Providing Machines Worldwide Since 1979

Founded in 1979, Kent Industrial USA, Inc. specializes in serving the needs of its clients in the machine tools industry. From our early model surface grinders to the latest, most advanced range of CNC equipment in grinding, milling, turning, and EDMs, we continue to offer top-quality machinery at competitive prices with superior service and support to our clients.

Our mission is to help machine shops and manufacturing facilities improve and maximize their efficiency and profitability. Our highest priority is to provide top-quality, precision machines to ensure long-term performance and productivity for our clients.
We stock a wide range of surface grinders, milling machines, CNC knee mills, CNC vertical and horizontal machining centers, lathes, CNC lathes, and CNC EDM machines for immediate delivery.

▶ HEAVY DUTY TYPE

MANUAL LATHE | LA | A

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Feature and Advantage

- ***Super rigid for heavy cutting design***
- ***One piece meehanite casting***
- ***User-friendly operation***
- ***Big bore loading capacity***
- ***Between centers 1500-7000mm***

Swing over bed

520 mm (30') / 620 mm (34')
720 mm (38')

X-axis traverse

1500 mm / 2000 mm
3000 mm / 4000 mm / 5000 mm

Spindle bore

4" (Ø105 mm) / 6" (Ø153 mm)
9" (Ø230 mm) / 12" (Ø305 mm)

Spindle motor

4PX20HP (STD) / 4PX30HP (OPT)

LA SERIES ▶

All gears and spindle shafts are precisely hardened and ground to HRC 45~50, gears and box are protected by lubrication and a built-in safety device.

The headstock is a high steel cage structure, uses Meehanite cast-iron, annealing treated to ensure spindle concentricity and the parallellims of the bearings.

Uses double taper roller bearings, heavy loading taper bearings which are durable for heavy workpiece and are able to maintain high accuracy.

Especially for meeting the demands of high torque, the transmitting gears in the headstock use a moduleM3 & M4 design and special alloyed steel is used as the material. After micro-alloy treatment they are precisely ground to JIS 1 class precision.

◀ **A** SERIES

Swing over bed

750 mm (42') / 900 mm (48')

X-axis traverse

1500 mm / 2000 mm / 3000 mm
4000 mm / 5000 mm / 6000 mm
7000 mm

Spindle bore

6" (Ø153 mm) / 9" (Ø230 mm)
12" (Ø305 mm) / 16" (Ø405 mm) /

Spindle motor

4PX30HP (STD)

Features

Headstock and Operational Panel

- 1.Rigid one piece casting design to heavy cutting.
- 2.Spindle is supported by high precise taper roller bearings.
- 3.Electro-magnetic brake.
- 4.18-step speeds provide high torque and excellent cutting conditions.
- 5.An auto-lubrication system is equipped for headstock gears and spindle.

Apron and Carriage

- The cross slide uses a ballscrew.
- Rapid traverse is included.
- Friction is reduced because the cross slide and carriage are covered with Turcite B.
- The bed way and cross slide have an automatic lubrication system.
- Exceptional durability is assured as the gears in the apron are nitrite treated
- Digital readout is available.

Tailstock

- The tailstock accommodates a MT#6 live center.
- Ø125 mm quill diameter can hold workpiece firmly.workpieces.

Double Chucks (opt.)

- Long workpiece turning stability is achieved by utilizing a second chuck at the rear of the spindle.

Bed

- Every Lathe longer than 4M, laser inspection is performed to maintain linearity.
- The hardened bed provides excellent accuracy, stability and rigidity.

"Single piece MEENHANITE" cast-iron, through stress relieving
Induction heating treated to HRC 50~55
Precisely ground for excellent accuracy

Gear Box

- All shafts and gears are hardened and ground to HRC 45±2.
- The universal gear and box are protected by lubrication and a built-in safety device.
- By simply changing the levers, a wide range of feeds and threads can be easily changed.

