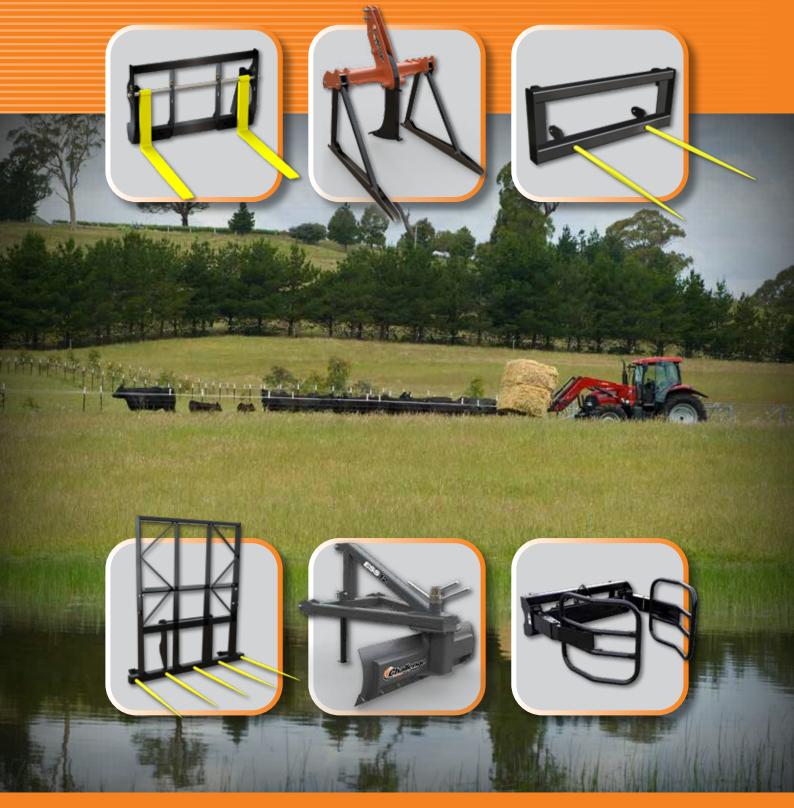


CHALLENGEIMPLEMENTS

AUSTRALIAN TECHNOLOGY TO LOAD, LIFT AND CARRY



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Over 60 Years of History

Challenge Implements is a tractor loader and attachment specialist with its major manufacturing plant situated in Orange, New South Wales, approximately 260 kilometres west of Sydney. Orange is a regional city with a population of 39,000 and the area is promoted as the agribusiness capital of New South Wales. Main agricultural activities in the surrounding area include: cereal and oilseed production; wool and prime lambs; beef; dairies; apple, pear and stone fruit orchards; grapes and vineyards; vegetables; flowers and pine plantations.

Challenge is a fully Australian-owned thirdgeneration family company.

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Challenge commenced manufacturing agricultural implements in Orange in 1957 with two employees and a capital of less than £500. The ultimate aim of the company was to develop a representative range of everyday agricultural equipment. Steps were taken even in the first year of operation to divert every available penny toward the necessary research and development required to produce such equipment.

The year 1962 marked the release of the first Challenge front end loader along with a threepoint linkage grader. These products gained immediate market acceptance and established the brand name 'Challenge' as implements of good design, robust in construction and offering value for money.

Today Challenge continues to grow by expanding its operations throughout Australia. This allows Challenge to continue to support Australian farmers with fast, prompt and reliable service, with equipment designed by Australians for Australian conditions.

From the very first loader made by Challenge in 1962, this Australian-owned company and its brand has created enviable traditions of worldclass engineering excellence and innovation.

General Purpose Buckets

All general purpose buckets have been designed to meet the high strength and safety requirements of today's environment. There is a large variety of buckets available to cover a wide range of applications and to enable a more compatible loader/tractor combination, ensuring you get the most from your loader.

All buckets are constructed from high tensile steel (570mpa) which is laser cut for accuracy and press formed to ensure superior strength.

When attached to a Challenge front end loader, the bucket profile has been designed to ensure there is no rollback, a condition whereby material spills or falls over the rear of the bucket as it is filled. All earthmoving buckets enable maximum fill with minimum effort, ensuring an efficient loading cycle.

The lower back portion of the bucket has a double plate arrangement that forms an enclosed 'box' section running the full width of the bucket, giving the bucket exceptional torsional strength.

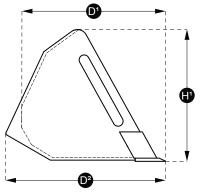
Buckets have a high quality roll formed cutting edge for excellent durability as well as wear plates on the bottom face of the bucket.



Heavy section pipe gives a clean smooth face to the top of the bucket.

The buckets' cut ends have been pressed to give strength along the edge and sides of the bucket.

The attachment lugs on the rear of the bucket have plates that distribute the load to the strengthened sections of the bucket, directly behind the 'box' section and to the formed edge towards the top of the bucket. This eliminates deformation in the back of the bucket during loading cycles. Most general purpose buckets can be fitted with ground-engaging teeth if required.





