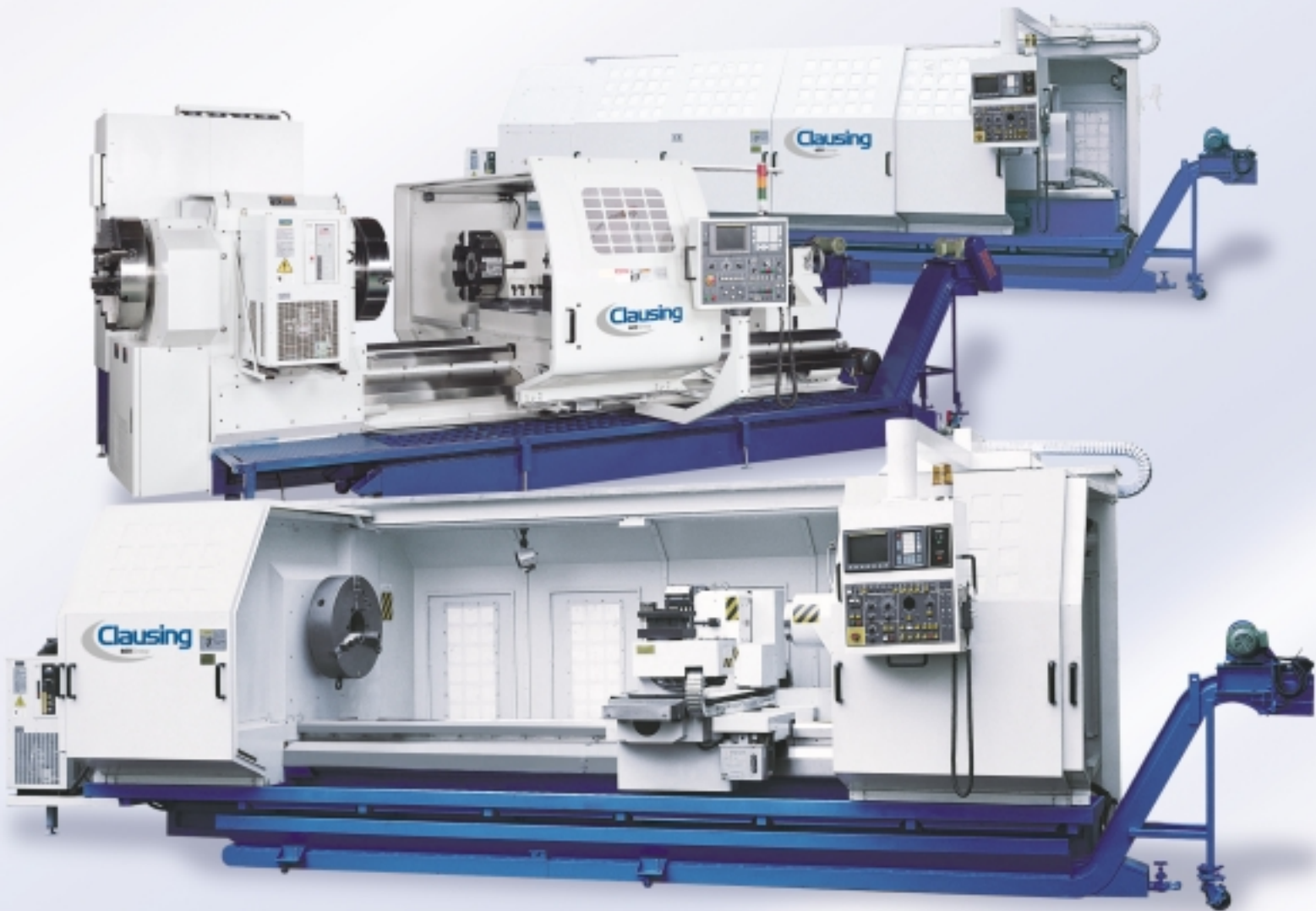


Clausing CNC Lathes

*Built to Meet Your Turning Needs...
Extra Heavy-duty, Large Swing, Big Bore,
Precision Flat Bed CNC Lathes*