LA 30 x 3000, Spindle bore max Ø305mm(12")

Features

Headstock and Operational Panel

- Rigid one piece casting design for heavy cutting.
- Gears and spline shafts are hardened and ground.
- Spindle is supported by high precision taper roller bearings.
- Electro-magnetic brake.
- 18-step speeds provide high torque and excellent cutting conditions.

Apron and Carriage

- The cross slide uses a ballscrew.
- Rapid traverse is included.
- Friction is reduced because the cross slide and carriage are covered with Turcite B.
- The bed way and cross slide have an automatic lubrication system.
- Exceptional durability is assured as the gears in the apron are nitrite treated.
- Digital readout is available.

Tailstock

Quill Diameter :
165mm: provides excellent support for heavy workpieces.

Quill Movement Type :
a. Manual: controlled by the hand wheel.
b. Electric & Manual: Switch by lever easily (opt).

Body Movement :
a. Manually by crank (std).
b. Motorized by reduction motor.

Hydraulic disk brake (opt.)

- 2 sets of hydraulic brake units, to
- stop spindle quickly.

To eliminate the initial of heavy work piece, extend the life of gears in head-stock.

Double Chucks (opt.)

- Long workpiece turning
  Stability is achieved by utilizing a second chuck at the rear of the spindle.

Bed

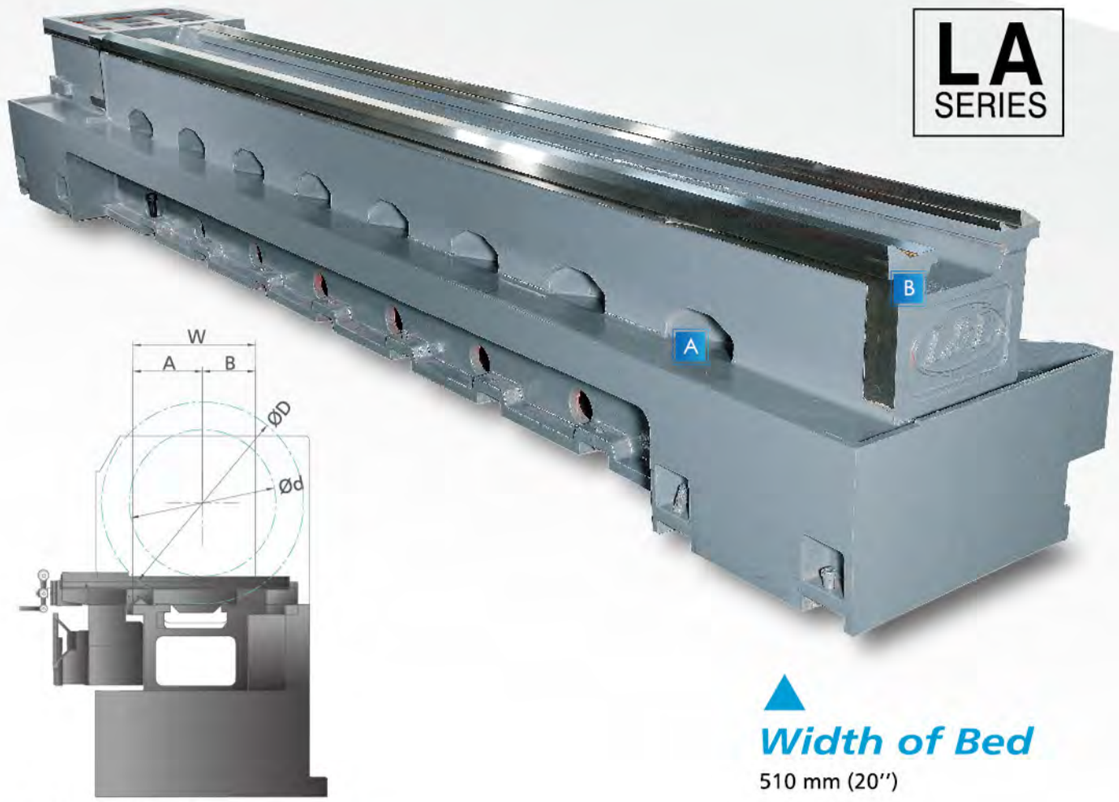
- Single piece ''MEENHANITE'' cast-iron, thorough stress relieving.
- Induction heating treated to HRC 50~55.
- Precisely ground for excellent accuracy.