GENERAL PURPOSE HIGH CAPACITY BUCKET

GENERAL PURPOSE LOW CAPACITY BUCKET





| | | COMPACT 'LCC | ?' | MID 'LCM' | LC | W CAPACITY ' | LC' | HIGH CAP | ACITY 'HC' |
|-----------------------------------|----------|--------------|----------|-----------|-----------|--------------|-----------|-----------|------------|
| Model | 134LCC | 150LCC | 170LCC | 186LCM | 186LC | 216LC | 246LC | 216HC | 246HC |
| Horse power range | 21-45 hp | 21-45 hp | 21-45 hp | 45-70 hp | 55-360 hp | 55-360 hp | 55-360 hp | 55-360 hp | 55-360 hp |
| Width | 1340 mm | 1500 mm | 1700 mm | 1860 mm | 1860 mm | 2160 mm | 2460 mm | 2160 mm | 2460 mm |
| Weight | 62 kg | 78 kg | 88 kg | 178 kg | 190 kg | 220 kg | 245 kg | 240 kg | 265 kg |
| Depth (D¹) | 460 mm | 490 mm | 575 mm | 665 mm | 672 mm | 672 mm | 672 mm | 787 mm | 787 mm |
| Overall depth (D ²) | 695 mm | 740 mm | 805 mm | 940 mm | 964 mm | 964 mm | 964 mm | 1040 mm | 1040 mm |
| Height (H ¹) | 425 mm | 445 mm | 495 mm | 600 mm | 657 mm | 657 mm | 657 mm | 700 mm | 700 mm |
| Struck capacity | 0.13 m³ | 0.17 m³ | 0.25 m³ | 0.38 m³ | 0.47 m³ | 0.55 m³ | 0.63 m³ | 0.66 m³ | 0.76 m³ |
| Rated capacity | 0.16 m³ | 0.22 m³ | 0.31 m³ | 0.49 m³ | 0.57 m³ | 0.67 m³ | 0.77 m³ | 0.80 m³ | 0.90 m³ |
| Optional ground engaging teeth | | | - | | 7 | | 9 | | 9 |





LIGHT MATERIAL BUCKET



The three light material buckets have different rated capacity and offer different widths. They have been developed to handle larger volumes of lighter material. They have the same features as the general purpose bucket with the addition of internal ribs near the attachment lugs for extra strength in the back of the bucket.

| LIGHT MATERIAL BUCKET 'LM' | | | | | |
|---------------------------------|-----------|-----------|-----------|--|--|
| Model | 186LM | 216LM | 246LM | | |
| Horse power range | 55-360 hp | 55-360 hp | 55-360 hp | | |
| Width | 1860 mm | 2160 mm | 2460 mm | | |
| Weight | 295 kg | 348 kg | 360 kg | | |
| Depth (D¹) | 980 mm | 1087 mm | 980 mm | | |
| Overall depth (D ²) | 1040 mm | 1160 mm | 1060 mm | | |
| Height (H1) | 910 mm | 940 mm | 982 mm | | |
| Struck capacity | 0.90 m³ | 1.20 m³ | 1.22 m³ | | |
| Rated capacity | 1.10 m³ | 1.45 m³ | 1.48 m³ | | |

Multi-Purpose Buckets (4-in-1)

For the ultimate in versatility, the multipurpose 4-in-1 bucket gives you a bucket, a blade, a grab and a grader. This attachment requires a third hydraulic control circuit.

- Bucket With the multi-purpose bucket in the closed position you have a standard earthmoving bucket to pick up and move loose materials, with the option to open the bucket to empty material instead of dumping (ideal for unloading material over a high side-board of a truck or trailer).
- **Blade** With the multi-purpose bucket in the open position and the fixed half of the bucket in the vertical position you have an earthmoving blade.
- Grab As you approach the material to be handled you can open the multipurpose bucket and position it over or around the material then, closing the bucket jaws in a biting action, pick up the material.
- Grader With the multi-purpose bucket in the open position and dumped forward so the front internal cutting edge is in contact with the ground, you can drag the bucket backwards to scrape material into a heap or to backfill trenches. With the multi-purpose bucket in a similar



orientation but with both internal cutting edges in contact with the ground, the bucket can be used as a leveller on firmer surfaces.

All multi-purpose buckets have been designed to exceed the requirements of the agricultural industry and, when used with the standard level-lift Challenge front end loader, have safety features to eliminate rollback, this feature prevents material from falling over the rear of the bucket when it is filled. The multi-purpose buckets enable maximum fill with minimum effort, ensuring an efficient loading cycle. Buckets are available in a number of sizes to enable a more compatible loader/tractor combination, ensuring you get the most from your loader.

- The lower back portion of the bucket has a double plate arrangement constructed from high tensile steel (570mpa) that forms an enclosed 'box' section running the full width of the bucket, giving the bucket exceptional torsional strength.
- Buckets have high-quality roll-formed cutting edges for excellent durability.
- Heavy section pipe give a clean smooth face to the top of the bucket.
- The laser cut ends and hinges of the bucket have been cut from heavy highgrade plate to give maximum strength to the sides of the bucket.
- The bottom of the bucket has additional formed plate with internal rib section for maximum strength in the moving half of the bucket.
- Some multi-purpose buckets can be fitted with ground-engaging teeth if required.