- **Standard Swing Range... 35" to 80"**
- **Standard Bore Range... 6" to 24"**
- **Standard Center Distance... 64" to 488"**

Simply the best

Clausing Large Swing Heavy-Duty CNC Lathes are Built for all Your Turning Needs, just fill out the “Clausing applications. Clausing Large Swing CNC Lathes are designed for optimum performance, heavy stock removal shops • mining industry • paper mills • power utilities • ship building and repair and the oil field industry

Clausing offers Four Series of Lathes which can be ordered with a wide range of Swings, Bores,

● CL Series

Machining Range...

Capacity

- Swing over bed: 35" 40" 45" 50"
- Swing over long cross slide: 20" 25" 30" 35"
- Center height over bed 17.5" 20" 22.5" 25"
- Center height from floor 44.27" 46.77" 49.27" 51.77"
- Center distance: 62" to 476"
- Max. weight between centers: 11,000 lbs
- Max. weight between centers with steady rest: 13,200 lbs
- Max. unsupported weight in chuck: 5,500 lbs
- Small closed steady rest capacity (optional): 1.18" to 15.75"
- Large closed steady rest capacity (optional): 13.8" to 27.56"

Bed

- Bed width: 22" with 2 bed ways • Bed Height from floor: 26.77"

Headstock

- Spindle bore 35" swing: 6" standard, up to 14.17" optional
- Spindle bore 40" to 50" swings: 6" standard up to 16.14" optional
- Spindle nose: A2-11 to A2-28 (see spindle bore and speed range chart)
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 8-1000 rpm (see spindle and speed range chart)
- Spindle drive motor: 40/50 hp standard, 50/60 hp optional

Turret

- Turret: 4- way HP350 auto H4 • Number of tool stations: 4 Automatic
- Tool shank cross section: 1.25" • Tool shank diameter: 2.5"

Travel

- Cutting feed rate (in/rev): X axis 0.00004-9.84, Z axis 0.00004-15.75
- Rapid travel (in/min): X axis 236.16", Z axis 314.88"
- Ballscrew diameter: X axis 1.57", Z axis 2.48"

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 9.25" • Quill travel: 7.87"

● CB Series

Machining Range...

Capacity

- Swing over bed: 45" 50" 60" 70"
- Swing over long cross slide: 28" 33" 43" 53"
- Center height over bed 22.5" 25" 30" 35"
- Center height from floor 49.27" 51.77" 56.77" 61.11"
- Center distance: 70" to 488"
- Max. weight between centers: 14,300 lbs
- Max. weight between centers with steady rest: 16,500 lbs
- Max. unsupported weight in chuck: 6,600 lbs
- Small closed steady rest capacity (optional): 1.18" to 15.75"
- Large closed steady rest capacity (optional): 13.8" to 27.56"

Bed

- Bed width: 28" with 2 bed ways • Bed Height from floor: 26.77"

Headstock

- Spindle bore: 6" standard, up to 24.02" optional
- Spindle nose: A2-11 to A2-35
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 4-1000 rpm (see spindle bore and speed range chart)
- Spindle drive motor: 50/60 hp

Turret

- Turret: 4- way HP350 auto H4 • Number of tool stations: 4 Automatic
- Tool shank cross section: 1.25" • Tool shank diameter: 2.5"

Travel

- Cutting feed rate (in/rev): X axis 0.00004-9.84, Z axis 0.00004-15.75
- Rapid travel (in/min): X axis 236.16", Z axis 314.88"
- Ball screw diameter: X axis 1.77", Z axis 3.15"

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 9.25" • Quill travel: 7.87"



Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Large Swing Lathe Machine Profile Survey” and we will design a machine that is ideal for Your turning while providing the versatility required by a large range of industries such as: • general purpose machine • All machines are tested to the most stringent accuracy and test cuts are made before shipping...

Centers and Spindle Drives... Slant Bed Models and Larger Custom Design Machines Available

● CC Series

Machining Range...

