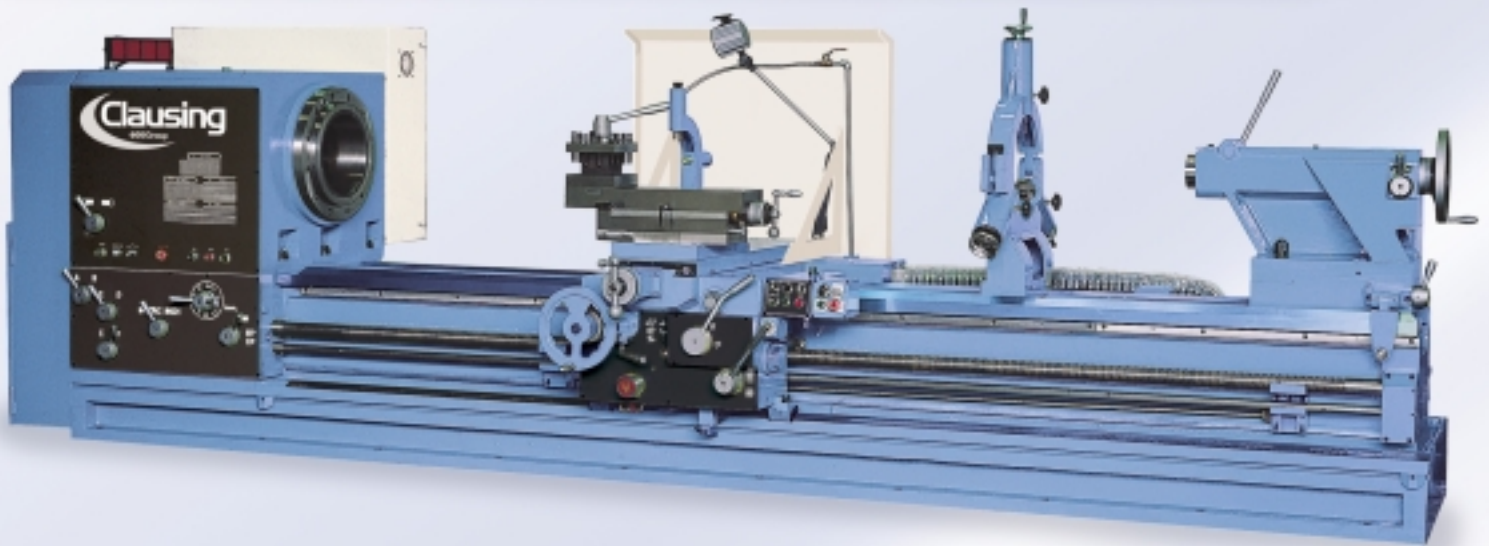
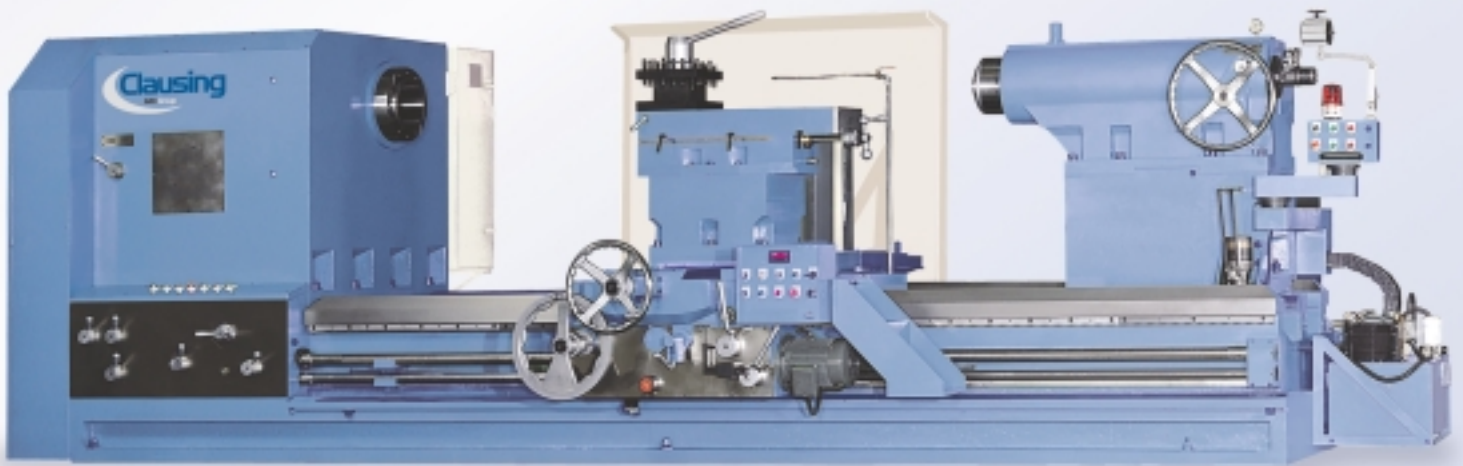