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MULTI-PURPOSE (4-IN-1) BUCKET

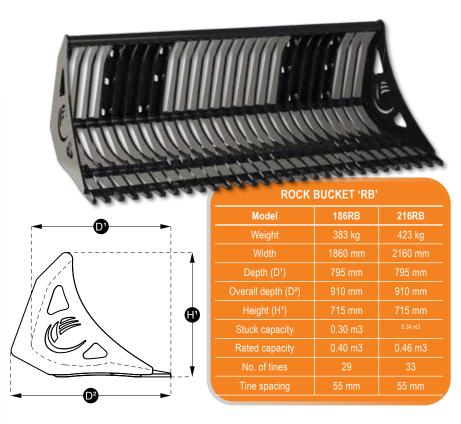


| | C | OMPACT 'MLC | C' | MID 'MLCM' | LO | N CAPACITY 'N | ILC' | HIGH CAPACITY 'MHC' |
|-----------------------------------|----------|-------------|----------|------------|-----------|---------------|-----------|---------------------|
| Model | 134MLCC | 150MLCC | 170MLCC | 186MLCM | 186MLC | 216MLC | 246MLC | 216MHC |
| Horse power range | 21-60 hp | 21-60 hp | 21-60 hp | 55-70 hp | 55-360 hp | 55-360 hp | 55-360 hp | 55-360 hp |
| Width | 1340 mm | 1500 mm | 1700 mm | 1860 mm | 1860 mm | 2160 mm | 2460 mm | 2160 mm |
| Weight | 113 kg | 144 kg | 165 kg | 235 kg | 326 kg | 362 kg | 391 kg | 441 kg |
| Depth (D¹) | 393 mm | 380 mm | 494 mm | 545 mm | 560 mm | 560 mm | 560 mm | 750 mm |
| Overall depth (D ²) | 502 mm | 514 mm | 535 mm | 702 mm | 767 mm | 767 mm | 767 mm | 950 mm |
| Height (H1) | 394 mm | 440 mm | 491 mm | 553 mm | 613 mm | 613 mm | 613 mm | 755 mm |
| Overall height (H ²) | 520 mm | 514 mm | 560 mm | 625 mm | 776 mm | 776 mm | 776 mm | 845 mm |
| Maximum opening (O ¹) | 433 mm | 443 mm | 625 mm | 680 mm | 824 mm | 824 mm | 824 mm | 965 mm |
| Struck capacity | 0.10 m³ | 0.12 m³ | 0.20 m³ | 0.25 m³ | 0.32 m³ | 0.37 m³ | 0.42 m³ | 0.56 m³ |
| Rated capacity | 0.13 m³ | 0.15 m³ | 0.26 m³ | 0.32 m³ | 0.40 m³ | 0.46 m³ | 0.52 m³ | 0.70 m³ |
| Optional ground | | - | - | - | | 8 | 9 | 8 |





Rock Buckets



The Challenge rock bucket supplements our large range of standard and multi-purpose buckets for tractor front end loader usage. The rock bucket has many uses including; levelling, collecting materials for removal, general clean up around the work site, sifting rocks and other debris from soil leaving clean fill that can be used for other purposes. The heavy duty high grade steel blade edge with individual tine reinforcement increases the strength and life span of the attachment.

The Challenge rock bucket can sift rocks from soil collected in the bucket larger than the 55mm gap between the tines. The rock bucket also has the ability to sort larger rocks which some dedicated rock pickers can struggle with. The bucket is designed to help increase the ability to scoop up smaller rocks on flat surfaces (i.e. small rocks collected in wind rows in open paddocks) but the bucket does not replace the function of a dedicated rock picker that can collect individual small rocks from flat, harder surfaces. The Challenge Rock Bucket is ideal for many kinds of work with varying needs.



Post Hole Diggers

The hydraulic post hole digger drive unit is operated by a third service from the front end loader to drive whichever size auger is fitted. The operator controls the loader arms to provide downward pressure while drilling the hole, or by raising the loader arms to lift the auger out of the hole.

The post hole digger is supplied with a one piece attachment carriage. The drive unit can be positioned to the left, right or centre of the carriage to suit individual needs.

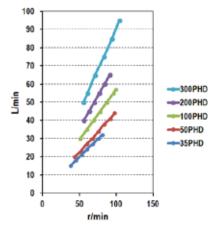
There are a number of drive units to best match the tractor's hydraulic capacity and auger sizes to suit any job. All augers come standard with replaceable tungsten carbide cutting teeth and pilot.



44 ka

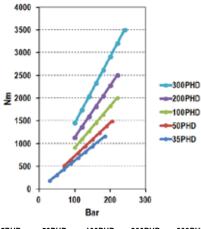
| POST HOLE DIGGER 'PHD' | | | | | | | | | | | | | | |
|---|--------------------------------|--------|-----------------------------|---------|--|--------------|-------------------|---------|------------------|--------|---------|-----------|-----------|---------|
| | Model | | 35PHI | C | : | 50PHD 100PHD | | 200PHI | | D | 300F | PHD | | |
| Flow | Flow rate range* 15-32 L / min | | 20-44 L / min 30-57 L / min | | 40-65 L / min | | min | 50-95 I | _ / min | | | | | |
| | Torque | | 1164 Nm @ | 185 Bar | ar 1495 Nm @ 205 Bar 2010 Nm @ 220 Bar | | 2010 Nm @ 220 Bar | | 20 Bar 2510 Nm @ | | 220 Bar | 3500 Nm (| @ 240 Bar | |
| Maxi | mum Auger | | 250AT | С | 350ATC 350ATC | | 350AT | | C | 600/ | ATC | | | |
| ١ | Neight | | 114 k |] | | 125 kg | | 126 k | g | | 127 k |] | 139 | kg |
| * Flow rate range refers to the flow rate delivered to the attachment. To determine the appropriate drive unit model to suit your tractor, check the tractor hydraulic specifications from your tractor manufacturer. Note: Hydraulic oil flow at the attachment may not always be equal to the total oil flow indicated in the tractor specifications. | | | | | | | | | | | | | | |
| AUGER TUNGSTEN CARBIDE 'ATC' AUGER EXTENSION 'AE' | | | | | | | | | | | | | | |
| Model | 100ATC | 150ATC | 200ATC | 225ATC | 250ATC | 300ATC | 350ATC | 400ATC | 450ATC | 600ATC | | Model | 500AE | 1000AE |
| Diameter | 100 | 150 mm | 000 | 00E mm | 250 mm | 200 mm | 250 mm | 100 mm | 450 mm | 000 | | Longth | 500 mm | 1000 mm |

