

Improving safety *while* increasing production.



Photo courtesy  
ArcelorMittal

B&D Manufacturing

# MULTI HANDLER

PART OF THE WORLD'S BEST TOOLING  
PACKAGE FOR HAUL TRUCKS



**Improving safety *while* increasing production.**

## **Increase availability to your trucks by minimizing maintenance downtime using existing shop floor space with the B&D Multi Handler.**

The B&D Multi Handler is specially designed and manufactured for the mechanics on the floor and will tremendously increase safety and turnaround time on wheel motor, hoist cylinder, suspension and brake component repairs. It has been developed for haul truck components manufactured by Caterpillar, Komatsu, Liebherr and others (Bucyrus/Terex, Hitachi etc). Completely certified and supported by B&D Manufacturing and partners.

**B&D Manufacturing can custom design Multi Handler attachments to suit your fleet requirements.**

### **Servicing**

Your B&D Multi Handler is a cost effective safe solution that is powerful, reliable, secure and backed by an exclusive manufacturer warranty. A global network of expert support personnel are available for training, commissioning and technical support. All of B&D Manufacturing's equipment comes with an operators and maintenance manual.



### **Control System**

- Parker IQAN control system platform operating at 12 Vdc
- IQAN Master communicates with its expansion modules via a CAN-bus protocol
- Includes a custom designed radio remote control terminal and base unit for complete control of the equipment's functions
- Base unit communicates with the IQAN Master over CAN-bus via a J1939 communications protocol

### **Hydraulic Power Source**

- Closed centre, load sensing piston pump
- 25 US gal hydraulic reservoir
- System flow: 17 GPM (64 LPM)
- System pressure: 2,500 PSI (172 BAR)
- 5 micron absolute pressure and return filtration

# 1-800-668-0324

Outside Canada and U.S.A.: +1-705-855-2363

## B&D MULTI HANDLER

WMH-E-AC, WMH-E-DC, WMH-D

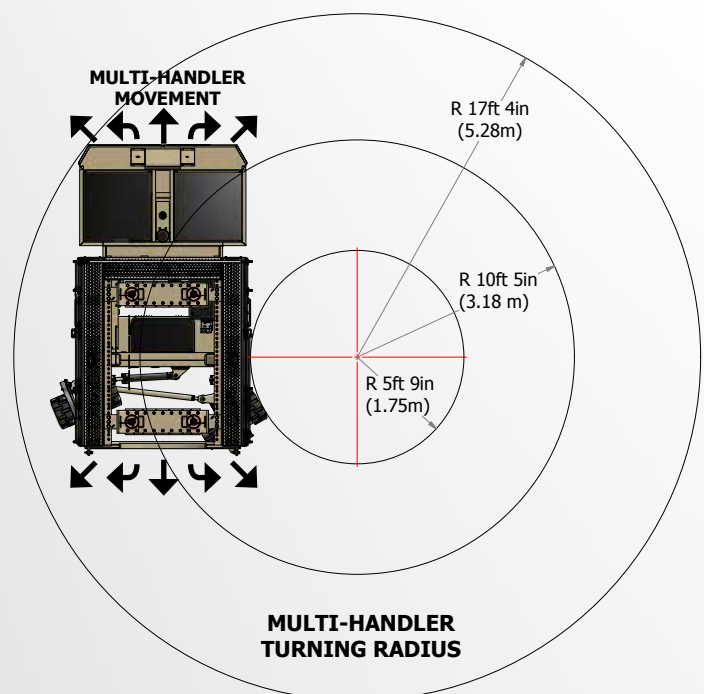


### Special Features:

- Engineered Certified
- Allows wheel motor to rotate on cradle cams
- IQAN control package
- Diesel, DC Battery or AC powered models available
- Radio remote control
- 6 all wheel drive, heavy duty grip, aggressive traction tires
- All 3 drive assemblies have 90 degrees of rotation for optimum maneuverability.
- Safe work platform with handrail for fall protection

### Optional Attachments:

- Pedestal boom attachment (pg. 7)
- Corner group tool attachment (pg. 8-9)
- Spindle hub brake removal tool attachment (pg. 10-11)
- Front strut removal tool attachment (pg. 12-13)
- Rear wheel group tool attachment (pg. 14-15)





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## B&D Multi Handler Diesel Specifications

### WMH-D

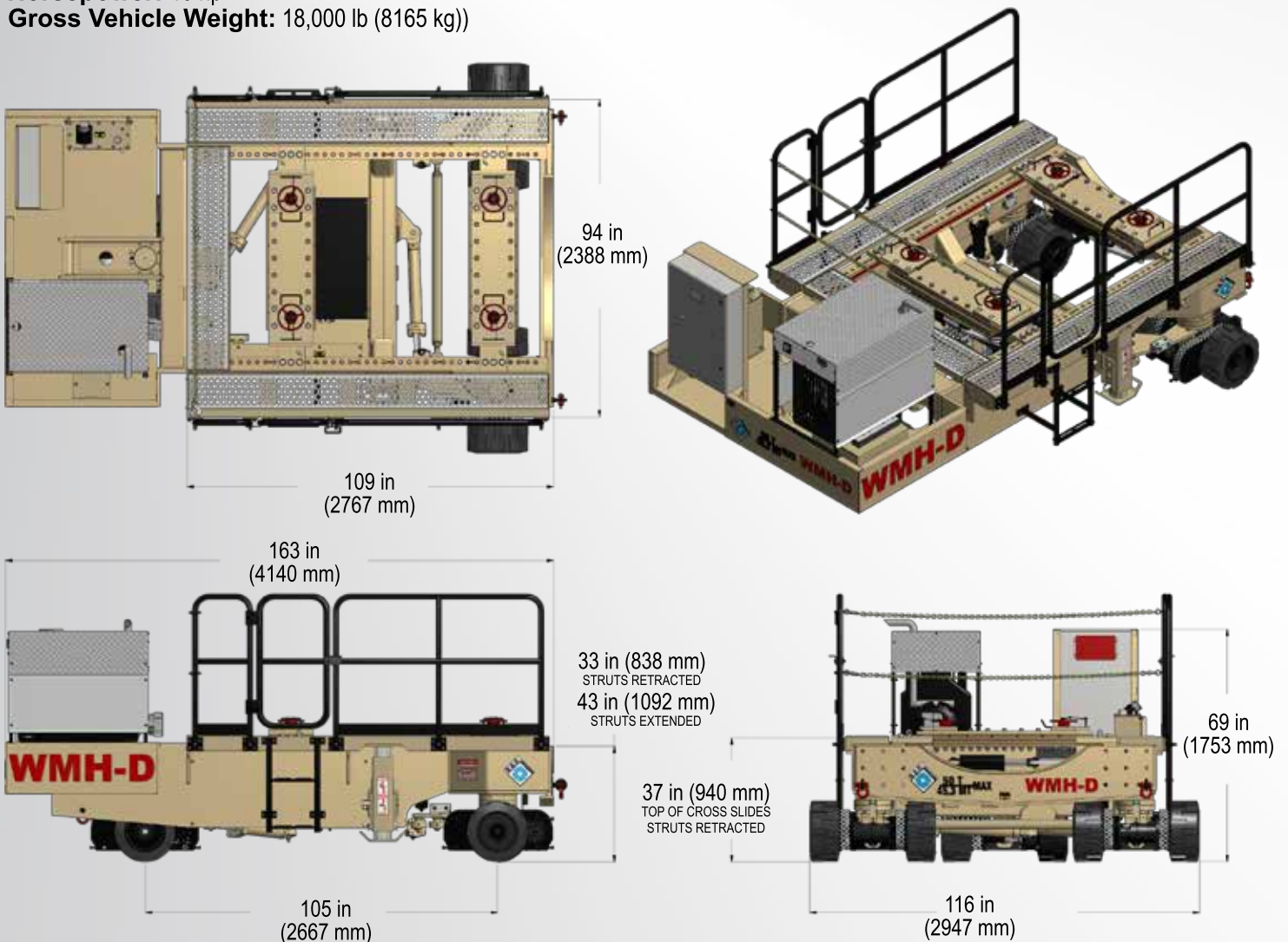
**Load Rating:** 50 Tons (45.3 MT)

