Conventional Horizontal Lathes Sinus 400/3000 D

## SKU : 300014

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, rapid traverse and a taper turning device, 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
- Taper turning attachment for additional applications
- Well-designed safety functions


## TECHNICAL SPECS

## WORKING AREA

| Workpiece length (max.) | 3000 mm |
| :--- | :--- |
| Turning diameter over bed | 800 mm |
| Turning- $\varnothing$ over support | 570 mm |
| Turning diameter without <br> gap bridge | 1035 mm |
| Gap bridge length | 330 mm |
| Bed width | 400 mm |

TRAVELS

| Travel X-axis | 420 mm |
| :--- | :--- |
| Travel Z1-axis | 230 mm |
| Swing range of top slide | $70^{\circ}$ |

HEADSTOCK

| Spindle speed | $251 / \mathrm{min}-16001 / \mathrm{min}$ |
| :--- | :--- |
| Spindle bore | 105 mm |
| Spindle mount | D1-8 |
| Spindle taper | 5 MT |

## RAPID FEED

| Rapid feed X-axis | $2000 \mathrm{~mm} / \mathrm{min}$ |
| :--- | :--- |
| Rapid feed Z-axis | $4000 \mathrm{~mm} / \mathrm{min}$ |


| FEED |  |
| :--- | :--- |
| Feed X-axis | $0.022 \mathrm{~mm} / \mathrm{R}-0.74 \mathrm{~mm} / \mathrm{R}$ |
| Feed Z-axis | $0.044 \mathrm{~mm} / \mathrm{R}-1.48 \mathrm{~mm} / \mathrm{R}$ |
| THREADING |  |
| Threading, metric | $0.45 \mathrm{~mm}-120 \mathrm{~mm}$ |
| Threading, diametric | $0.88 \mathrm{DP}-160 \mathrm{DP}$ |
| Threading, module | $0.25 \mathrm{~mm}-60 \mathrm{~mm}$ |
| Threading, whitworth | $(54) 7 / 16-80 \mathrm{TPI}$ |
| TAILSTOCK |  |
| Tailstock quill diameter | 90 mm |
| Tailstock taper | 5 MT |
| Tailstock quill stroke | 235 mm |
| Tailstock traverse <br> adjustment | $\pm 11 \mathrm{~mm}$ |
| DRIVE CAPACITY | 7.5 kW |
| Motor rating main drive |  |
| MEASURES AND WEIGHTS  <br> Overall dimensions <br> (length $\times$ width $\times$ height) $4.74 \mathrm{~m} \times 1.14 \mathrm{~m} \times 1.91 \mathrm{~m}$ <br> Weight 3870 kg |  |



Rests ensure maximum precision when machining long workpieces


- 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 enviroments in shop floors, such as dust or fumes and offers excellent chemical resistance to most commonly used industry solvents
- The optical scales provide 5 micron resolution ( 0.005 mm ) with outside cover from aluminum for protection against oil, coolant and chips.


## Basic Functions

- Resolution of 0,005 mm
- Spindle control ON/OFF
- Unit measurement conversion Inch / Metric
- Setting / Reseting 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

Rapid feed on Z and X axes
3 -axis position indicator X.Pos 3.2
3-jaw chuck Ø 315 mm
4-jaw face plate chuck Ø 400 mm
Face plate Ø 500 mm
Dog plate
Quick tool changer head WD
Quick change tool holder WD1D 40180
Fixed splash guard (wall)
Coolant system
Steady and follow rests
Taper turning unit
Chuck guard
LED Work light
Reducing sleeve
Dead center
Toolbox with operating tools
Operator instructions

