

## OUTLINE

This is a turning machine for processing the O.D. finishing and grooving of rings in the full-automatic mode.

More than one ring clamped on one side can be processed simultaneously by means of multi-blade cutting

## CNC FULL AUTOMATIC PISTONRING TURNING MACHINE

### ROC-120

6/12-21243

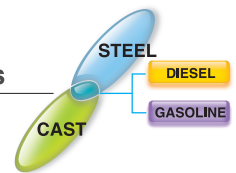
#### O.D. FINISH

|                     |                 |
|---------------------|-----------------|
| ● Use               | DIESEL/GASOLINE |
| ● Material          | <b>C</b>        |
| ● Condition         | <b>D</b>        |
| ● O.D.Range         | φ 60 ~ φ 120    |
| ● Chucking Breadth  | 20mm(3~10p.c.s) |
| ● 1-cycle processes | MULTI           |
| ● Machining Profile |                 |



PHOTO

PHOTO



# PISTONRING TURNING MACHINE 11111 Series List of Specifications

| Specifications item                                                                          |                    |                                     |                       | 11111 6/12-21243            |                |  |  |  |
|----------------------------------------------------------------------------------------------|--------------------|-------------------------------------|-----------------------|-----------------------------|----------------|--|--|--|
|                                                                                              |                    |                                     |                       | ROC-120                     |                |  |  |  |
| SPEC SHEET  |                    |                                     |                       |                             |                |  |  |  |
| No. of work clamps                                                                           |                    |                                     |                       | Multiple                    |                |  |  |  |
| Method of work clamp                                                                         |                    |                                     |                       | Clamping device on one side |                |  |  |  |
| Work head side                                                                               |                    |                                     |                       | Pull stud                   |                |  |  |  |
| Tailstock side                                                                               |                    |                                     |                       | Carrier unit                |                |  |  |  |
| Closing sleeve                                                                               |                    |                                     |                       | Moving-type                 |                |  |  |  |
| Structure                                                                                    |                    |                                     |                       | Horizontal type             |                |  |  |  |
| Operation mode                                                                               |                    | Full automatic                      |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Semi automatic                      |                       |                             |                |  |  |  |
| Machining shape                                                                              |                    |                                     |                       | Perfect circle              |                |  |  |  |
| Machining position                                                                           |                    |                                     |                       | OD                          |                |  |  |  |
| Machining count per cycle                                                                    |                    |                                     |                       | Multiple                    |                |  |  |  |
| S P E C I F I C A T I O N S                                                                  | Machining capacity |                                     | Motor output(φ)       | 60~120                      |                |  |  |  |
|                                                                                              | Work head          | Motor output(kW)                    |                       | 3.7/5.5                     |                |  |  |  |
|                                                                                              |                    | Rotation speed(rpm)                 |                       | 100~500                     |                |  |  |  |
|                                                                                              | Machine dimensions |                                     | L × D × H(mm)         |                             | 2800×1660×2202 |  |  |  |
|                                                                                              | Machine weight(kg) |                                     |                       |                             | About 3400     |  |  |  |
| B a s i c<br>s t r u c t u r e                                                               | G e n e r a l      | NC controlled axes                  | OD slide              | X                           | 1              |  |  |  |
|                                                                                              |                    |                                     |                       | Z                           | 1              |  |  |  |
|                                                                                              |                    | Loader                              |                       | 3-position clamp type       |                |  |  |  |
|                                                                                              |                    | Unloader                            |                       | Swing arm type              |                |  |  |  |
|                                                                                              |                    | Stocker                             | IN stocker            |                             | Rail           |  |  |  |
|                                                                                              |                    |                                     | OUT stocker           |                             | Rail           |  |  |  |
|                                                                                              |                    | Hydraulic unit                      |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Pneumatic unit                      |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Forcible lubrication unit for slide |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Pull stud type                      |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Electric system                     | Control panel         |                             | ○              |  |  |  |
|                                                                                              |                    |                                     | NC unit               |                             | ○              |  |  |  |
|                                                                                              |                    |                                     |                       |                             |                |  |  |  |
|                                                                                              |                    |                                     |                       |                             |                |  |  |  |
|                                                                                              |                    | Standard attachments                | Leveling bolt & plate |                             | ○              |  |  |  |
|                                                                                              | Adjustment tool    |                                     | ○                     |                             |                |  |  |  |
| Machine instruction manual                                                                   |                    |                                     | ○                     |                             |                |  |  |  |
| NC instruction manual                                                                        |                    |                                     | ○                     |                             |                |  |  |  |
| Basic options                                                                                |                    |                                     |                       |                             |                |  |  |  |
| CE marking                                                                                   |                    |                                     |                       | ○                           |                |  |  |  |
| A d d e d<br>o p t i o n s                                                                   | C V                | Safety cover                        |                       | ○                           |                |  |  |  |
|                                                                                              |                    |                                     |                       |                             |                |  |  |  |
|                                                                                              | C L                | Chip pan                            |                       | ○                           |                |  |  |  |
|                                                                                              |                    |                                     |                       |                             |                |  |  |  |
|                                                                                              | A I R              | Air blow                            |                       | ○                           |                |  |  |  |
|                                                                                              |                    |                                     |                       |                             |                |  |  |  |
|                                                                                              | V                  | Dust collector                      |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Cover & hood for dust collector     |                       | ○                           |                |  |  |  |
|                                                                                              | H Y D              | Fan cooler for hydraulic unit       |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Heater for hydraulic unit           |                       | ○                           |                |  |  |  |
|                                                                                              | E                  | Oil controller                      |                       | ○                           |                |  |  |  |
|                                                                                              |                    | 3-lamp signal tower                 |                       | ○                           |                |  |  |  |
|                                                                                              |                    | 4-lamp signal tower                 |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Spindle inching function            |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Spindle orientation unit            |                       | ○                           |                |  |  |  |
|                                                                                              |                    | Data registration function          |                       | ○                           |                |  |  |  |
|                                                                                              |                    | RS232C interface                    |                       | ○                           |                |  |  |  |
|                                                                                              | Air conditioner    |                                     | ○                     |                             |                |  |  |  |

|              |   |  |  |
|--------------|---|--|--|
| Cutting tool | ○ |  |  |
| Cutting jig  | ○ |  |  |
| Spare part 1 | ○ |  |  |
| Spare part 2 | ○ |  |  |

Added options mark

CV : Cover CL : Coolant unit MC : Mist collector D : Dressing unit G : Measuring unit AIR : Pneumatic unit V : Dust collector HYD : Hydraulic unit  
E : Electric system LUB : Lubricator