

INDUSTRIAL TOOLS & ATTACHMENTS

#### Contact information and manufacturing locations

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#### **Akron Facility**

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### **Brazil Facility**

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### **Delhi Facility**

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### **Dexter Facility**

2800 Zeeb Rd. Dexter, MI 48130

### **Ooltewah Facility**

8822 Apison Pike Ooltewah, TN 37363

### **Portland Facility**

18135 SW Boones Ferry Rd. Portland, OR 97224

### **Surrey Facility**

2800 Zeeb Rd. Dexter, MI 48130



# **12** Brands You Can Trust Hundreds Of Tough Attachments

Paladin Powerful Attachment Tools is one of the largest independent manufacturers of coupler systems and attachment tools for carriers, from small compact tool carriers to large excavators, wheel loaders, tractors and truck chassis.

Unifying eleven industry-leading brands with more than 300 years of combined experience, we offer hundreds of innovative and performance-driven coupler systems and attachment tools for all makes and models. Our collective partnership and shared resources foster innovation, manufacturing excellence and quality.

We are your one reliable coupler system and attachment tool partner for every job!

CP
CUSTONWORKS
CWS
JEWELL
J:B
STRIKE/FORCE

BRADCO
FFC
HARLEY
KODIAK
Sined EXMAGMILLEN
SWEEPSTER





CustomWorks is a dynamic solutions provider, specializing in equipment modification when standard machines won't meet the performance requirements. Offering a broad range of products and services, a dedicated CustomWorks crew will engineer, manufacture and install a custom solution tailored to the application.

With four convenient locations, CustomWorks can modify equipment needing light enhancements or complex conversions not available through the OEM. After a rigorous inspection process, the machines will ship turnkey direct to the dealer yard or end user. The CustomWorks solution creates versatility so machines can be used in a wider range of applications across more markets.

#### **Light Enhancements**

Pre-Delivery Inspections Pattern Control Changer
➤ PDI and PDI PLUSProportional Joystick Control Beacon/Strobe Decals
Block Heaters QC Attachments
Hydraulic Filter Restriction Indicators Two Way Electric Solenoid

#### **Moderate Modifications**

Expanded Hydraulic Plumbing Kit Installs Guards for Windows/Cab Top/Booms Jump Start Kits Rear Window Defrost Kits Level 1 Corrosion Package Blade/Ripper/Winch Complex AT Field Kits Hydraulic Attachments (Couplers/Thumbs)

#### **Complex Conversions**

Full Machine Guarding Installs Cab Riser/Positioners AFEX Fire Suppression Systems Long Reach Booms Lincoln Lube Systems Positive Air Shutoff Snow Wing Installs multi-functional Attachment Installs

#### Why Choose CustomWorks?

Flexibility. The experienced technicians at CustomWorks will work to customize a solution specifically for you. We can provide the parts, or coordinate the whole process and ship a finished product, ready to use, and hassle-free. Bring us your challenges and let us help you.







CWS is known for designing, engineering and manufacturing top-quality cabs, conversions and attachments for heavy machinery. Due to high quality performance, reliability and service, CWS products are in demand and utilize worldwide in many industries including some of the harshest climates across the globe.

Engineering and manufacturing capabilities allow CWS to produce attachments for the smallest to largest heavy machinery in the world including backhoes, wheel loaders, dozers, articulated trucks and tractors, motor graders and more. All products are covered with the most comprehensive warranty package in the industry.

#### Serving Your Market

- Mining
- Oil & Gas
- Construction
- Agriculture
- Forestry
- Material Handling

#### Attachment Solutions

- · Wheel Loader Buckets
- Snow Removal
- Grapples
- · Excavator Buckets
- Rakes
- Blades
- Rippers
- · Lifting Devices
- · Hydraulic Thumbs
- Forestry Products



### **DEMOLITION CONVERSIONS**

Jewell provides custom machines for the world's harshest environments including forestry, demolition, scrap recycling, material handling, and construction industries. While converting standard excavators into tough, robust machines capable of conquering diverse job site challenges, Jewell can build a machine to meet your task.





#### GROUND LEVEL DEMOLITION CONVERSION

- · Oversized hoist cylinders
- Additional counterweight with reinforcement
- Factory stick and bucket cylinder
- · Cab tilt or lift/tilt system
- Articulating cab lift/tilt system
- Excavator demolition guarding package
- Full deck safety handrails

- · Cab guard with demolition glass in front and top cab windows
- Computer controlled hydraulic system
- Dust suppression water system
- · Attachment camera monitoring system
- Main boom manual transport joint
- · 10' main boom extension
- Custom boom trailer with transport cradles

#### STANDARD HIGH REACH DEMOLITION CONVERSIONS

- OEM or oversized hoist cylinders
- Additional counterweight with reinforcement
- Cab tilt or lift/tilt system
- Excavator demolition guarding package
   10' main boom extension
- · Full deck safety handrails
- FOPS cab guard with armored demolition glass
- Computer controlled hydraulic system
- Dust suppression water system
- Attachment camera monitoring system Main boom manual transport joint
- Custom boom trailer with transport cradles

#### DIAMOND SERIES: ULTRA HIGH REACH / TELESCOPIC BOOM / HIGH CAPACITY TOOL DEMOLITION CONVERSIONS

- Oversized hoist cylinders
- Telescoping main end section
- Additional counterweight with reinforcement
- Articulating cab lift/tilt system
- Excavator demolition guarding package
- Full deck safety handrails

- · FOPS cab guard with armored demolition glass
- Computer controlled hydraulic system
- Dust suppression water system
- Attachment camera monitoring system
- Main boom manual transport joint
- 10' main boom extension
- Custom boom trailer with transport cradles



#### MULTI-FUNCTION DEMOLITION TOOL CONTROL SYSTEM







Hitachi ZX450 CAB **Positioning System** 



Kohelco SK250 lewell Clamshell Bucket

Jewell installs auxiliary valves and controls for operation of the Jewell front working stick, attachment open/close-rotate and excavator thumb functions. This includes electro hydraulic pilot diverters for working stick and operator enabled electro proportional logic pressure controls for auxiliary (hammer/ thumb) attachment circuits. These functions are performed and controlled through Jewell computer controlled touch screen demolition control system mounted in the operations cab.

#### CUSTOM EXCAVATOR DEMOLITION GUARDING PACKAGE

Designed for Demolition and Material Handling



#### **GUARDING PACKAGE COMPONENTS:**

- Elevated cab risers and hydraulic tilt cab risers
- Arm and bucket cylinder guards
- Front guarding to protect fuel and hydraulic tanks
- Side guarding to protect machine operating Full length rock guards components
- · Heavy duty rear corner doors
- Operator cab guard for cab riser

- Cab guard for standard excavator
- · Cab guard with screen
- · Full length catwalks
- Machinery under house guarding
- · Car body belly pan
- · Idler guides and rail stiffeners
- · Custom additional counterweight

## **JEWELL**

#### TOUGH JOBS...TOUGH MACHINES

#### LONG REACH FRONTS FOR EXCAVATORS

Designed and manufactured for all excavator makes from 12t to 200t. Long reach fronts are engineered to use OEM hoist cylinders and boom foot pins. Option to use Jewell provided stick and bucket cylinders or OEM provided components. Custom additional counterweights to match excavator.





## CLAMSHELL BUCKET, BRUSH RAKES, GRAPPLE RAKES & CONTRACTORS GRAPPLES



Attaches to excavators, log loaders and road builders. Custom designed to fit one or several machines. Designed for excavation, demolition, waste handling, C&D sorting, and scrap handling.

#### STANDARD FEATURES:

- Designed and manufactured for rugged demolition and material handling applications
- Head can be designed to pin on excavator front, or for manual quick change
- Full articulation using bucket cylinder and linkage
- 360° continuous rotation

- High torque, gear reduction drive with internal crossover relief
- Easily removable guarding for access to all hydraulic components
- Large diameter, induction hardened chrome pins and hardened steel bushings

#### HYDRAULIC LOGGING GRAPPLES







#### STANDARD FEATURES:

- · Designed and manufactured for rugged shovel logging applications
- Grapple arms designed with mounting lugs for optional bolt on quick change brush rake arms
- Standard on 52", 58" and 66" arms
- Easily removable guarding for access to all hydraulic components
- Large diameter, induction hardened alloy pins and bushings used in arms and cylinders
- Designed for high pressure hydraulic systems
- Easy maintenance

| Models     | Weight     | Open | Closed |
|------------|------------|------|--------|
| JM3042LG   | 1080 lbs.  | 42"  | 4"     |
| JM3048LG   | 1,350 lbs. | 48"  | 4"     |
| JM4052LGBR | 2,200 lbs. | 52"  | 6"     |
| JM4058LGBR | 2,280 lbs. | 58"  | 6"     |
| JM5063HDSL | 2,960 lbs. | 63"  | 6"     |
| JM5566HDSL | 3,910 lbs. | 66"  | 7"     |

#### STANDARD LINK

Available for all make and model fronts.



#### JEWELL HEAVY DUTY LINK

Available for Jewell heel designed for hoses to route through center of heel and link.



#### FORESTRY EXCAVATOR CONVERSIONS AND ATTACHMENTS

Log Loader | Log Loader Yarder | Tong Throwers | Load Loaders/Processors Processors | Winch Installations | Timber Mast'r Yarder | Log Grapples Clamshell Buckets





CAT 325B Timber Mast'r

Kobelco Log Loader with Jewell Forestry Cab





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**BOOMS** 









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## MINI / EXCAVATORS / BACKHOES

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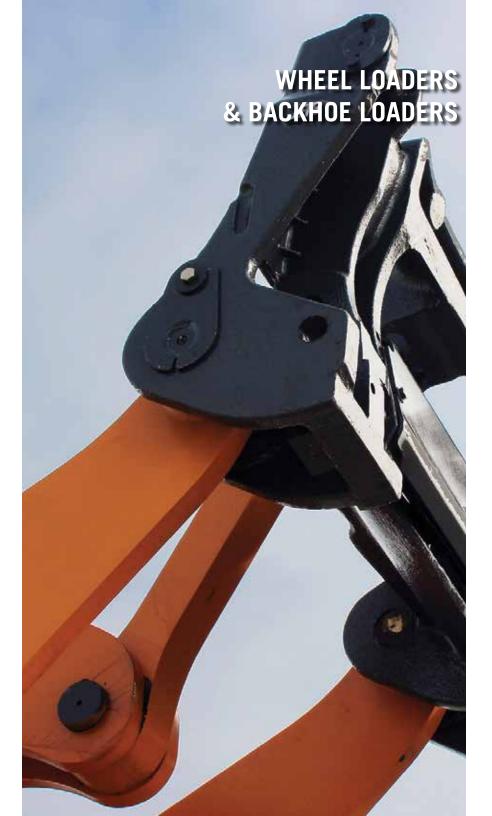






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## **COUPLERS & ATTACHMENTS**



## **Single Interchange Couplers**



JRB has been the leader in wheel loader couplers since the introduction of its JRB interchange couplers over 30 years ago. Our couplers are designed to provide exceptional visibility while providing strength and durability needed to handle any task.