Capacity

- | | | | | |
|---|--------|--------|--------|--------|
| • Swing over bed: | 35" | 40" | 45" | 50" |
| • Swing over long cross slide: | 26" | 27" | 32" | 37" |
| • Center height over bed | 17.5" | 20" | 22.5" | 25" |
| • Center height from floor | 44.27" | 46.77" | 49.27" | 51.77" |
| • Center distance: 94" to 488" | | | | |
| • Max. weight between centers: 22,000 lbs | | | | |
| • Max. weight between centers with steady rest: 26,400 lbs | | | | |
| • Max. unsupported weight in chuck: 9,900 lbs | | | | |
| • Small closed steady rest capacity (optional): 1.18" to 15.75" | | | | |
| • Small open steady rest capacity (optional): 1.18" to 15.75" | | | | |
| • Large closed steady rest capacity (optional): 13.8" to 27.56" | | | | |
| • Large open steady rest capacity (optional): 13.8" to 27.56" | | | | |

Bed

- Bed width: 40" with 4 bed ways • Bed Height from floor: 29"

Headstock

- Spindle bore 35" swing: 6" standard, up to 14.17" optional
- Spindle bore 40" swing: 6" standard up to 21.06" optional
- Spindle bore 45" and 50" swings: 6" standard up to 24.02" optional
- Spindle nose: A2-11 to A2-32
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 4-1000 rpm • Spindle drive motor: 50/60 hp

Turret

- Turret: 4- way HP450 auto H4 • Number of tool stations: 4 Automatic
- Tool shank cross section: 1.25" • Tool shank diameter: 2.5"

Travel

- Cutting feed rate (in/rev): X axis 0.00004-9.84, Z axis 0.00004-15.75
- Rapid travel (in/min): X axis 236.16", Z axis 314.88"
- Ball screw diameter: X axis 1.97", Z axis 3.15"

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 9.25" • Quill travel: 7.87"

● CK Series

Machining Range...

Capacity

- | | | | | |
|--|-----|-----|-----|-----|
| • Swing over bed: | 50" | 60" | 70" | 80" |
| • Swing over long cross slide: | 29" | 39" | 50" | 60" |
| • Center height over bed | 25" | 30" | 35" | 40" |
| • Center height from floor | 55" | 60" | 65" | 70" |
| • Center distance: 82" to 476" | | | | |
| • Max. weight between centers: 33,000 lbs | | | | |
| • Max. weight between centers with steady rest: 37,400 lbs | | | | |
| • Max. unsupported weight in chuck: 19,800 lbs | | | | |
| • Small closed steady rest capacity (optional): 1.18" to 15.75" | | | | |
| • Small open steady rest capacity (optional): 1.18" to 15.75" | | | | |
| • Large closed steady rest capacity (optional) : 13.8" to 27.56" | | | | |
| • Large open steady rest capacity (optional): 13.8" to 27.56" | | | | |

Bed

- Bed width: 47.5" with 4 bed ways • Bed Height from floor: 30"

Headstock

- Spindle bore: 9" standard, up to 24.02" optional
- Spindle nose: A2-15 to A2-32
- Spindle speed ranges: 4 auto change variable speed
- Spindle speeds: 4-1000 rpm (see spindle bore and speed range chart)
- Spindle drive motor: 80/100 hp