Gear Box

- All shafts and gears are hardened and ground to HRC 45±2.
- The universal gear and box are protected by lubrication and a built-in safety device.
- By simply changing the levers, a wide range ig feeds and threads can be easily changed.

A 42 x 5000, Spindle bore max Ø405mm(16")

One-piece Fabricated Bed

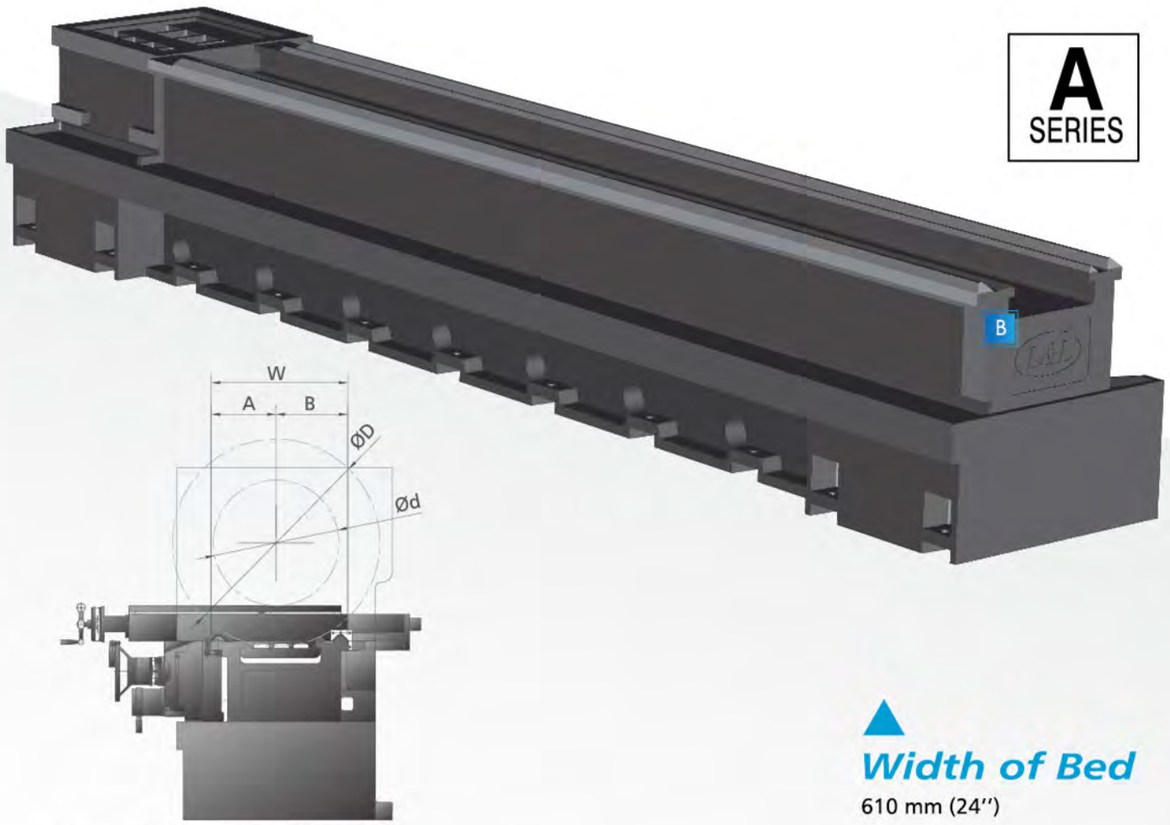


Width of Bed

510 mm (20")