Clausing Lathes

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



- **Standard Swing Range... 35" to 100"**
- **Standard Bore Range... 6" to 24"**
- **Standard Center Distance... 63" to 487 "**

Simply the best

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

Clousing offers Four Series of Lathes which can be ordered with a wide range of Swi

● MA Series

Machining Range...

Capacity

- | | | | | |
|-----------------------------|--------|--------|--------|--------|
| • Swing over bed: | 34.6" | 39.7" | 44.6" | 50" |
| • Swing over cross slide: | 24" | 29" | 34.25" | 39.7" |
| • Swing in gap: | 53" | 57.9" | 63" | 68.5" |
| • Gap width from headstock: | 23.6" | | | |
| • Center height over bed: | 17.3" | 19.85" | 22.3" | 25" |
| • Center height from floor: | 44.07" | 46.67" | 49.12" | 51.77" |
- Center distance: 63" to 476" (see dimension & center distance chart)
 - Maximum weight between centers: 8,800 lbs
 - Maximum weight with steady rest: 11,000 lbs
 - Maximum unsupported weight in chuck: 5,500 lbs
 - Small closed steady rest (optional): 1.5" to 15.75"
 - Large closed steady rest (optional): 13.8" to 27.56"
 - Follower rest (optional): 1.5" to 7"

Bed

- Bed width: 22", with standard auxiliary guides: 25.5"
- Bed height from floor: 26.77"
- 1.97" leadscrew, leadscrew/feed rod support on 122" and longer models

Headstock

- Spindle bore on 34.6" swing: 6" standard, up to 14.17" optional
- Spindle bore on 39.7", 44.6" and 50" swings: 6" standard, up to 16.14" optional
- Spindle nose: A2-11 to A2-28
- Spindle speed range: 18 step manual gear change on 6.9" - 10.03" spindle bore models, 4 range auto change variable speed with CSS on 12.51" and larger spindle bore models (optional on 6.9" - 10.03" spindle bore models)
- Spindle speeds: 8-800 rpm 18 step manual gear box, 4-1000 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 30 hp standard

Carriage

- Cross-slide travel: 26.4" • Compound rest travel: 17.7"
- 4 way, 8 position tool post with T-slots

Tailstock

- Quill diameter: 4.5" • Quill travel: 7.87" • Quill taper: 6MT
- Bearing surface on bed ways: 19.75"
- Manual tailstock with saddle pin body movement

● MB Series

Machining Range...

Capacity

- | | | | | |
|-----------------------------|--------|--------|--------|--------|
| • Swing over bed: | 44.6" | 50" | 60" | 70" |
| • Swing over cross slide: | 31.9" | 37" | 47" | 57" |
| • Swing in gap: | 65" | 70" | 80" | 90" |
| • Gap width from headstock: | 23.6" | | | |
| • Center height over bed: | 22.3" | 25" | 30" | 35" |
| • Center height from floor: | 49.07" | 51.77" | 56.77" | 61.77" |
- Center distance: 69" to 482" (see dimension & center distance chart)
 - Maximum weight between centers: 11,000 lbs
 - Maximum weight with steady rest: 13,200 lbs
 - Maximum unsupported weight in chuck: 6,600 lbs
 - Small closed steady rest (optional): 1.5" to 15.75"
 - Large closed steady rest (optional): 13.8" to 27.56"
 - Follower rest (optional): 1.5" to 7"