FLOW VS SPEED

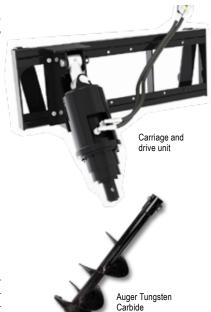


| 35F | 35PHD 50PHD | | 100 | 100PHD | | 200PHD | | 300PHD | |
|-------|-------------|-------|-------|--------|-------|--------|-------|--------|-------|
| L/min | r/min | L/min | r/min | L/min | r/min | L/min | r/min | L/min | r/min |
| 15 | 38 | 20 | 44 | 30 | 51 | 40 | 56 | 50 | 55.5 |
| 18 | 45 | 23 | 52 | 35 | 60 | 45 | 63 | 55 | 61 |
| 21 | 53 | 27 | 60 | 40 | 69 | 50 | 70 | 65 | 71 |
| 24 | 60 | 30 | 68 | 45 | 78 | 55 | 77 | 75 | 83 |
| 27 | 68 | 34 | 76 | 50 | 87 | 60 | 84 | 85 | 94 |
| 30 | 76 | 38 | 84 | 55 | 96 | 65 | 91 | 95 | 104 |
| 32 | 81 | 41 | 92 | 57 | 99 | - | | | |
| | | 44 | 98 | | | | | | |

TORQUE VS PRESSURE



| 35F | PHD | 50PHD | | 100PHD | | 200PHD | | 300PHD | |
|-----|------|-------|------|--------|------|--------|------|--------|------|
| Bar | Nm | Bar | Nm | Bar | Nm | Bar | Nm | Bar | Nm |
| 30 | 189 | 70 | 511 | 100 | 915 | 100 | 1141 | 100 | 1460 |
| 50 | 315 | 90 | 657 | 120 | 1097 | 120 | 1369 | 120 | 1752 |
| 70 | 440 | 110 | 803 | 140 | 1279 | 140 | 1597 | 140 | 2044 |
| 90 | 566 | 130 | 949 | 160 | 1461 | 160 | 1825 | 160 | 2336 |
| 110 | 692 | 150 | 1095 | 180 | 1643 | 180 | 2053 | 180 | 2628 |
| 130 | 818 | 170 | 1241 | 200 | 1825 | 200 | 2281 | 200 | 2920 |
| 150 | 944 | 190 | 1387 | 220 | 2007 | 220 | 2509 | 220 | 3212 |
| 185 | 1164 | 205 | 1496 | | | | | 240 | 3504 |
| | | | | | | | | | |



The figures shown are theoretical and provided as a guide only. The manufacturer accepts no responsibility/liability for any direct or indirect loss caused to person(s) who use this guide. Suitable test equipment must be used to obtain accurate values.

Earthmoving Blades



The bull blade is available in two widths and with a variety of configurations. All blades are formed from high grade steel and have a pressed mouldboard and are fitted with a replaceable bolt-on reversible cutting edge.

- Standard bull blades have the attaching lugs welded directly to the rear of the blade ready to couple to the front end loader.
- The bull blade can be inverted through an adaptor on the rear of the blade. This will position the rake tines towards the ground, allowing ripping and removal of small tree and shrub roots from beneath the ground surface. Alternatively, when pushing up debris, the tines allow topsoil to be left behind.
- The bull blade can also be set up with a manual angle adjustment and a manual tilt adjustment. These are

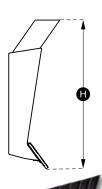
set through brackets supplied and attached to the back of the blade, allowing the operator to change from a standard configuration to either or both angle and tilt options.

 The bull blade can also be set up with a manual angle adjustment and a hydraulic tilt adjustment. The manual angle is set using the bracket supplied and attached to the back of the blade. The tilt is controlled through a hydraulic third service which the operator can control during use.

