydraulic cylinder                              | ●                   | ●                      |
|                            | Alarm lamp                                      | ●                   | ●                      |
|                            | Work lamp                                       | ●                   | ●                      |
|                            | Tool box  | ●                   | ●                      |
|                            | Automatic lubricator                            | ●                   | ●                      |
|                            | Coolant tank and pump                           | ●                   | ●                      |
|                            | Paper filter                                    | ●                   | ●                      |
|                            | Magnetic coolant separator                      | ●                   | ●                      |
|                            | Hydraulic tank and pump                         | ●                   | ●                      |
|                            | Electrial box heat exchanger                    | ●                   | ●                      |
|                            | Diamond dresser                                 | ●                   | ●                      |
|                            | Foundation screws and pads                      | ●                   | ●                      |
| E&M operation manuals      | ●   | ●                   |                        |
| Fully guarded splash guard | ●   | ●                   |                        |
| Semi-guarded splash guard  | -   | -                   |                        |

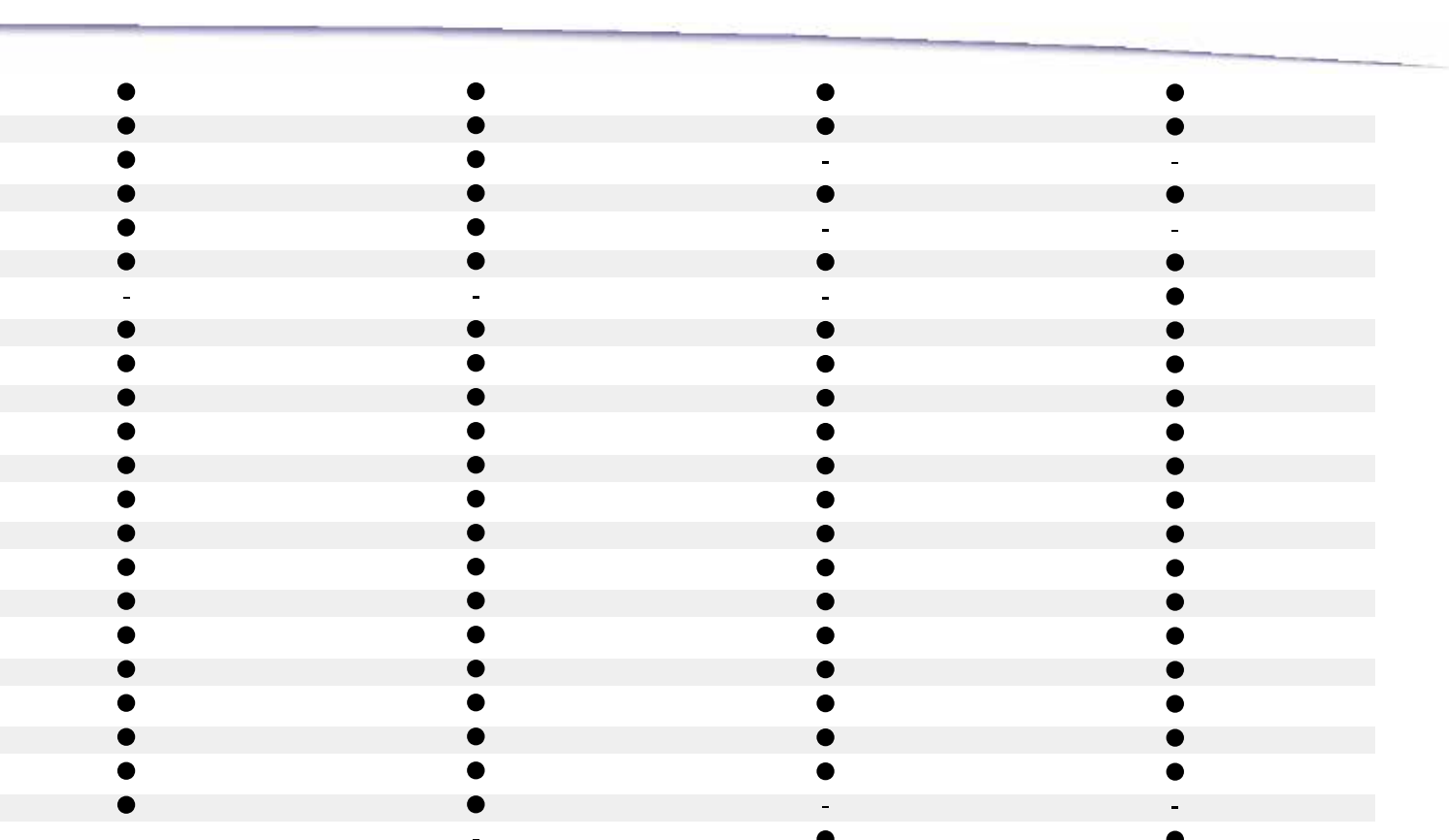
EiG-450

EiG-500ATC

EiG-150A

EiG-150B

|                      |                    |                         |                         |
|----------------------|--------------------|-------------------------|-------------------------|
| ∅ 4 ~ ∅ 320 mm       | ∅ 4 ~ ∅ 320 mm     | ∅ 4 ~ ∅ 240 mm          | ∅ 4 ~ ∅ 200 mm          |
| 200 mm               | 250 mm             | 150 mm                  | 150 mm                  |
| ∅ 450 mm             | ∅ 500 mm           | ∅ 380 mm                | ∅ 300 mm                |
| ∅ 320 mm             | ∅ 320 mm           | ∅ 300 mm                | ∅ 300 mm                |
