



Large Spindle Bore for Oil Country

## *Heavy duty lathe*



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MYDAY MACHINERY INC.

# Company profile

Since Chen brothers founded the company in 1980s, we have been committed to creating and providing the most cost effective (maximum functionality at the minimum cost) products and services to the whole world. We are a professional manufacturer in Heavy Duty Lathes & CNC Lathes.

We have a strong R&D department which can accept customer's special requirement. We emphasize pursuit of excellence and customer satisfaction rather than growth in revenue and profit.

Because of our concentration on technology, MYDAY has become an extraordinary professional manufacturer for Heavy Duty Lathes (both CNC and conventional) in Taiwan, and has won much public praise in the oil field and metal industry.



- Founded in 1980s
- Total area : 6000 m<sup>2</sup>
- Capability : 300 units / per year



## Introduction of model name

Model name	<b>3A -</b>	<b>XX</b>	<b>000</b>	<b>B□</b>
MEANING	CONVENTIONAL LATHE	SWING OVER BED	DISTANCE BETWEEN CENTERS	SPINDLE BORE
EXAMPLE	<b>3A-30160 B3</b>			

## HEAVY DUTY PRECISION LATHE

16"  
3A-2480 B3



18"  
3A-W30120 B6



### 16" 18" STANDARD ACCESSORIES

- ◆ Main Motor
- ◆ Auto Lubrication System
- ◆ Coolant System
- ◆ 4-Way Tool Post
- ◆ Leveling Bolts & Pads
- ◆ Main Spindle Sleeve
- ◆ Main Spindle Center
- ◆ Tailstock Center
- ◆ Meter / Inch Community Gear Box
- ◆ Tool Box with Tools
- ◆ Independent Electrical Box
- ◆ Operation & Service Manual
- ◆ X, Z Axes Rapid Traverse (for 18")

### 16" 18" OPTIONAL ACCESSORIES

- ◆ 3-jaw chuck
- ◆ 4-jaw chuck
- ◆ Face plate
- ◆ Double chuck system
- ◆ Steady rest
- ◆ Follow rest
- ◆ Rear tool post
- ◆ Micro bed stopper
- ◆ Taper attachment
- ◆ Quick change tool post
- ◆ Digital readout
- ◆ Rotary center
- ◆ Electrical system for CE
- ◆ Splash guard
- ◆ Work light
- ◆ X, Z Axes Rapid Traverse (for 16")

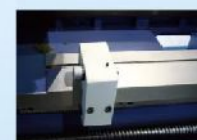
※ 16" and 18" are based on bed width.



follow rest



Powerful apron. Carriage with rapid traverse & controls.



micro-meter bed stopper



quick change toolpost

# OIL COUNTRY LATHE

# HEAVY DUTY OIL COUNTRY LATHE

22"

3A-42120 B12



32"

3A-47200 B9



The 3rd rail (auxiliary guideway) enhances the cutting force. Longitudinal Stop Device



Steady Rest



6-Way Rapid Traverse



Double Chuck

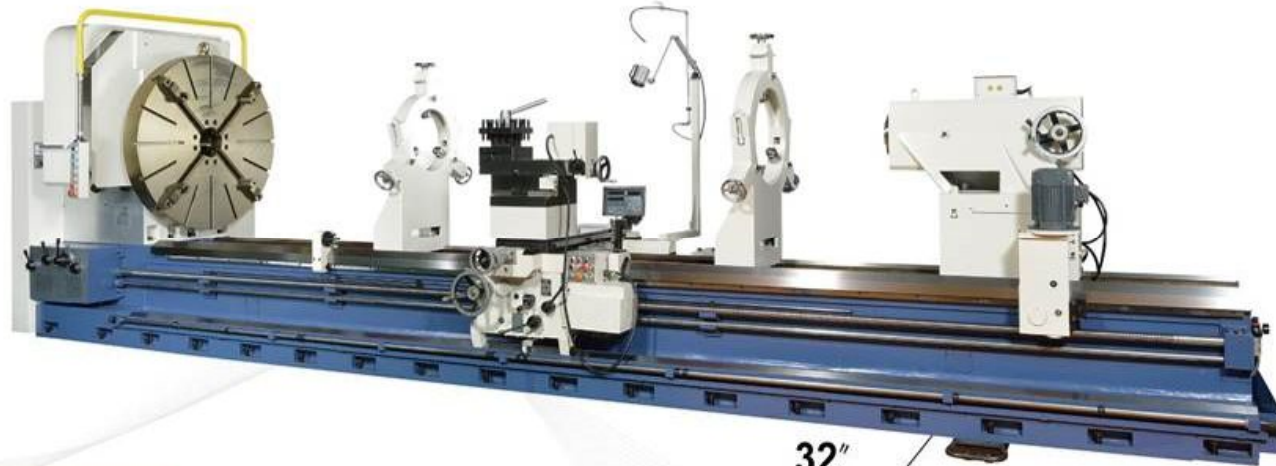
## 22" 32" STANDARD ACCESSORIES:

