



Turnado 230/1000 with 3-axis position indicator is shown



See this machine  
in action on  
YouTube



**For more machines of this series with  
infinitely variable speed adjustment, visit our  
website**

- Cost-effective, lasting value
- Practically arranged control panel with ergonomic layout of selection levers
- Camlock spindle mount D1-6 and D1-8
- Wide bed, ground and hardened
- Offset tailstock for taper turning
- Large number of thread leads
- Removable gap bridge for machining of large parts
- Stop spindle with adjustable travel stops



Turnado V: Constant cutting speed for flawless surfaces

**Online: Turnado V models with infinitely variable speed control up to 3000 rpm ([www.knuth.com](http://www.knuth.com))**

- Back gearing, first-class control technology and a powerful headstock motor allow a wide range of speeds and high torque for powerful machining
- The extensive features of the X.Pos position indicator are complemented by a speed display and vconst (constant speed) function; during face turning, the spindle speed automatically adapts to the changing workpiece diameter - the constant cutting speed at the cutting edge of the turning tool ensures superior turning results with quality comparable to CNC lathes



Large steady and follow rests are included

## Standard Equipment

3-axis position indicator, 3-jaw chuck Ø 10 inch (Turnado 230), 3-jaw chuck Ø 12 inch (Turnado 280), 4-jaw face plate chuck Ø 14 inch (Turnado 230), face plate Ø 17.7 inch (Turnado 280), quick tool changer head, quick change tool holder, coolant system, follow and steady rests, spindle, fixed splash guard (wall), chuck guard, foot brake pedal, LED work lamp, reducing sleeve, dead center, thread gauge, operating tools, operator instructions

## Options

### Part No.

|   |        |
|---|--------|
| • Quick-Set Spindle Bore Stop Size 9 3.1-3.6 inch | 103025 |
| • Oscillation element LK 6                        | 103332 |
| • 4-Jaw Lathe Chuck Steel 12 inch                 | 146483 |

For additional options for this machine, visit our website and search for Turnado.

## Specifications Turnado

|  |      | 230/1000          | 230/1500          | 230/2000          | 280/1500          | 280/2000          |
|--|------|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Working Area</b>                          |      |                   |                   |                   |                   |                   |
| Workpiece length (max.)                      | in   | 39                | 59                | 79                | 56                | 76                |
| Turning diameter over bed                    | in   | 18                | 18                | 18                | 22                | 22                |
| Turning-Ø over support                       | in   | 9                 | 9                 | 9                 | 14                | 14                |
| Turning diameter over gap bridge             | in   | 27                | 27                | 27                | 31                | 31                |
| Gap bridge length                            | in   | 6                 | 6                 | 6                 | 7                 | 7                 |
| Bed width                                    | in   | 12                | 12                | 12                | 14                | 14                |
| <b>Travels</b>                               |      |                   |                   |                   |                   |                   |
| Travel X-axis                                | in   | 11.2              | 11.2              | 11.2              | 12.4              | 12.4              |
| Travel Z1-axis                               | in   | 5                 | 5                 | 5                 | 5                 | 5                 |
| Swing range of top slide                     |      | ± 52°             | ± 52°             | ± 52°             | ± 52°             | ± 52°             |
| <b>Headstock</b>                             |      |                   |                   |                   |                   |                   |
| Spindle speed                                | rpm  | (12) 25 - 2,000   | (12) 25 - 2,000   | (12) 25 - 2,000   | (12) 25 - 1,600   | (12) 25 - 1,600   |
| Spindle bore                                 | in   | 2                 | 2                 | 2                 | 3                 | 3                 |
| Spindle mount                                |      | Camlock D1-6      | Camlock D1-6      | Camlock D1-6      | Camlock D1-8      | Camlock D1-8      |
| Spindle taper                                | MT   | 6                 | 6                 | 6                 | 7                 | 7                 |
| <b>Feed</b>                                  |      |                   |                   |                   |                   |                   |
| Feed X-axis                                  | in/R | 0.00055 - 0.03087 | 0.00055 - 0.03087 | 0.00055 - 0.03087 | 0.00079 - 0.02256 | 0.00079 - 0.02256 |
| Feed Z-axis                                  | in/R | 0.00122 - 0.06693 | 0.00122 - 0.06693 | 0.00122 - 0.06693 | 0.00232 - 0.0648  | 0.00232 - 0.0648  |
| <b>Tapping</b>                               |      |                   |                   |                   |                   |                   |
| Tapping, metric                              | in   | (47) 0.004 - 0.55 | (47) 0.004 - 0.55 | (47) 0.004 - 0.55 | (47) 0.008 - 0.55 | (47) 0.008 - 0.55 |
| Tapping, diametric                           | DP   | (50) 4-112        | (50) 4-112        | (50) 4-112        | (50) 4-112        | (50) 4-112        |
| Tapping, module                              | in   | (39) 0.004 - 0.28 | (39) 0.004 - 0.28 | (39) 0.004 - 0.28 | (39) 0.004 - 0.28 | (39) 0.004 - 0.28 |
| Tapping, withworth                           | TPI  | (60) 2-112        | (60) 2-112        | (60) 2-112        | (60) 2-112        | (60) 2-112        |
| <b>Tailstock</b>                             |      |                   |                   |                   |                   |                   |
| Tailstock quill diameter                     | in   | 2                 | 2                 | 2                 | 3                 | 3                 |
| Tailstock taper                              | MT   | 4                 | 4                 | 4                 | 5                 | 5                 |
| Tailstock quill stroke                       | in   | 5                 | 5                 | 5                 | 7                 | 7                 |
| Tailstock traverse adjustment                | in   | ± 0.51            | ± 0.51            | ± 0.51            | ± 0.47            | ± 0.47            |
| <b>Drive Capacity</b>                        |      |                   |                   |                   |                   |                   |
| Motor rating main drive                      | Hp   | 7.4               | 7.4               | 7.4               | 7.4               | 7.4               |
| <b>Measures and Weights</b>                  |      |                   |                   |                   |                   |                   |
| Overall dimensions (length x width x height) | in   | 87x43x53          | 109x43x53         | 128x43x53         | 112x46x53         | 132x46x58         |
| Weight                                       | lbs  | 3,784             | 4,334             | 4,620             | 5,214             | 5,984             |
| Part No.                                     |      | 320555            | 320558            | 320557            | 320559            | 320560            |