Dear New WM3500 Customer,

We appreciate your business and confidence in Wood-Mizer Industrial Equipment for your sawing needs. We wanted to take a moment to provide you information in regard to your equipment purchase. See page 4 for electrical and air system requirements.

Layout drawings showing equipment dimensions and setup are also included with this information.

Enclosed you will find:

- WM3500 Commissioning Information (page 2)
- Recommended Spare Parts List (page 3)
- Specifications (page 4)
  - WM3500 Thin-Kerf Headrig (page 4)
  - Incline Conveyor (page 5)
  - Transfer Deck (page 6)
  - 3/5-Way Deck (page 6)
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- Optional Electrical Equipment (page 12)
  - Phase Converters (page 12)
  - Transformers (page 12)
  - Generators (page 12)

We hope this information is beneficial to you for starting up your industrial sawmill. Thank you for your business and we look forward to our partnership.

Sincerely,

Jim Brown Customer Service Manager

JB/mle Form #1195

## WM3500 Commissioning Information

Call Customer Service at 1-800-525-8100 to schedule your commission date. Press 1612 to reach our scheduler. If the scheduler is not available, press 0 to reach the operator. Please schedule your commission date at least two weeks in advance so we can accommodate your requested dates. Please allow three days for the commissioning service.

A forklift rated for at least **8,000 lbs.** is required for moving the Sawmill and Operator Station. **The forks must be able to fit inside the 5 1/2" x 3 1/2" fork pockets** and adjustable to 27" for the WM3500 and 21" for the Operator Station.

#### Please complete the following prior to commissioning:

- 1. Prepare site for each piece of equipment
- 2. Place each piece of equipment in proper location
- 3. Connect electrical power to main circuit breakers in control cabinet for the Sawmill and to the starter box for each piece of auxiliary equipment
- 4. Run air line to Sawmill and have ready to attach
- 5. Have logs readily available for Operator Training

#### An industrial representative will complete the following:

- 1. Anchor equipment to floor using included anchor bolts
- 2. Level the bed using the adjustable legs
- 3. Level the bed and head
- 4. Align the bed rails
- 5. Hookup hydraulics, lube, air and electrical lines from operator station to bed
- 6. Align blade guides
- 7. Align transducer
- 8. Adjust or install auxiliary industrial equipment for proper operation
- 9. Train operator

# **Recommended Spare Parts List**

# Wood-Mizer Spare Parts Pak

052163	Parts Kit, WM3500 w/ Steel Wheels	;
Part Number	Description	Quantity
012797	Bearing, Cam Follower 1 1/2 (McGill)	2
016309	Gauge, Belt Tensioner	1
017822	Bar, Dragback Lower, 1/2x1x11 3/4	2
023857	Bearing, MG305DDA	1
025041	Prox Sensor, 12mm UnShld Extd w/Conn	1
025200	Pot Assy, 4-20mA 24V W/conn	1
033479	Nozzle, Blade Lube Spray	2
036514	Shaft, Blade Guide Arm Motor	2
036636	Belt, Eagle PD, G2380	1
042245	Scaper, Brass	2
042367	Sprocket, P/F Idler	2
042399	Grease, Ballscrew Lube	4
042443	Chain, #25x92p	1
042655-2	Coupling Spider, Urethane, 10R	2
045175	Wiper Pad, Plastic	2
052309	Wear Pad, 1.5 Blade Guide	4
052736	Fuse, 17.5A 600V Class CC Delay	2
052757	Fuse, 10A 600V KLDR Class CC	2
052907	Fuse, 3.2A 600V Class CC	2
500561	Roller, TVS Blade Guide	2
F05012-53	Pin, 1/4x1 3/4 Roll	4
P09983	Link, 25 Master	1
P12165	Bushing, 11/16x2 1/8x1 3/4 Rubber	2
P20301	Filter, S28 Hyd	1