- ◆ Main Motor
- ◆ Spindle Magnetic Brake
- ◆ Auto Lubrication System
- ◆ Coolant System
- ◆ 4-Way Tool Post
- ◆ X, Z Axes Rapid Traverse
- ◆ Meter / Inch Community Gear Box
- ◆ Guide Way Hardened, Ground with Wiper
- ◆ Tailstock Center
- ◆ Tool Box with Tools
- ◆ Leveling Bolts & Pads
- ◆ Operation & Service Manual

※ 22" and 32" are based on bed width.

## 22" 32" OPTIONAL ACCESSORIES:

- ◆ Chuck
- ◆ 4-Jaw Face Plate
- ◆ Double Chuck System
- ◆ Steady Rest
- ◆ Follow Rest
- ◆ Quick Change Tool Post
- ◆ Boring Device
- ◆ Taper attachment
- ◆ Hydraulic Copy Device
- ◆ 6-way Rapid Traverse
- ◆ Auto Rapid Threading Device
- ◆ Digital Readout
- ◆ Rotary Center
- ◆ Electrical System for CE
- ◆ Splash guard
- ◆ Work Light
- ◆ Motorized Tailstock

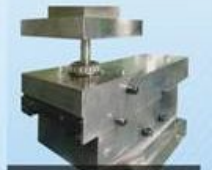


32"

3A-63240 B9



HD Steady Rest (2-point type)



Pin-locking type 4-way tool post ensures safety in cutting and is easy to swivel forward and reversely.



Hydraulic Copy Device (Templates are made by customers)



Taper Attachment



1. Tailstock Rotary Quill  
2. Motor for Tailstock Movement

## 4 GUIDEWAY MODEL

52"

3A-100120



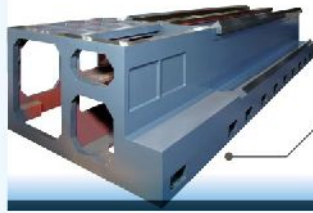
steady rest (3 point O-shape)



Motorized Tailstock at the rear 2 guideways



Tailstock Rotary Quill, MT#7 taper (3-jaw or 4-jaw chuck is in opt.)



Bed with 4 guideways, and the 3rd rail (auxiliary guideway) at the front side to enhance apron rigidity.



Heavy Duty steady rest (2 point type)



Cross and Longitudinal Compound Rest. (X1 and Z1 axes travel capability)

### 52" STANDARD ACCESSORIES :

- ◆ Main Motor with Inverter
- ◆ Hydraulic Spindle Disk Brake
- ◆ Auto Lubrication System
- ◆ Coolant System
- ◆ 4-Way Tool Post
- ◆ Leveling Bolts & Pads
- ◆ 6-way Rapid Traverse
- ◆ Metric / Inch Community Gear Box
- ◆ Tailstock Dead Center
- ◆ Tailstock Rotary Quill Ø290mm
- ◆ Motorized Tailstock
- ◆ Tool Box with Tools
- ◆ Operation & Service Manual

### 52" OPTIONAL ACCESSORIES :

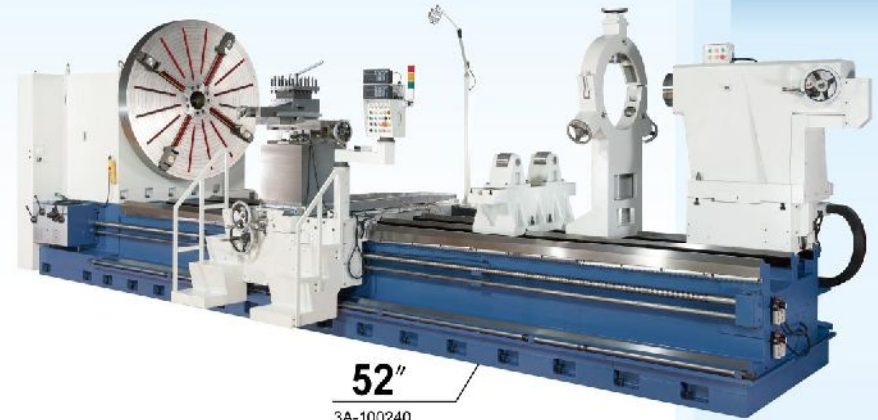
- ◆ 3-Jaw Chuck
- ◆ 4-Jaw Chuck
- ◆ 4-Jaw Face Plate
- ◆ Steady Rest
- ◆ Heavy Duty Steady Rest
- ◆ Boring Device
- ◆ Electrical System for CE
- ◆ Splash guard
- ◆ Digital readout

※ 52" is based on bed width.