Bed

- Bed width: 28", with standard auxiliary guides: 32"
- Bed height from floor: 26.77"
- 1.97" leadscrew, leadscrew/feed rod support on 128" and longer models

Headstock

- Spindle bore: 6" standard, up to 24.02" optional
- Spindle nose: A2-11 to A2-28
- Spindle speed range: 18 step manual gear change on 6" and 9" spindle bore models, 4 range auto change variable speed with CSS on 10.03" and larger spindle bore models (optional on 6" and 9" spindle bore models)
- Spindle speeds: 8-800 rpm 18 step manual gear box, 4-1000 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 40 hp standard

Carriage

- Cross-slide travel: 31.5" • Compound rest travel: 17.7"
- 4 way, 8 position tool post with T-slots

Tailstock

- Quill diameter: 5.7" • Quill travel: 7.87" • Quill taper: 6MT
- Bearing surface on bed ways: 23.5"
- Manual tailstock with saddle pin body movement



Shown with optional steady rests, follower rest and 4 jaw face plate

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

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

ings, Bores, Centers and Spindle Drives... Larger Custom Design Machines Available

● MH Series

Machining Range...

Capacity

- | | | | | |
|-----------------------------|-----|-------|-----|-----|
| • Swing over bed: | 50" | 60" | 70" | 80" |
| • Swing over cross slide: | 35" | 44.7" | 55" | 65" |
| • Center height over bed: | 25" | 30" | 35" | 40" |
| • Center height from floor: | 54" | 59" | 64" | 69" |
- Center distance: 93" to 487" (see dimension & center distance chart)
 - Maximum weight between centers: 17,600 lbs
 - Maximum weight with steady rest: 22,200 lbs
 - Maximum unsupported weight in chuck: 9,900 lbs
 - Small closed steady rest (optional): 1.5" to 15.75"
 - Small open steady rest (optional): 1.5" to 15.75"
 - Large closed steady rest (optional): 13.8" to 27.56"
 - Large open steady rest (optional): 13.8" to 27.56"

Bed

- Bed width: 40", with standard auxiliary guides: 45.7"
- Bed height from floor: 29"
- 1.97" leadscrew, leadscrew/feed rod support on 132" and longer models

Headstock

- Spindle bore: 6" standard, up to 24.02" optional
- Spindle nose: A2-11 to A2-28
- Spindle speed range: 4 auto change variable speed ranges with CSS
- 4-1000 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 50 hp standard

Carriage

- Cross-slide travel: 43.3"
- Compound rest travel: 17.7"
- 4 way, 8 position tool post with T-slots

Tailstock

- Quill diameter: 9.25" • Quill travel: 7.87"
- Quill taper: 6MT
- Bearing surface on bed ways: 26"
- Hydraulic tailstock with rotating quill and hydraulic body movement

● MK Series

Machining Range...

Capacity

- | | | | | |
|-----------------------------|--------|--------|--------|--------|
| • Swing over bed: | 70" | 80" | 90" | 100" |
| • Swing over cross slide: | 53" | 63" | 73" | 82" |
| • Center height over bed: | 35" | 40" | 45" | 50" |
| • Center height from floor: | 49.07" | 51.77" | 56.77" | 61.77" |
- Center distance: 81" to 474" (see dimension & center distance chart)
 - Maximum weight between centers: 33,000 lbs
 - Maximum weight with steady rest: 37,400 lbs
 - Maximum unsupported weight in chuck: 19,800 lbs
 - Small closed steady rest (optional): 1.5" to 15.75"
 - Small open steady rest (optional): 1.5" to 15.75"
 - Large closed steady rest (optional): 13.8" to 27.56"
 - Large open steady rest (optional): 13.8" to 27.56"
 - Extra large closed steady rest (optional): 26.6" to 39.37"
 - Extra large open steady rest (optional): 26.6" to 39.37"

Bed

- Bed width: 47.5", with standard auxiliary guides: 54"
- Bed height from floor: 30"
- 2.36" leadscrew, leadscrew/feed rod support on 120" and longer models