JRB single interchange couplers provide added versatility to your loader. Quickly change attachments without leaving the cab.

- Available in JRB, ISO and other interchanges
- Maximum visibility in key areas for easier operation of forks or when connecting attachments

## **NEXUS™ Cast Multi Pick-Up Coupler**



A Frame



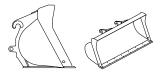
B Frame

- ·Patented, replaceable ISO pins and 416 collars extend the life of the coupler
- · Cast design adds strength and durability
- Coupler is constructed out of cast steel which does not interfere with the ability to weld or grind on the coupler if necessary
- Hydraulic plunger visibility aids in proper attachment engagement
- Optimized coupler weight distribution improves center of gravity ratio for improved load stabilization
- •167 square inches of visibility added to the center of the coupler for improved load management and safer operation
- Certain OEM attachments may not fit properly with interchange couplers
- •Includes JRB Hydraulic installation kit
- Available for select machines in 200, 300 & 500 classes

## **BUCKETS**







- Material density 1800 to 3000 pounds
- Sloped-bottom design allows for maximum fill capabilities and material retention
- Slope bottom increases dump angle by 5° for more efficient dumping capabilities
- Minimum 36 KSI yield steel construction
- Minimum 400 Brinell wear areas.
- Custom buckets available by request
- Rubber edges available by request
- Widths and cutting edge hole patterns drilled to OEM standard wear parts specification
- Available as pin-on or compatible with Quick Coupler System
- •100, 200, 300, 500, 600, 700, 800, & 900 classes

## J:B Multi-Purpose Buckets



- Versatile in handling excavating, grappling, loading, and top dumping
- Double bottom clam floor design provides greater strength and durability
- Equipped with standard bolt-on moldboard cutting edges; heat-treated

steel pins and bushings; heavy-duty hydraulic cylinders with protected hydraulic lines; greased pivot pins

- •Clam-front cutting edge drilled to OEM standard wear parts specification
- Available as pin-on or compatible with JRB's Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for operation. Bucket supplied with attachment side whip hoses
- •100, 200, 300, 500, 600, 700, 800 and 900 classes





- Designed for capacity of 1800 pounds per cubic yard
- Sloped-bottom design allows for maximum fill capabilities and material retention
- Slope Bottom increases dump angle by 5° for more efficient dumping capabilities
- Minimum 36 KSI yield steel construction
- Minimum 400 Brinell wear areas
- Optional visibility spill guard available
- Widths and cutting edge hole patterns drilled to OEM standard wear parts specification
- Available as pin-on or compatible with JRB's Quick Coupler System
- •100, 200, 300, 500, 600, 700, 800 and 900 classes



### J:B Refuse / Transfer Buckets



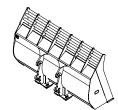
- Specifically designed for use in landfill and transfer station applications
- Bucket width and edge hole pattern drilled to accept specific OEM standard wear parts
- Available in either Pushing or Loading profile designs
- · Heavy-Duty round tube design visibility spillguard
- All base bucket material made from minimum 36 KSI yield steel
- All wear areas made from minimum Brinell hardness of 400
- Refuse Buckets available as pin-on or for use with Quick Coupler system
- For material weighing up to 1000 pounds per cubic yard
- · Rubber edges available by request
- •300, 500, 600, 700 and 800 classes



Pushing Style



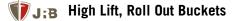
Loading Style







### **BUCKETS**





- •JRB specific edges
- Twin, dual-cushioned cylinders increase stability
- Up to an 89% dump height improvement
- •Smooth, single radius shell design allows for maximum material roll and optimal fill rates
- •93° dump angle provides maximum load placement flexibility
- Integrated mesh viewing panels for better load visibility
- Sloped cylinder housing eliminates pockets for material compaction
- Available as pin-on or compatible with Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for operation. Bucket supplied with attachment side whip hoses.
- •200, 300, 500 and 600 classes

Cover plate removed for photo purposes, Roll Out bucket comes complete with cover plate to protect hydraulic connections



## J:B Grapple Buckets



 Profiles available in full, half-cutaway, or full-cutaway sides for any job application

WHEEL LOADERS / BACKHOE LOADERS

- · Optional screening on arms available for maximum material retention
- Dual hydraulic cylinders allow independent actuation of each cylinder for clamping uneven loads
- ·Width and edge hole patterns drilled to OEM standard wear parts
- Available as pin-on or compatible with Quick Coupler System
- •Third function loader hydraulics and jumper hose kit for Quick Coupler required for operation. Bucket supplied with attachment side whip hoses
- Rubber edges available by request
- •100, 200, 300, 500, 600, 700 and 800 classes







Half Side



Cutaway

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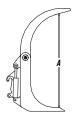
### **BUCKETS**

## J:B Grapple Bucket / Rakes

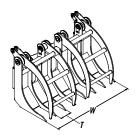


- Efficient design for loading tires, land clearing, and trash handling
- Multi-tine grapples allow for better material retention
- Dual hydraulic cylinders allow independent actuation of each cylinder for clamping uneven loads
- Optional sidebars available
- Available as pin-on or compatible with Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for operation. Bucket supplied with attachment side whip hoses
- •100, 200, 300, 500, 600, 700 and 800 classes









#### Bucket shown with JRB Quick Coupler Adapters

| Class                    | 100        | 200        | 300        |
|--------------------------|------------|------------|------------|
| A. Catalog Number        | 150GBR     | 225GBR     | 300GBR     |
| B. Capacity (Cubic Yard) | 1.50       | 2.25       | 3.00       |
| D. No. of Tines          | 8          | 8          | 8          |
| "A" Maximum Opening      | 61.35"     | 71.42"     | 74.83"     |
| "B" Minimum Opening      | 20.99"     | 26.39"     | 28.94"     |
| "T" Tine Spacing         | 12.25"     | 13.25"     | 13.86"     |
| "W" Width                | 92.00"     | 94.00"     | 99.00"     |
| Weight                   | 1,822 lbs. | 2,326 lbs. | 4,693 lbs. |

| Class                    | 500        | 600        | 700        |
|--------------------------|------------|------------|------------|
| A. Catalog Number        | 350GBR     | 450GBR     | 600GBR     |
| B. Capacity (Cubic Yard) | 3.50       | 4.50       | 6.00       |
| D. No. of Tines          | 8          | 9          | 10         |
| "A" Maximum Opening      | 74.83"     | 100.89"    | 119.59"    |
| "B" Minimum Opening      | 28.94"     | 35.32"     | 45.35"     |
| "T" Tine Spacing         | 13.86"     | 14.14"     | 12.69"     |
| "W" Width                | 99.00"     | 113.50"    | 117.50"    |
| Weight                   | 4.723 lbs. | 7.170 lbs. | 8.500 lbs. |

## **♥J:B** Side Dump Buckets



Designed for confined, hard-to-maneuver areas

WHEEL LOADERS / BACKHOE LOADERS

- Supports capacity of .75 to 4.5 cubic yards
- Features left-hand dump function, righthand available by request
- Heavy-duty design allows for full side dumping and angle backfilling
- Side-shoot dumping angle of 45°
- Features the exclusive JRB sequence valve for lock/unlock of the bucket cradle and side dump function
- Center mounted lift hooks are standard
- Available as pin-on or compatible with Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for operation. Bucket supplied with attachment side whip hoses
- •100, 200, 300, 500, 600 and 700 classes



### **CW5** Woodchip Buckets

- Larger capacity for handling lightweight materials
- Designed specifically for large loads of wood
- Top screen maintains bucket capacity and increases visibility
- Maximum performance and service for woodchip handling applicators
- •100, 200, 300, 500, 600, 700, 800, 900 and 1000 classes



## J:B Straight Edge Rock Buckets



- Capable of penetrating most rock applications
- •400 Brinell high strength, alloy steel construction
- Features heavy-duty, heat-treated cutting edges; replaceable weld-on wear pads; and heavy-duty, steel-tubereinforced spill guards
- Standard Options Bolt on Teeth, Bolt on Edge (Weld-on available by request)
- Width and edge pattern are drilled to OEM standard wear parts specification
- Available as pin-on or compatible with Quick Coupler System
- •200, 300, 500, 600, 700, 800 and 900 classes







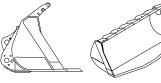
### **BUCKETS & FORKS**

## J:B Spade Nose Rock Buckets



Standard"V" style edge

- Designed for handling loose rock or digging in severe applications
- Available with standard "V" or modified "V" style edge
- •400-500 Brinell high strength, alloy steel construction
- Standard equipped with heavy-duty, heattreated cutting edges; replaceable weld-on wear pads; and heavy-duty, steel-tubereinforced spill guards
- Weld-on teeth standard, bolt-on teeth available by request
- 500, 600, 700, 800 and 900 classes



Modified "V" style edge

## WHEEL LOADERS / BACKHOE LOADERS



### Construction Utility Forks



Class 200-500



Class 100,600-900 Construction Utility Forks shown with JRB Quick Coupler Adapters

- Available as pin-on or for use with Quick Coupler System
- Available with manually adjustable tines or hydraulically actuated tines for side-to-side adjustments from the cab
- Tine static load capacities are rated beyond loader lift capabilities
- Fork carriage widths range from 60" to 106"
- •Tine lengths range from 48" to 96"
- Larger 3" round bar for Class 200-500
- New design for Class 200-500 offers improved center of gravity for better load management
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for hydraulic fork operation. Hydraulic forks supplied with attachment side whip hoses
- •100, 200, 300, 500, 600, 700, 800, & 900 Classes
- NOTE: Special order carriage width and tine length available upon request.
   Tipping load charts available upon request



Easy Manual Tine Placement (Hydraulic option available)