**Speed:** Proportional

**Engine:** 3 cylinder diesel engine, 4 cylinder high altitude option available (Tier 4 emission standards)

**Horsepower:** 18 hp

**Gross Vehicle Weight:** 18,000 lb (8165 kg))



#### DIMENSION

**Length:** 163 in (4140 mm)

**Width:** 116 in (2947 mm)

**Height (Struts extended):** 43 in (1092 mm)

**Height (Struts retracted):** 33 in (838 mm)

#### HYDRAULIC SYSTEM

**Hydraulic System Flow:** 17 GPM (64 LPM)

**Hydraulic System Pressure:** 2500 PSI (172 BAR)

#### CAPACITIES:

**Fuel:** 12.5 US Gallon (47 Liters)

**Hydraulic Oil Capacity:** 25 US Gallon (95 Liters)

## B&D Multi Handler Electric AC Specifications

### WMH-E-AC

**Load Rating:** 50 Tons (45.3 MT)

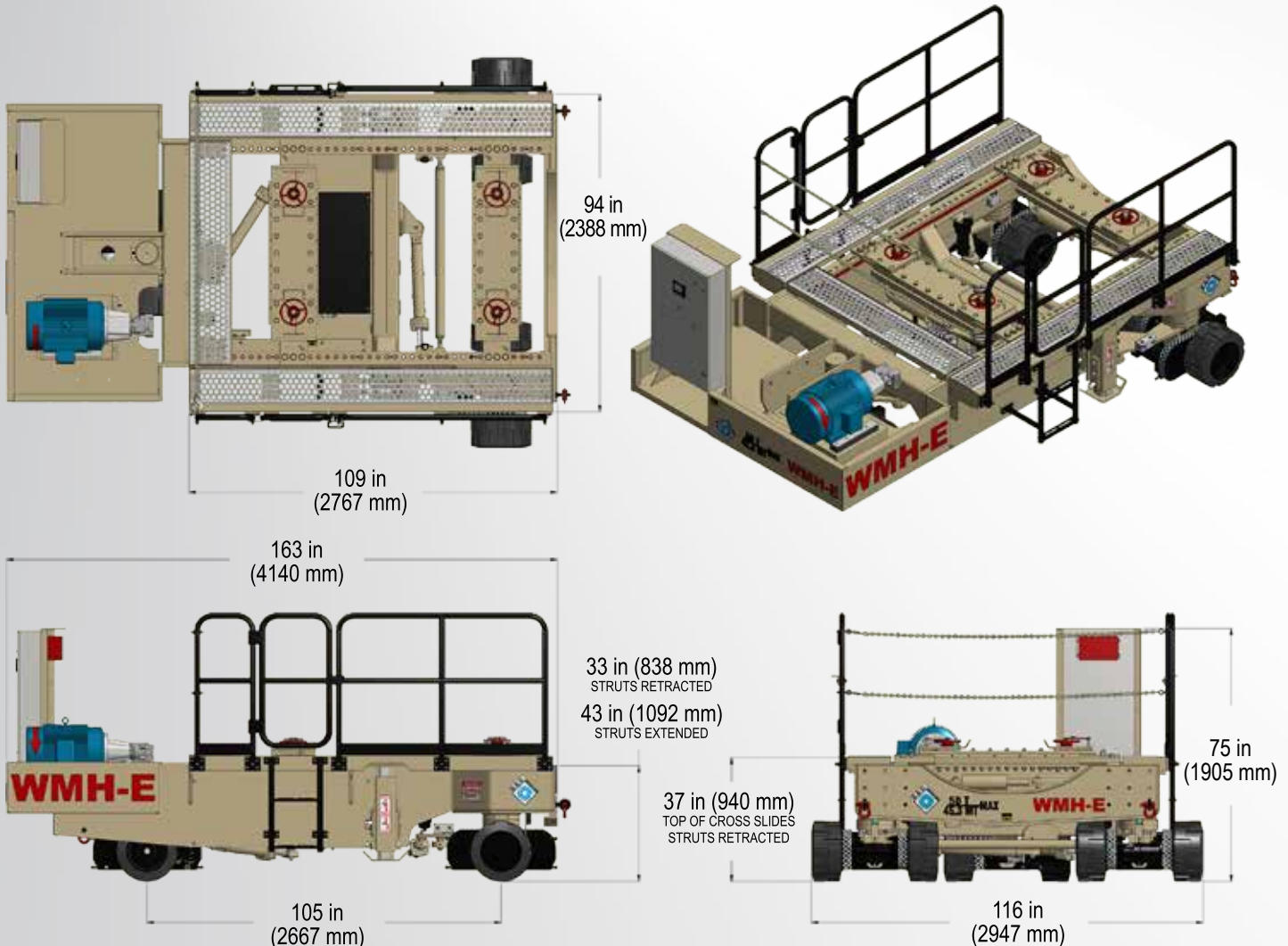
**Speed:** Proportional

**Motor:** 3 phase AC motor with soft starter

**Horsepower:** 20 hp

**Gross Vehicle Weight:** 18,000 lb (8165 kg)

- Includes a main fused disconnect switch
- Includes a control transformer and 120 Vac to 12 Vdc converter that supplies power to the control system
- Electrical system requires a 380/480/575 Vac 50 amp 50/60 hz, 3 wire plus ground power supply
- Power supply requirements tailored to meet your needs