Headstock

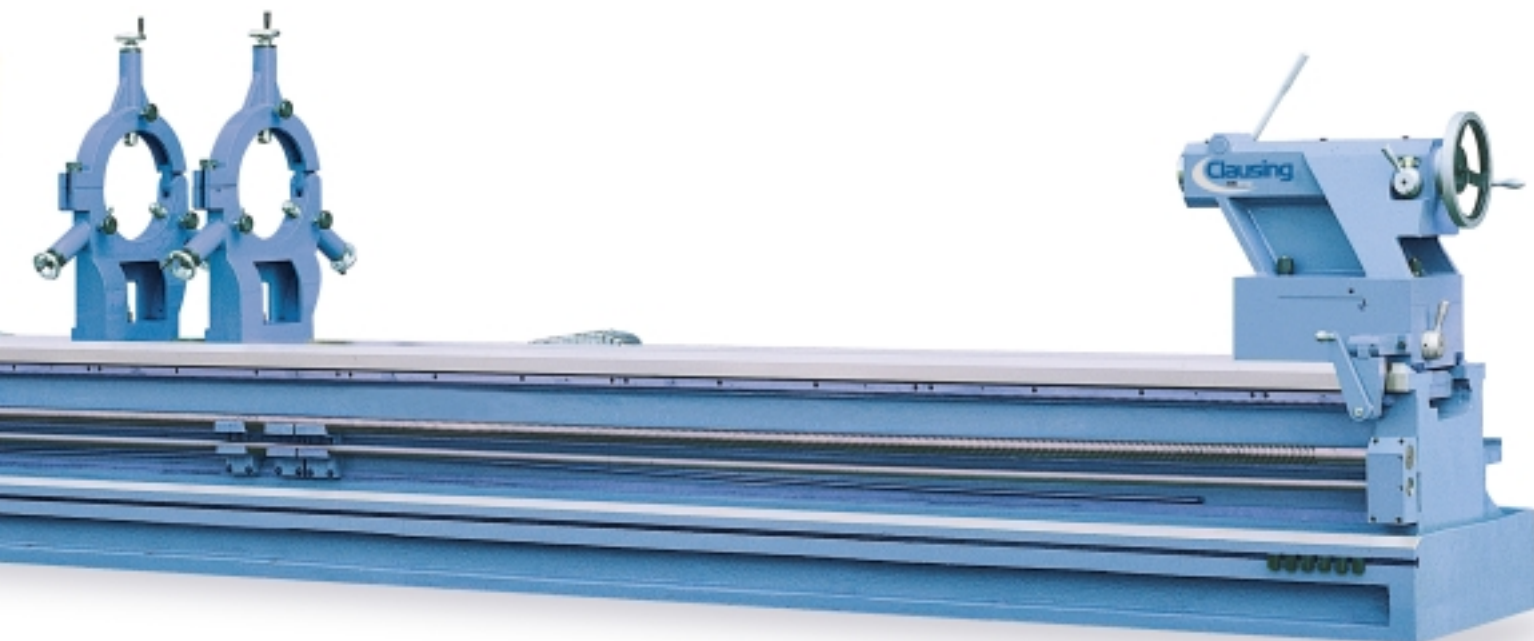
- Spindle bore: 9" standard, up to 24.02" optional
- Spindle nose: A2-15 to A2-28
- Spindle speed range: 4 auto change variable speed ranges with CSS
- 4-700 rpm auto variable speed (see spindle and speed range chart)
- Spindle drive motor: 75 hp standard

Carriage

- Cross-slide travel: 51"
- Compound rest travel: 19.7"
- 4 way, 12 position tool post with T-slots

Tailstock

- Quill diameter: 11" • Quill travel: 10" • Quill taper: 6MT
- Bearing surface on bed ways: 44"
- Hydraulic tailstock with rotating quill and hydraulic body movement



Standard Equipment

MA Series

- Chuck guard with limit switch
- 30 hp motor with star delta start on 6"/9"/10" bore models
- 30 hp motor with inverter variable speed motor on 12" and larger bore models
- 18 step manual gear change on 6"/9"/10" bore models
- 4 range auto change variable speed with CSS on 12" and larger bore models (optional on 6"/9"/10" bore models)
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse • 6 way power feed
- 4 way 8 position tool post with T-slots • 2 dead centers
- 1.97" leadscrew • Leadscrew /feed rod support on 122" and large models
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Manual tailstock with saddle pin body movement and anti slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard • Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box, operation manual