## **FORKS & BUCKETS**

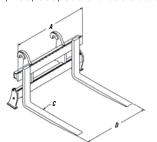
## **Construction Utility Fork cont.**

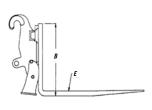
| Class   | Tine Adjustment Style | "A"<br>Frame Width | "B"<br>Frame Height |
|---------|-----------------------|--------------------|---------------------|
| 100     | Manual                | 61"                | 48"                 |
| 100     | Hydraulic             | 61"                | 48"                 |
|         | Manual                | 63-3/4"            | 48"                 |
| 200     | ivialiual             | 97-1/2"            | 48"                 |
| 200     | Hydraulic             | 63-3/4"            | 48"                 |
|         | пуштацис              | 97-1/2"            | 48"                 |
|         | Manual                | 63-3/4"            | 48"                 |
| 300-500 | Manuai                | 97-1/2"            | 48"                 |
| 300-300 | Hydraulic             | 63-3/4"            | 48"                 |
|         |                       | 97-1/2"            | 48"                 |
| 600     | Manual                | 108"               | 60-1/2"             |
| 000     | Hydraulic             | 98"                | 53-1/2"             |
| 700 900 | Manual                | 108"               | 63-3/25"            |
| 700-800 | Hydraulic             | 108"               | 63-3/25"            |
| 000     | Manual                | 108"               | 63-3/25"            |
| 900     | Hydraulic             | 108"               | 63-3/25"            |

| Class   | "C" Maximum Tine<br>Spacing | "D" Minimum Tine<br>Spacing | "E"<br>Tine Size | "F" Load Capacity at 24" CTR |  |
|---------|-----------------------------|-----------------------------|------------------|------------------------------|--|
| 100     | 59"                         | 10"                         | 2" X 4"          | 8,400 lbs.                   |  |
|         | 59"                         | 10"                         | 2 77             | 0,400 100.                   |  |
| 200     | 60"                         | 3"                          |                  |                              |  |
|         | 92-3/4"                     | 8"                          | 0 1/0" V C"      | 10 700 16-                   |  |
|         | 60"                         | 3"                          | 2-1/2" X 6"      | 19,700 lbs.                  |  |
|         | 92-3/4"                     | 12"                         |                  |                              |  |
|         | 60"                         | 3"                          |                  | 19,700 lbs.                  |  |
| 300-500 | 92-3/4"                     | 8"                          | 2-1/2" X 6"      |                              |  |
| 300-500 | 60"                         | 3"                          | Z-1/2 X 0        |                              |  |
|         | 92-3/4"                     | 12"                         |                  |                              |  |
| 600     | 103"                        | 28"                         | 3" X 7"          | 22.250 lbs                   |  |
| 600     | 92"                         | 46-1/2"                     | 3 A /            | 32,250 lbs.                  |  |
| 700-800 | 103"                        | 38"                         | 3-1/2" x 8"      | 51,700 lbs.                  |  |
| 700-800 | 103"                        | 62"                         | 3-1/2 XO         | 51,700 lbs.                  |  |
| 000     | 103"                        | 40"                         | 4" x 8"          | 67,500 lbs.                  |  |
| 900     | 103"                        | 64"                         | 4 10             | 67,500 lbs.                  |  |



- Designed for standard-duty pallet application
- •Low profile design allows for maximum visibility to tine tips
- •Tine lengths range from 48" to 72"
- Compatible with Quick Coupler System
- Attachment shown with Quick Coupler Adapters
- •Special order carriage width and tine length available upon request
- •Call JRB for sizing, pricing and availability
- •100, 200, 300, 500 and 600 classes





| Class                        | 100         | 200       | 300        | 500        |
|------------------------------|-------------|-----------|------------|------------|
| "A" Frame Width              | 48"         | 60"       | 60"        | 60"        |
| "B" Tine Height              | 26"         | 26"       | 26"        | 26"        |
| "C" Tine Size                | 1-3/4" x 4" | 2" x 4"   | 2" x 5"    | 2" x 5"    |
| "D" Maximum<br>Width         | 48"         | 60"       | 60"        | 60"        |
| "E" Capacity at 24" Load CTR | 6400 lbs.   | 8400 lbs. | 10500 lbs. | 10500 lbs. |

### **FORKS**

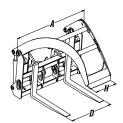
## J:B Clamp Forks, Paddle Top



- Designed for maximum material retention and strength in loading and unloading logs, lumber, and palletized materials
- Ideal for picking and sorting applications
- · High-strength steel tines
- Adjustable tines standard and available with optional floating-tine design for uneven terrain conditions
- · Heat-treated pins and bushings
- Custom tine lengths and carriage widths available by request
- Available as pin-on or compatible with Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for fork operation. Forks supplied with attachment side whip hoses
- •100, 200, 300, 500, 600 and 700 classes





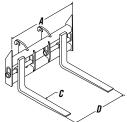


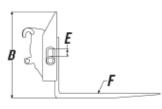
| Class | "A" Frame<br>Width | "B"<br>Clamp<br>Opening | "C" Clamp<br>Minimum<br>Opening | "D" Maximum<br>Width Over Tines | "D" Minimum<br>Width Over Tines |
|-------|--------------------|-------------------------|---------------------------------|---------------------------------|---------------------------------|
| 100   | 60"                | 62"                     | 8-1/2"                          | 57-3/4"                         | 33-1/2"                         |
| 200   | 80"                | 95"                     | 9-1/4"                          | 77-3/4"                         | 34"                             |
| 300   | 80"                | 95-3/4"                 | 9-1/4"                          | 77-3/4"                         | 36-3/4"                         |
| 500   | 80"                | 95-3/4"                 | 14-1/4"                         | 77-3/4"                         | 36-3/4"                         |
| 600   | 95"                | 95-3/4"                 | 14-1/4"                         | 92-3/4"                         | 54"                             |
| 700   | 106"               | 96-1/2"                 | 18"                             | 103-3/4"                        | 45-1/4"                         |

| Class | "E"<br>Float Travel | "F"<br>Tine Size  | "G" Capacity at 24"<br>Load CTR | "H" Paddle<br>Width |
|-------|---------------------|-------------------|---------------------------------|---------------------|
| 100   | 4"                  | 2" x 4" x 48"     | 8400 lbs.                       | 5-11/16"            |
| 200   | 6"                  | 2-1/4" x 6" x 48" | 18200 lbs.                      | 23-1/2"             |
| 300   | 6"                  | 2-3/4" x 7" x 60" | 29800 lbs.                      | 23-1/2"             |
| 500   | 6"                  | 3" x 7" x 60"     | 34200 lbs.                      | 23-1/2"             |
| 600   | 6"                  | 3-1/2" x 8"       | 54600 lbs.                      | 38-15/16"           |
| 700   | 6"                  | 4" x 8"           | 67600 lbs.                      | 48-1/2"             |



- · Low profile carriage allows for increased site lines
- ·Withstands weight-shifting and stress loads beyond loader capacity
- High-strength, drop-forged tines provide extra support
- Adjustable tines standard and optional floating tine design available for use in uneven terrain condition
- Heat-treated pins and bushings
- Custom tine lengths and carriage widths available by request
- Available as pin-on or compatible with Quick Coupler System
- •Available for 100, 200, 300, 500, 600 and 700 classes





| Class | Tine Adjustment Style | "A" Frame Width | "B" Carriage<br>Height | "C"<br>Tine Size |  |
|-------|-----------------------|-----------------|------------------------|------------------|--|
| 100   | Rigid                 | 61-1/4"         | 41-3/25"               | 2" x 4"          |  |
| 100   | Oscillating           | 61-1/4"         | 41-3/25"               | 2 14             |  |
| 200   | Rigid                 | 77-1/2"         | 51-3/4"                | 2-1/4" x 6"      |  |
| 200   | Oscillating           | 77-1/2"         | 56-3/4                 | Z-1/4 X 0        |  |
| 300   | Rigid                 | 77-1/2"         | 55-1/4"                | 2-3/4" x 7"      |  |
| 300   | Oscillating           | 77-1/2"         | 60-1/4"                | 2-3/4 X /        |  |
| 500   | Rigid                 | 108"            | 55-1/4"                | 3" x 7"          |  |
| 300   | Oscillating           | 98"             | 60-1/4"                | 3 X /            |  |
| 600   | Rigid                 | 108"            | 63-1/2"                | 3-1/2" x 8"      |  |
| 600   | Oscillating           | 108"            | 68-1/2"                | J-1/2 X O        |  |
| 700   | Rigid                 | 108"            | 63-1/2"                | 4" x 8"          |  |
| 700   | Oscillating           | 108"            | 68-1/2"                | 4 18             |  |

| Class | Tine Adjustment<br>Style | "D"<br>Maximum Tine<br>Spacing | "D"<br>Minimum Tine<br>Spacing | "E"<br>Float<br>Travel | "F" Load<br>Capacity at<br>24" CTR |
|-------|--------------------------|--------------------------------|--------------------------------|------------------------|------------------------------------|
| 100   | Rigid                    | 57-1/2"                        | 33-1/2"                        | _                      | 8400 lbs.                          |
| 100   | Oscillating              | 56-3/4"                        | 35-3/4"                        | 4.00                   | 6400 lbs.                          |
| 200   | Rigid                    | 72-1/4"                        | 35-1/2"                        | _                      | 16000 lbs.                         |
| 200   | Oscillating              | 72-1/4"                        | 35-3/4"                        | 5.00                   | 10000 ibs.                         |
| 300   | Rigid                    | 72-1/4"                        | 35-1/2"                        | _                      | 27900 lbs.                         |
|       | Oscillating              | 72-1/4"                        | 35-3/4"                        | 5.00                   | 27500 103.                         |
| 500   | Rigid                    | 72-1/4"                        | 35-1/2"                        | _                      | 33250 lbs.                         |
| 500   | Oscillating              | 72-1/4"                        | 35-3/4"                        | 5.00                   | 33230 lb3.                         |
| 600   | Rigid                    | 88-1/2"                        | 35-1/2"                        | _                      | 51700 lbs.                         |
| 000   | Oscillating              | 88-1/2"                        | 35-3/4"                        | 5.00                   | 31700 103.                         |
| 700   | Rigid                    | 102-1/2"                       | 35-1/2"                        | _                      | 67500 lbs.                         |
| 700   | Oscillating              | 102-1/2"                       | 35-3/4"                        | 5.00                   | 07500 IDS.                         |

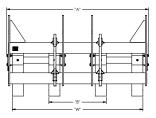


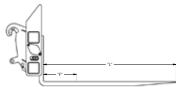
### **FORKS**





- Specifically designed for pipe handling
- Drop-forged, fixed tines
- Rugged carriage construction
- Custom carriage widths and tine lengths available
- Available as pin-on or compatible with JRB's Quick Coupler System
- Available for 200, 300, 500, 600 and 700 classes





| Class | "A" Carriage<br>Width | "B" Width Over Tines<br>Narrowest | "W" Width Over<br>Tines Widest | "L"<br>Tine Length |
|-------|-----------------------|-----------------------------------|--------------------------------|--------------------|
| 200   | 96"                   | 33"                               | 89"                            | 60"                |
| 300   | 102"                  | 39"                               | 95"                            | 60", 72", 96"      |
| 500   | 102"                  | 39"                               | 95"                            | 60", 72", 96"      |
| 600   | 102"                  | 41"                               | 95"                            | 60", 72", 96"      |
| 700   | 102"                  | 41"                               | 95"                            | 72", 96"           |

| Class | "T"<br>Tine Size | "F" Capacity at 24"<br>Load CTR | Tine Bar<br>Diameter | Weight         |
|-------|------------------|---------------------------------|----------------------|----------------|
| 200   | 2.5" x 6"        | 19700 lbs.                      | 3.5"                 | 1825 lbs.      |
| 300   | 3" x 7"          | 33250 lbs.                      | 4"                   | 2650-3100 lbs. |
| 500   | 3" x 7"          | 33250 lbs.                      | 4"                   | 2650-3100 lbs. |
| 600   | 3" x 8"          | 38000 lbs.                      | 4.5"                 | 3600-4100 lbs. |
| 700   | 3.5" x 8"        | 51700 lbs.                      | 5"                   | 4200-4600 lbs. |