BULL BLADE WITH MANUAL ANGLE AND HYDRAULIC TILT



| | | Contraction of the second s | | | | |
|-------------------|-------------------------------|---|--|--|---|---|
| | BLADE R | AKE 'BR' | | IANUAL ANGLE 'BRMAT' | BLADE RAKE, M AND HYDRAUL | IANUAL ANGLE |
| Model | 216BR | 246BR | 216BRMAT | 246BRMAT | 216BRHAT | 246BRHAT |
| Description | Bull Blade with Root Rakes | Bull Blade with Root Rakes | Bull Blade Manual Angle and Tilt with Root Rakes | Bull Blade Manual Angle and Tilt with Root Rakes | Bull Blade Manual Angle, Hydraulic Tilt with Root Rakes | Bull Blade Manual Angle, Hydraulic Tilt with Root Rakes |
| Width | 2160 mm | 2460 mm | 2160 mm | 2460 mm | 2160 mm | 2460 mm |
| Weight | 320 kg | 360 kg | 370 kg | 410 kg | 450 kg | 490 kg |
| Blade Height | 710 mm | 710 mm | 710 mm | 710 mm | 710 mm | 710 mm |
| Root rake spacing | 163 mm | 157 mm | 163 mm | 157 mm | 163 mm | 157 mm |





When fitted to a Challenge front-end loader, the stick rake is ideal for clearing sticks, bush scrub and vegetation for; fence lines and farm land. Available in three (3) different widths to suit operator needs.

| STICK RAKE 'SR' | | | | | | | |
|-----------------|---------|---------|---------|--|--|--|--|
| Model | SR18 | SR21 | SR24 | | | | |
| Weight | 276 kg | 290 kg | 323 kg | | | | |
| Width | 1800 mm | 2100 mm | 2400 mm | | | | |
| Depth | 520 mm | 520 mm | 520 mm | | | | |
| Height | 887 mm | 887 mm | 887 mm | | | | |

BULL BLADE WITH ROOT RAKES



OPTIONAL MACHINE GUARD

Protect debris from protruding towards the machine and/or machine operator with an optional machine guard.

Hay Handling L

ESSENTIAL 'E' SERIES ROUND BALE SPIKE

The Essential Series round bale spike is designed to handle a single round bale when attached to a front end loader. The simple design of this attachment and the innovative positioning of the loader attachment lugs

improves overall visibility, making it a safe attachment to use. This attachment is a perfect match with a 3-point linkage round bale spike to transport twice as many round bales whilst also ensuring tractor stability. Having two tough configurable tines used to spike into the flat side of a round bale, ensures the safety of the operator as the bale is unable to rotate while being handled.

COMPACT 'C' ROUND BALE SPIKE

The Compact round bale spike is suited for the smaller range of agricultural tractors with a compact loader attached. It is designed to spike into the flat side of a round bale.





ESSENTIAL SERIES ROUND BALE FORK

The Essential Series round bale fork is a similar design and functionality to the Essential Series round bale spike but built even stronger, with a larger frame and tougher tines, to allow the operator to spike into the flat side of a round bale or slide under a round bale to support loose/

older round bales.

| ROUND BALE SPIKE 'RBS' | | | | | |
|------------------------|--|--|--|--|--|
| Model | Compact | E-120RBS | | | |
| Weight | 45 kg | 67 kg | | | |
| Width | 1000 mm | 1220 mm | | | |
| Compatible tines | 2 x 810 mm (Conus 1) or 2 x 1100 mm (Conus 1) | 2 x 810 mm (Conus 1) or 2 x 1100 mm (Conus 1) | | | |
| Tine spacing | 600 mm | 670 mm | | | |
| | | | | | |

| ROUND BALE FORK 'E-RBF' | | | | |
|-------------------------|---|--|--|--|
| Model | E-120RBF | | | |
| Weight | 90 kg | | | |
| Width | 1210 mm | | | |
| Compatible tines | 2 x 1100 mm (Conus 2) or 2 x 1250 mm (Conus 2) | | | |
| Tine spacing | 870 mm | | | |



DUAL ROUND BALE SPIKE

HANDLING ATTACHMENTS • PAGE 10 The dual round bale spike can carry two and up to three round bales when used with the backrest extension. When used in conjunction with the three-point linkage dual round bale spike you will be able to move four and up НΑΥ to six round bales at once. The option of using both dual round bale spikes together will save you time and fuel costs by reducing tractor movements when moving bales.

| DUAL ROUND BALE SPIKE 'RB2C' | | | | | |
|------------------------------|-----------------------|--|--|--|--|
| Model | 100RB2C | | | | |
| Weight | 120 kg | | | | |
| Width | 2680 mm | | | | |
| Compatible tines | 4 x 1100 mm (Conus 1) | | | | |
| Inner tine spacing | 1230 mm | | | | |
| Outer tine spacing | 670 mm | | | | |
| Outer tine spacing | 670 mm | | | | |

SQUARE BALE SPIKE

The square bale spike is designed to handle large square bales, but round bales may also be handled depending on the tine configuration.

The attachment is fitted with four tines as standard (five tines in the extra wide square bale spike - ideal for export bales) and these are driven into the long side of the bale to give maximum support to the bale while being handled.

The square bale spike has the loader attachment lugs welded directly to the attachment frame, making it a stand-alone attachment to allow for quick and efficient changeover.

The square bale spike can be fitted with a number of tine configurations to suit your individual needs. All tines fit into a tapered sleeve and are removable.

This attachment carries one standard large square hay bale; alternatively a maximum of two when fitted with an optional back rest extension.

| F | A |
|---|---|
| | |

| SQUARE BALE SPIKE 'SBD' | | | | | |
|-------------------------|--|--|--|--|--|
| Model | 100SBD | | | | |
| Weight | 102 kg | | | | |
| Width | 1710 mm | | | | |
| Compatible tines | 2 x 810 mm (Conus 1) & 2 x 1100 mm (Conus 1), or 4 x 810 mm (Conus 1), or 4 x 1100 mm (Conus 1) | | | | |
| Tine spacing | 535 mm | | | | |
| | | | | | |

| EXTRA WIDE SQUARE BALE SPIKE 'SBDE' | | | | |
|--|-----------------------|--|--|--|
| Model 100SBDE | | | | |
| Weight | 138 kg | | | |
| Width | 1910 mm | | | |
| Compatible tines | 5 x 1250 mm (Conus 2) | | | |
| Inner tine spacing | 420 mm | | | |
| Outer tine spacing | 480 mm | | | |



OPTIONAL BACK REST

This back rest extension allows the operator to safely handle a maximum of two square bales at one time. Suitable for the square bale spike and dual round bale spike attachments.