MB Series

- Chuck guard with limit switch
- 40 hp motor with star delta start on 6"/9"/10" bore models
- 40 hp motor with inverter variable speed motor on 12" and larger bore models
- 18 step manual gear change on 6"/9"/10" bore models
- 4 range auto change variable speed with CSS on 12" and larger bore models (optional on 6"/9"/10" bore models)
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse • 6 way power feed
- 4 way 8 position tool post with T-slots • 2 dead centers
- 1.97" leadscrew • Leadscrew /feed rod support on 128" and large models
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Manual tailstock with saddle pin body movement and anti slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard • Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box, operation manual

MH Series

- Chuck guard with limit switch
- 50 hp motor with inverter variable speed motor
- 4 range auto change variable speed with CSS
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse
- 6 way power feed
- 4 way 8 position tool post with T-slots • 2 dead centers
- 1.97" leadscrew • Leadscrew /feed rod support on 132" and large models
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Hydraulic tailstock with with rotating quill, hydraulic movement and anti slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard
- Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box, operation manual

MK Series

- Chuck guard with limit switch
- 75 hp motor with inverter variable speed motor
- 4 range auto change variable speed with CSS
- Auto power off with 2 adjustable position stops
- Mechanical safety device • Lockable main switch
- Electrical cabinet ventilation fans • Electromagnetic spindle brake
- 6 way rapid traverse
- 6 way power feed
- 4 way 12 position tool post with T-slots • 2 dead centers
- 2.36" leadscrew • Leadscrew /feed rod support on 199" and large models
- Steel leadscrew cover • Coolant system • Auto lube
- Thread dial • QIK Threading system and A.P.I. threads
- Hydraulic tailstock with with rotating quill, hydraulic movement and anti slip lock
- Gears and bed ways hardened and ground
- Traveling splash guard
- Built-in air power supply tube
- Halogen work light
- Leveling screws and pads
- Tools, tool box, operation manual

Thread and Feed Range Spindle Bore & Speed Range

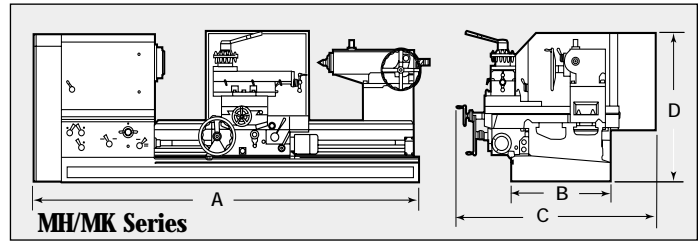
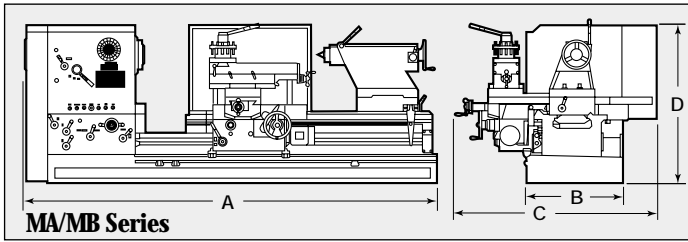
Longitudinal feeds (in/rev)	0.0018-0.1
Cross feeds (in/rev)	0.0009-0.05
Longitudinal rapid feeds (in/min)	80
Cross rapid feeds (in/min)	40
No. of metric threads	60
Range (mm)	1-56
No. of inch threads	60
Range (TPI)	1/2-28
No. of module threads	60
Range (MOD)	0.25-14
No. of diametral pitch threads	60
Range (mm)	2-112
Leadscrew pitch (TPI)	2

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
18 Step Gear Box Spindle Speeds (rpm)	8-11-15-19-25-35-50-68-87-100-120-145-215-320-410-480-620-800							
*Optional 1000 (rpm)	10-15-19-25-31-43-65-85-105-130-150-180-270-400-500-590-780-1000							
*Optional 1200 (rpm)	12-17-23-30-38-52-78-105-130-155-180-215-325-480-610-700-930-1200							

*Optional 1000 and 1200 rpm 18 step gear box require refrigerated electrical cabinet.