## Car Body Forks / **Double Top Clamp Car Body Forks**



- · Heavy-duty, low profile carriage construction for maximum durability and visibility
- · High-strength, heat-treated alloy steel tines range from 60" to 96", nonadjustable and non-floating
- Carriage widths range from 96" to 120"
- Custom tine lengths and tine spread available by request
- Available as pin-on or compatible with Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for operation. Forks supplied with attachment side whip hoses
- •Car Body Forks:100, 200, 300, 500 and 600 classes





| Class | "A"<br>Frame<br>Width | "B"<br>Clamp<br>Opening | "C"<br>Tine<br>Spacing | "T"<br>Tine Size  | "F" Capacity<br>at 24" Load<br>CTR | Weight    |
|-------|-----------------------|-------------------------|------------------------|-------------------|------------------------------------|-----------|
| 100   | 96"                   | 34"                     | 65"                    | 2" x 8" x 72"     | 16800 lbs.                         | 1600 lbs. |
| 200   | 96"                   | 34"                     | 71"                    | 2-1/2" x 8" x 72" | 26400 lbs.                         | 1850 lbs. |
| 300   | 96"                   | 34"                     | 71"                    | 3" x 8" x 72"     | 38000 lbs.                         | 2200 lbs. |
| 500   | 96"                   | 34"                     | 71"                    | 3" x 8" x 72"     | 38000 lbs.                         | 2300 lbs. |
| 600   | 96"                   | 34"                     | 71"                    | 3-1/2" x 8" x 72" | 51700 lbs.                         | 2850 lbs. |

<sup>\*</sup>Car Body Forks & Double Top Clamp Car Body Forks specification chart



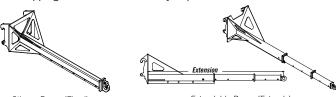
### **BOOMS & SNOW REMOVAL**





Extendable Boom shown with JRB's Quick Coupler System

- Designed for long-reaching material handling applications involving lifting, loading, and positioning
- Superior efficiency in handling large-diameter precast pipes
- High-strength tubular steel construction
- Manually extendable
- Standard equipped with hook
- Available as pin-on or compatible with Quick Coupler System
- Capacity is based upon the hydraulic limitation or tip limitation of your machine.
- Please refer to your loaders specific ratings
- Extendable boom available in 100, 200, 300, 500, 600, 700, & 800 classes
- Stinger boom available for 100 class
- NOTE: Tipping load charts available by request



Stinger Boom (Fixed)

Extendable Boom (Extends)

| Part<br>Number | Description                 | Full<br>Extension | Mid<br>Extension |
|----------------|-----------------------------|-------------------|------------------|
| 100SB6         | 1 Section - 6' Extension    | _                 | _                |
| 100SB8         | 1 Section - 8' Extension    | _                 | _                |
| 100EB          | 3 Section - 13'7" Extension | 13'7"             | 11'1"            |
| 200EB          | 3 Section - 13'7" Extension | 13'7"             | 11'1"            |
| 300EB          | 3 Section - 13'7" Extension | 13'7"             | 11'1"            |
| 500EB          | 3 Section - 13'7" Extension | 13'7"             | 11'1"            |
| 600EB          | 3 Section - 13'7" Extension | 13'7"             | 11'1"            |
| 700EB          | 2 Section - 12'0" Extension | 12'0"             | _                |
| 800EB          | 2 Section - 12'0" Extension | 12'0"             | _                |

| Part<br>Number | Full<br>Retraction | Weight     | Hook Rating (ton) |
|----------------|--------------------|------------|-------------------|
| 100SB6         | _                  | 610 lbs.   | 10t               |
| 100SB8         | =                  | 745 lbs.   | 10t               |
| 100EB          | 7'4"               | 1,170 lbs. | 10t               |
| 200EB          | 7'4"               | 1,170 lbs. | 10t               |
| 300EB          | 7'4"               | 1,170 lbs. | 10t               |
| 500EB          | 7'4"               | 1,170 lbs. | 10t               |
| 600EB          | 7'4"               | 1,270 lbs. | 10t               |
| 700EB          | 8'3"               | 1,400 lbs. | 10t               |
| 800EB          | 8'3"               | 1,400 lbs. | 10t               |

## J:B Snow Plows



- Designed for use with loaders and backhoes in tight, confined areas
- •35° plow angle in both directions
- Features two carbide wear guards, two 3" bore, and 10" stroke cylinders

WHEEL LOADERS / BACKHOE LOADERS

- •3/4" x 6" reversible AR425 steel edge
- Equipped with two heavy-duty adjustable trip springs
- Hydraulic angle available on plows
- Available as pin-on compatible with Quick Coupler System
- Third function hydraulics required for loader angle operation. Plow supplied with attachment side whip hoses

| Width | Height | Cutting Edge | Mold Board<br>Thickness | Cutting Width<br>at 35° | Spring<br>Assembly |
|-------|--------|--------------|-------------------------|-------------------------|--------------------|
| 10'   | 42"    | 3/4" x 6"    | 3/16"                   | 98-1/4"                 | 2                  |
| 11'   | 42"    | 3/4" x 6"    | 3/16"                   | 108-3/25"               | 2                  |
| 12'   | 42"    | 3/4" x 6"    | 3/16"                   | 118"                    | 2                  |
| 14'   | 42"    | 3/4" x 6"    | 3/16"                   | 138"                    | 2                  |
| 16'   | 42"    | 3/4" x 6"    | 3/16"                   | 157"                    | 2                  |

\*JRB Snowplows include 42" height moldboard trip for loaders. Backhoes require 10' plows with a 30" moldboard height.





#### Snow Pushers

- Designed for skid steers, loader backhoes, and wheel loaders
- Universal coupling system with multiple clamp holes for easy attachment to any

#### • 0EM machine

- Solid steel forks eliminate rusting
- Rubber edge included, poly edges available by request
- •228 Series available for 200, 300, 500, 600, & 700 Classes
- •233 Series available for SSL and TLB

#### Flat Contact Bar

- Provides even load distribution
- Solid grip pinch bar
- Side plates permit better ground alignment

#### Skid Shoes

- Designed for optimum cleaning action and extended life
- Frame, not bolts, supports extended skid shoes
- Reversible, high-strength steel shoes maximize wear life







### **BROOMS & RAKES**





- Standard features include parallelogram linkage, oscillating frame, dual hydraulic motors, pneumatic tires, full coverage shroud and 32" diameter poly/wire brushes. Hydraulic angle includes 4th function diverter valve. Water system includes 85 gallon tank, electric pump and spray bar
- Hydraulic requirement Third function loader hydraulics with flow range of 18 to 22 gpm with hydraulic oil cooler
- Quick coupler attachments require a third function jumper hose kit for Quick Coupler. Brooms supplied with attachment side whip hoses

## **Loader Rakes / Stacking Rakes**



#### Loader Rakes

 Designed for removing and piling brush in heavy land-clearing situations

WHEFI LOADERS / BACKHOF LOADERS

- Available in various raking widths and capacities to match loader specifications.
- Optional hydraulic end clamps available to provide secure load control and increased load capacities
- Rakes available as pin-on or compatible with Quick Coupler System
- Third function loader hydraulics and jumper hose kit for Quick Coupler required for hydraulic clamp operation. Hydraulic rakes supplied with attachment side whip hoses
- •100, 200, 300, 500, 600 and 700 classes

#### Stacking Rakes

- "C" Radius design allows for optimum stacking and loading of debris in heavy land clearing situations
- Alloy steel construction maximizes strength and durability
- Available in various raking widths and capacities to match loader specifications.
- Optional hydraulic end clamps available to provide secure load control and increased load capacities
- Rake available as pin-on or compatible with Quick Coupler System
- •Third function loader hydraulics and jumper hose kit for Quick Coupler required for hydraulic clamp operation. Hydraulic rakes supplied with attachment side whip hoses
- •100, 200, 300, 500, 600 and 700 classes

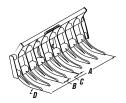


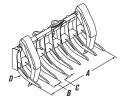




### **RAKES**

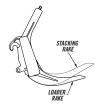
### Loader Rakes / Stacking Rakes cont.





Clamp Rake





\*Rake shown with JRB Quick Coupler Adapters

| Class                     | 100        | 200        | 300        |
|---------------------------|------------|------------|------------|
| A. Raking Width           | 92"        | 96"        | 105"       |
| B. Tine Spacing           | 13"        | 13.5"      | 13"        |
| C. Tine Thickness         | 1-1/4"     | 1-1/2"     | 1-1/2"     |
| D. No. of Tines           | 8          | 8          | 9          |
| E. Maximum Opening        | 68-1/4"    | 68-1/4"    | 68-1/4"    |
| F. Minimum Opening        | 12"        | 12"        | 12"        |
| *Weight without<br>Clamps | 1,550 lbs. | 2,350 lbs. | 2,495 lbs. |
| *Weight with Clamps       | 2,040 lbs. | 2,950 lbs. | 3,365 lbs. |

| Class                     | 500        | 600        | 700        |
|---------------------------|------------|------------|------------|
| A. Raking Width           | 105"       | 112"       | 120"       |
| B. Tine Spacing           | 13"        | 13.75"     | 13.12"     |
| C. Tine Thickness         | 1-1/2"     | 1-3/4"     | 2-1/4"     |
| D. No. of Tines           | 9          | 9          | 10         |
| E. Maximum Opening        | 68-1/4"    | 75-3/4"    | 97-11/50"  |
| F. Minimum Opening        | 12"        | 12-3/4"    | 13-9/50"   |
| *Weight without<br>Clamps | 2,495 lbs. | 3,995 lbs. | 4,675 lbs. |
| *Weight with Clamps       | 3,365 lbs. | 5,265 lbs. | 5,945 lbs. |

Loader Rake & Loader Rake with Hydraulic Clamps specification chart Also Stacking Rake & Stacking Rake with Hydraulic Clamps specification chart