Perfect Ratio of Bed Width to Swing over Cross Slide >0.5

	LA30	LA34	LA38
Swing over bed(D)	770	870	970
Swing over cross slide(d)	520	620	720
A	290		
B	220		
W	510		



Width of Bed

610 mm (24")

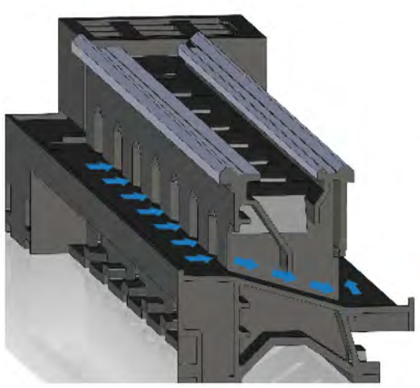
Perfect Ratio of Bed Width to Swing over Cross Slide >0.5

	A42	A48
Swing over bed(D)	1100	1250
Swing over cross slide(d)	540	625
A	290	
B	320	
W	610	

A

Dust Removing Hole

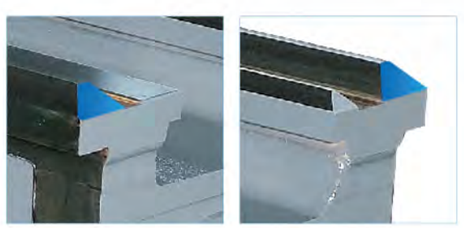
The dust removing hole in the bed allows chips to be delivered to the chip conveyor, located at the rear side of the machine.



B

Triple "V" and Flat Bedways

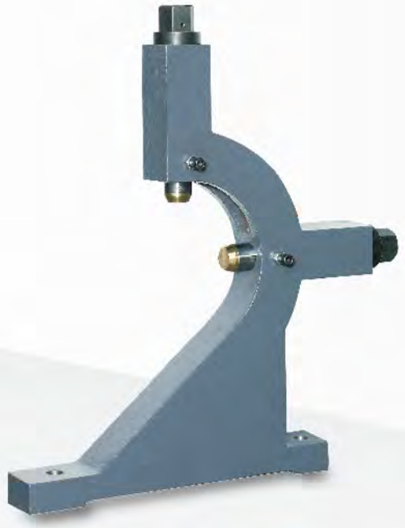
The bed is designed with triple "V" and one flat slideway to increase machining dependability and more high precision.



Accessories

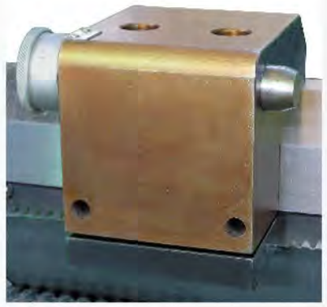
Steady Rest with 3-roller Jaws

- Clamping capacity from Ø30-300 mm; Ø80 mm quill
- Clamping capacity from Ø255-455 mm; Ø80 mm quill
- Clamping capacity from Ø280-550 mm; Ø105 mm quill

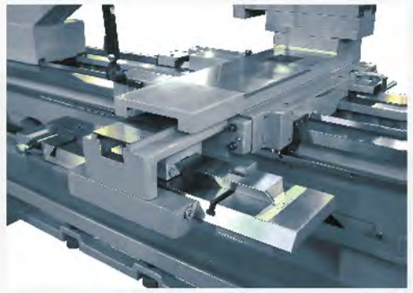


Follow Rest

- Clamping capacity from Ø30-230 mm



Micro Stop



Taper Attachment

- ±10 degree strove 470 mm

Quick Change Tool Post

- Flat type quick change tool holder x 2
- V-type quick change tool holder x2
- Ø50 mm boring tool holder x2

