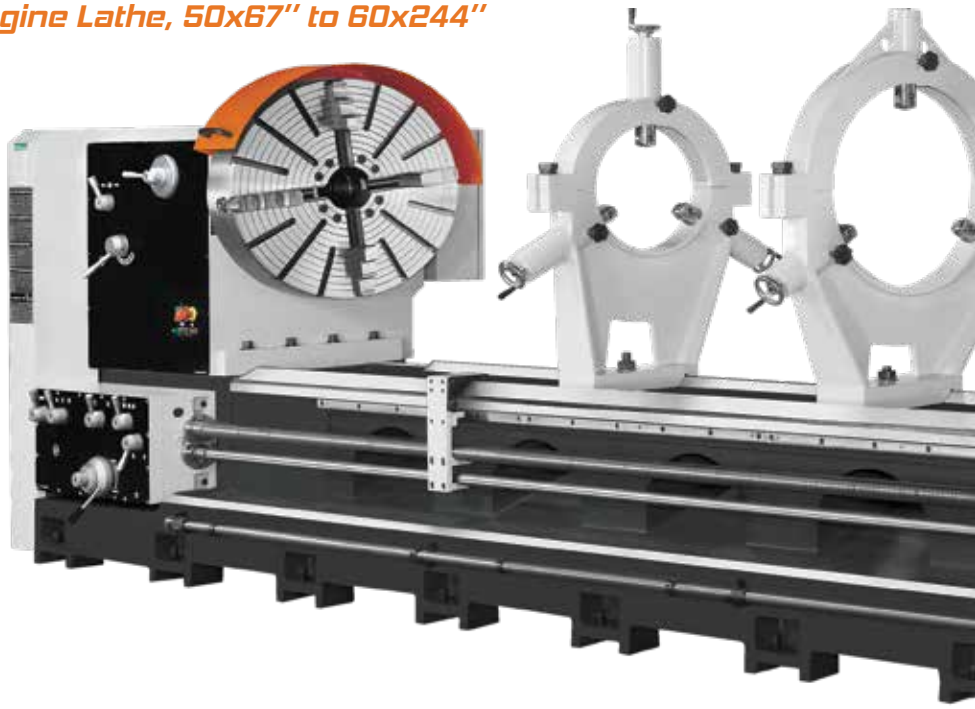
KAAST

# C-Turn

## 635 | 750

*Manual Engine Lathe, 50x67" to 60x244"*



### **STANDARD** CONFIGURATION

- 3-Axis Digital Readout (DRO)
- 4-Post Toolholder
- 3-Jaw Chuck
- Coolant System
- Backsplash Guard
- Chuck Guard
- Footbrake
- Tool Kit and Work Light

### **OPTIONAL** CONFIGURATION

- Larger Bore
- Extra Power Spindle Motor
- 3-Jaw or 4-Jaw Chuck (Various Sizes)
- Faceplate (Various Sizes)
- Follow or Steady Rest
- Taper Attachment
- Quick-Change Toolholder
- 5-Position Travel Stop
- Micrometer Stop
- Rapid Traverse

The C-Turn manual lathes are available with **stepless spindle speed** and **Constant Surface Speed (CSS)** featuring **up to 3,100 rpm**. Offering an optimal structure design, the entire structure of the C-Turn series conventional engine lathe is carefully designed for maximum stability while performing heavy precision cutting.