## GIANT HEAVY DUTY LATHE

52"

3A-100240



### FEATURE :

- ◆ Full length cross-slide : carriage across 4 guideways
- ◆ Half length cross-slide : carriage on the front 2 guideways
- ◆ Electric control for operating easily
- ◆ Two-axis Compound rest with X1 and Z1 for dimension adjustment
- ◆ 3 axes (X, Z and Z1) auto feeding and rapid traverse
- ◆ Steady rests and tailstock on the rear 2 guide-ways
- ◆ Chuck guard and rear splash guard (opt.)



52"

3A-100320

Customized steady rest and grinding device for special purpose.

## 16" & 18" BED Heavy Duty Precision Lathe

Description \ Model	3A-24	3A-26	3A-30	3A-33	3A-W26	3A-W30	3A-W33
Center height	300 mm	335 mm	385 mm	420 mm	335 mm	385 mm	420 mm
Swing over bed	600 mm	670 mm	770 mm	840 mm	670 mm	770 mm	840 mm
Swing over cross slide	390 mm	460 mm	560 mm	630 mm	460 mm	560 mm	630 mm
Swing over gap	820 mm	890 mm	990 mm	1060 mm	890 mm	990 mm	1060 mm
Width of gap	450 mm			450 mm			
Width of bed	400 mm (16")			460 mm (18")			
Distance between centers	1500 (60"), 2000 (80"), 3000 (120"), 4000 (160"), 5000 mm (200")			1500 (60"), 2000 (80"), 3000 (120"), 4000 (160"), 5000 mm (200")			
Spindle bore	Ø80 mm (3") / Ø104 mm (4")			Ø104 mm (4") / Ø156 mm (6") / Ø230 mm (9")			
Spindle nose	A1-8, D1-8 (3") / A2-11, D1-11 (4")			A2-11, D1-11 (4" or 6") / A2-15 (9")			
Spindle speeds (12 Steps)	17-1200 rpm / 15-1000 rpm			15-1000 / 13-800 / 10-600 rpm			
Tailstock quill diameter	Ø80 mm			Ø95 mm			
Taper of center	MT#5						
Quill travel	230 mm						
Tool size	25 x 25 mm						
Compound rest travel	230 mm						
Cross slide travel	300 mm		385 mm	385 mm			435 mm
Cross feeds	0.025-0.35 mm (36 Kinds)						
Longitudinal feeds	0.05-0.7 mm (36 Kinds)						
Lead screw diameter	Ø45 mm						
Lead screw pitch	2TPI (inch) or 12 mm (metric)						
Threading range, metric	0.8-14 mm / Pitch (65 Kinds)						
Threading range, inch	2-28 TPI (36 Kinds)						
Module pitch threads	0.5-7 M (22 Kinds)						
DP, pitch threads	4-56 P (36 Kinds)						
Main spindle motor	15 HP (Std.) or 20 HP (Opt. in 18" Bed series)						
Coolant pump	1/8 HP						

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

## Heavy Duty Oil Country Lathe 22" BED

Description \ Model	3A-38	3A-42	3A-46
Center height	480 mm	530 mm	585 mm
Swing over bed	960 mm (38")	1060 mm (42")	1170 mm (46")
Swing over cross slide	650 mm	750 mm	860 mm
Swing over gap	1510 mm	1610 mm	1720 mm
Width of gap	570 mm (No gap if Distance between centers ≥ 5 m)		
Width of bed	560 mm (22") (660 mm with auxiliary guideway)		
Distance between centers	1500 ~ 9000 mm (60 ~ 360")		
Spindle bore	Ø156 mm (6") / Ø230 mm (9") / Ø260 mm (10") / Ø310 mm (12") / Ø360 mm (14")		
Spindle nose	A2-11 / A2-15 / A2-15 / A2-20 / A2-20		
Spindle speeds (12 Steps)	9-600 / 6-400 / 6-400 / 5-300 / 5-300 rpm		
Tailstock quill diameter	Ø140 mm		
Taper of center	MT#6		
Quill travel	300 mm		
Cross feeds	0.065-0.96 mm (48 Kinds)		
Cross travel	540 mm		
Compound rest travel	300 mm		
Tool size	40 x 40 mm		
Longitudinal feeds	0.13-1.92 mm (48 Kinds)		
Lead screw diameter	Ø50 mm		
Lead screw pitch	2TPI (inch) or 12 mm (metric)		
Threading range, metric	2-30 mm/Pitch (48 Kinds)		
Threading range, inch	1-15 TPI (48 Kinds)		
Module pitch threads	1-15 M (32 Kinds)		
DP, pitch threads	2-30 P (48 Kinds)		
Main spindle motor	25 HP (Std.) or 30 HP (Opt.)		
Rapid motor	1/2 HP		
Coolant pump	1/4 HP		
Oil pump	12 W		