# Specifications

# WM3500 Thin-Kerf Headrig

Dimensions	
Length (LT300 Frame)	
Length (with Operator Station & 10" between)	
Width (Sawmill Only, Max Blade Guide Arm Position Width (Sawmill w/Right-Hand Cable Boom, Max Boom & Blade Guid	
Arm Position)	
Width (Sawmill w/Left-Hand Cable Boom, Max Boom & Blade Guid	
Arm Position)	
	: 8'-6 1/4" to 9'-2 3/4" (Adjustable w/feet) : 9'-6 1/4" to 10'-2 3/4" (Adjustable w/feet)
Height (Cable Boom)	
5 (	: 30" to 38 1/2" (Adjustable w/feet)
Blade Length	: 196"
Weights:	
Basic Unit	
Saw Head Only Operator Station (No Cab/AC)	
Cab Option	
A/C Option	
BX6 Bed Extension	1
Cutting Capacity:	041.08
Lengtn Length (with Board Removal)	: 21'-6"
Diameter	
	: 4400 lbs.
Max. Clamp Width (from stop block)	: 26"
Min. Clamp Width (from stop block)	
Max. Throat Width (guide to guide)	
Max. Cant Width (outer guide to stop block) Max. Cutting Depth @ 24" wide	
Max. Cutting Depth @ 22" wide	
Blade Motor:	
Manufacturer	
Horsepower Rating	
RPM Drive Shaft O.D.	: 1725 · 1 7/8"
Drive Belt (60/50 Hz)	
	: 2.6 Seconds
Rates:	
-	: 66 Amps, 35.90 kVa or 42.60 kWh
Max. Forward (Not Cutting)	: 170 ft./min. : 300 ft./min.
Saw Head Up (24")	
Saw Head Down (24")	
Startup force required to raise saw head	
Clamp (full travel)	
Log turner (turn 4200 lb. log 90°) Options:	
Operator Station Cab	: CAB2
A/C for Cab	
Electrical Requirements:	
	: 460V 3-Phase 100A
Fused Disconnect Time Delay Fuse	
	: 10A : 110V 1-Phase 15A Service
	: 110V 1-Phase 30A Service
Cab Option (w A/C) Suggested Wire Size (50' max.)	

# **Incline Conveyor**

#### Model: IC2-H, IC2-L, IC2-S IC5-H, IC5-L, & IC5-S Rev, A3 00+

Dimensions	IC2	IC5
	Length: 20'-3 3/16"	20'-3 5/16"
	Width: 3'-7 1/16"	3'-7 1/16"
	Height (Ground To Belt): 44 7/8"	44 7/8"
Weight:		
	Basic Unit:	
Capacity:		
	Board/Slab Length: 2' to 19'	
Motor:	IC2	IC5
	Manufacturer: Leeson	Leeson
	Horsepower Rating: 2	5
	RPM: 1725	1740
Rates:		
	Normal Power Usage: 2.5 Amps, 1 Belt Speed: 230 ft./min.	.90 kVa or 1.5
Electrical Requirer	ments:	
•	Electrical Service (IC2/IC5-H): 460V 3-Pha	se 10A
	Electrical Service (IC2/IC5-L): 230V 3-Pha	se 20A
	Electrical Service (IC2/IC5-S): 230V 1-Pha	se 20A

Suggested Wire Size (50' max.): 14AWG

#### Model: IC2-H, IC2-L, IC2-S Rev. A2.00 - A2.02

Dimensions							
	Length: 20'-2 13/16"						
	Width: 3'-6 3/8"						
	Height (Ground To Belt): 44 7/8"						
Weight:							
	Basic Unit:						
Capacity:							
	Board/Slab Length: 2' to 19'						
Motor:							
	Manufacturer: Leeson						
	Horsepower Rating: 2						
	RPM: 1725						
Rates:							
	Normal Power Usage: 2.5 Amps, 1.90 kVa or 1.50 kWh Belt Speed: 230 ft./min.						
	·						
Electrical Requirer							
	Electrical Service (IC2, IC2-1): 460V 3-Phase 10A						
	Electrical Service (IC3): 230V 3-Phase 20A						
	Electrical Service (IC4): 230V 1-Phase 20A						
	Suggested Wire Size (50' max.): 14AWG						

# **Transfer Deck**

#### Model: TD2 Rev. A1.00+

Dimensions	
	Length: 11'-1"
	Width: 6'-5"
	Height (Infeed Side): 44" (w/3" of adjustment) Height (Offbear Side): 36" (w/3" of adjustment)
Weight:	Basic Unit: Ibs.
Capacity:	Board/Slab Length: 6' to 17'
Electrical Requirements:	Electrical Service: 110V 1-Phase
Air Requirements:	
-	Shop Air Supply: Regulated @ 60 psi