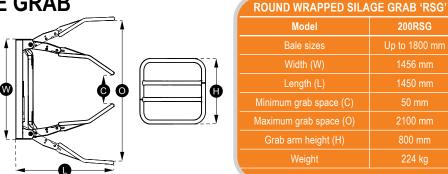
It is important that hay tines are replaced with genuine Challenge hay tines to ensure that safety standards are met. Some hay tines on the market are made from inferior grade steel and may fail.

| | Straight | | | | | | Cranked | Curved | |
|-----------------|----------|---------|--------|---------|--------|---------|---------|--------|--------|
| Length (full) | 810 mm | 1100 mm | 810 mm | 1100 mm | 980 mm | 1250 mm | 1400 mm | 800 mm | 680 mm |
| Length (usable) | 680 mm | 970 mm | 670 mm | 960 mm | 840 mm | 1110 mm | 1260 mm | 670 mm | 550 mm |
| Conus | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |

Silage Attachments

ROUND WRAPPED SILAGE GRAB

The round wrapped silage grab has been designed to allow the efficient handling of wrapped silage bales and round hay bales. The large smooth surface area helps prevent damage to the wrapping material on silage bales. This attachment requires a third hydraulic control circuit, through which the grab arms are controlled. Bringing the arms together around the wrapped silage or round bale allows it to be handled, transported and stacked.



The round wrapped silage grab also allows you to rotate the bale through 90° so that you can stack bales on their flat or round sides. This attachment is designed with several assembly configurations to accommodate the safe and secure handling of most bale sizes. The round wrapped silage grab is designed to carry a maximum of one round wrapped silage bale or one round hay bale.



SILAGE GRAB BUCKET

The silage grab bucket has been designed to handle loose or fine chop silage and is ideal for cleaning up other loose materials such as straw. Having a bucket style bottom, this attachment allows for clean and easy handling of this type of material. After it is driven into the silage face, the attachment can be crowded back like a conventional bucket, ensuring maximum fill with the tines holding and containing the

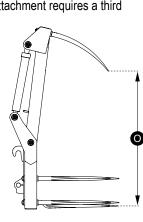
material being handled. Optional end plates are available which simply bolt to the side profile if extremely loose material is to be handled. This attachment requires a third hydraulic control circuit to activate the grab portion of the attachment. All tines fit into a tapered sleeve and are removable.

| SILAGE GRAB BUCKET 'SGB' | | | | | | |
|---|----------------------|----------------------|----------------------|--|--|--|
| Model 156SGB 186SGB 216SGB | | | | | | |
| Weight | 390 kg | 430 kg | 470 kg | | | |
| Width | 1560 mm | 1860 mm | 2160 mm | | | |
| Depth | 800 mm | 800 mm | 800 mm | | | |
| Volume/capacity | 0.73 m³ / 449 kg | 0.88 m³ / 541 kg | 1.03 m³ / 633 kg | | | |
| Compatible tines | 6 x 680 mm (Conus 1) | 7 x 680 mm (Conus 1) | 8 x 680 mm (Conus 1) | | | |
| Tine spacing | 252 mm | 260 mm | 260 mm | | | |
| Note: Volume and capacity based on silage @ 615 kg/m ³ - 30% dry volume. | | | | | | |

POWER SILAGE GRAB

The power silage grab has been designed to handle pit silage easily and safely. This attachment requires a third

hydraulic control circuit to activate the grab portion of the attachment. The tines are forced through the silage in a circular motion using minimal effort and ensuring an efficient cut, clamping the material in the attachment. The tines are spaced to ensure wastage from material falling through the tines is kept to a minimum. All tines fit into a tapered sleeve and are removable.



| POWER SILAGE GRAB 'PSG' | | | | | |
|---------------------------|-------------------------------|---------------------------|--|--|--|
| Model | 150PSG | 180PSG | | | |
| Weight | 253 kg | 304 kg | | | |
| Width | 1500 mm | 1800 mm | | | |
| Depth | 860 mm | 860 mm | | | |
| Volume/capacity | 0.64 m³ / 394 kg | 0.76 m³ / 467 kg | | | |
| Compatible tines (bottom) | 9 x 800 mm (Conus 1) | 11 x 800 mm (Conus 1) | | | |
| Tine spacing (bottom) | 175 mm | 175 mm | | | |
| Compatible tines (top) | 6 x 680 mm (Conus 1) | 7 x 680 mm (Conus 1) | | | |
| Tine spacing (top) | 251 mm | 260 mm | | | |
| Compatible tines (side) | 2 x 810 mm (Conus 1) | 2 x 810 mm (Conus 1) | | | |
| Maximum opening (O) | 1124 mm | 1124 mm | | | |
| Note: Volume and can | acity based on silage @ 615 k | $n/m^3 = 30\%$ dry volume | | | |

Note: Volume and capacity based on silage @ 615 kg/m³ - 30% dry volume.