Turret

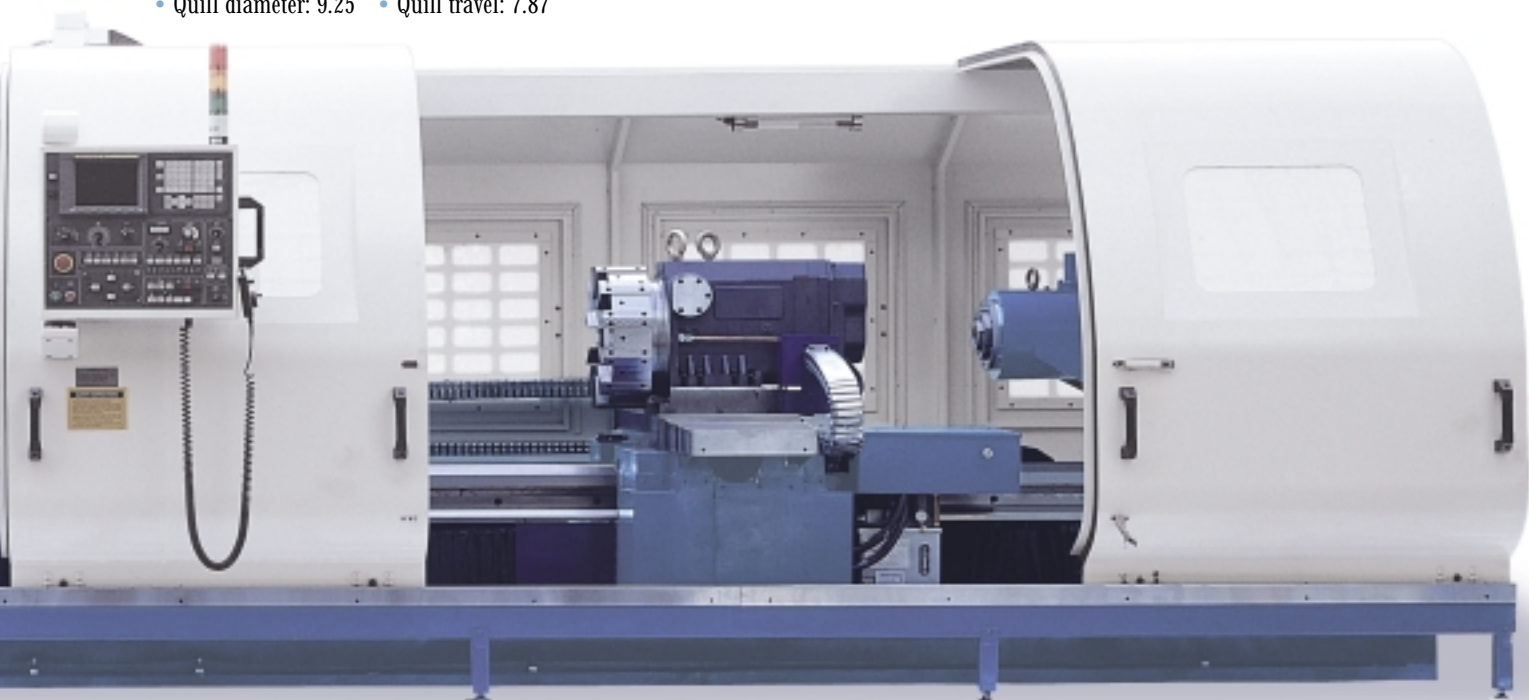
- Turret: 4- way HP450 auto H4 • Number of tool stations: 4 Automatic
- Tool shank cross section: 1.25" • Tool shank diameter: 2.5"

Travel

- Cutting feed rate (in/rev): X axis 0.00004-9.84, Z axis 0.00004-15.75
- Rapid travel (in/min): X axis 236.16", Z axis 314.88"
- Ball screw diameter: X axis 2.36", Z axis 3.93"

Tailstock

- Quill: built-in type, rotating tailstock quill with 6MT taper
- Quill diameter: 11" • Quill travel: 10"



Standard Equipment

CL Series

- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" screen
- 40/50 hp Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP350 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- 1.57" X-axes ballscrew, 2.48" Z-axes ballscrew, one piece on 62" to 279" centers, 318" and longer centers, rack with linear scales
- Steel ballscrew cover up to 160" and telescopic ballscrew cover on 200" and longer
- 5 hp X and Z axis servo motor
- Full guarding with interlock, 2 doors on 62 to 160" centers, 3 doors on 200" centers and longer
- Halogen work light • Coolant system
- 3 hp hydraulic pump motor
- Auto lube • 2 centers
- Hardened and ground bed ways
- Hardened and ground gears
- Leveling screws and pads
- Tools, tool box, operation manual

