

TIRE HANDLERS/MANIPULATORS

W-Series for Wheel Loader



WBM Tire Handlers are designed to safely and efficiently handle OTR tires and rim assemblies on large mobile equipment.

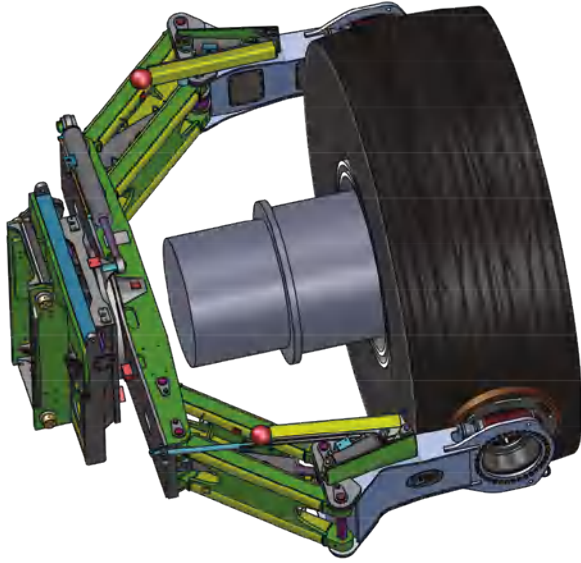
Also available in capacities from 3,000lb / 1,365Kg to 40,000lb / 18,180Kg for wheel loaders.

FEATURES & BENEFITS

- "Clear path" low profile body and grip arm design allows the operator maximum visibility and versatility to reach wheel rim components on inside dual position and maintain clearance to the machine even during vertical dismounts
- Parallelogram link grip arms for maximum operation range – allows for handling rim components and tires or wheel assemblies
- Rim handling pads allow heavy rim components to be handled with ease and safety
- Finger tip / joystick proportional controls for effortless and precise handling of tires and rim components
- Bead Breaker / Fall arrest arms for ultimate operational safety for the tire technician

Continued on next page »

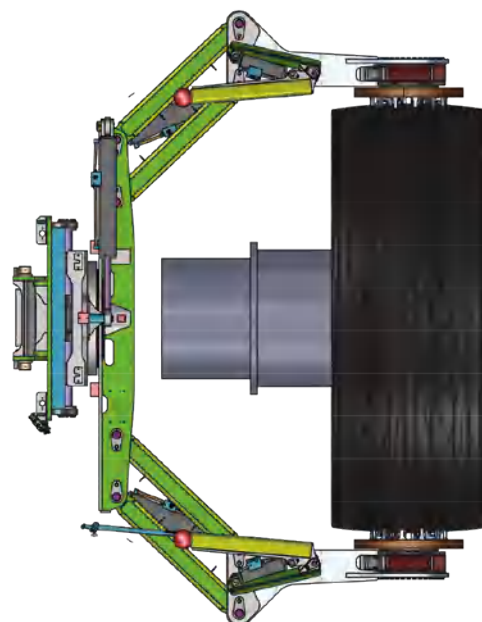
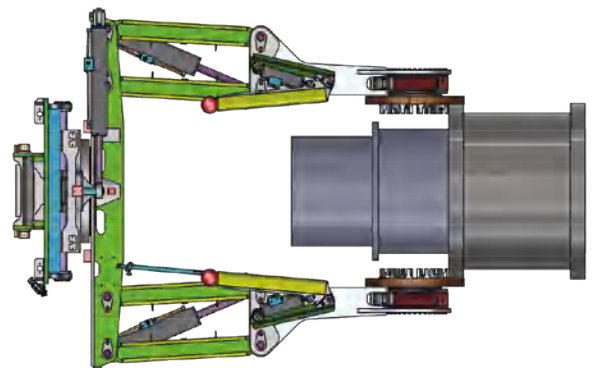
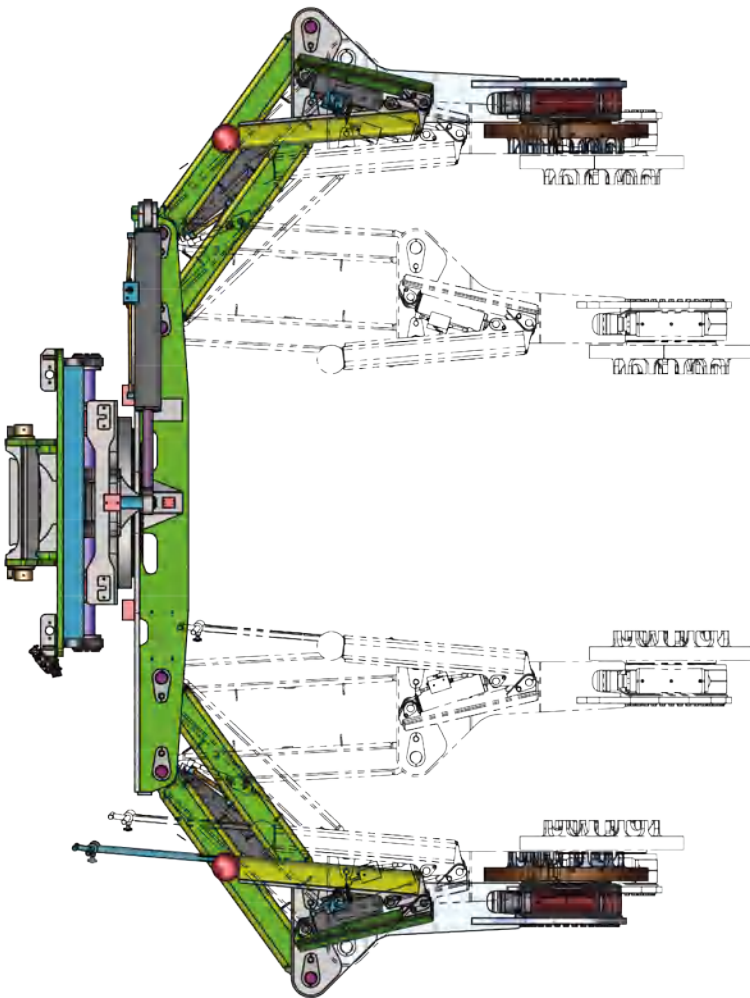
GRIP ARM DESIGN