| FANUC                | FANUC              | FANUC                   | FANUC                   |
| 0 ~ 1000 rpm         | 0 ~ 1000 rpm       | 0 ~ 1000 rpm            | 0 ~ 1000 rpm            |
| 10 M/min / 390 mm    | 10 M/min / 750 mm  | 10 M/min / 350 mm       | 10 M/min / 350 mm       |
| 0.0001 mm            | 0.0001 mm          | 0.0001 mm               | 0.0001 mm               |
| -5° ~ +30°           | -5° ~ +30°         | -5° ~ +15°              | -5° ~ +15°              |
| 10 / 10 M/min        | 10 / 10 M/min      | Z : 10 M/min            | Z : 10 M/min            |
| 350+200 / 350+200 mm | 600 / 600+200 mm   | Z : 400+100 mm          | Z : 400+100 mm          |
| 0.0001 / 0.0001 mm   | 0.0001 / 0.0001 mm | Z : 0.0001 mm           | Z : 0.0001 mm           |
| 1100 mm              | 1100 mm            | 1060 mm                 | 1060 mm                 |
| 30 L                 | 40 L               | 30 L                    | 30 L                    |
| 200 L                | 350 L              | 150 L                   | 150 L                   |
| 0.75 Kw (1HP)        | 1.5 Kw (2HP)       | 0.75 Kw (1HP)           | 0.75 Kw (1HP)           |
| 0.18 Kw (1/4HP)      | 0.37 Kw (1/2HP)    | 0.18 Kw (1/4HP)         | 0.18 Kw (1/4HP)         |
| 1.6 / 1.6 / 1.6 Kw   | 1.6 / 1.6 / 1.6 Kw | X : 1.2 Kw / Z : 1.2 Kw | X : 1.2 Kw / Z : 1.2 Kw |
| 4.0 · 2P (5HP)       | 18 (24HP)          | 2.2 · 2P (3HP)          | 2.2 · 2P (3HP)          |
| 4.0 · 2P (5HP)       | 7.5 (10HP)         | -                       | 3.0 (4HP)               |
| 2.2 · 4P (3HP)       | 2.2 · 4P (3HP)     | 2.2 · 4P (3HP)          | 2.2 · 4P (3HP)          |
| 4 L                  | 4 L                | 2 L                     | 2 L                     |
| 3350x2150x1900 mm    | 4300x2550x1950 mm  | 2500x2300x1700 mm       | 2500x2300x1700 mm       |
| 4750 kg              | 7000 kg            | 3000 kg                 | 3200 kg                 |



|   |   |   |   |
|---|---|---|---|
| - | - | - | - |
|---|---|---|---|

# EQUIPTOP®



**"EQUIPTOP" means "TOP EQUIPMENT" A Wise Choice-Equiptop.**



Taiwan SMEs  
Innovation Award



ISO 9001: 2015



Machinery  
Directive  
Number 1674



IT'S VERY WELL  
MADE IN TAIWAN

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