## J:B Stacking Grapple Rakes

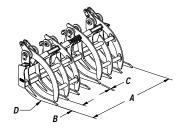


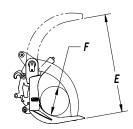
#### Open



- Rugged alloy steel construction maximizes strength and durability
- Available in various raking widths and capacities to match loader specifications
- Hydraulic clamps\* are standard to provide secured load control and increased load capacity
- Rake available as pin-on or compatible with Quick Coupler System
- Designed for removing and piling brush in heavy land-clearing situations
- Grapples cover 80% of the rake when closed
- •300, 500, 600 and 700 classes

#### Closed





| Class               | 300       | 500       |
|---------------------|-----------|-----------|
| A. Raking Width     | 105"      | 105"      |
| B. Tine Spacing     | 13"       | 13"       |
| C. Tine Thickness   | 1-1/2"    | 1-1/2"    |
| D. No. of Tines     | 9         | 9         |
| E. Maximum Opening  | 84.20"    | 84.20"    |
| F. Minimum Opening  | 25"       | 25"       |
| *Weight with Clamps | 4827 lbs. | 4827 lbs. |

| 600      | 700   |
|----------|---|
| 112"     | 120"  |
| 13.75"   | 13.12"  |
| 1-3/4"   | 2-1/4"  |
| 9        | 10  |
| Call for | Detail Specs  |
| Call for | Detail Specs  |
| Call for | Detail Specs  |
|          | 112"<br>13.75"<br>1-3/4"<br>9<br>Call for<br>Call for |

<sup>\*</sup>Grapple Rake with Hydraulic Clamps specification chart







### **RAKES & GRAPPLES**



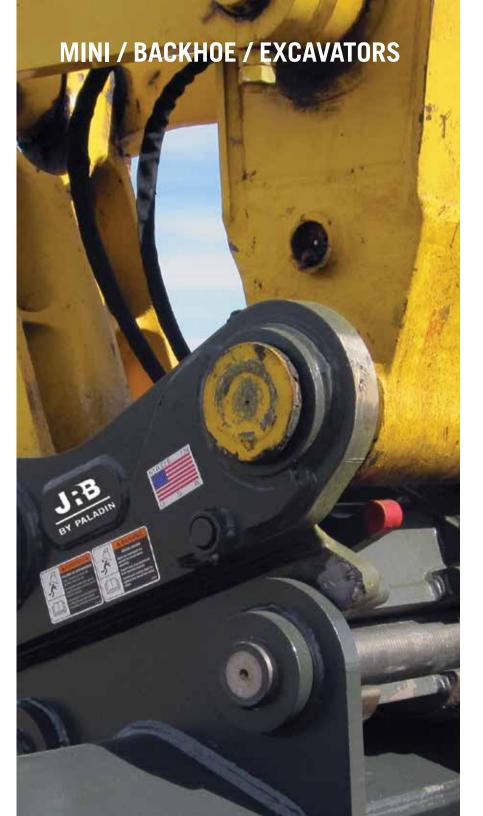


- Safely and efficiently handling rig mats
- Rugged design for harsh environments
- Concealed and protected hydraulic
- Accessible service plate cover
- Open design for optimized visibility
- •200, 300, and 500 classes

## **I**J:B VersiGrab™



- High capacity handling of silage, feed & ground hay, composite, manure or wood chips as well as bale moving, scrap transport, storm clean up, forestry, vegetation, recycling, municipality applications, and site prep activities.
- Grapple designed to be easily removed.
- Can arrive factory installed to a bucket and to a machine through CW.
- All pivot pins feature zero-maintenance bushings and wiper seals.
- No grease is required anywhere on the grapple.
- •200, 300, 500, and 600 classes



### **COUPLERS**

### Quick Hitch™ Coupler



| Catalog Number                                | Class         | Weight (lbs.) |  |
|---|---------------|---------------|--|
| Quick Hitch™ Coupler   Dead Pins not included |               |               |  |
| 027   | 2mT, 3mT, 5mT | 60            |  |
| 030   | Backhoe, 8mT  | 140           |  |

- Simple hook design increases contact face providing superior wear-resistance
- Optimal weld locations maximize structural integrity and product longevity
- Hook style will fit all first generation Quick Hitch™ buckets
- Hooks manufactured with high strength steel plates

## J:B PowerLatch® Coupler



- Genuine "twin locking" coupler with patented ABS (Automatic Blocking System) automatically locks on both front and back pins, even in the event of hydraulic failure
- Cast design is 20% stronger than comparative models
- Universal design compatible with world's best known attachment manufacturers
- Lifting eye in center of back panel incorporated as part of coupler casting for retained strength
- Greater flexibility by working in both backhoe and face positions
- •Operates with a variety of attachments, including hammers
- •Certain attachments may need optional spacers for proper alignment
- •All couplers include JRB machine specific hydraulic installation kit and one set of attachment pins. Kit utilizes bucket curl cylinder hydraulic source. Designate exact machine model and stick length to ensure proper installation kit

## J:B PowerLatch® Tilt Coupler



The PowerLatch Tilt Coupler combines the versatility of the PowerLatch multipin grabber coupler with the ability to tilt the attachment a full 90° in each direction allowing you to reach more places in less time and with less repositioning.

- •180° tilt allows you to achieve more from your excavator without repositioning
- Dual ABS independent back up system for quick, safe attachment changes
- Pick up attachments within the same class regardless of the OEM make
- No maintenance, sealed actuator keeps coupler working longer





### **COUPLERS & BUCKETS**



### SmartLoc® Coupler





Automatically sequenced Secondary Lock.

- Reliable, time-tested coupler with unique wedge design features effortless tool changes from cab
- Locking cylinder with check valve prevents unlocking
- Locking mechanism maintains continuous pressure against the pin
- 1/2" to 3/4" pin spacing tolerance for attachment versatility
- Easy-to-install hydraulic kit with bucket cylinder hydraulics
- Excavating stick with mounted hydraulic components
- In-cab, safety controls with unlocked indicator light, audible unlock buzzer, and locking toggle switch
- Wedge Locking System adjusts for wear keeping a tight connection
- Maintains short vertical offset, keeping the alignment closer to the machine
- All couplers include JRB machine specific hydraulic installation kit and one set of attachment pins. Kit utilizes bucket curl cylinder hydraulic source. Designate exact machine model and stick length to ensure proper installation kit





- Unique, long floor design for superior trenching and grading
- Curved side edges reduce stress and enhance power concentration in dig cycle
- Manufactured using high-quality materials with protected welds for superior wear resistance and durability
- AR400 shell, cutting edge and side edges provide superior wearresistance over traditional mild steel design without compromising structural integrity
- Double-radius curl geometry allows for:
  - Aggressive Digging
- Optimal Bucket Capacities
- Minimal Heel Drag

### **BUCKETS**



### **Heavy & Severe Duty Buckets**



- Optimized profile for better filling & dumping
- Dual taper design provides better heel clearance for less resistance and wear during digging
- Improved construction reduces weight up to 10% for larger payloads
- •Strategic placement of AR400 wear material in the cutting edge, side cutter, and bottom corners to reduce wear.
- Available for 12mT to 45mT excavators
- Multiple tooth options are available



### Mini Ex Pin On Buckets



- •2mT 8mT
- AR400 wear resistant plate used to reduce weight and improve wear life
- Dual taper design provides enhanced heel clearance for less resistance and wear during digging
- Long floor design for easier trenching and better filling of the bucket



### **Severe-Duty Buckets**



#### •35mT-45mT

- Over 18% increase in capacity vs. a typical heavy duty bucket for larger payloads
- Capacity and bucket weight have been optimized to work with OEM standard and mass excavation arms and configuration
- Optimized profile for better filling and dumping
- Dual taper design provides enhanced heel clearance for less resistance and wear during digging
- Reinforced header construction for superior durability in high cycle applications



### Clean Up Bucket



#### •12mT - 45mT

- •Improved construction reduces weight up to 10% for larger payloads
- Extra wide widths available for maximum payloads
- •Optimized profile for better filling & dumping
- Dual taper design provides enhanced heel clearance for less resistance and wear during digging
- One-piece header design improves load distribution and durability
- Strategic placement of AR400 wear material in cutting edge, side cutter and bottom corner for reduce wear

### **BUCKETS**



### **Continuous Edge Bucket**



#### • 12mT - 45mT

- Improved construction reduces weight up to 10% for larger payloads
- Extra wide widths available for maximum payloads
- Optimized profile for better filling & dumping
- Dual taper design provides enhanced heel clearance for less resistance and wear during digging
- Teeth are spaced as tightly as possible to present a continuous edge
- Corner teeth are straight/in-line with the center teeth
- Equipped with Flare/Spade teeth

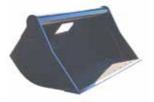


### **CP** Ditch Cleaning Buckets



- •Bolt-on edge available for extended bucket usage
- Double Bottom for longer bucket life
- · Gusseted as required
- •Ideal for storm ditch cleaning
- Optional drain holes available

## **CP** Quick Hitch™ Ditch Cleaning Buckets



- Bolt-on edge available for extended bucket usage
- Center gusset available for most models
- Ideal for storm ditch cleaning

## **♥**J:B Swinger Buckets





- An ideal addition for your excavator. Ditching, slope work, grading, backfilling, land clearing, and waste handling applications
- •Cylinders protected from outside debris and damage
- •Tilts in 45° angle in two directions
- •Available in widths from 48" to 96"
- •Capacity ranges from .50 to 3.00 cubic yards
- Manufactured for excavators weighing from 25000 lbs. through 100,000 lbs.