CB Series

- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" screen
- 50/60 hp Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP350 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- 1.77" X-axes ballscrew, 3.15" Z-axes ballscrew, one piece on 70" to 291" centers, 330" and longer centers, rack with linear scales
- Steel ballscrew cover up to 160" and telescopic ballscrew cover on 200" and longer
- 6 hp X and Z axis servo motor
- Full guarding with interlock, 2 doors on 70 to 173" centers, 3 doors on 212" centers and longer
- Halogen work light • Coolant system
- 3 hp hydraulic pump motor
- Auto lube • 2 centers
- Hardened and ground bed ways
- Hardened and ground gears
- Leveling screws and pads
- Tools, tool box, operation manual

CC Series

- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" screen
- 50/60 hp Fanuc AC spindle drive motor
- Electrical cabinet refrigerator
- Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP450 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- 1.97" X-axes ballscrew, 3.15" Z-axes ballscrew, one piece on 94" to 291" centers, 330" and longer centers, rack with linear scales
- Steel ballscrew cover up to 133" and telescopic ballscrew cover on 173" and longer
- 6 hp X and Z axis servo motor
- Full guarding with interlock, 2 doors on 94" to 173" centers, 3 doors on 212" centers and longer
- Halogen work light • Coolant system
- 3 hp hydraulic pump motor
- Auto lube • 2 centers
- 4 hardened and ground bed ways
- Hardened and ground gears
- Leveling screws and pads
- Tools, tool box, operation manual

CK Series

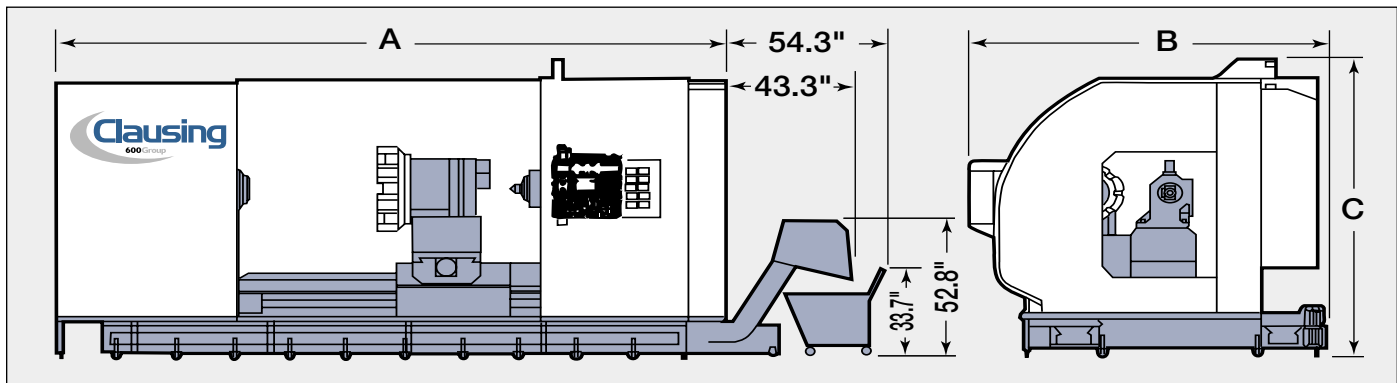
- Fanuc 18 T Control or Fanuc 21i T Teach-in Control with 10.4" screen
- 80/100 hp Fanuc AC spindle drive motor
- Electrical cabinet refrigerator • Spindle oil cooling refrigerator
- 4 speed range, auto change, variable speed spindle drive
- HP450 auto H4, 4 way tool turret
- Front and rear belt type chip conveyor with cart
- Programmable hydraulic tailstock with rotating quill and hydraulic body movement
- 2.36" X-axes ballscrew, 3.93" Z-axes ballscrew, one piece on 82" to 318" centers, 358" and longer centers, rack with linear scales
- Steel ballscrew cover up to 82" and telescopic ballscrew cover on 122" and longer
- 8 hp X axis servo motor
- 11 hp Z axis servo motor
- Full guarding with interlock, 2 doors on 82 to 160" centers, 3 doors on 200" centers and longer
- Halogen work light • Coolant system
- 5 hp hydraulic pump motor
- Auto lube • 2 centers
- 4 hardened and ground bed ways
- Hardened and ground gears
- Leveling screws and pads
- Tools, tool box, operation manual