# 3/5-Way Deck

Dimensions:		
	Length (per table):	9'-1 3/4"
	Width:	3'- 6 3/4"
	<b>č</b> (	2'-11 5/16" min 4'-2 5/16" max. (up to 15" leg adjustment 4'-6 3/16" min 5'-9 3/16" max. (up to 15" leg adjustment) 2'-9 1/2" min 3'-11 1/2" max.
Neight:		
	Basic Unit:	
Drive Motor:		2HP 230/460V 3 Phase
Capacity:		
	Per 9' table w/standard 2 air cylinders:	
	Per 9' table w/optional 3 air cylinders:	1400 lbs.
Electrical Rec	uirements:	
	Electrical Service:	460V 30A 3 Phase
	Fused Disconnect:	30A
	Time Delay Fuse:	5A
	Suggested Wire Size (50' max.):	16AWG
Air Requirem	ents:	
•	Shop Air Supply:	Regulated @ 100 psi
		1.44 cfm required per air cylinder (2 per table standard, 3 per table optional)
		Minimum 50 gal. reserve tank and 3/4" supply line

# Log Infeed Deck

### Model: LD12/LD20 Rev. A2.00+

Dimensions	
Length v	w/Loader Down (LD12): 16'-8"
Length	w/Loader Down (LD20): 24'-4"
_	Width: 6'-0"
Height (LD	12/LD20 w/Loader Up): 5'-5 3/16"
Height (LD12-1	1/LD20-1 w/Loader Up): 6'-1 11/32"
Height (LD12)	/LD20 ground to chain): 30"
Height (LD12-1/LI	D20-1 ground to chain): 38"
Distance between loading c	hains (center-to-center) 59"
Weight:	
	LD12: 1740 lbs.
	LD12-1:
	LD20: 2507 lbs.
	LD20-1:
Capacity:	
	Log Length: 6' to ?
Number of	f 20" Dia. Logs (LD12): 6

Number of 20" Dia. Logs (LD20): 11

## Model: LD12/LD20 Rev. A1.00 - A1.03

Dimensions	
	Length w/Loader Down (LD12): 16'-8"
	Length w/Loader Down (LD20): 24'-4"
	Width: 6'-0"
	Height (w/Loader Up): 5'-5 3/16"
	Height (ground to chain): 30"
Distance bet	ween loading chains (center-to-center) 59"
Weight:	
-	LD12: 1740 lbs.
	LD20: 2507 lbs.
Capacity:	
- •	Log Length: 6' to ?
	Number of 20" Dia. Logs (LD12): 6

Number of 20" Dia. Logs (LD20): 11

## **Modular Deck**

#### Model: 039520 Rev. A1.00+ Dimensions Length (Base Unit Only): 8'-0 3/16" (Add 8' per extension module) Width: 3'-7 5/8" Height (Ground To Belt)\*: 18-24", 23-29", 29-35", 35-42", 41-47" or 47-53" Weight: Base Unit: approx. 700 lbs. Capacity: Material Weight: 100 lbs./sq.ft. or 800 lbs. per 8' section Material Length: 8' (Add 8' per extension module) Motor: Manufacturer: Leeson Horsepower Rating: 2 RPM: 1725 Rates: Normal Power Usage: 2.5 Amps, 1.90 kVa or 1.50 kWh Belt Speed: 80, 107, 120, 180 or 241 feet/min. **Electrical Requirements:** Electrical Service (025293): 460V 3-Phase 10A Electrical Service (050934): 230V 3-Phase 20A Electrical Service (050999): 230V 3-Phase 20A Suggested Wire Size (50' max.): 14AWG

\*Height determined by leg assemblies supplied. Legs adjustable 6".