#### DIMENSION

**Length:** 163 in (4140 mm)

**Width:** 116 in (2947 mm)

**Height (Struts extended):** 43 in (1092 mm)

**Height (Struts retracted):** 33 in (838 mm)

#### HYDRAULIC SYSTEM

**Hydraulic System Flow:** 17 GPM (64 LPM)

**Hydraulic System Pressure:** 2500 PSI (172 BAR)

#### CAPACITIES:

**Fuel:** 12.5 US Gallon (47 Liters)

**Hydraulic Oil Capacity:** 25 US Gallon (95 Liters)



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## B&D Multi Handler Electric DC Specifications

### WMH-E-DC

**Load Rating:** 50 Tons (45.3 MT)

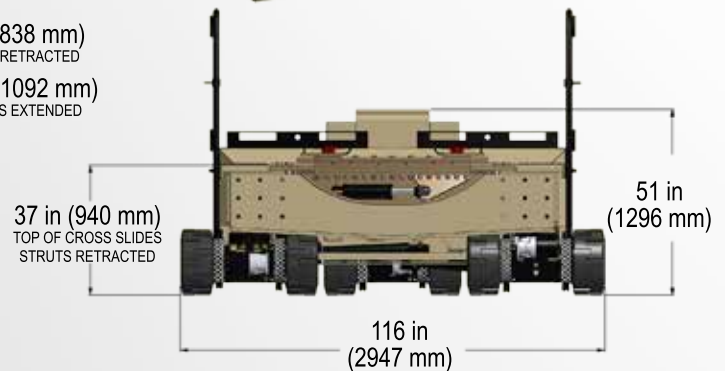
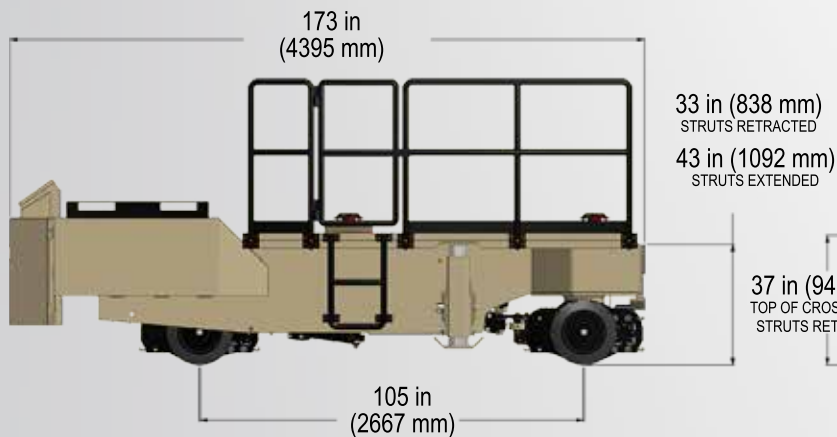
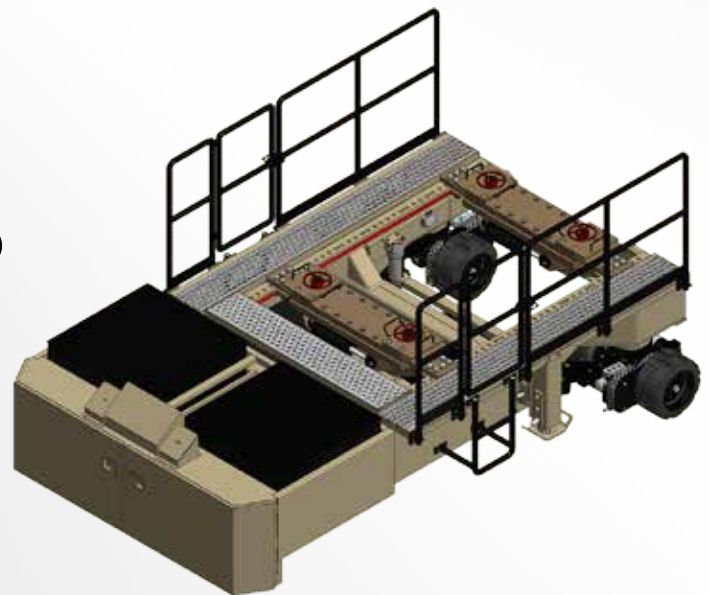
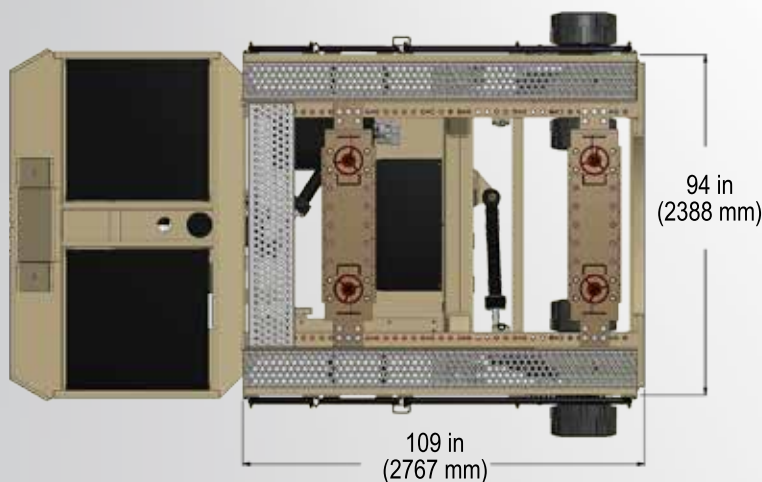
**Speed:** Proportional

**Motor:** 96Vdc DC motor and DC motor controller

**Horsepower:** 20 hp

**Gross Vehicle Weight:** 30,000 lb (13608 kg)

- 96 Vdc power supplied from two 48 Vdc 1,020 amp-hour rated industrial battery packs connected in series
- Includes two battery controllers to monitor state of charge of each industrial battery packs
- Includes a 96 Vdc to 12 Vdc converter that supplies power to the control system
- Includes 2 industrial battery chargers (1 per pack)
- Each industrial battery chargers requires a 380/480/575 Vac 50 amp 50/60 hz, 3 wire plus ground power supply