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

Center Distance, Dimensions & Weight



MA Series

Center Distance	63"	82"	122"	160"	200"	240"	279"	318"	358"	397"	437"	476"
length A	145"	165"	204"	244"	283"	322"	362"	401"	440"	480"	519"	559"
Base width B	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"	34.6"
Overall width C	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"
Height D	35" swing - 54"			40" swing - 56"			45" swing - 59"		50" swing - 62"			
Weight in lbs.												
35" swing	20,900	22,000	24,200	26,400	28,600	30,800	33,000	35,200	37,400	39,600	41,800	44,000
40" swing	21,670	22,770	24,970	27,170	29,370	31,570	33,770	35,970	38,170	40,370	42,570	44,770
45" swing	22,440	23,540	25,740	27,940	30,140	32,340	34,540	36,740	38,940	41,140	43,340	45,540
50" swing	23,440	24,310	26,510	28,710	30,910	33,110	35,310	37,510	39,710	41,910	44,110	46,310

MB Series

Center Distance	69"	88"	128"	167"	206"	246"	285"	324"	364"	403"	443"	482"
length A	158"	178"	217"	256"	296"	335"	374"	414"	453"	493"	532"	571"
Base width B	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"	37.4"
Overall width C	78"	78"	78"	78"	78"	78"	78"	78"	78"	78"	78"	78"
Height D	45" swing - 62"			50" swing - 64"			60" swing - 69"		70" swing - 74"			
Weight in lbs.												
45" swing	27,280	29,040	32,560	36,080	39,600	43,120	46,640	50,160	53,680	57,200	60,720	64,240
50" swing	28,160	29,920	33,440	36,960	40,480	44,000	47,520	51,040	54,560	58,080	61,600	65,120
60" swing	30,100	31,680	35,200	38,720	42,240	45,760	49,280	52,800	56,320	59,840	63,360	66,880
70" swing	31,680	33,440	36,960	40,480	44,000	47,520	51,040	54,560	58,080	61,600	65,120	68,640

MH Series

Center Distance	93"	132"	172"	210"	250"	290"	329"	368"	408"	447"	487"	
length A	215"	254"	293"	333"	372"	411"	451"	490"	529"	569"	608"	
Base width B	49.6"	49.6"	49.6"	49.6"	49.6"	49.6"	49.6"	49.6"	49.6"	49.6"	49.6"	
Overall width C	105"	105"	105"	105"	105"	105"	105"	105"	105"	105"	105"	
Height D	50" swing - 72"			60" swing - 77"			70" swing - 83"		80" swing - 88"			
Weight in lbs.												
50" swing	36,740	42,240	47,740	53,240	58,740	64,240	69,740	75,240	80,740	86,240	91,740	
60" swing	38,940	44,440	49,940	55,440	60,940	66,440	71,940	77,440	82,940	88,440	93,940	
70" swing	41,140	46,640	52,140	57,640	63,140	68,640	74,140	79,640	85,140	90,640	96,140	
80" swing	43,340	48,840	54,340	59,840	65,340	70,840	76,340	81,840	87,340	92,840	98,340	

MK Series

Center Distance	81"	120"	160"	199"	238"	278"	317"	356"	396"	435"	474"	
length A	215"	254"	293"	333"	372"	411"	451"	490"	529"	569"	608"	
Base width B	57.9"	57.9"	57.9"	57.9"	57.9"	57.9"	57.9"	57.9"	57.9"	57.9"	57.9"	
Overall width C	101"	101"	101"	101"	101"	101"	101"	101"	101"	101"	101"	
Height D	70" swing - 78"			80" swing - 83"			90" swing - 88"		100" swing - 94"			
Weight in lbs.												
70" swing	49,940	58,740	67,540	76,340	85,140	93,940	102,740	111,540	120,340	129,140	137,940	
80" swing	53,240	62,040	70,840	79,640	88,440	97,240	106,040	114,840	123,640	132,440	141,240	
90" swing	56,540	65,340	74,140	82,940	91,740	100,540	109,340	118,140	126,940	135,740	144,540	
100" swing	59,840	68,640	77,440	86,240	95,040	103,840	112,670	121,440	130,240	139,040	147,840	