# Twin Blade Portable Edger

#### Model: G28/E15/D21/D26 Rev. A5.00+

Dimensions						
Length For Travel (Hitch to Lights):	13' 9"					
Length For Opertion (with Outfeed Table):						
Width (Fender to Fender):						
Height (with Trailer):						
<b>U</b> ( )						
Bed Height (Ground to Bed):						
Infeed Table Length:						
Outfeed table Length:						
Weight:	G28	E15	D21	D26		
Basic Unit:		1870 lbs.		1850 lbs.		
Trailer						
Axle Capacity:	2500 lbs.					
Tire Capacity:	1870 lbs.					
	ST205/75R					
Capacity:	01200/1010					
Max. Board Width:	24 75"					
Max. Cut:						
Min. Cut:						
Max. Board Thickness:						
Min. Board Thickness:						
Min. Board Length:	36"					
Misc Specifications						
Blade Diameter:	14"					
Blade Bore:	3"					
Blade Kerf (8 Tooth/18 Tooth):	.150/.165					
Engine/Motor:	G28	E15	D21	D26		
Fuel/Energy:		3-Phase	Diesel	Diesel		
Make:		Baldor	Yanmar	Caterpillar		
HP Rating:		15HP	21.9HP	26HP		
6			21.902			
RPM-Idle:		N/A		1900-2000		
RPM-High (No load):		3450	3600	3000		
Noise Level (Operator; not cutting/cutting; dBA):		82/101				
Noise Level (Puller; not cutting/cutting; dBA):		78/99				
Blade Speed (No load) RPM:						
Fuel Consumption (Gallon/Clock Hr.):		N/A				
Cooling:		N/A	Water	Water		
Engine Drive Shaft O.D. (inches):		1 3/8"	1 1/8"	1 7/16"		
Engine Drive Shart O.D. (Inclies). Engine Drive Pulley:		3V4.75X3	3/5V44	3/5V49		
· · ·						
Main Driven Pulley:		3V6.9X3	3/5V670	3/5V670		
	3/3VX900	3/3VX900	3/5VX850	3/5VX900		
Gear Box Pulley:		3V450SH	3V450SH	3V450SH		
Blade Shaft/Gear Box Pulley:		3V500SH	3V500SH	3V500SH		
Charging System Output (Amp):		N/A	40	65		
12V Battery (Cold Cranking Amps @ 32 F):	665	N/A	875	875		
Oil Capacity w/Filter (qts.):		N/A	1.79	5.5		
Rates:						
Min. Feed Speed:	55 ft./min.					
Max. Feed Speed:						
Electrical Requirements:	EE15 (high	voltage)			EE15 (low voltage)	EE15-C (Canadian voltage)
Electrical Service:		• •			208V-240V 3-Phase	575V 3-Phase 100A
Fused Disconnect:		Thuse TOUR			60A	30A
						30A 30A
Time Delay Fuse: Suggested Wire Size:		max )			60A	(50' max.)
Suggested Wire Size:		111dX.)			6AWG (100' max.)	(00 max.)

## Model: G25/G28E15/D22/D26 Rev. A3.00 - A4.03

Dimensions						
	401.0"					
Length For Travel (Hitch to Lights):						
Length For Opertion (with Outfeed Table):						
Width (Fender to Fender):						
Height (with Trailer):	4' 3"					
Bed Height (Ground to Bed):	31"					
Infeed Table Length:	6' 5"					
Outfeed table Length:						
Weight:	G25	G28	E15	D22	D26	
Basic Unit:		010	2020 lbs	2200 lbs.	2000 lbs.	
Trailer						
Axle Capacity:	2500 lbc					
Tire Capacity:						
	ST205/75R					
Capacity:	04.75"					
Max. Board Width:						
Max. Cut:						
Min. Cut:						
Max. Board Thickness:	2 3/8"					
Min. Board Thickness:	1/4"					
Min. Board Length:	36"					
Misc Specifications						
Blade Diameter:	14"					
Blade Bore:	3"					
Blade Kerf (8 Tooth/18 Tooth):						
Engine/Motor:	G25	G28	E15	D22	D26	
Fuel/Energy:		Gas	3-Phase	Diesel	Diesel	
Make:		Kohler	Baldor	Kubota	Caterpillar	
HP Rating:		28HP	15HP	22HP	26HP	
RPM-Idle:		20115	N/A	1000	1900-2000	
RPM-High (No load):			3450	3000	3000	
Noise Level (Operator; not cutting/cutting; dBA):			82/101			
Noise Level (Puller; not cutting/cutting; dBA):			78/99			
Blade Speed (No load) RPM:						
Fuel Consumption (Gallon/Clock Hr.):	0.9		N/A			
Cooling:	Air	Air	N/A	Water	Water	
Engine Drive Shaft O.D. (inches):	1 7/16"	1 1/8"	1 3/8"	1 7/16"	1 7/16"	
Engine Drive Pulley:	3V4.75X3	3V4.75X3	3V4.75X3	3V5.6X3	3/5V49*	
Main Driven Pulley:		3V6.9X3	3V6.9X3	3V6.9X3	3/5V670*	
Drive Belts:		3/3VX900	3/3VX900	3/3VX900	3/5VX900*	
Gear Box Pulley:		3V450SH	3V450SH	3V450SH	3V450SH	
Blade Shaft/Gear Box Pulley:		3V500SH	3V500SH	3V500SH	3V500SH	
Charging System Output (Amp):		000001	N/A	65	65	
		605				
12V Battery (Cold Cranking Amps @ 32 F):		665	N/A	875	875 5 5	
Oil Capacity w/Filter (qts.):	2.1		N/A	5.5	5.5	e la sta se
Rates:						vs/belts changed from
Min. Feed Speed:	55 ft./min.					stem Rev. A4.03
Max. Feed Speed:					(ED26 Only)	
Electrical Requirements:	EE15 (high v	voltage)		EE15 (low v	• •	EE15-C (Canadian voltage)
Electrical Service:	380V-480V 3	B-Phase 100A		208V-240V 3	s-Phase	575V 3-Phase 100A
	380V-480V 3	3-Phase 100A		60A	3-Phase	30A
Electrical Service:	380V-480V 3 30A 30A					