#### DIMENSION

**Length:** 173 in (4395 mm)

**Width:** 116 in (2947 mm)

**Height (Struts extended):** 43 in (1092 mm)

**Height (Struts retracted):** 33 in (838 mm)

#### HYDRAULIC SYSTEM

**Hydraulic System Flow:** 17 GPM (64 LPM)

**Hydraulic System Pressure:** 2500 PSI (172 BAR)

#### CAPACITIES:

**Fuel:** 12.5 US Gallon (47 Liters)

**Hydraulic Oil Capacity:** 25 US Gallon (95 Liters)

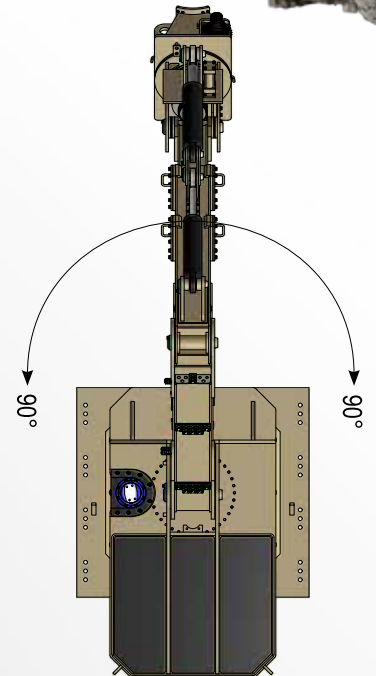
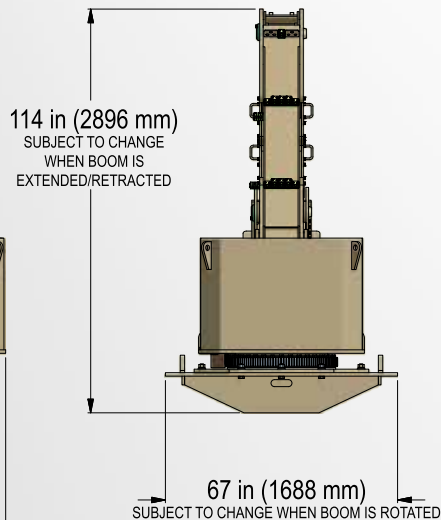
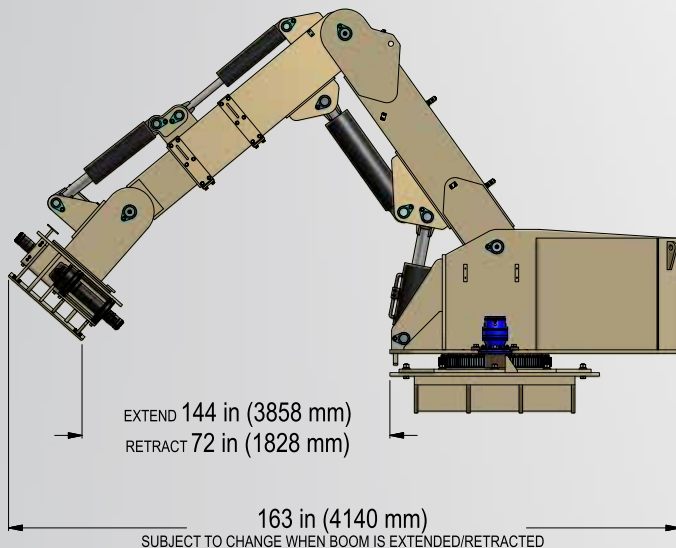
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## Pedestal Boom

### WMHA-PB-2

- Mounts to base B&D Multi Handler and is used to install and remove rear struts and main hoist (dump body) cylinders.
- Control of Pedestal Boom functions has been integrated into the B&D Multi Handler's wireless radio remote controller and base unit with our latest product offering.
- The operator is able to individually control the following 7 axes of motion: base left/right, boom up/down, dipper up/down, end-effector angle left/right, end-effector grab hold/release, end-effector tilt forward/ back and end-effector extend in/out.
- End-effector includes two hydraulically operated winches with straps.



ROTATION FROM THE CENTRE LINE OF THE B&D WMH FRONT END	MAXIMUM REACH HEIGHT MOUNTED ON THE B&D WMH	MINIMUM REACH HEIGHT MOUNTED ON THE B&D WMH	WEIGHT	LOAD RATING
90° Left 90° Right 180° Total	11 ft (3352 mm) from ground surface	to ground surface	26,000 lb 11,794 kg	4,000 lb 1,815 kg



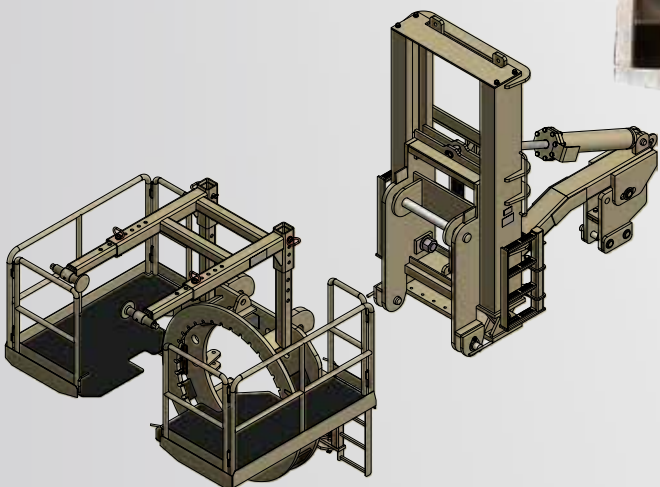
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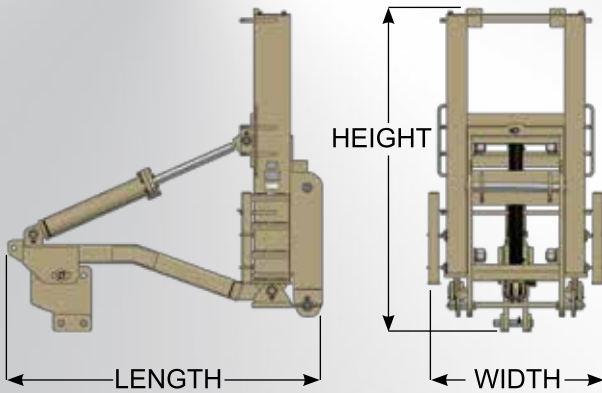
## **Corner Group Tool** **WMHA-CGT-U**

Attaches to base B&D Multi Handler. Serves as a 3-in-1 tool through the use of various adapter attachments to install and remove either the haul truck's entire front corner group (spindle/brake assembly and front suspension cylinder) as one complete unit or the spindle/brake assembly and the front suspension cylinder split from each other as two separate units. Hydraulic cylinder motion is controlled with the B&D Multi Handler wireless radio remote controller.