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## 32" BED Heavy Duty Oil Country Lathe

Description \ Model	3A-47	3A-55	3A-63
Center height	600 mm	700 mm	800 mm
Swing over bed	1200 mm (47")	1400 mm (55")	1600 mm (63")
Swing over cross slide	830 mm	1030 mm	1230 mm
Swing over gap	1750 mm	1950 mm	2150 mm
Width of gap	600 mm (No gap if Distance between centers $\geq$ 5 m)		
Width of bed	800 mm (32") (1000 mm with auxiliary guideway)		
Distance between centers	2000 ~ 15000 mm (80 ~ 600") In one piece		
Spindle bore	$\varnothing$ 230 mm (9") / $\varnothing$ 260 mm (10") / $\varnothing$ 310 mm (12") / $\varnothing$ 360 mm (14") / $\varnothing$ 535 mm (21")		
Spindle nose	A2-15 / A2-15 / A2-20 / A2-20 / A2-28		
Spindle speeds (12 Steps)	6-400 / 6-400 / 5-300 / 5-300 / 3-230 rpm		
Tailstock quill diameter	$\varnothing$ 200 mm (Std) or $\varnothing$ 290 mm Rotary Quill (Opt.)		
Taper of center	MT#7		
Quill travel	300 mm		
Cross feeds	0.065-0.96 mm (48 Kinds)		
Cross travel	780 mm		
Compound rest travel	350 mm		
Tool size	50 x 50 mm		
Longitudinal feeds	0.13-1.92 mm (48 Kinds)		
Lead screw diameter	$\varnothing$ 50 mm		
Lead screw pitch	2TPI (inch) or 12 mm (metric)		
Threading range, metric	2-30 mm / Pitch (48 Kinds)		
Threading range, inch	1-15 TPI (48 Kinds)		
Module pitch threads	1-15 M (32 Kinds)		
DP, pitch threads	2-30 P (48 Kinds)		
Main spindle motor	30 HP (Std.), 40 HP (Opt.) or 50 HP (Opt.)		
Rapid motor	1 HP		
Coolant pump	1/4 HP		
Oil pump	12 W		

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## Large Heavy Duty Lathe 52" BED

Description \ Model	3A-70	3A-80	3A-90	3A-100	3A-110
Center height	900 mm	1000 mm	1125 mm	1250 mm	1375 mm
Swing over bed	1800 mm (70.8")	2000 mm (78.7")	2250 mm (88.6")	2500 mm (98.4")	2700 mm (106.3")
Swing over cross slide : Full Length (Std.)	1350 mm	1550 mm	1800 mm	2050 mm	2250 mm
Swing over cross slide : Half Length (Opt.)	1440 mm	1630 mm	1870 mm	2110 mm	2340 mm
Width of gap	1345 mm (52.9") (4 Guide Way) (1575 mm with auxiliary guideway)				
Distance between centers	3000 ~ 12000 mm (120 ~ 480")				
Spindle bore / nose	$\varnothing$ 210 mm (8") / A2-15 or A2-20				
Spindle speeds (4 Steps)	5 ~ 460 rpm (with inverter)				
Tailstock quill diameter	$\varnothing$ 290 mm Heavy Duty Rotary Quill (std.) or $\varnothing$ 350 mm (opt.)				
Taper of center	MT#7				
Quill travel	300 mm				
Cross feeds	0.065-0.96 mm (48 Kinds)				
Cross travel	1250 mm (Full Length) or 510 mm (Half Length)				
Longitudinal feeds	0.13 ~ 1.92 (48 Kinds)				
Compound rest travel	X <sub>1</sub> : 250 mm / Z <sub>1</sub> : 400 mm (Auto Feeding)				
Tool size	50 x 50 mm				
Lead screw diameter	$\varnothing$ 60 mm				
Lead screw pitch	2 TPI (inch) or 12 mm (metric)				
Threading range, metric	2 ~ 30 mm / Pitch (48 Kinds)				
Threading range, inch	1 ~ 15 TPI (48 Kinds)				
Module pitch threads	1 ~ 15 M (32 Kinds)				
DP, pitch threads	2 ~ 30 mm (48 Kinds)				
Main spindle motor	75 HP (Std.) or 100HP (Opt.)				
Rapid motor	2 HP				
Coolant pump	1 HP				
Lubrication pump	12 W				

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