Model: E430/EG400 Rev. A1	.007
Machine Dimensions:	
	Length: 148 1/2"
	Width: 62 3/4"
	Height: 81 3/4"
Infe	eed Table Height: 28" - 36" Adjustable
Infe	ed Table Length: 93 3/4"
	Weight: 3750 lbs
Material Dimensions:	
Maxin	num Feed Width: 36"
Maximum I	Board Width Cut: 28"
Minimum I	Board Width Cut: 3"
Maximum E	Board Thickness: 4"
Minimum E	Board Thickness: 1"
Electrical Installation Requirements:	
•	- 415V 50Hz 3Ph: 100 Amp
	460V 60Hz 3Ph: 100 Amp
Blade System:	
-	Diameter: 16"
	Bore: 3 1/2"
	Teeth: 14
	Kerf: 9/32"
Blade	e RPM (No Load): 2239
	otor Horsepower: 1/2
	ment Motor RPM: 1725
Feed System:	
-	eed (4" material): 44 Ft/Min
· · · · ·	eed (2" material): 78 Ft/Min
•	eed (1" material): 111 Ft/Min
· · · ·	otor Horsepower: 2
	Feed Motor RPM: 1725
Blade Motor:	
	Horsepower: 30
	RPM (No Load): 1765
Moto	r Shaft Diameter: 1 7/8"
	Pulley Diameter: 8 1/2"
Drive	Pulley Diameter: 6.7"
	Drive Belt: 35VX900

## Model: E430/EG400 Rev. A1.00+

## **Optional Electrical Equipment**

## **Phase Converters**

Description	Manufacturer	Mfg. Part No.
230VAC RotoPhase Converter	ARCO	RP-300230
230VAC RotoPhase Converter w/Magnetic Starter Package	ARCO	RP-300230WS
460VAC RotoPhase Converter	ARCO	RP-300460
460VAC RotoPhase Converter w/Magnetic Starter Package	ARCO	RP-300460WS

**NOTE:** Wood-Mizer has developed phase converter requirements with ARCO. We highly recommend you consult with Tim Drake of ARCO at (800) 428-4370 to determine your specific needs. Once determined, converters may be ordered through Wood-Mizer. Generic phase converters must provide 2% or less phase differential. If differential is higher, reactors may be used to correct (part #051574).

## Transformers

Description	Manufacturer	Mfg. Part No.
220V Delta to 480V Delta 3-Phase 60Hz 75kVA	Cutler-Hammer	V25M48T75A
575V to 460V 3-Phase 63kVA	Square D	63T147HDIT
380V Delta to 480V Delta 3-Phase 50Hz 75kVA	Cutler-Hammer	SIMV48M24T75G -380pri-50hz*

\* Special Order. Allow 4-6 weeks for delivery.

## Generators

To calculate the generator required, total the horsepower ratings of all machines. Use 90HP for WM3500 and options. Use 40HP for the Industrial Edger. Multiply the total horsepower by 746 to determine watts. Divide watts by 1000 to determine kVA. Use a safety factor of 2 (kVA x 2) to determine the size of generator required.

#### Example - Determine generator requirement for WM3500 and Industrial Edger:

Total HP (90 + 40) = 130

Watts (130 x 746) = 96980

KvA (96980/1000) = 97

Generator KvA required (97 x 2 safety factor) = 194 Kva