- Adapter attachments built with work platforms for mechanics
- Tilts spindle/brake and suspensions to accommodate balanced lift from an overhead crane

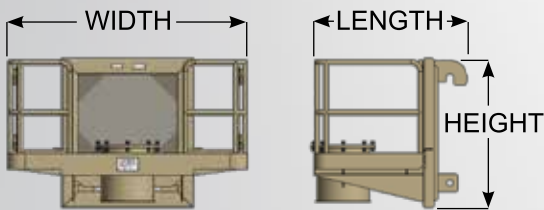
**Custom designed adapter ring assemblies to suit your fleet.**





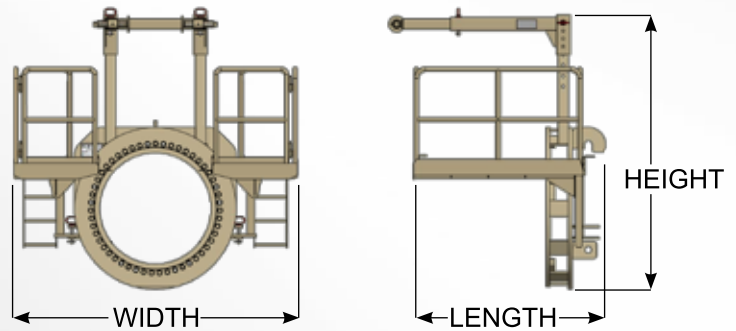
## Corner Group Tool Specifications

PART NUMBER	LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD RATING
<b>WMHA-CGT-U</b>	106 in 2693 mm	60 in 1512 mm	110 in 2782 mm	6,800 lb 3,085 kg	22,000 lb 9,980 kg



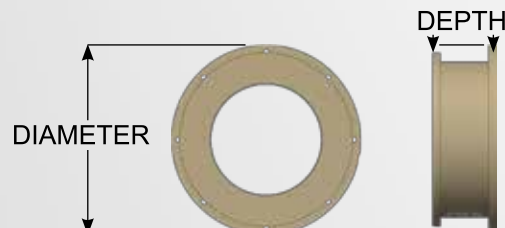
## Strut Jig Assembly Specifications

OEM Truck	Komatsu 830E	Komatsu 930E
STRUT JIG ASSEMBLY	<b>CGT-SJ-830E</b>	<b>CGT-SJ-930E</b>
LENGTH	58 in 1457 mm	58 in 1457 mm
WIDTH	911 in 23114 mm	911 in 23114 mm
HEIGHT	56.25 in 1428.75 mm	56.25 in 1428.75 mm
WEIGHT	2265 lb 1027.4 kg	2265 lb 1027.4 kg
LOAD RATING	8,200 lb 3,719 kg	8,200 lb 3,719 kg
STRUT RING	<b>CGT-SR-830E</b>	<b>CGT-SR-930E</b>
DEPTH	8 1/8 in 206.37 mm	24 in 609.6 mm
DIAMETER	10 in 254 mm	24 in 609.6 mm



## Adaptor Assembly Specifications

OEM Truck	Komatsu 830E	Komatsu 930E-1	Komatsu 930E-4
ADAPTOR ASSEMBLY	<b>CGT-ADP-830E</b>	<b>CGT-ADP-930E1</b>	<b>CGT-ADP-930E4</b>
LENGTH	73.5 in 1867 mm	73.5 in 1867 mm	73.5 in 1867 mm
WIDTH	101.5 in 2578 mm	107 1/2 in 2730.5 mm	107 1/2 in 2730.5 mm
HEIGHT	98 1/2 in 2501.9 mm	83 3/4 in 2127.25 mm	84 1/4 in mm
WEIGHT	3350 lb 1,520 kg	3,400 lb 1,542.2 kg	3,200 lb 1,451.5 kg
LOAD RATING	15,000 lb 6,803.8 kg	19,000 lb 8,618.25 kg	19,000 lb 8,618.25 kg





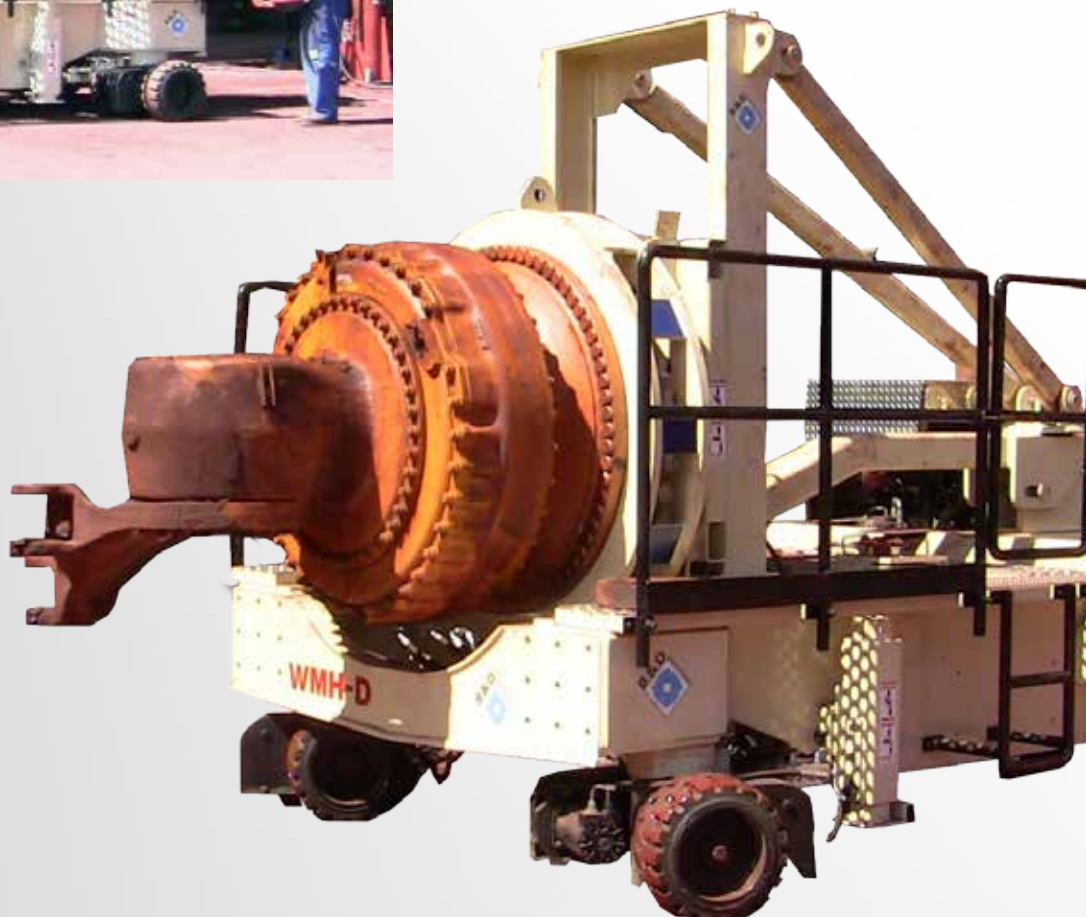
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## Spindle Hub Brake Removal Tool