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

Optional Equipment Larger Swing, Longer Center Custom Models Available

MA Series

- 'CE' Telemecanique electrics
- 40 hp spindle drive motor
- Spindle bore up to 14.17" on 34.6" swing and 16.14" on 39.7" swing and larger
- 4 range auto change variable speed with CSS for 6"/9"/10" bore models
- Dual chuck adapter
- Closed steady rest 1.5" to 15.75"
- Closed steady rest 13.8" to 27.56"
- Follower rest 1.5" to 7"
- Full length rear splash guard
- Full guarding
- Belt chip conveyor with cart
- 30" 4 jaw american type, ground, thick body chuck
- 36" 4 jaw american type, ground, thick body chuck
- 40" 4 jaw english type chuck
- 45" 4 jaw english type chuck
- 50" 4 jaw english type chuck
- Special long jaws
- Taper attachment
- Full length hydraulic profile cutting system including semi-auto threading
- Full length tracer
- Semi-auto threading • Micro stop

MB Series

- 'CE' Telemecanique electrics
- 50 hp spindle drive motor
- Spindle bore up to 24.02"
- 4 range auto change variable speed with CSS for 6"/9"/10" bore models
- Dual chuck adapter
- Closed steady rest 1.5" to 15.75"
- Closed steady rest 13.8" to 27.56"
- Follower rest 1.5" to 7"
- Full length rear splash guard
- Full guarding
- Belt chip conveyor with cart
- 30" 4 jaw american type, ground, thick body chuck
- 36" 4 jaw american type, ground, thick body chuck
- 40" 4 jaw english type chuck
- 45" 4 jaw english type chuck
- 50" 4 jaw english type chuck
- Special long jaws
- Taper attachment
- Full length hydraulic profile cutting system including semi-auto threading
- Full length tracer
- Semi-auto threading • Micro stop

MH Series

- 'CE' Telemecanique electrics
- 75 hp spindle drive motor
- Spindle bore up to 24.02"
- Dual chuck adapter
- Closed steady rest 1.5" to 15.75"
- Closed steady rest 13.8" to 27.56"
- Open steady rest 1.5" to 15.75"
- Open steady rest 13.8" to 27.56"
- Full length rear splash guard • Full guarding
- Belt chip conveyor with cart
- 40" 4 jaw ground, thick steel body chuck - A2-15
- 46" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 50" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 60" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 70" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 80" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 30" 4 jaw american type, ground, thick body chuck
- 36" 4 jaw american type, ground, thick body chuck
- 40" 4 jaw english type chuck
- 45" 4 jaw english type chuck
- 50" 4 jaw english type chuck
- Special long jaws
- Taper attachment
- Full length hydraulic profile cutting system including semi-auto threading
- Full length tracer
- Semi-auto threading • Micro stop

MK Series

- 'CE' Telemecanique electrics
- 100 hp spindle drive motor
- Spindle bore up to 24.02"
- Dual chuck adapter
- Closed steady rest 1.5" to 15.75" • Closed steady rest 13.8" to 27.56"
- Closed steady rest 23.6" to 39.37"
- Open steady rest 1.5" to 15.75" • Open steady rest 13.8" to 27.56"
- Open steady rest 23.6" to 39.37"
- Full length rear splash guard • Full guarding
- Belt chip conveyor with cart
- 40" 4 jaw ground, thick steel body chuck - A2-15
- 46" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 50" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 60" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 70" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 80" 4 jaw ground, thick steel body chuck - A2-15 to A2-28
- 50" 4 jaw english type chuck - A2-15 to A2-28
- 55" 4 jaw english type chuck - A2-15 to A2-28
- 60" 4 jaw english type chuck - A2-15 to A2-28
- 70" 4 jaw english type chuck - A2-15 to A2-28
- 80" 4 jaw english type chuck - A2-15 to A2-28
- 90" 4 jaw english type chuck - A2-15 to A2-28
- 100" 4 jaw english type chuck - A2-15 to A2-28
- Special long jaws • Taper attachment
- Full length hydraulic profile cutting system including semi-auto threading
- Full length tracer • Semi-auto threading • Micro stop

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

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

www.clousing-industrial.com



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