SILAGE SHEAR GRAB

The silage shear grab is designed to cut silage blocks from the silage pit, leaving a smooth face that is sealed to prevent spoilage. This attachment requires a third hydraulic control circuit to activate the grab/cutting portion of the attachment, which features a hardened serrated front knife and hardened plain knives on the sides. The rounded front profile of the grab is forced through the silage in a circular motion, reducing the cutting force required and ensuring an efficient, clean cut. The two heavy-duty hydraulic cylinders provide ample cutting force and the attachment is fitted with quality heavy-duty tines to accommodate this. All tines fit into a tapered sleeve and are removable.



| SILAGE SHEAR GRAB 'SS' | | | | |
|---------------------------|----------------------|-----------------------|--|--|
| Model | 140SS | 170SS | | |
| Weight | 370 kg | 460 kg | | |
| Width | 1400 mm | 1700 mm | | |
| Depth | 880 mm | 880 mm | | |
| Volume/capacity | 0.81 m³ / 498 kg | 0.98 m³ / 602 kg | | |
| Opening | 730 mm | 730 mm | | |
| Compatible tines (bottom) | 9 x 800 mm (Conus 1) | 11 x 800 mm (Conus 1) | | |
| Compatible tines (side) | 2 x 810 mm (Conus 2) | 2 x 810 mm (Conus 2) | | |
| Tine spacing | 125 mm | 129 mm | | |

Note: Volume and capacity based on silage @ 615 kg/m³ - 30% dry volume.



Other Lifting Attachments



BULK BAG LIFTER

The bulk bag lifter has been designed to safely handle fertiliser bags with four lifting straps. Maximum lift height is achieved by the high strapping lugs allowing the bag to be attached to the bulk bag lifter while the attachment is on the ground. The four strapping points ensure stability of the bag during handling.

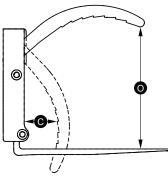
| Model | 100BBL |
|--------------|---------|
| Weight | 146 kg |
| Height | 1520 mm |
| Maximum load | 1000 kg |



POWER LOG GRAB

The power log grab has loader attachment lugs welded directly to the attachment frame making it a stand-alone attachment to allow for quick efficient changeover. This attachment requires a third hydraulic control circuit to activate the grab arm of the attachment. Additional pallet forks are available to increase the load bearing surface area.

| POWER LOG GRAB 'PLG' | | | | |
|----------------------|---------|--|--|--|
| Model | 100PLG | | | |
| Weight | 240 kg | | | |
| Width | 1350 mm | | | |
| Maximum opening (O) | 870 mm | | | |
| Minimum close (C) | 210 mm | | | |
| | | | | |









| PALLET FORK 'PF' | | | | | |
|----------------------|---------|--------------|--|--|--|
| Model | C-PF | E-120PF | | | |
| Weight | 98 kg | 210 kg | | | |
| Width | 1040 mm | 1105-1250 mm | | | |
| Maximum load | 500 kg | 2500 kg | | | |
| Fork length | 930 mm | 1220 mm | | | |
| Minimum tine spacing | 210 mm | 200 mm | | | |
| Maximum tine spacing | 880 mm | 1200 mm | | | |



ESSENTIAL 'E' SERIES PALLET FORK

The Essential Series pallet fork can withstand heavy lifting of pallets and other appropriate objects with its two tough fork arms. With a simple and versatile design, the operator can remove or adjust the backrest to a desired height and move the fork arms along the frame to adjust to a desired width.



COMPACT 'C' PALLET FORK

The Compact pallet fork is suited for the smaller range of agricultural tractors with a compact loader attached. The fork arms can be adjusted to different spacing depending on the operators' needs.

MULTICARRIAGE PALLET FORK



The Multicarriage pallet fork has all the attributes of the Essential Series pallet fork and more. See Multicarriage section for more information.

Multicarriage



MULTICARRIAGE

The innovative multicarriage is capable of three separate attachment functions when attached to a loader. Pallet forks can be easily fitted using the main shaft and the elongated holes allow 5 degrees of angle over the forks for use on uneven terrain, however, this feature can be locked out if fixed operation is required. When the pallet forks are removed either round bale forks or round bale spike can be fitted into the tapered sleeve making this product very versatile. The Multi Carriage has been designed to increase visibility through the attachment when attached to a loader making it easier and safer to lift up loads.

MULTICARRIAGE ROUND BALE SPIKE

When the multicarriage attachment is configured with two Conus 1 tines, using the inner holes at the base of the frame, the attachment becomes a round bale spike. In this configuration, the attachment can be used to spike into the flat side of a round bale; with two tines it ensures the bale is unable to rotate while being handled. This attachment is designed to carry a maximum of one round hay bale.



| MULTICARRIAGE ROUND BALE SPIKE 'MCRBS' | | | |
|---|--|--|--|
| Model | 125MCRBS | | |
| Weight | 91 kg | | |
| Width | 1100-1250 mm | | |
| Compatible tines | 2 x 810 mm (Conus 1) or 2 x 1100 mm (Conus 1) | | |
| Tine spacing 670 mm | | | |
| | | | |