### **BUCKETS**









- •8mT 45mT
- "Triangular Fabrication" for greater strength and stability
- •One-piece T-1 side cutters
- Double bottom for longer bucket life
- •Full Side wear pads for extra durability
- •T-1 cutting edge with triple pass welding
- · Hensley style teeth and shank available

## CW5 Railroad Cribbing Buckets





- Custom thumb design available to match bucket for compatibility
- · Available as pin-on or Quick Hitch attachment

|     | 0 0 |
|-----|-----|
|     |     |
|     | F   |
| 6 6 | 90  |

| Class           | Backhoe   |
|-----------------|---|
| 1. Ear (inches) | 3/4"  |
| 2. Top          | 5/8" to 3/4"  |
| 3. Bottom       | 5/16"   |
| 4. Sides        | 5/8"  |
| 5. Cutting Edge | 1" x 8" T-1   |
|                 | Hansley Y156 CAT Aftermarket 1113202 Hansley YS 05 Feco |

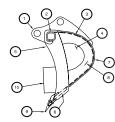
6. Tooth Option V17, Volvo 8GPC, King Met MG8U, Deere IF223D, TK225, H&L 2300 Aftermarket



## CP Coral Rock Buckets



- Performs Severe Duty applications
- Weld-on wings for peeling away coral rock
- Operates under frost conditions
- •Side wear pads for extra durability
- Buckets are equipped with standard Hensley X156 Teeth



| Class                          | 3mT           | 5mT           | Backhoe     |
|--------------------------------|---------------|---------------|-------------|
| 1. Ear (inches)                | 5/8"          | 5/8"          | 1-1/4"      |
| 2. Tube                        | 2-1/2" PIPE   | 4" x 4"       | 4" x 4"     |
| 3. Bottom                      | 3/16"         | 5/16"         | 5/16"       |
| 4. Sides                       | 3/16"         | 5/16"         | 5/16"       |
| <ol><li>Side Cutters</li></ol> | 1/2" 50 GRADE | 5/8" 50 GRADE | 5/8" T-1    |
| <ol><li>Cutting Edge</li></ol> | 1" x 5" T-1   | 1" x 8" T-1   | 1" x 8" T-1 |
| 7. Double Bottom               | 3/16"         | 5/16"         | 5/16"       |
| 8. Wear Pads                   | N/A           | N/A           | 5/16"       |
| 10. Wings                      | 1/2"          | 1/2"          | 5/8"        |

### **BUCKETS & GRAPPLES**







- Digs straight walls for cemetery requirements
- Custom sizes available
- •T-1 cutting edge
- Available as pin-on (limited coupler options)

| Class            | 2mT/3mT/5mT              | 8mT / Backhoe  |
|------------------|--------------------------|----------------|
| 1. Ear (inches)  | 5/8"                     | 1-1/4"         |
| 2. Tube          | 1-1/2" OD x 0.4" ID Tube | 4 "x 4" x 1/2" |
| 3. Bottom        | 3/16"                    | 5/16"          |
| 4. Sides         | 5/16"                    | 5/8" to 5/16"  |
| 5. Side Cutters  | N/A                      | 5/8" T-1       |
| 6. Cutting Edge  | 1"                       | 1" x 8" T-1    |
| 7. Double Bottom | N/A                      | 5/16"          |
| 8. Top           | N/A                      | 7/16"          |

# J:B Heavy Duty Main Pin Grapple



2 x 3

- Nitridetek heat treated bushing increases life of attachment and strength of the pin up area
- Unique design permits grapple lowerjaw movement for greater material handling control
- Grapples are sized to meet individual excavator operating capacities –not machine weight
- All visible welds are protected against wear
- Abrasive resistant steel used on all wear surfaces
- Heavy-Duty design with (2) tines upper, (3) tines lower
- Sleeved center pin keeps grapple halves together while mounting

The JRB Heavy-Duty Grapple can perform structural demolition, loose material handling (scrap, beams, pipe, poles, tires, etc.). When used with the JRB Quick Couplers, change-over time from Excavator Grapple to Bucket is minimized to 3-to-5 minutes, increasing productivity.





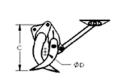
### **GRAPPLES & RIPPERS**

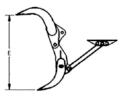


### Heavy Duty Main Pin Grapple cont.









| Machine Class | Weight    | Weight    | (A)<br>Upper<br>Jaw Width | (B)<br>Lower<br>Jaw Width |
|---------------|-----------|-----------|---------------------------|---------------------------|
| 12mT          | 1390 lbs. | 1500 lbs. | 26.00                     | 37.88                     |
| 15mT          | 2075 lbs. | 2200 lbs. | 31.00                     | 44.25                     |
| 20mT          | 3440 lbs. | 3600 lbs. | 34.00                     | 48.75                     |
| 25mT          | 3850 lbs. | 4000 lbs. | 37.00                     | 52.25                     |
| 35mT          | 4300 lbs. | 4650 lbs. | 39.00                     | 55.75                     |
| 45mT          | 5600 lbs. | 5950 lbs. | 45.00                     | 63.25                     |

| Machine Class | (C)<br>Closed<br>Height | (D)<br>Minimum<br>Opening | (E)<br>Maximum<br>Opening | Approx.<br>Capacity<br>(YD³) |
|---------------|-------------------------|---------------------------|---------------------------|------------------------------|
| 12mT          | 46.00                   | 7.00                      | 83.00                     | 0.5-1.5                      |
| 15mT          | 53.00                   | 8.00                      | 100.00                    | 2.0-4.0                      |
| 20mT          | 59.00                   | 9.00                      | 120.00                    | 2.5-4.3                      |
| 25mT          | 62.00                   | 9.00                      | 123.00                    | 2.5-4.3                      |
| 35mT          | 65.00                   | 9.00                      | 125.00                    | 3.0-5.0                      |
| 45mT          | 71.00                   | 10.00                     | 136.00                    | 5.0-7.0                      |

\*2 x 3 / 3 x 4 Heavy Duty Main Pin Specification Chart



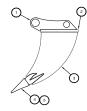


- Useful for land clearing
- •Can be built to mesh with hydraulic thumbs
- Available in various widths and configurations

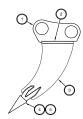
## CP Heavy-Duty Rippers



- •Ripper design reduces stress exerted on machine
- Powerful ripping ability for kaliche, frost, or rock
- •Compatible with most pin-grabbing couplers
- · Available as pin-on or Quick Hitch attachment



| Class                    | 2mT / 3mT | 5mT    | 8mT / 12mT |
|--------------------------|-----------|--------|------------|
| 1. Ear (inches)          | 5/8"      | 3/4"   | 1"         |
| 2. Top                   | 1"        | 1"     | 1"         |
| <ol><li>Ripper</li></ol> | 1" T-1    | 1" T-1 | 1" T-1     |



| Class  | 12mT   | 15mT   | 20mT   |  |  |
|--|--------|--------|--------|--|--|
| 1. Ear (inches)  | 1-1/4" | 1-1/4" | 1-1/4" |  |  |
| 2. Top   | 1-1/2" | 1-1/2" | 1-1/2" |  |  |
| 3. Ripper  | 2" T-1 | 2" T-1 | 2" T-1 |  |  |
| 4. Tooth Set CAT style teeth, other teeth available upon reque |        |        |        |  |  |

### **GRAPPLES & RIPPERS**



CP

Heavy-Duty Rippers cont.



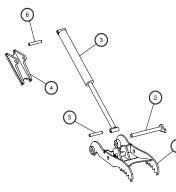
| Class                    | 25mT / 35mT   | 45mT / 60mT |  |
|--------------------------|---|-------------|--|
| 1. Ear (inches)          | 1-1/4"  | 1-1/4"      |  |
| 2. Top                   | 1-1/2"  | 1-1/2"      |  |
| <ol><li>Ripper</li></ol> | 2-1/2" T-1  | 2-1/2" T-1  |  |
| 4. Tooth Set             | Set CAT style teeth, other teeth available upon request |             |  |

## **F** Main Pin Hydraulic Thumb



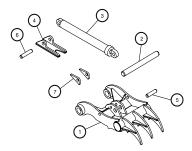
- •2mT 8mT
- Custom designed, engineered to work with and without couplers and with various widths and manufacturers buckets
- Efficiently operates on smaller machines
- Special tine serration for increased holding ability
- Minimal welding required for installation onto the machine
- Rotates up to 140° position for maximum grappling
- 12mT 45mT
- Press in bushings
- Spherical bearings and hydraulic cylinder
- Recessed grease zerks for protection from the elements





#### Line Drawing 2mT - 8mT

- **0**1. Thumb Assembly
  - 2. Main Thumb Pin
- 3. Hydraulic Cylinder
- 4. Hydraulic Cylinder Bracket
- 5. Cylinder Pin #1
- 6. Cylinder Pin #2



#### Line Drawing 12mT - 45mT

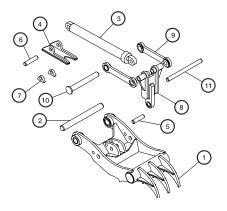
- 1. Thumb Assembly
- 2. Main Thumb Pin
- 3. Hydraulic Cylinder
- 4. Hydraulic Cylinder Bracket
- 5. Cylinder Pin #1
- 6. Cylinder Pin #2
- 7. Lock back bracket



### **Progressive Link Hydraulic Thumbs**



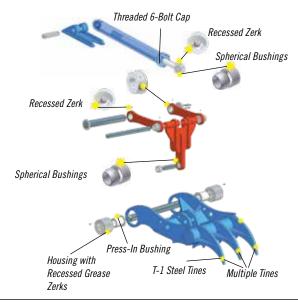
- Press-in bushing
- Multiple T-1 steel tines for rugged construction
- Lock-back bracket prevents thumb from drifting when not in use
- · Recessed zerk in housing
- Spherical bearings in hydraulic cylinder and in the Progressive Link to thumb
- Grease zerks bracket for hydraulic cylinder safety
- •Thick-wall tubing for multiple tine placement
- Linkage allows a rotation of up to 180° position for maximum grappling
- Custom designed, engineered to work with and without couplers and with various widths and manufacturers buckets



- 1. Thumb Assembly
- 2. Main Thumb Pin
- 3. Hydraulic Cylinder
- 4. Hydraulic Cylinder Bracket
- 5. Cylinder Pin #1
- 6. Cylinder Pin #2

- 7. Locking Bracket
- 8. Thumb Link
- 9. Stick Link
- 10. Link Pin #1
- 11. Link Pin #2

## **FOR Progressive Link Hydraulic Thumbs cont.**





### OxJaw™ Main Pin & Progressive Link Thumbs





OxJa7 Main Pin

OxJaw Pro™

- The new OxJaw™ series of excavator thumbs combine advanced design and superior materials for the best levels of productivity
- Constructed entirely of abrasion-resistant AR400 steel providing significant wear reduction and reducing weight to improve payload capacity
- •2.9x stronger and 16% lighter with 37% greater clamping force
- •OxJaw Pro adds and additional 5° rotations and increases the range of the thumb

### **THUMBS**



### OxJaw™ Main Pin & Progressive Link Thumbs cont.

#### OxJaw™ Main Pin Thumb

Dual cushioned cylinders reduce machine jarring on extend and retract cycles leading to lower maintenance and smoother operation. Increased clamping force from larger 5" cylinder. Lighter, Stronger, AR400
Steel construction reduces
thumb weight up to 15% while
improving strength 2.9X.

Available stubbed center tines for protection against boom damage when in full transport position.

Induction hardened pin for longer wear life and less maintenance

#### OxJaw™ Pro - Progressive Link Thumb



Dual cushioned cylinders reduce machine jarring on extend and retract cycles leading to lower maintenance and smoother operation. Increased clamping force from larger 5" cylinder.