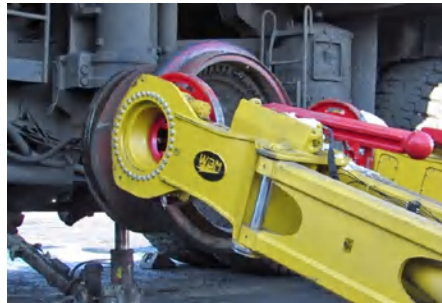
"CLEAR PATH" LOW PROFILE GRIP ARM DESIGN

Available across the entire product line , the WBM "Clear Path" low profile grip arm design allows the operator to reach in to grab inside rear dual flange ring on ultra class wide base trucks – the grip pad teeth are always the narrowest point .

Parallel low profile arm design allows grip pads to close enough to pick up rim hardware and components and wide enough for the largest diameter tires on the market and still maintain clearance to the machine, including dual hub / wheel rims and fuel or hydraulic oil tanks.



HANDLING PADS



RIM COMPONENT HANDLING PADS

- Replaceable teeth
- Easily replaceable when worn or damaged, saving time and money.
- Operator can pick up heavy rim components with finger-tip control from the cab and position them on the hub/rim, reducing risk of damage or injury.

FALL ARREST ARMS



BEAD BREAKER FALL ARREST ARMS

- Dual function: bead break fall arrest safety arms protect the tire technician from any potential of the tire to fall on them when installing the first or last wheel nut. The bead breaker function allows the tire bead and/or flange ring (bead seat band) to be pushed back while holding the tire firmly on the outside, increasing safety and reducing manual labour required.
- Optional lock-ring catcher: positioned to safely catch the lock ring, stopping it from free-falling to the ground.

TM FUNCTION CONTROLS



SELECTOR SWITCH HANDLE

Connects to machine 3rd valve / lever to provide TM operation. (Std T3 -T10).



JOYSTICK CONTROL

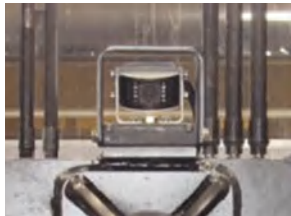
Dual axis, joystick control with roller switches. All functions fully proportional and trigger safety release on clamp open function. (Standard on T15W and above).



