



High performance machines for metal mill maintenance







**Heavier Telescopic Boom** 

**Heavier Main Boom** 

# WHEELED UNDERCARRIAGES

## **EXTRA MOBILITY TO HANDLE** MANY JOBS IN BUSY METAL MILLS

- Heat-resistant foam-filled or solid tires
- Easy maneuverability
- Heat-resistant shields protect tires
- Can be hoisted using single-point yoke
- Work in any direction without outriggers
- Up to 18 mph travel speed

**Stainless Steel Braided Hose With Fire Sleeves** 

#### **XL 3310 V**

- 42,294 lb (19,184 kg)
- 28' 2" (8.6 m) reach
- 19' 2" (5.6 m) dig depth



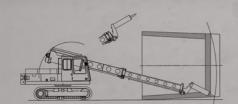
**Internal Metal Hose** 

and Tube Clamps

- 46,580 lb (21,128 kg)

- 22' 1" (6.7 m) dig depth

- 31' 3" (9.5 m) reach



Ladle Maintenance

#### Clean the bottom and side walls in hot condition

**Heavier Boom Cradle** 

- Debrick the wear lining, while not damaging the permanent lining
- Rake and remove slag from hot metal, with a minimum loss of metal
- Push out and remove plug at the

**Heat Shields** 

# **High Temperature**

Special Window Guards

# MACMI

**SPECIFICATIONS** 

WHEELED

Max. Work Height,

**Boom Below Grade** Boom Telescope

Max. Radius at Groundline

Engine Std.

HP@RPM

**Boom Tilt** 

**Tool Pivot Angle** 

Rated Boom Force

**Operating Weight Swing Clearance** 

Transport Length

w/ Scaling Hook

Transport Height

w/ Scaling Hook

Transport Width

Wheelbase

Travel Speed-MPH

**Ground Clearance** 

XL 3310 V XL 4310 V

Volvo TAD551 VE,

Tier III\*

173/2200

31' 3" (9.5)

14' 11" (4.5)

12' 6" (3.8)

22,075 lb (98.2kN)

46,580 lb (21,128 kg)

8'0" (2.4)

26' 0" (7.9)

11' 6" (3.5)

9'0" (2.7)

12 (19.3 kph)

8' 9" (2.7)

11" (275 mm)

Volvo TAD551 VE.

Tier III\*

172/2000

28' 2" (8.6)

14' 11" (4.5)

11' 0" (3.4)

360°

165°

22,075 lb (98.2kN)

42,294 lb (19,184 kg)

7' 6" (2.3)

24' 0" (7.3)

11'6" (3.5)

9'0" (2.7)

12 (19.3 kph)

8' 9" (2.7)

11" (275 mm)

WWW.MACMIN.CL Additional **Cab Mounts** 

# XL 7310 V

- 77,500 lb (35,153 kg)
- 47' 10" (14.6 m) reach
- 6' 2" (1.9 m) max dig depth

XL 5310 V XL 7310 V

Volvo TAD551 VE.

Tier III\*

173/2200

47' 10" (14.6)

14' 3" (4.3)

13' 6" (4.1)

360°

114°

27,700 lb (123.2kN)

77,500 lb (35,153 kg)

10' 0" (3.0)

43' 0" (13.1)

13'8" (4.2)

13'4" (4.1)

11 (17.7 kph)

12' 6" (3.8)

1' 4" (0.4 m)

Volvo TAD551 VE,

Tier III\*

173/2200

34' 9" (10.6)

14' 11" (4.5)

14' 0" (4.3)

360°

165°

24,941 lb (111kN)

55,926 lb (25,368 kg)

8' 6" (2.6)

28' 4" (8.6)

11'6" (3.5)

9'0" (2.7)

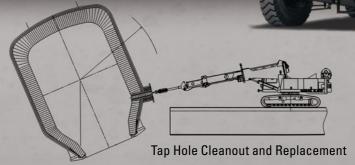
12 (19.3 kph)

8' 9" (2.7)

11" (275 mm)

#### **XL 5310 V**

- 55,926 lb (25,368 kg)
- 34' 9" (10.6 m) reach
- 25' 5" (7.7 m) dig depth
- » Effectively descull the converter lip
- » Clean and replace tap holes
- » Clean, debrick, repair and drill tap holes in converters



- Hydraulic tap hole drill attachment can drill out a tap hole in five minutes
- New tap hole insert tool reduces overall tap hole replacement time