Independent pivot mount provides consistent rotation on all makes/ models without relying on machine linkage geometry. Spring detents prevent thumb body from drifting or rattling in lock back position.

Available stubbed center tines for protection against boom damage when in full transport position.

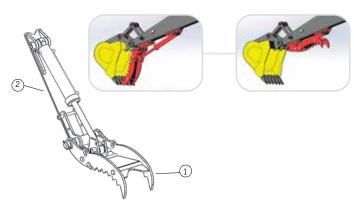
## **F** CP Weld-On Hydraulic Thumb



- •2mT 8mT
- Hydraulic action for versatile thumb positioning
- Low profile thumb storage for better visibility
- Grease zerks positioned for protection from the elements
- Lock-back bracket for hydraulic cylinder safety
- Multiple T-1 steel tines for rugged construction and longer wear life
- Non bucket dependent fit up

#### •12mT - 45mT

- Hydraulic action for versatile thumb positioning
- Low profile thumb storage for better visibility
- Spherical bearings in hydraulic cylinder
- Grease zerks positioned for protection from the elements
- Lock-back bracket for hydraulic cylinder safety
- Non bucket dependent fit up



| Class         | 2mT        | 3mT           | 5mT           |
|---------------|------------|---------------|---------------|
| 1. 2 Tines    | 8" x 23.5" | 8" x 23.5"    | 8.5" x 30.75" |
| 1. 3 Tines    |            | 8.5" x 30.75" |               |
| 2. Base Plate | 4" x 27"   | 4.88" x 35"   | 4.88" x 35"   |

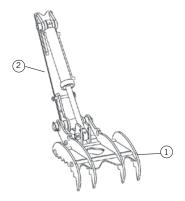
| Class         | 8mT / Backhoe |
|---------------|---------------|
| 1. 2 Tines    | 12" x 40.5"   |
| 2. Base Plate | 7" x 44"      |



### **THUMBS**



### CP Weld-On Hydraulic Thumb Cont.



| Class         | 12mT/15mT    | 20mT      | 25mT / 27mT | 35mT        |
|---------------|--------------|-----------|-------------|-------------|
| 1. 2 Tines    | 18" x 50"    | 18" x 57" | 18.5" x 67" | 18.5" x 68" |
| 1. 4 Tines    | 36" x 50"    | 36" x 58" | 36" x 67"   | 36" x 68"   |
| 2. Base Plate | 8.5" x 60.5" | 10" x 69" | 10" x 69"   | 10" x 84"   |

| Class         | 45mT        |
|---------------|-------------|
| 1. 2 Tines    | 18.5" x 82" |
| 1. 4 Tines    | 36" x 82"   |
| 2. Base Plate | 10" x 84"   |



### **CP** Weld-On Stiff Arm Thumb



- Multi-position thumbs for optimum performance
- •T-1 steel tines for greater strength & longer wear life
- Low profile thumb storage for better visibility
- Ideal for light duty clean-up
- Non bucket dependent fit up

All drawings for non-coupler length \*Photo may not feature the most current design

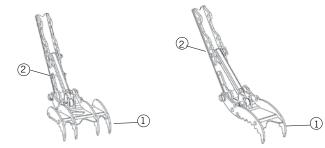








## CP Weld-On Stiff Arm Thumb cont.



| Class         | 2mT        | 3mT           | 5mT           | BH / 8mT    |
|---------------|------------|---------------|---------------|-------------|
| 1. 2 Tines    | 8" x 23.5" | 8" x 23.5"    | 8.5" x 30.75" | 12" x 40.5" |
| 1. 3 Tines    |            | 8.5" x 30.75" |               |             |
| 2. Base Plate | 4" x 27"   | 4.88" x 35"   | 4.88" x 35"   | 7" x 44"    |

| Class         | 12mT/15mT    | 20mT      | 25mT/27mT   | 35mT        | 45mT        |
|---------------|--------------|-----------|-------------|-------------|-------------|
| 1. 2 Tines    | 18" x 50"    | 18" x 57" | 18.5" x 67" | 18.5" x 68" | 18.5" x 82" |
| 1. 4 Tines    | 36" x 50"    | 36" x 57" | 36" x 67"   | 36" x 68"   | 36" x 82"   |
| 2. Base Plate | 8.5" x 60.5" |           |             |             | 10" x 84"   |

### **STRIKEFORCE**





- Standard Features Include:
- Skid Steer Loader Mount (SFB250-SFB-750) or Standard Pin-on Mount (SFB1000-SFB12K)
- 2 Tool Bits
- 1 Extra Seal Kit
- Durable and reliable construction with only two moving parts
- Proven working principle
- Backed by a 2-year warranty on material and workmanship
- TCF Floor Plan Financing Programs are available to qualified dealers

Compact mounted breakers provide the optimal combination of breaker power and frequency for the jobs faced by today's compact tool carrier and mini-excavator machines. These products pack the punch necessary to easily break the concrete up to 10 inches thick, and can be used in confined spaces that larger breakers cannot reach.

Small mounted breakers provide cost effective options, and a flexible mounting system allowing installation onto multiple types of machines. These are truly versatile tools that add value to any contractor's toolbox. These breakers are typically tasked with doing general activities in road construction, utility installation, light demolition, and building construction.

Medium breakers give the contractor a range of demolition and construction tools to address tasks commonly found on the job site. These tools combine power and blow rate to deliver optimum breaking performance in tasks such as utility trenching or site preparation.

Large breakers give the punch needed to break through any obstacle. These breakers combine the power needed for heavy rock breaking, demolition and general construction work.

## **TPC** Vibratory Plate Compactors



- Standard Features Include:
- "Outboard" isolator location provides stability for optimal transmission of impulse for effective compaction
- Shock isolators are angled to reduce damaging shear stresses in the isolator and extend life while providing a performance advantage in delivering compaction forces to soil
- Intergral Flow Control block manages flow and pressure to provide effective and repeatable compaction as well as to protect the hydraulic motor
- Oil bath bearing design maximizes bearing life while minimizing maintenance needs

Paladin Boom Mounted TPC Plate Compactors provide the perfect combination of impulse force and frequency for handling trench and surface compaction needs of the contractor in road construction and repair, embankment preparation, utility and waste drain excavation backfill, as well as special needs in sheet, post and plate driving for soil stabilization.

The TPC line of compactors provide features to enhance compaction effectiveness as well as protect the owner's investment by limiting damaging forces resulting from operation and hydraulic impulses. Further, the TPC family is supported by the industries largest dealer network and service expertise.

### **STRIKEFORCE**





- Standard Features Include:
- Extended Compaction Pad life through use of abrasion resistant Hardox 450 material
- Enhanced durability through the use of an oversized axle shaft and large diameter bearings to minimize contact loads and lubrication requirement
- Fully protected grease locations for use in abusive environments. These are not susceptible to damage in typical work environment as with competitor designs
- Minimized maintenance through the use of a large diameter greased zinc alloy bearing which also protects the axle shaft and housings from damage
- All compaction wheels come standard with the Scraper Blade

Paladin Boom Mounted TWC Compaction wheels provide a cost effective, durable, and user friendly compaction method for use in most soils and trench conditions. Strikeforce Compaction Wheels are very effective in consolidating and condensing clay or fine mechanically stable (separates with difficulty) soils where the other compaction means are less effective. The TWC uses the machine force to compress columns of soil to achieve overall compaction, and unlike other compaction means this can be done in wet/soggy soil conditions.



### **Case Loader Waste Package Guard**

The Case Loader Waste Package provides machine and operator protection in harsh landfill, waste station and forestry environment.



#### **HD Front Frame Cover**

Features: Replaces original cover to eliminate openings that debris could enter.



#### Lift Cylinder Guards

Features: The guards protect the cylinder hoses and fittings while the flexible covers prevent debris build-up inside the frame. Bolt-on design.



#### Front Window Guard

Features: Protects the cabs front glass from damage with minimal obstruction to the operator's view.



#### Front Frame/Axle Cover

Features: Seals the opening between the front frame and axle and prevents debris from entering the front frame.



#### Front Light Guards

Features: Protect lights from damaging debris. Bolt-on design.



#### **Articulation Guard**

Features: Covers reduce openings in hinge area to prevent entry of debris. Easily removable for access to the inner frames.



#### Front Frame Cylinder Hose Cover

Features: Covers prevent debris from collecting in cylinder mounting areas and protects cylinder hoses from damage. Bolt-on design.



#### **Front Belly Guard**

Features: Protects front drive components and prevents debris entry into front frame. Includes access panel for routine maintenance/inspection.



#### **Rear Belly Guard**

Features: Provides additional fuel tank protection and prevents debris from entering the rear frame behind the axle.

### Case Loader Waste Package Guard cont.



#### **Axle Seal Guards**

Features: Prevents build-up of debris between the axle and rim as well as any wires and other material that may wrap around the axle.



#### **Rear Light Guards**

Features: The guards protect the rear lights from damage caused by debris. Can easily be removed for light maintenance.



#### **Rear Window Guard**

Features: Protects the rear cab class from damage. The guard hinges upward to provide access to cooling package cover. Bolt-on design.



#### Raised Engine Air Pre-Cleaner

Features: Clamps to the existing air intake and ensures longer air filter life. Has an improved fuel economy and better performance.



#### Flexible Ladder Step

Features: Replaces the more rigid OEM lower step. The flexible rubber deflects debris and the curved design prevents any snagging.



#### Transmission Guard

Features: Protects transmission and hydraulic components and prevents any debris from entering the rear frame. Bolt-on design.

### Case Dozer Landfill Package

The Case Dozer Landfill Package provides machine protection in harsh landfill waste environment.



#### **HD Radiator Door**

Features: Heavy-duty design withstands more abuse in extreme applications. Angled louver prevents entry of debris from below. Bolt-on design. Installs quickly.



#### Trash Rack

Features: Has a 14 YD³ capacity and a sturdy tubular construction. High visibility.



#### Counterweight

Features: Adds up to 1900 lbs. to the rear of the machine to counteract the weight of a heavier blade. Adjusted in 190 lbs. increments. Minimum weight 760 lbs; maximum weight 1900 lbs.



#### **Rear Striker Bars**

Features: The heavy-duty design can withstand extreme landfill environments and deflect debris away from the frame. Easily bolts to counterweight.



#### **Tank Guard**

Features: Provides protection to the fuel tank and hydraulic tank. Is ideal for forestry and land-fill applications. Made form 3/8" plate.

### Case Dozer Landfill Package cont.



**Engine Pre-Cleaner** 

Features: Clamps to existing air intake and ensures longer air filter life. Has an improved fuel economy and better performance.



Lift Cylinder Hose Guards

Features: Protects exposed blade and lift cylinder hoses from deep cuts and abrasion. Bolt-on mount design for easy installation and removal.