Boring Attachment

- Boring bar diameter: 6"
- Length: 1200 mm / 1500 mm
- Tool size: 32 mm
- Sleeve: Ø50 mm~ Ø120 mm for option

Roller Bracket

- Clamping capacity from 355-720 mm

American 4-jaw Chuck

- 20", 25", 32", 36" 40" for option

American 3-jaw Chuck

- 12", 15", 18", 21", 24", 32", 40"

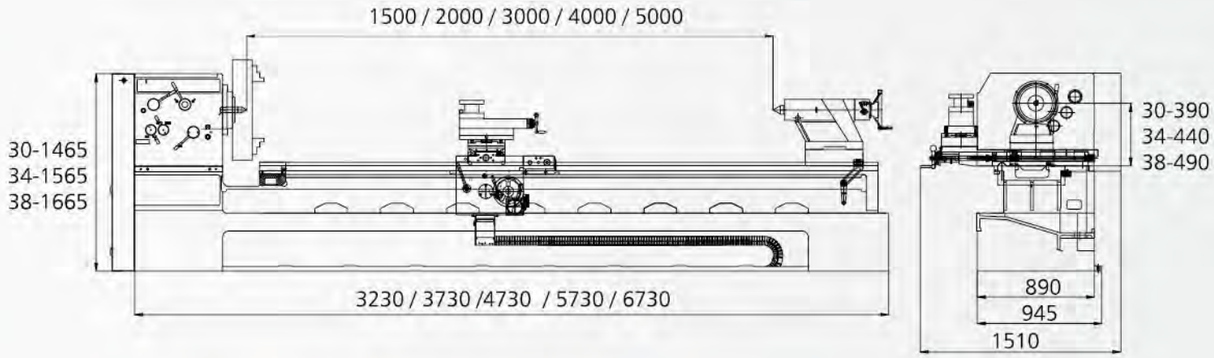
Chuck Adapter

Specifications

LA SERIES

MODEL		LA 30	LA 34	LA 38
Swing Over Bed		770 mm (30")	870 mm (34")	970 mm (38")
Swing Over Cross Slide		520 mm	620 mm	720 mm
Swing Over Gap		1070 mm	1170 mm	1270 mm
Center Height		390 mm	440 mm	490 mm
Width Of Carriage		750 mm (Dovetail Slide)		
Width Of Cross Slide		280 mm		
Width Of Bed		510 mm (20")		
Bed Way		3 V Way With 1 Flat Way		
HEADSTOCK				
Spindle Bore		4" (Ø105 mm)	6" (Ø153 mm)	9" (Ø230 mm) / 12" (Ø305 mm)
Spindle Nose		A2-8	A2-11	A2-15 / A2-20
Spindle Speed		10~1250 rpm	5~670 rpm	4~500 rpm / 4~440 rpm
Spindle Power	STD.	4p X 20 Hp		
	OPT.	4p X 30 Hp		
Spindle Center		MT#5		MT#6
TURRET				
Turret Model		4 Way Tool Post		
Tool Size		32 mm (1-1/4")		
Compound Slide Storke		300 mm		
TAILSTOCK				
Quill Diameter		Std.: 125 mm (Opt.: 165 mm)		
Quill Stroke		Std.: 150 mm (Opt.: 200 mm)		
Tailstock Center		MT#6		
Body Movement		Std.: By Carriage (Opt.: Motorized)		
Quill Movement		Std.: By Hand Wheel (Opt.: Motorized)		
FEED				
X-axis Rapid Traverse		1500 mm/min		
X-axis Feed Range		Ipr: 0.0016" ~ 0.048" / Mpr: 0.04 mm ~ 1.2 mm		
X-axis Stroke		500 mm		
Z-axis Rapid Traverse		3000 mm/min		
Z-axis Feed Range		Ipr: 0.0032" ~ 0.096" / Mpr: 0.08 mm ~ 2.4 mm		
Z-axis Traverse		1500mm / 2000mm /3000mm /4000mm / 5000mm		
THREADING				
Inch		30 ~ 0.25 Tpi (70 Sets)		
Metric		1 ~ 120 mm (60 Sets)		
Mp		30 ~ 0.25 Tpi (53 Sets)		
Dp		1 - 120 mm (70 Sets)		