| C-Turn | | | 635/1700 | 635/2200 | 635/3200 | 635/4200 | 635/5200 | 635/6200 |
|---|---|---|---|---|---|---|---|---|
| | | | 50" x 67" | 50" x 87" | 50" x 126" | 50" x 165" | 50" x 205" | 50" x 244" |
| Swing over Bed | | mm | Ø1270 (50") | | | | | |
| Swing over Gap | | mm | Ø1720 (68") | | | | | |
| Swing over Carriage | | mm | Ø944 (37") | | | | | |
| Distance Between Centers | | mm | 1700 (67") | 2200 (87") | 3200 (126") | 4200 (165") | 5200 (205") | 6200 (244") |
| Chuck Mount | | | A2-11 [Opt. A2-15, A2-20] | | | | | |
| Spindle Bore Diameter | | mm | Ø155 (6") [Opt. Ø230 (9"), Ø255 (10"), Ø305 (12")] | | | | | |
| Speeds | 18 Steps | rpm | 5~615 (Opt. 4~430) | | | | | |
| | Variable (Opt) | rpm | 7~710 [Opt. 6~500, 5~350] | | | | | |
| Bed Width | | mm | 610 (24") | | | | | |
| X-Axis Travel | | mm | 700 (28") | | | | | |
| Toolholder Travel: Z[1] | | mm | 380 (15") | | | | | |
| Threading | Inches | TPI | 30-1 | | | | | |
| | Metric | mm/pitch | 1-30 | | | | | |
| | Diametral | P | 60-2 | | | | | |
| | Module | M | 0.5–15 M | | | | | |
| Feed | Z | mm/rev | 0.07–2.03 (0.002–0.08"/rev.) | | | | | |
| | X | mm/rev | 0.028–0.81 (0.001–0.03"/rev.) | | | | | |
| Tailstock Quill Diameter | | mm | Ø165 (6.5") | | | | | |
| Tailstock Quill Travel | | mm | 300 (11.8") | | | | | |
| Tailstock Quill Taper | | | MT6 | | | | | |
| Main Spindle Motor | | kW | 15 (20 Hp) [Opt. 18 (25 Hp), 22 (30 Hp)] | | | | | |
| Weight | | kg | 6900 (15,210 lbs) | 7300 (16,100 lbs) | 8100 (17,860 lbs) | 8900 (19,620 lbs) | 9700 (21,380 lbs) | 10500 (23,150 lbs) |
| Item No. | | | 1616351 | 1616352 | 1616353 | 1616354 | 1616355 | 1616356 |
| Item No. [V-Model] | | | 1616321 | 1616322 | 1616323 | 1616324 | 1616325 | 1616326 |

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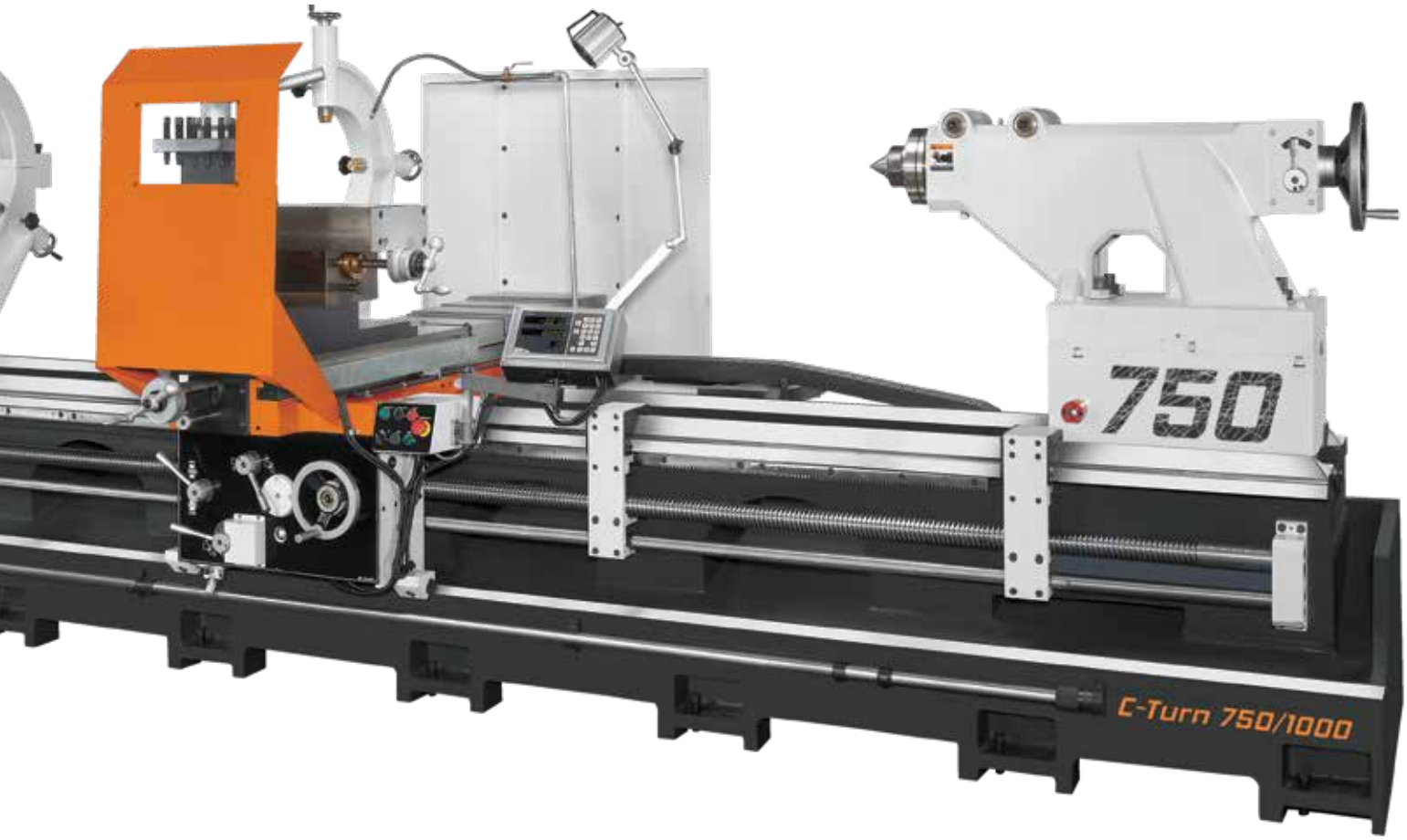
## 635 | 750