Front Striker Bars

Features: Bars knock material off the tracks to protect the machine's sides fenders and tanks.



**Final Drive Seal Guards** 

Features: Protects drive seal from wire and of debris wrapping around the shoe axle. Bolt-on design.



**Grease Fitting Prot Guard Rings** 

Features: Protects 18 different grease points on the machine's exterior weld-on. Has a heavy-duty design for use in extreme environments.

## **Case Dozer Forestry**

The Case Dozer Forestry Package provides machine and operator protection in harsh forestry and land clearing environment.



#### Front Window Screen

Features: Protects the front window from debris and has a tool-less removal for easy window cleaning. Bolt-on design. ISO 8084 certified.



#### **Door Window Screens**

Features: Protects the cab door windows from debris and has a tool-less opening from the inside and out for emergency egress. Hinged for window cleaning. Bolt-on design. ISO 8084 certified.



#### Side Window Screens

Features: Protects the cab side windows from debris. No welding is required for installation. Includes a tool-less opening from the inside out for an emergency egress and hinges out for window cleaning. Bolt-on design. ISO 8084 certified.



#### A/C Module Guard

Features: Protects the air conditioner module on the rear of the cab and has removable light guards. Compatible with CNH rear screen. Some welding is required for installation. A rear discharge version is available.



#### **Rear Window Screen**

Features: This heavy-duty design protects the cab in harsh environments. Easily installs to cab with no welding or drilling. Prop rod included to hold guard out of the way for easy cleaning and maintenance.



#### Front Light Guard

Features: Bolt-on design requires no drilling to install. Guards 4 OEM headlights (2 mount on guard, 2 on front window guard). Compatible with sweep equipped machines.

## **Case SSL Forestry**



#### **Hydraulic Connection Guards**

Features: Heavy-duty formed 3/16" steel plate. Easy bolt-on installation and welding is not needed. Complete Connect Under Pressure (CUP) manifold protection. Hinged guards for CUP manifold access.



#### Rear Bumper

Features: Heavy-duty formed steel plate construction. Bolt-on design requires no welding and does not interfere with OEM tie-down hook access or compartment doors. Departure angle of 21°



#### Sweep

Features: Protects rear of machine from falling debris. Tool-less opening from the inside and out and hinges up for emergency egress.



#### Rear Grill Guard

Features: Attaches to heavy duty rear bumper. The heavy-duty upper mounts weld to the frame and protects radiator from debris while airflow. Swings open to allow unhindered access to engine compartment.



#### Top Guard with Light Guards

Features: Supported by cab frame and held in place using existing rivnuts. Maintains top window visibility with a low profile design to avoid tree limbs.



#### **Intake Screens**

Features: Filters debris from entering air cooler area. Helps prevent overheating issues and prolongs life of coolers. Bolt-on design (hole modification required), but welding is not required. Replaceable steel mesh screen design.

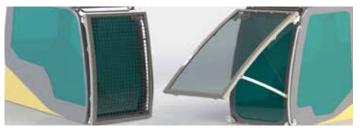


#### Side Screens

Features: Built with a heavy-duty design to protect cab glass. Can also be used to replace OEM side screens when being used in harsh environments.

## **KOMATSU & DEERE**

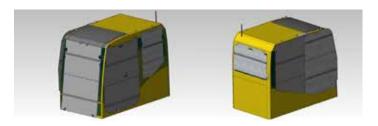
## **Komatsu Excavator Cab Guarding**



#### Front Window Guard, Wire & Polycarbonate

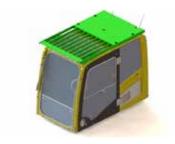
Features: Available in Scratch Resistant Polycarbonate (1/2" or 1/4" Thick) or Wire Mesh.

Protects window from flying debris and utilizes existing mounting locations for easy bolt-on Installation. Has a replaceable and interchangeable front screen. It is hinged at the top for easy access to front glass and is contoured to fit front of cab. Sturdy, Fabricated, Steel Frame and Mounting Brackets.



#### **Folding Vandal Guards**

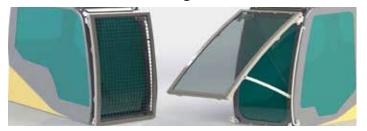
Features: Prevents windows from being broken by vandals. It has a lightweight aluminum construction and no tools required to install guards once hanger brackets are installed Includes keyed-alike padlocks to secure guards to cab. Covers all windows except roof hatch.



#### **Top Guard**

Features: Protects top of cab from falling debris. Includes mounting locations for vandal guard and front working lights Heavy-duty construction complements Paladin front window guard. Bolt-on design. Welding is not required.

## **Deere Excavator Cab Guarding**



#### Front Window Guard, Wire & Polycarbonate

Features: Available in Scratch Resistant Polycarbonate (1/2" or 1/4" Thick) or Wire Mesh.

Protects window from flying debris and utilizes existing mounting locations for easy bolt-on Installation. Has a replaceable and interchangeable front screen. It is hinged at the top for easy access to front glass and is contoured to fit front of cab. Sturdy, Fabricated, Steel Frame and Mounting Brackets.



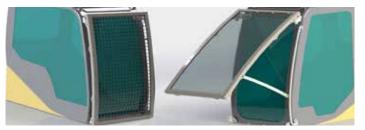
#### **Top Guard**

Features: Protects top of cab from falling debris. Includes mounting locations for vandal guard and front working lights Heavy-duty construction complements Paladin front window guard. Bolt-on design. Welding is not required.

CAT

## CAT, DOOSAN & KOBELCO

## **CAT Excavator Cab Guarding**

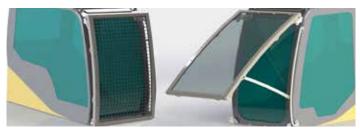


#### Front Window Guard, Wire & Polycarbonate

Features: Available in Scratch Resistant Polycarbonate ( $\frac{1}{2}$ " or  $\frac{1}{4}$ " Thick) or Wire Mesh.

Protects window from flying debris and utilizes existing mounting locations for easy bolt-on Installation. Has a replaceable and interchangeable front screen. It is hinged at the top for easy access to front glass and is contoured to fit front of cab. Sturdy, Fabricated, Steel Frame and Mounting Brackets.

## **Doosan Excavator Cab Guarding**

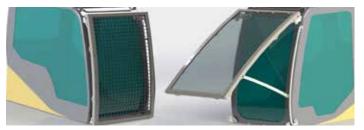


#### Front Window Guard, Wire & Polycarbonate

Features: Available in Scratch Resistant Polycarbonate (½" or ¼" Thick) or Wire Mesh.

Protects window from flying debris and utilizes existing mounting locations for easy bolt-on Installation. Has a replaceable and interchangeable front screen. It is hinged at the top for easy access to front glass and is contoured to fit front of cab. Sturdy, Fabricated, Steel Frame and Mounting Brackets.

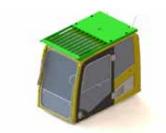
## **Kobelco Excavator Cab Guarding**



#### Front Window Guard, Wire & Polycarbonate

Features: Available in Scratch Resistant Polycarbonate (1/2" or 1/4" Thick) or Wire Mesh.

Protects window from flying debris and utilizes existing mounting locations for easy bolt-on Installation. Has a replaceable and interchangeable front screen. It is hinged at the top for easy access to front glass and is contoured to fit front of cab. Sturdy, Fabricated, Steel Frame and Mounting Brackets.



#### **Top Guard**

Features: Protects top of cab from falling debris. Includes mounting locations for vandal guard and front working lights Heavy-duty construction complements Paladin front window guard. Bolt-on design. Welding is not required.

## **Terex Excavator Cab Guarding**



### **Open ROPS Polycarbonate Front Guard**

Features: Easily bolts to ROPS frame with no welding required. Includes a bracket to relocate work lights. Protects operator from small debris and is ideal for use with a hammer.

## **Kubota Excavator Cab Guarding**



**Open ROPS Polycarbonate Front Guard** 

Features: Easily bolts to ROPS frame with no welding required. Includes a bracket to relocate work lights. Protects operator from small debris and is ideal for use with a hammer.



Open ROPS Wire Front Window

Features: Easily bolts to ROPS frame with no welding required. Protects operator from small debris.



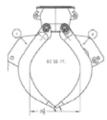
### **Forestry Power Grapple**







- Built to applications for maximum load capacities
- Exceptional handling speed and hydraulic power
- · Easy-to-mount pin-on or quick change connections
- Hardened and chrome pins
- Tool cylinder control with continuous 360° rotation
- Concealed hydraulics
- Ideal for forest, mill loading, sorting, decking, hoe-chucking and yard applications

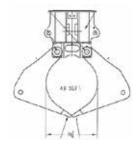


## **Tree Length Grapple**



- Designed to efficiently bunch, sort, load/unload and stack tree length
- Exceptional handling speed and torque
- · Built to maximize load capacities
- Available tine configurations include 2/1





## Excavator Mat Grapple





- Handle multiple mats
- Replaceable weld-on teeth
- Single/Dual MCD drive with continuous 360° rotation
- Quickly clean and pry up mats
- · Pin-on or QC lugging
- · Ideal for forestry, oil and gas, and construction applications

## JEWELL Grapples



- · Designed and manufactured for rugged shovel logging applications
- Grapple arms designed with mounting lugs for optional bolt on quick change brush rake arms
- •Standard on 52", 58" and 66" arms
- Easily removable guarding for access to all hydraulic components
- Large diameter, induction hardened alloy pins and bushings used in arms and cylinders
- Designed for high pressure hydraulic systems
- Easy maintenance

## Cable Reelers



- Rapid Reel Interchange without Ground Helper. "Lift & Go" Drive System
- Allows partial cable deployment with access to both couplers
- Drum system compatible with complete system - Fully Integrated
- Ruggedly constructed and designed for ease of maintenance
- Drilling and loading more with less downtime
- Configured to suit your application with integrated system options for wheel loaders, dozer mount, scoop tram or truck mount

## **Dozer Blades**



- A complete range of durable blades to mount on Track Type Tractors, Wheeled Dozers & Compactors, Wheel Loaders and Graders
- Available with high-grade liner wear packages, side plate protection, spill guards and bolt-on edges
- Optimal one Blade profile for multiple applications:
- · Slot Dozing
- Reclamation
- Stripping
- Tailings
- High strength, durable boxed construction
- Extreme wear properties
- Increased fuel efficiency
- Faster cycle times
- Improved undercarriage life
- Lugged to OEM standards
- •SAE capacity rating

# Tire Manipulators



- Safe and versatile
- Industry-proven reliability
- Tire fall back protection
- · Manual central greasing for ease of maintenance
- Load holding valves
- Built to mount on your machine





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