OPTIONAL PADDLE-STYLE CONTROL BOX

Special build to order only.

OPTIONAL CAMERA SYSTEMS



BASIC CAMERA

7" monitor (Voyager).



DUAL CAMERAS

- 7" monitor (Orlaco).
- Standard 60 and 118 wide angle camera's allow greater range of view for the operator.



ZOOM CAMERA

- 12" monitor (Orlaco).
- 32x digital/ 30x optical zoom allows the operator to read tire serial number from the cab and install and align wheel studs and wheel without assistance, increasing safety and efficiency.

LIGHTING



WORK LIGHTS

Two lights are included standard in the cross-arm on all models (except T3C and T5C).



OPTIONAL WORK LIGHTS

Additional two lights on elevated stands to provide increased visibility.

MAINTENANCE



CENTRAL LUBRICATION

Lincoln metering valve block with plastic grease lines to main hinge and hard to access grease points. Included as standard on T20W and above; optional on smaller models.

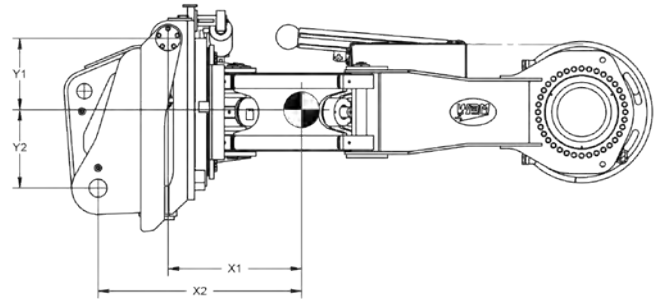
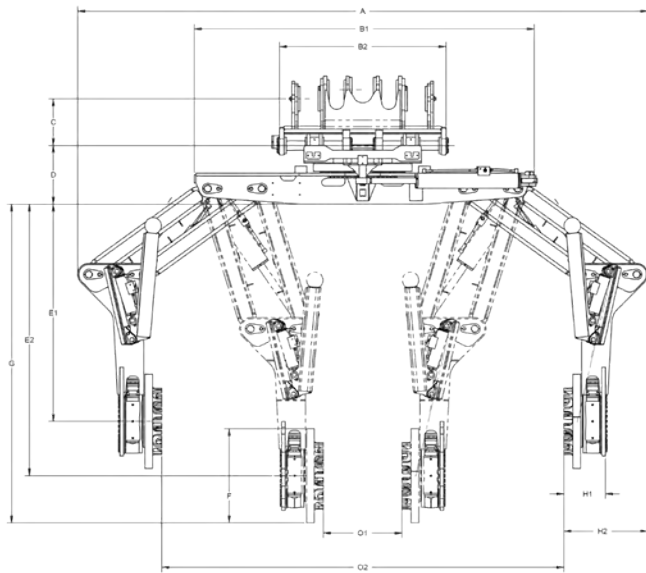


OPTIONAL AUTOMATIC PUMP & RESERVOIR

Guarded pump (12V or 24V) with 2L reservoir – adjustable grease intervals can be programmed to suit.