Dimensional Drawing



Machine Dimensions & Weight

	Between center	1500	2000	3000
LA30	L x W x H (mm)	3230 x 1100 x 1465	3730 x 1100 x 1465	4730 x 1100 x 1465
	N.W / G.W (KG)	4939 / 5939	5939 / 7439	6939 / 8939
LA34	L x W x H (mm)	3230 x 1100 x 1565	3730 x 1100 x 1565	4730 x 1100 x 1565
	N.W / G.W (KG)	5239 / 6239	6239 / 7739	7239 / 9239
LA38	L x W x H (mm)	3230 x 1300 x 1665	3730 x 1300 x 1665	4730 x 1300 x 1665
	N.W / G.W (KG)	5539 / 6539	6539 / 8039	7539 / 9539

	Between center	4000	5000
LA30	L x W x H (mm)	5730 x 1100 x 1465	6730 x 1100 x 1465
	N.W / G.W (KG)	7939 / 10439	8939 / 11939
LA34	L x W x H (mm)	6730 x 1100 x 1565	7730 x 1100 x 1565
	N.W / G.W (KG)	8239 / 10739	9239 / 12239
LA38	L x W x H (mm)	5730 x 1300 x 1665	6730 x 1300 x 1665
	N.W / G.W (KG)	8539 / 10439	10489 / 13489

Loading Capacity

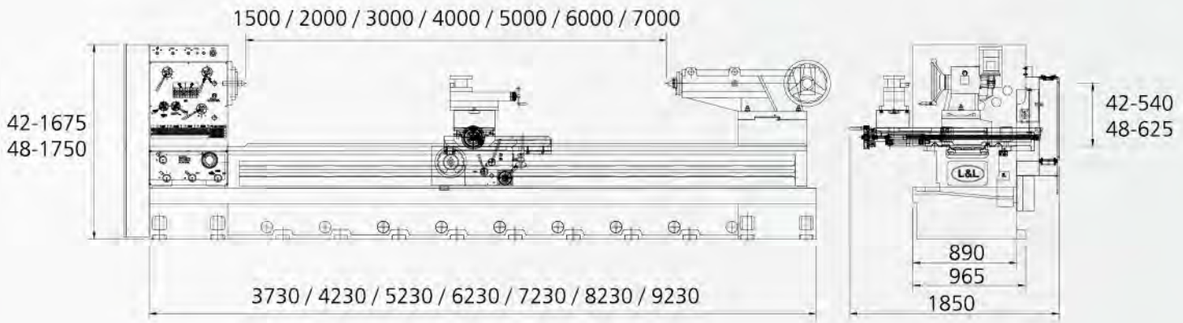
Model	LA	LA	LA	LA
Spindle Bore	4" A2-8	6" A2-11	9" A2-15	12" A2-20
Tailstock Quill Diameter	125 mm	125 mm	125 mm	125 mm
Max. Load With 1 Chuck Only	1000 kgs	2200 kgs	2400 kgs	2600 kgs
Max. Load Between Centers	4000 kgs	5000 kgs	5500 kgs	7000 kgs
Max. Load Between Centers Plus 1 Steady Rest	4500 kgs	6000 kgs	6500 kgs	7000 kgs
Max. Load Between Centers Plus 2 Steady Rest	5500 kgs	7000 kgs	7500 kgs	8500 kgs