# **SPECIFICATIONS**

1	V		Δ				N			N	
w	w	w		М	A	С	М	ı	N	С	ī

CRAWLER	XL 3210 V	XL 4210 V	XL 5210 V	XL 7210 V
Engine Std.	Volvo TAD551 VE, Tier III*			
HP @ RPM	172/2000	173/2200	173/2200	173/2200
Max. Radius at Groundline	28′ 4″ (8.6)	31′ 5″ (9.6)	34' 10" (10.6)	48′ 1″ (14.7)
Max. Work Height, Boom Below Grade	14′ 2″ (4.3)	14′ 2″ (4.3)	14' 2" (4.3)	12′ 10″ (3.9)
Boom Telescope	11′ 0″ (3.4)	12′ 6″ (3.8)	14′ 0″ (4.3)	13′ 3″ (4.0)
Boom Tilt	360°	360°	360°	360°
Tool Pivot Angle	165°	165°	165°	114°
Rated Boom Force	22,075 lb (98.2kN)	22,075 lb (98.2kN)	24,941 lb (111kN)	27,700 lb (123.2kN)
Operating Weight	44,327 lb (20,106 kg)	48,862 lb (22,000 kg)	59,162 lb (26,835 kg)	77,000 lb (34,927 kg)
Swing Clearance	7′ 6″ (2.3)	8′ 0″ (2.4)	8' 6" (2.6)	10′ 0″ (3.0)
Transport Length w/ Scaling Hook	23′ 11″ (7.3)	25′ 11″ (7.9)	28′ 4″ (8.6)	43′ 3″ (13.2)
Transport Height	10′ 9″ (3.3)	10′ 9″ (3.3)	10′ 9″ (3.3)	13′ 3″ (4.0)
Transport Width – Wide	9′ 0″ (2.7)	10′ 6″ (3.2)	10′ 6″ (3.2)	11′ 1″ (3.4)
Transport Width – Narrow	9′ 0″ (2.7)	9′ 10″ (3.0)	9′ 10″ (3.0)	N/A
Travel Speed-MPH	3.4 (5.5 kph)	3.4 (5.5 kph)	3.4 (5.5 kph)	2.4 (3.9 kph)
Track Length	11′ 9″ (3.6)	13′ 8″ (4.2)	13′ 8″ (4.2)	15′ 4″ (4.7)
Pad Width – Narrow	19.7" (500 mm)	23.6" (600 mm)	23.6" (600 mm)	N/A
Pad Width – Wide	23.6" (600 mm)	31.5" (800 mm)	31.5" (800 mm)	31.5" (800 mm)
Ground Bearing Pressure – Narrow	10.1 psi (69.6kPa)	7.7 psi (52.8 kPa)	9.3 psi (64.1 kPa)	N/A
Ground Bearing Pressure – Wide	8.5 psi (58.6kPa)	5.8 psi (40.2 kPa)	7.1 psi (48.9 kPa)	8.2 psi (56.5 kPa)

Metric units are meters (m) unless noted. \* Optional TAD571 VE Tier 4F

### XL 5210 V

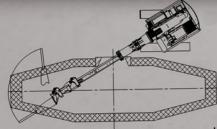
- 59,162 lb (26,835 kg)
- 34' 10" (10.6 m) reach
- 26' 2" (8.0 m) dig depth

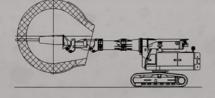
#### XL 3210 V

- 44,327 lb (20,106 kg)
- » 28' 4" (8.6 m) reach
- » 19' 11" (6.1 m) dig depth



#### **TORPEDO LAD**





- Hot Metal Transfer Car Cleanout
- » Maintain hot metal troughs by removing hard slag
- Clean out refractory brick
- » Topedo car cleanup

# **CRAWLER UNDERCARRIAGES**

## A STABLE WORK PLATFORM ON ANY SURFACE

- Excellent maneuverability and traction
  - Track resistant to hot metal
- New thicker grouser pads for side loading
  - Can be hoisted using single-point yoke

**Heavier Telescopic Boom** 

360° Continuous Boom Rotation

**Roof Window Guard** 

**Double Boom Rollers** 

Stainless Steel Braided Hose with Fire Sleeves

Pin-on 4-bar Linage

Heavier Frame with Lateral Support

## **XL 7210 V**

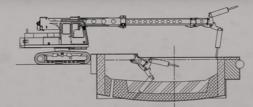
**XL 4210 V** 

48,862 lb (22,000 kg) 31' 5" (9.6 m) reach

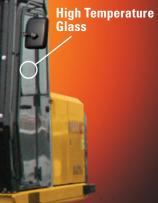
22' 10" (7.0 m) dig depth

- 77,000 lb (34,927 kg)
- 48' 1" (14.7 m) reach
- 10' 4" (3.1 m) max dig depth

#### **ELECTRIC FURNACES**



- Electric Arc Furnace Lining Removal
- Clean and replace tap holes
- Debrick and remove refractory lining materials
- » Rake and remove hot slag from pit below the furnace





GRADALE XL 4210

## **OPTIONS**

- 23.6" (600 mm) track pads, triple grouser or flat, for XL 4210 V and XL 5210 V
- » 19.7" (500 mm) track pads, triple grouser or flat, for XL 3210 V
- Auxiliary hosing and piping for pneumatic or hydraulic hammers
- Single-point lifting yoke

- Extended reach boom
- Fire resistant hydraulic fluid
- Work lights
- Warning beacon
- Attachment adapter to accommodate standard XL Series ditching buckets
- Radio remote control with umbilical cord

# A COMFORTABLE, PROTECTIVE WORKING ENVIRONMENT

**Gradall XL Series V feature spacious cabs designed for operator comfort and safety, with plenty of windows for** excellent visibility in all directions. Gradall, Deere or SAE boom control joysticks are built into the adjustable seat, enhancing operator efficiency, and convenient foot pedals allow the operator exacting control to position the carrier. For operator comfort, heaters, air conditioning and more are all standard.

# **ATTACHMENTS**



**Hydraulic Hammers** 



**Pneumatic Hammers** 



Tap Hole Drill



**Double Tooth** Steel Mill Ripper



Single Tooth **Steel Mill Rippers** 









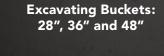












406 Mill Ave. SW, New Philadelphia, OH 44663

330.339.2211 • GradallSteel.com