| C-Turn | | | 750/1700 | 750/2200 | 750/3200 | 750/4200 | 750/5200 | 750/6200 |
|---|---|---|---|---|---|---|---|---|
| | | | 60” x 67” | 60” x 87” | 60” x 126” | 60” x 165” | 60” x 205” | 60” x 244” |
| Swing over Bed | | mm | Ø1500 (60”) | | | | | |
| Swing over Gap | | mm | Ø1950 (77”) | | | | | |
| Swing over Carriage | | mm | Ø1100 (43”) | | | | | |
| Distance Between Centers | | mm | 1700 (67”) | 2200 (87”) | 3200 (126”) | 4200 (165”) | 5200 (205”) | 6200 (244”) |
| Chuck Mount | | | A2-11 [Opt. A2-15] | | | | | |
| Spindle Bore Diameter | | mm | Ø155 (6”) [Opt. Ø230 (9”), Ø255 (10”), Ø305 (12”)] | | | | | |
| Speeds | 18 Steps | rpm | 5~615 [Opt. 4~430] | | | | | |
| | Variable (Opt) | rpm | 7~710 [Opt. 6~500, 5~350] | | | | | |
| Bed Width | | mm | 610 (24”) | | | | | |
| X-Axis Travel | | mm | 750 (29.5”) | | | | | |
| Toolholder Travel: Z[1] | | mm | 380 (15”) | | | | | |
| Threading | Inches | TPI | 30-1 | | | | | |
| | Metric | mm/pitch | 1-30 | | | | | |
| | Diametral | P | 60-2 | | | | | |
| | Module | M | 0.5 - 15 | | | | | |
| Feed | Z | mm/rev | 0.07–2.03 (0.003–0.08”/rev.) | | | | | |
| | X | mm/rev | 0.0028–0.81 (0.0001–0.03”/rev.) | | | | | |
| Tailstock Quill Diameter | | mm | Ø165 (6.5”) | | | | | |
| Tailstock Quill Travel | | mm | 300 (11.8”) | | | | | |
| Tailstock Quill Taper | | | MT6 | | | | | |
| Main Spindle Motor | | kW | 15 (20 Hp) [Opt. 18 (25 Hp), 22 (30 Hp)] | | | | | |
| Weight | | kg | 7400 (16,320 lbs) | 7800 (17,200 lbs) | 8600 (18,960 lbs) | 9400 (18,520 lbs) | 10200 (22,450 lbs) | 11000 (24,250 lbs) |
| Item No. | | | **1617501** | **1617502** | **1617503** | **1617504** | **1617505** | **1617506** |
| Item No. [V-Model] | | | **1617521** | **1617522** | **1617523** | **1617524** | **1617525** | **1617526** |

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