### WMHA-SHBRT-U

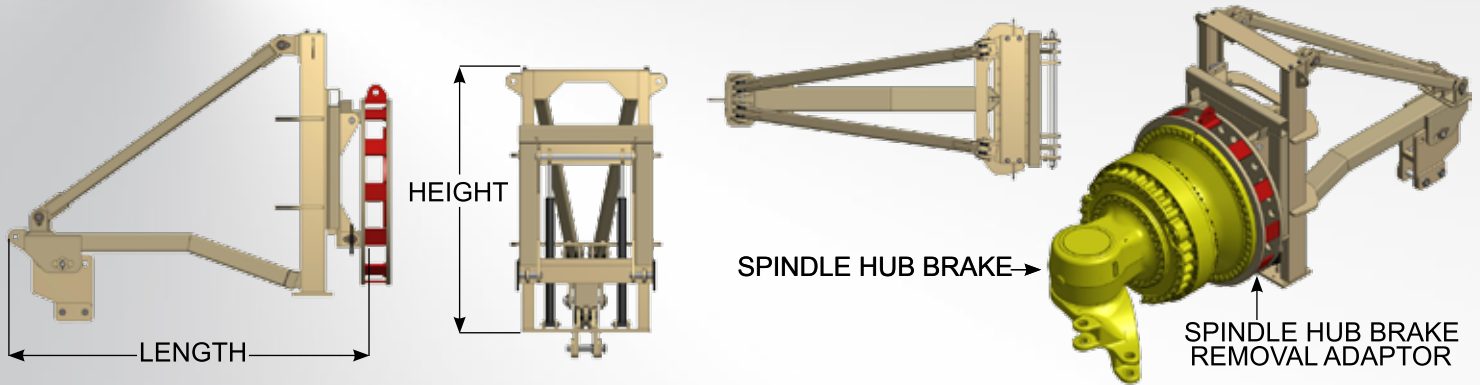
- Attaches to base B&D Multi Handler to install and remove the haul truck's split front spindle/hub assembly from the front suspension cylinder through the use of adapter attachments. Hydraulic cylinder motion is controlled with the B&D Multi Handler wireless radio remote controller.

Custom designed adapter ring assemblies to suit your fleet.



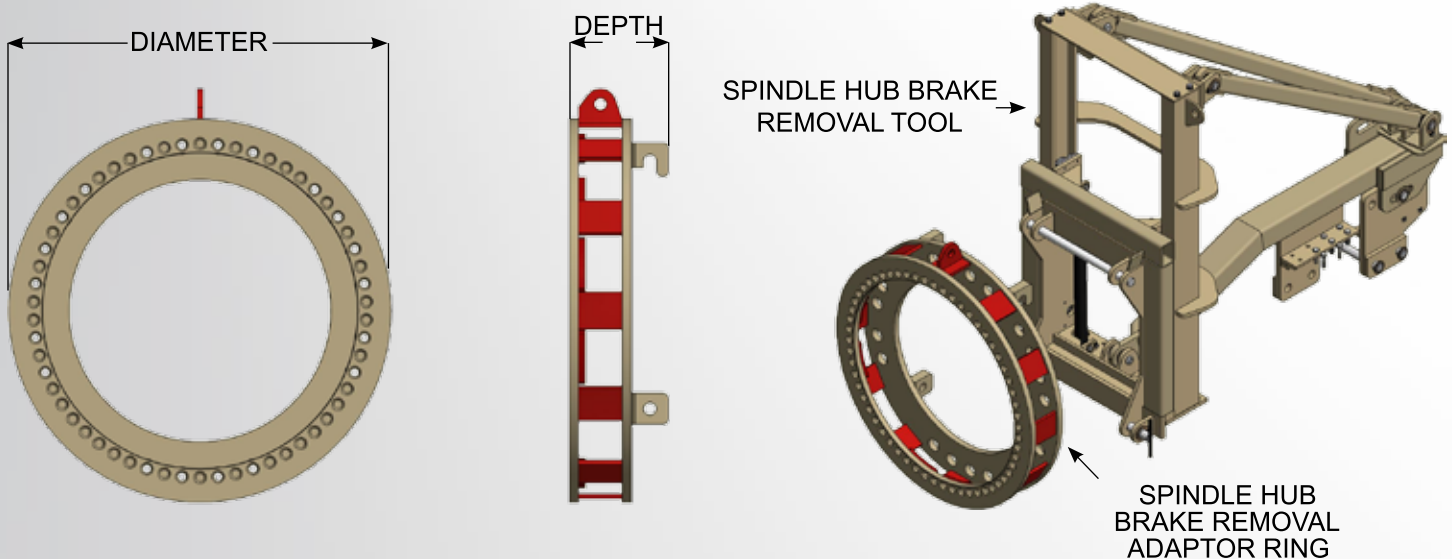
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## Spindle Hub Brake Removal Tool Specifications

PART NUMBER	LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD RATING
<b>WMHA-SHBRT-U</b>	117 in 2964 mm	54 in 1352 mm	90 in 2286 mm	3,456 lb 1568 kg	13,000 lb 5897 kg



## Adaptor Rings Specifications

OEM Truck	PART NUMBER	DIAMETER	DEPTH	WEIGHT
Komatsu 730E	<b>SHBRT-ADP-730</b>	62 in 1563 mm	16 in 407 mm	1,345 lb 610 kg
Komatsu 860E	<b>SHBRT-ADP-860</b>	62 in 1563 mm	16 in 407 mm	1,330 lb 605 kg
Komatsu 960E	<b>SHBRT-ADP-960</b>	62 in 1563 mm	16 in 407 mm	1,220 lb 555 kg
Caterpillar 793	<b>SHBRT-ADP-793</b>	62 in 1563 mm	16 in 407 mm	1,315 lb 600 kg
Caterpillar 797	<b>SHBRT-ADP-797</b>	62 in 1563 mm	16 in 407 mm	1,160 lb 527 kg



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## **Front Strut Removal Tool**