Specifications

A SERIES

MODEL	A 42		A 48	
Swing Over Bed	1100 mm (42")		1250 mm (48")	
Swing Over Cross Slide	750 mm		900 mm	
Swing Over Gap	540 mm		625 mm	
Center Height				
Width Of Carriage	915 mm (Dovetail Slide)			
Width Of Cross Slide	350 mm			
Width Of Bed	610 mm (24")			
Bed Way	3 V Way With 1 Flat Way			
HEADSTOCK				
Spindle Bore	6" (Ø153 mm)	9" (Ø230 mm)	12" (Ø305 mm)	16" (Ø405 mm)
Spindle Nose	A2 - 11	A2 - 15	A2 - 20	A2 - 28
Spindle Speed	7 ~ 700 rpm	7 ~ 600 rpm	5 ~ 450 rpm	5 ~ 300 rpm
Spindle Power	Ac30hp X 4p			
Spindle Center	MT#5		MT#6	
TURRET				
Turret Model	4 Way Tool Post			
Tool Size	32 mm (1 - 1/4")			
Compound Slide Storke	300 mm			
TAILSTOCK				
Quill Diameter	Std.: 165 mm			
Quill Stroke	Std.: 200 mm			
Tailstock Center	Mt#6			
Body Movement	Std.: By Carriage (Opt.: Motorized)			
Quill Movement	Std.: By Hand Wheel (Opt.: Motorized)			
FEED				
X-axis Rapid Traverse	1500 mm/min			
X-axis Feed Range	Ipr: 0.0016" ~ 0.048" / Mpr: 0.04 mm ~ 1.2 mm			
X-axis Stroke	500 mm			
Z-axis Rapid Traverse	3000 mm/min			
Z-axis Feed Range	Ipr: 0.0032" ~0.096" / Mpr: 0.08 mm~2.4 mm			
Z-axis Traverse	1500 mm /2000 mm / 3000 mm / 4000 mm / 5000 mm / 6000 mm / 7000 mm			
THREADING				
Inch	30 ~ 0.25 tpi (70 Sets)			
Metric	1 ~ 120 mm (60 Sets)			
Mp	30 ~ 0.25 tpi (53 Sets)			
Dp	1 - 120 mm (70 Sets)			

Dimensional Drawing



Machine Dimensions & Weight

	Between center	1500	2000	3000	4000
A 42	L x W x H (mm)	3730 x 1850 x 1675	4230 x 1850 x 1675	5230 x 1850 x 1675	6230 x 1850 x 1675
	N.W / G.W (KG)	6800 / 7800	7800 / 8800	8300 / 10500	10800 / 12200
A 48	L x W x H (mm)	3730 x 1850 x 1750	4230 x 1850 x 1750	5230 x 1850 x 1750	6230 x 1850 x 1750
	N.W / G.W (KG)	7300 / 8300	8300 / 9300	9300 / 11000	11300 / 12700

	Between center	5000	6000	7000
A 42	L x W x H (mm)	3730 x 1850 x 1675	4230 x 1850 x 1675	5230 x 1850 x 1675
	N.W / G.W (KG)	6800 / 7800	7800 / 8800	8300 / 10500
A 48	L x W x H (mm)	3730 x 1850 x 1750	4230 x 1850 x 1750	5230 x 1850 x 1750
	N.W / G.W (KG)	12500 / 14300	14300 / 15900	15800 / 17600

Loading Capacity

Model	A	A	A	A
Spindle Bore	6" A2-11	9" A2-15	12" A2-20	16" A2-28
Tailstock Quill Diameter	165 mm	165 mm	165 mm	165 mm
Max. Load With 1 Chuck Only	2200 kgs	2400 kgs	2600 kgs	2800 kgs
Max. Load Between Centers	7000 kgs	8000 kgs	9000 kgs	9500 kgs
Max. Load Between Centers Plus 1 Steady Rest	8000 kgs	9000 kgs	10000 kgs	10500 kgs
Max. Load Between Centers Plus 2 Steady Rest	9000 kgs	10000 kgs	11000 kgs	11500 kgs