Spindle Bore & Speed Range

Spindle Bore Size	6.02"	9.05"	10.03"	12.51"	14.17"	16.14"	21.06"	24.02"
Spindle Nose	A2-11	A2-15	A2-15	A2-20	A2-20	A2-28	A2-28	A2-32
Front Spindle Bearing	7.87"	12"	14"	15"	16.12"	19.25"	23.5"	27.5"
Speed Range #1 (rpm)	18-130	16-120	13-95	12-85	10-75	8-50	6-40	4-25
Speed Range #2 (rpm)	35-260	30-200	25-185	23-170	20-150	15-100	12-80	8-50
Speed Range #3 (rpm)	85-550	70-420	60-400	55-300	50-250	35-200	30-180	20-140
Speed Range #4 (rpm)	165-1000	150-700	120-600	110-400	95-350	65-300	50-250	40-220

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Center Distance & Dimensions



CL Series

Center Distance	62"	82"	122"	160"	200"	240"	279"	318"	358"	397"	437"	476"
length A	187"	207"	246"	286"	325"	365"	404"	443"	483"	522"	562"	601"
Overall width B	106"	106"	106"	106"	106"	106"	106"	106"	106"	106"	106"	106"
Height C	99"	99"	99"	99"	99"	99"	99"	99"	99"	99"	99"	99"
Weight in lbs.												
35" swing	27,500	28,600	30,800	33,000	35,200	37,400	39,600	41,800	44,000	46,200	48,400	50,600
40" swing	28,270	29,370	31,570	33,770	35,970	38,170	40,370	42,570	44,770	46,970	49,170	51,370
45" swing	29,040	30,140	32,340	34,540	36,740	38,940	41,140	43,340	45,540	47,740	49,940	52,140
50" swing	29,810	30,910	33,110	35,310	37,510	39,710	41,910	44,110	46,310	48,510	50,710	52,910

CB Series

Center Distance	70"	94"	133"	173"	212"	252"	291"	330"	370"	409"	448"	488"
length A	195"	219"	258"	298"	337"	376"	416"	455"	495"	534"	573"	612"
Overall width B	121"	121"	121"	121"	121"	121"	121"	121"	121"	121"	121"	121"
Height C	120"	120"	120"	120"	120"	120"	120"	120"	120"	120"	120"	120"
Weight in lbs.												
45" swing	33,880	35,640	39,160	42,680	46,200	49,720	53,240	56,760	56,760	63,800	67,320	70,840
50" swing	34,760	36,520	40,040	43,560	47,080	50,600	54,120	57,640	57,640	64,680	68,200	71,720
60" swing	36,520	38,280	41,800	45,320	48,840	52,360	55,880	59,400	59,400	66,440	69,960	73,480
70" swing	38,280	40,040	43,360	47,080	50,600	54,120	57,640	61,160	61,160	68,200	71,720	75,240

CC Series

Center Distance	94"	133"	173"	212"	252"	291"	330"	370"	409"	448"	488"
length A	215"	255"	294"	334"	372"	412"	452"	491"	530"	570"	609"
Overall width B	108"	108"	108"	108"	108"	108"	108"	108"	108"	108"	108"
Height C	102"	102"	102"	102"	102"	102"	102"	102"	102"	102"	102"
Weight in lbs.											
35" swing	45,540	51,040	56,540	62,040	67,540	73,040	78,540	84,040	89,540	95,040	100,540
40" swing	47,740	53,240	58,740	64,240	69,740	75,240	80,740	86,240	91,740	97,240	102,740
45" swing	49,940	55,440	60,940	66,440	71,940	77,440	82,940	88,440	93,940	99,440	104,940
50" swing	52,140	57,640	63,140	68,640	74,140	79,640	85,140	90,640	96,140	101,640	107,140