### **WMHA-FSRT-U**

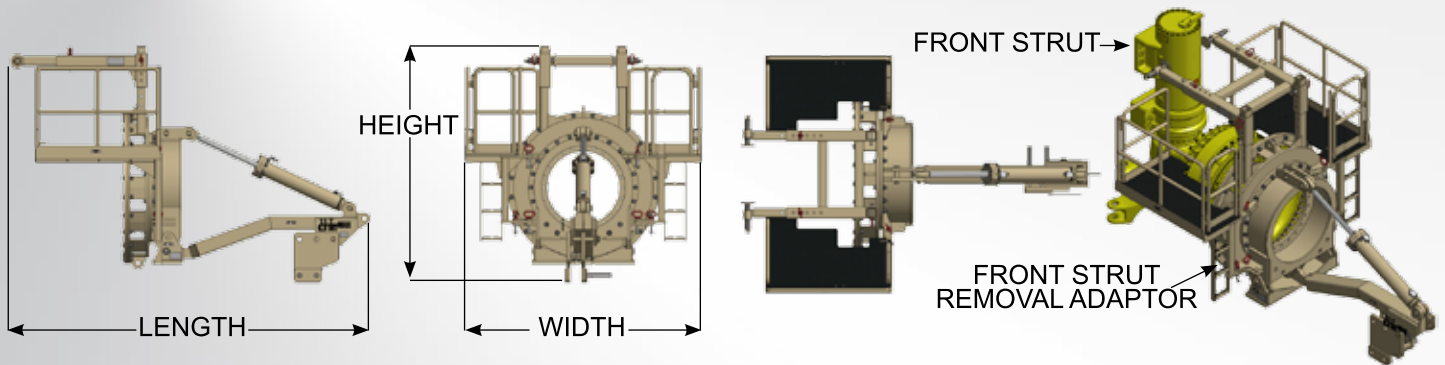
- Attaches to base B&D Multi Handler to install and remove any model front suspension (corner group) through the use of adapter rings
- Hydraulic cylinder motion is controlled with the B&D Multi Handler's wireless radio remote controller
- Built with a work platform
- Tilts strut and hub to accommodate a balance lift from an overhead crane

**Custom designed adapter ring assemblies to suit your fleet.**



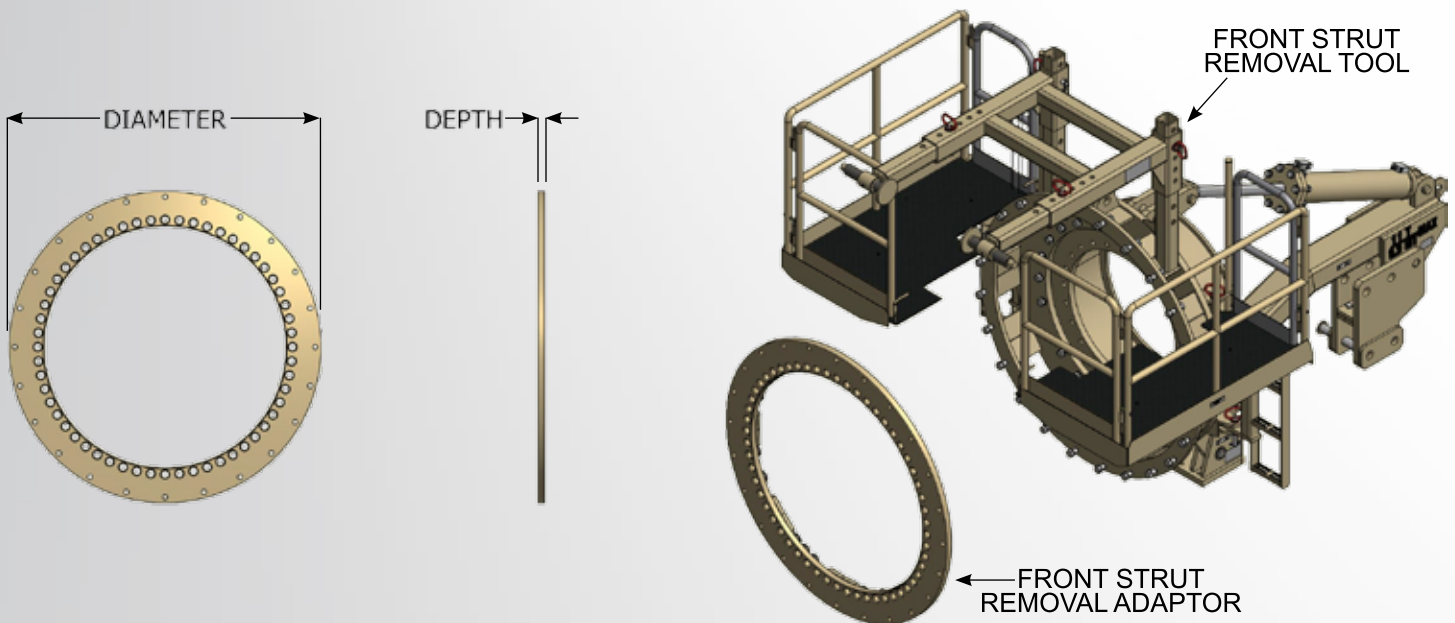
# 1-800-668-0324

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## Front Strut Removal Tool Specifications

PART NUMBER	LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD RATING	CAPACITY PER SIDE
<b>WMHA-FSRT-U</b>	159 in 4032 mm	105 in 2654 mm	104 in 2642 mm	5,800 lb 2,630 kg	24,250 lb 11,000 kg	1 person / 350 lb 1 person / 159 kg



## Adaptor Rings Specifications

OEM TRUCK	PART NUMBER	DIAMETER	DEPTH	WEIGHT	OPTIONAL STRUT COLLAR
Komatsu 830E	<b>FSRT-ADP-830E</b>	67 in 1,683 mm	1 ½ in 39 mm	690 lb 313 kg	830-FSRT-M-R000
Komatsu 930E	<b>FSRT-ADP-930E</b>	67 in 1,683 mm	1 ½ in 39 mm	580 lb 264 kg	930-FSRT-M-R000
Caterpillar 793	<b>FSRT-ADP-793</b>	67 in 1,683 mm	1 ½ in 39 mm	718 lb 326 kg	793-FSRT-M-R000
Caterpillar 797	<b>FSRT-ADP-797</b>	67 in 1,683 mm	1 ½ in 39 mm	540 lb 245 kg	797-FSRT-M-R000

