

Conventional Horizontal Lathes

Sinus 400/1500 D

SKU : 490012

Sinus D is the largest series in the universal lathes segment. The construction follows a classic design but is based on a heavy, one-piece cast machine bed. As with heavy-duty lathes, the frictional connection between the motor and the spindle takes place via a manual multi-disc clutch. With integrated functions such as the removable bed bridge, and rapid traverse, this series offers optional solutions for machining long workpieces or large flanges.

- One-piece heavy-duty cast bed for increased rigidity
- Sturdy headstock design with large spindle bearings
- Rapid feed on 2 axes for fast positioning
- Well-designed safety functions



TECHNICAL SPECS

WORKING AREA

Workpiece length (max.)	59 in
Turning diameter over bed	31 in
Turning-Ø over support	22 in
Turning diameter without gap bridge	41 in
Gap bridge length	13 in
Bed width	16 in

TRAVELS

Travel X-axis	16.5 in
Travel Z1-axis	9 in
Swing range of top slide	70°

HEADSTOCK

Spindle speed	25 rpm - 1600 rpm
Spindle bore	4.1 in
Spindle mount	D1-8
Spindle taper	5 MT

RAPID FEED

Rapid feed X-axis	78.74 in/min
Rapid feed Z-axis	157.48 in/min

FEED

Feed X-axis	0.00087 in/R - 0.02913 in/R
Feed Z-axis	0.00173 in/R - 0.05827 in/R

THREADING

Threading, metric	0.45 mm - 120 mm
Threading, diametric	0.88 DP - 160 DP
Threading, module	0.25 mm - 60 mm
Threading, whitworth	(54) 7/16 - 80 TPI

TAILSTOCK

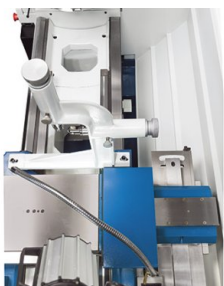
Tailstock quill diameter	4 in
Tailstock taper	5 MT
Tailstock quill stroke	9 in
Tailstock traverse adjustment	± 11 in

DRIVE CAPACITY

Motor rating main drive	10.1 Hp
-------------------------	---------

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	128 in x 45 in x 76 in
Weight	7084 lbs



PRODUCT DETAILS

- Removable bridge for machining of large parts
- High accuracy and low-noise operation even at high cutting power
- Heavy and large bed
- Hardened guide ways (>HB 400)
- 4 inch spindle capacity for machining of large parts
- Manual central lubrication
- Clutch for soft startup with heavy parts
- Automatic lubrication of headstock and main drive
- Protected lead screw
- Overload protection for feed shaft and lead screw
- Support moves in linear and cross directions via rapid feed

CONTROLS & SOFTWARE

3-axis position indicator X.Pos 3.2

- Integrating multiple functions, this new generation of 3 axis digital readouts significantly offer a much better control over the machining processes, greatly decreasing down-times and error rates
- It features a totally sealed enclosure made of high quality polyester film which protects it against hazardous environments in shop floors, such as dust or fumes and offers excellent chemical resistance to most commonly used industry solvents
- Optical Scales: 5 μ m resolution (0.000197") with outside cover from aluminum for protection against oil, coolant and chips

Basic Functions

- Resolution of 0.000197"
- Spindle control ON/OFF
- Unit measurement conversion Inch / Metric
- Setting / Resetting current position
- Coordinate display switching ABS / INC
- Radius / Diameter display
- Z1/Z2 Axes summing
- Pocket calculator functions

Extended Functions

- Axis position is maintained when display is turned off
- Hole circle pattern calculation
- Radius / diameter toggle
- Reference function for tool gauging
- Taper turning function

STANDARD EQUIPMENT

- 3-jaw chuck \varnothing 12 inch
- Operator instructions
- Dead center
- Chuck guard
- Reducing sleeve
- Quick tool changer head WD
- Fixed splash guard (wall)
- Quick change tool holder WD1D 40180
- 3-axis position indicator X.Pos 3.2
- Toolbox with operating tools
- Coolant system
- Steady and follow rests
- LED Work light
- Rapid feed on Z and X axes