CK Series

Center Distance	82"	122"	160"	200"	240"	279"	318"	358"	397"	437"	476"
length A	231"	270"	309"	349"	388"	428"	467"	506"	546"	585"	625"
Overall width B	121"	121"	121"	121"	121"	121"	121"	121"	121"	121"	121"
Height C	120"	120"	120"	120"	120"	120"	120"	120"	120"	120"	120"
Weight in lbs.											
50" swing	58,740	67,540	76,340	85,140	93,940	102,740	111,540	120,340	129,140	137,940	146,740
60" swing	62,040	70,840	79,640	88,440	97,240	106,040	114,840	123,640	132,440	141,240	150,040
70" swing	65,340	74,140	82,940	91,740	100,540	109,340	118,140	126,940	135,740	144,540	153,340
80" swing	68,640	77,440	86,240	95,040	103,840	112,640	121,440	130,240	139,040	147,840	156,640

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Optional Equipment

CL Series

- 50/60 spindle drive motor
- Spindle bore up to 14.17" on 35" swing, 16.14" on 40" swing and larger
- Dual chuck adapter
- Small closed steady rest - 1.5" to 15.75"
- Large closed steady rest - 13.8" to 27.56"
- Follower rest
- Hydraulic steady rest
- Linear scale
- Drill attachment for tailstock
- Heavy-duty Baruffaldi TB 320 8 station turret
- Heavy-duty Baruffaldi TB 320 8 station turret with VDI tooling
- Baruffaldi TBMA 320 C-axes live tooling (10/15 hp motor)
- Special order Duplomatic V8 8 station turret
- Special order Duplomatic V8 8 station turret with VDI tooling

CC Series

- Dual chuck adapter
- Spindle bore up to 24.02"
- Small closed steady rest - 1.5" to 15.75"
- Large closed steady rest - 13.8" to 27.56"
- Small open steady rest - 1.5" to 15.75"
- Large open steady rest - 13.8" to 27.56"
- Follower rest
- Hydraulic steady rest
- Linear scale
- Drill attachment for tailstock
- Heavy-duty Baruffaldi TB 320 8 station turret
- Heavy-duty Baruffaldi TB 320 8 station turret with VDI tooling
- Baruffaldi TBMA 320 C-axes live tooling (15/20 hp motor)
- Special order Duplomatic V8 8 station turret
- Special order Duplomatic V8 8 station turret with VDI tooling

CB Series

- Dual chuck adapter
- Spindle bore up to 14.17" on 35" swing, 21.06" on 40" swing and 24.02" on 40" and 50" swing lathes
- Small closed steady rest - 1.5" to 15.75"
- Large closed steady rest - 13.8" to 27.56"
- Follower rest • Hydraulic steady rest
- Linear scale
- Drill attachment for tailstock
- Heavy-duty Baruffaldi TB 320 8 station turret
- Heavy-duty Baruffaldi TB 320 8 station turret with VDI tooling
- Baruffaldi TBMA 320 C-axes live tooling (10/15 hp motor)
- Special order Duplomatic V8 8 station turret
- Special order Duplomatic V8 8 station turret with VDI tooling

CK Series

- Dual chuck adapter
- Spindle bore up to 24.02"
- Small closed steady rest - 1.5" to 15.75"
- Large closed steady rest - 13.8" to 27.56"
- Small open steady rest - 1.5" to 15.75"
- Large open steady rest - 13.8" to 27.56"
- Follower rest
- Hydraulic steady rest
- Linear scale
- Drill attachment for tailstock
- Heavy-duty Baruffaldi TB 320 8 station turret
- Heavy-duty Baruffaldi TB 320 8 station turret with VDI tooling
- Heavy-duty Baruffaldi TB 420 8 station turret
- Baruffaldi TBMA 400 C-axes live tooling (20/25 hp motor)
- Special order Duplomatic V8 8 station turret
- Special order Duplomatic V8 8 station turret with VDI tooling

Due to on going design improvements or customer requirements, design and specifications are subject to change without notice.

Additional "Clausing Large Swing Lathe Machine Profile Survey" forms are available on our web site or can be filled out on our web site:

www.clausing-industrial.com



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