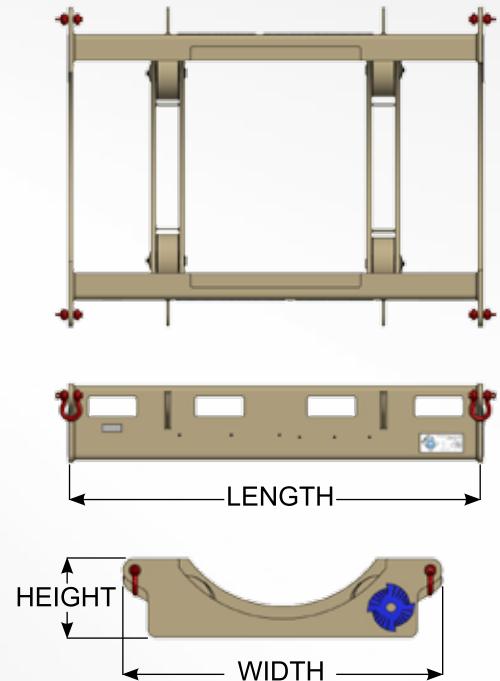


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## Rear Wheel Group Removal Tool

### WMHA-RWG-XXXX

- Attaches to base B&D Multi Handler cross slide assembly to install and remove truck wheel motor (final drive) assemblies.
- Custom designed rollers have been incorporated in each of the RWG's design to allow the end-user's service personnel to manually rotate and line up the wheel motor or final drive during installation.



#### Rear Wheel Group Tool Specifications

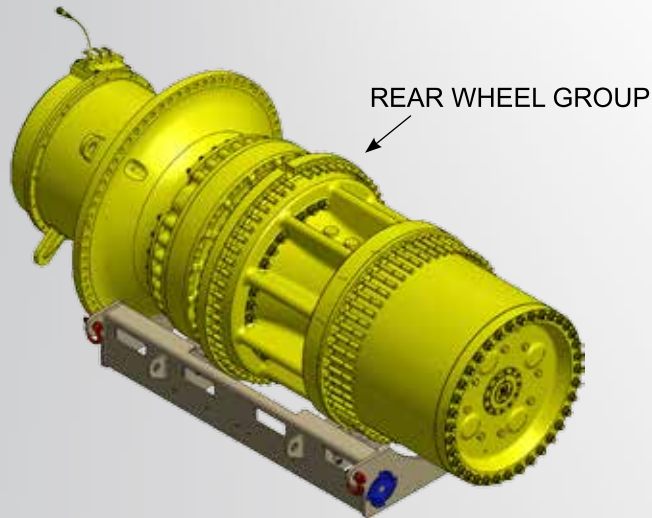
OEM TRUCK	PART NUMBER	LENGTH	WIDTH	HEIGHT	WEIGHT	LOAD RATING
Komatsu 730E	<b>WMHA-RWG-730E</b>	92 in 2337 mm	66 in 1677 mm	17 in 432 mm	2,102 lb 954 kg	26,000 lb 11,793 kg
Komatsu 830E	<b>WMHA-RWG-830E</b>	90 in 2286 mm	66 in 1677 mm	18 in 458 mm	1,739 lb 789 kg	30,000 lb 13,608 kg
Komatsu 860E	<b>WMHA-RWG-860E</b>	86 in 2185 mm	66 in 1677 mm	19 in 483 mm	2,132 lb 968 kg	40,000 lb 18,144 kg
Komatsu 930E-4	<b>WMHA-RWG-5GDY106</b>	86 in 2185 mm	66 in 1677 mm	17 in 432 mm	1,900 lb 862 kg	43,000 lb 19,505 kg
Komatsu 930E-1	<b>WMHA-RWG-5GDY85</b>	86 in 2185 mm	66 in 1677 mm	17 in 432 mm	1,900 lb 862 kg	43,000 lb 19,505 kg
Komatsu 960E	<b>WMHA-RWG-960E</b>	86 in 2185 mm	66 in 1677 mm	20 in 508 mm	1,981 lb 899 kg	48,000 lb 21,773 kg
Caterpillar 785	<b>WMHA-RWG-785</b>	95 in 2413 mm	66 in 1677 mm	15 in 381 mm	2,100 lb 953 kg	12,000 lb 5,443 kg
Caterpillar 793	<b>WMHA-RWG-793</b>	86 in 2185 mm	66 in 1677 mm	19 in 483 mm	2,130 lb 967 kg	17,200 lb 7,802 kg
Caterpillar 797	<b>WMHA-RWG-797B</b>	100 in 2540 mm	66 in 1677 mm	27 in 686 mm	1,607 lb 729 kg	33,000 lb 14,969 kg
Hitachi 5000	<b>WMHA-RWG-5000</b>	92 in 2337 mm	66 in 1677 mm	17 in 432 mm	2,102 lb 954 kg	40,000 lb 18,144 kg

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Custom designed attachment to suit your fleet.



## B&D MAINTENANCE SUPPORT EQUIPMENT PACKAGE

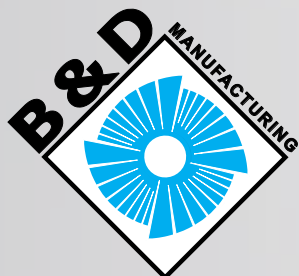
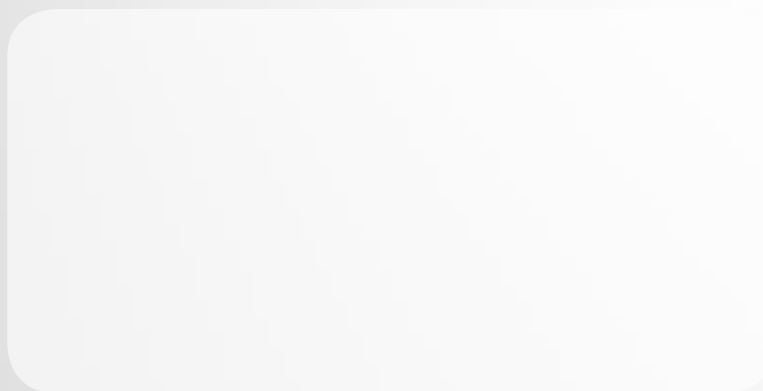
B&D Manufacturing can increase availability and profitability to your trucks and shovels by minimizing maintenance downtime using existing shop floor space or pad.

Our unique package includes:

- B&D Multi Handler
- B&D Swing Shaft Changer
- Spreader Bars
- Safety Stands
- B&D Super Jack
- B&D Portable Align Boring Machines
- Work Platforms
- Effluent Tanks
- B&D Tire Handler Station
- Wheel Chocks



Your local distributor:



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Toll-free in Canada and U.S.A.:

**1-800-668-0324**

International:

**+1-705-855-2363**

**[sales@bdmfg.com](mailto:sales@bdmfg.com)**

**[www.bdmfg.com](http://www.bdmfg.com)**



B&D Manufacturing, Chelmsford, Ontario, Canada