DIMENSIONS AND SPECIFICATIONS

TIRE MANIPULATOR - W SERIES MODELS - WL - SPECIFICATIONS (IMPERIAL)										
DIMENSION	DESCRIPTION	T5W-35	T5W-R49	T10W-R51	T15W-R51	T20W-R57	T25W-R57	T30W-R63	T35W-R63	T40W-R63
	WL CLASS	WL175	WL200	WL250	WL250-300	WL300	WL400	WL400	WL400 MAST / WL800	WL1000
	TARGET MACHINE	CAT 936	CAT 950K	CAT 966K	CAT 980K	CAT 980-986K	CAT 988K Komatsu WA600	CAT 988K	CAT 988K MAST JD 944K	CAT 992K
RESIDUAL CAPACITY										
	Ref PART #	176-401-0002	176-720-0000	176-905-0001	176-405-0000	176-410-0005	176-425-0000	176-705-0003	176-420-0003	176-735-0000
	Base Assy	369-805-0016	369-805-0010	369-805-0014	369-805-0020	369-805-0029	369-805-0017	369-805-0027	369-805-0030	369-805-0023
	Mount Assy	369-830-xxxx	369-830-xxxx	369-830-xxxx	369-830-xxxx	369-830-0010	369-830-0022	369-830-0036	369-830-0039	369-830-xxxx
	TM MAX RATED CAPACITY (LB)	5,500	5,500	10,000	15,000	20,000	25,000	30,000	35,000	40,000
	WEIGHT (LB)	3,300	3,575	6,015	7,000	11,500	15,500	18,360	22,050	21,315*
X1	C of G - HORIZONTAL	30	36	48	49.13	55.00	48.68	56.38	66.88	72*
X2	C of G - HORIZONTAL									
Y1	C of G - VERTICAL	18	18	18	19.25	19.75	19.18	20.50	22.18	28*
Y2	C of G - VERTICAL									
A	MAX WIDTH (")	119.75	141.25	177.94	177.94	202.75	221.75	221.88	242.81	248.81
B1	CROSS ARM WIDTH	89.00	86.50	106.25	106.25	127.50	138.25	137.63	145.63	150.75
B2	SIDE SHIFT FRAME WIDTH	50.75	50.75	60.88	60.88	68.50	50.00	71.50	71.50	71.5
C	MOUNT OFFSET - PIN ON	12.00	14.46	14.13	13.56	15.00	18.19	23.31	19.88	17.13
D	THICKNESS	15.64	15.63	19.00	19.00	22.81	23.19	21.00	25.00	25.00
E1	MAX OPEN REACH	48.75	58.50	61.63	62.00	67.89	87.75	99.42	92.56	91.94
E2	MIN OPEN REACH	51.75	72.19	85.88	83.50	88.94	107.50	119.25	115.13	115.12
F	PAD DIAMETER	18.00	24.00	33.50	33.50	39.50	39.50	39.94	39.94	39.94
G	MAX REACH	60.68	84.19	102.63	100.25	108.68	130.00	142.47	135.75	135.4
H1	PAD THICKNESS	8.75	8.75	13.38	13.38	14.63	15.38	15.38	18.38	18.38
H2	ARM THICKNESS	15.50	15.58	20.88	20.90	21.34	28.50	28.38	35.75	35.75
O1	MIN CLOSED	19.50	30.00	18.00	18.00	40.00	32.00	32.00	34.00	40.00
O2	MAX OPEN	88.00	110.00	136.00	136.00	160.00	165.00	165.00	170.00	177.00
	HYD CONTROL	SELECTOR SWITCH	SELECTOR SWITCH	SELECTOR SWITCH	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
		HANDLE	HANDLE	HANDLE	JOYSTICK	JOYSTICK	JOYSTICK	JOYSTICK	JOYSTICK	JOYSTICK
	FUNCTIONS	4	4	4	5	5	5	5	5	5
	PRESSURE (PSI)/ FLOW (GPM)	2500 @ 25-30	2500 @ 25-30	2500 @ 25-30	3000 @ 25-30	3000 @ 25-30	3000 @ 25-30	3000 @ 25-30	3000 @ 25-30	3000 @ 25-30
	PAD ROTATION (Deg)	360	360	360	360	360	360	360	360	360
	RIM HANDLER PADS	X	X	O	O	Y	Y	Y	Y	Y
	BOLT ON TEETH	N	N	N	N	Y	Y	Y	Y	Y
	BODY ROTATION (Deg)	90	90	90	90	90	90	90	90	90
	SIDE SHIFT	8	8	8	16	16	16	16	16	16
	FALL ARREST	MAN	MAN	MAN	HYD	HYD	HYD	HYD	HYD	HYD
	BEAD BREAKER	X	X	X	X	Y	Y	Y	Y	Y
	CENTRAL LUBE	O	O	O	O	Y	Y	Y	Y	Y
	AUTO LUBE	O	O	O	O	O	O	O	O	O



WELDCO-BEALES MFG.
SPECIALISTS IN ATTACHMENT DESIGN AND MANUFACTURING
www.weldco-beales.com

Western Canada: 1 800 665 0511
Central Canada: 1 800 661 4155
Eastern Canada: 1 877 320 4286

Last revised: August 19, 2020