MULTICARRIAGE ROUND BALE FORK

When the multicarriage attachment is configured with two Conus 2 tines, using the outer holes at the base of the frame, the attachment becomes a round bale fork. In this configuration, the attachment can be used to spike into the flat side of a round bale; with two tines it ensures the bale is unable to rotate while being handled or the tines can be slid under the bale allowing the tines to cradle the bale (great for older or loose bales that need to be supported). This attachment is designed to carry a maximum of one round hay bale.

| N |
|---|

| MULTICARRIAG | E ROL | JND | BALE | FORK |
|--------------|-------|-----|------|------|
| | MCRB | | | |
| | VIURD | | | |

| Model | 125MCRBF | | | |
|------------------|--|--|--|--|
| Weight | 108 kg | | | |
| Width | 1100-1250 mm | | | |
| Compatible tines | 2 x 980 mm (Conus 2) or 2 x 1250 mm (Conus 2) or 2 x 1400 mm (Conus 2) | | | |
| Tine spacing | 850 mm | | | |
| | | | | |

| MULTICARRIAGE PALLET FORK 'MCPF' | | | | |
|----------------------------------|-----------------|---------|--|--|
| Model | 125MCPF | | | |
| Weight | 195 kg | | | |
| Width | 1105-1250 mm | | | |
| Maximum load | 2500 kg | | | |
| Fork length | 1075 mm | | | |
| Tine Spacing | Minimum Maximum | | | |
| Aus Hitch | 675 mm | 1225 mm | | |
| Euro Hitch | 530 mm | 1080 mm | | |
| Universal | 650 mm | 1360 mm | | |

MULTICARRIAGE PALLET FORK

When the multicarriage attachment is configured with two fork arms, the attachment becomes a versatile pallet fork. In this configuration, the attachment can be used to transport pallets across even and uneven terrain. The fork arms are made from alloy steel and are forged to ensure maximum load carrying capacity.



Three-Point Linkage Attachments

THREE-POINT LINKAGE ROUND BALE SPIKE

The three-point linkage round bale spike tines can be driven into the flat side of a round bale. The attachment is fitted with two tines to ensure the bale is unable to rotate while being handled. Tines fit into a tapered sleeve and are removable. This attachment is designed to carry a maximum of one round hay bale.

| 3PL ROUND | BALE SPIKE | | |
|------------------|-----------------------|--|--|
| Model 3PLRBS | | | |
| Weight | 50 kg | | |
| Width | 770 mm | | |
| Linkage hitch | Cat II | | |
| Compatible tines | 2 x 1100 mm (Conus 1) | | |
| Tine spacing | 547 mm | | |
| | | | |

THREE-POINT LINKAGE DUAL ROUND BALE SPIKE

The three-point linkage dual round bale spike can carry two and up to three round bales when used with the extension. Used in conjunction with the dual round bale spike attached to a front end loader you will be able to move four and up to six round bales at once. The option of using both dual round bale spikes together will save you time and fuel costs by reducing tractor movements when moving bales.

| 3PL DUAL ROUND BALE SPIKE | | | | | |
|---------------------------|-----------------------|--|--|--|--|
| Model | 3PLDRBS | | | | |
| Weight | 120 kg | | | | |
| Width | 2680 mm | | | | |
| Linkage hitch | Cat II | | | | |
| Compatible tines | 4 x 1100 mm (Conus 1) | | | | |
| Inner tine spacing | 1230 mm | | | | |
| Outer tine spacing | 670 mm | | | | |
| | | | | | |



| 3PL SQUARE BALE SPIKE | | | | |
|-----------------------|---|--|--|--|
| Model | 3PLSBS | | | |
| Weight | 80 kg | | | |
| Width | 1710 mm | | | |
| Linkage hitch | Cat II | | | |
| Compatible tines | 2 x 810 mm (Conus 1) & 2 x 1100 mm (Conus 1) | | | |
| Tine spacing | 535 mm | | | |

THREE-POINT LINKAGE SQUARE BALE SPIKE

The three-point linkage square bale spike is designed to handle large square bales. The attachment is fitted with four tines as standard and these are driven into the long side of the bale to give maximum support to the bale while being handled. This attachment can be fitted with a number of tine configurations to suit your individual needs. All tines fit into a tapered sleeve and are removable. This attachment is designed to carry one standard large square hay bale; alternatively a maximum of two when fitted with an optional backrest extension.

Three-Point Linkage Attachments



THREE-POINT LINKAGE CARRY ALL

Engineered for easy loading of heavy objects, such as generators, toolboxes and tanks. Built tough with a heavy duty folded checker plate platform. Safely secure loads with multiple tie-down points. Prevent objects, such as pipes, hoses and logs, from rolling off the end with tough end stops. Conveniently load the platform with adjustable height using the tractors' three-point linkage. The carry all hitch is designed to ISO 730 standards.



R SERIES RIPPER

The ripper has been designed for tough Australian conditions and is used to; rip pipe channels, rip drainage channels, rip channels to plant trees and break up compacted soil.

| RIPPER 'R' | | | | |
|---------------------|-----------------------|--|--|--|
| Model R 2/3 | | | | |
| Tractor horse power | 100-350 hp | | | |
| Linkage hitch | Cat II / III / III QH | | | |
| Weight | 255 kg | | | |
| Rip depth | 600 mm | | | |
| Tine width | 50 mm | | | |
| Cutting tip width | 100 mm | | | |
| 66 | | | | |



OPTIONAL PIPE LAYER

Save time by attaching the optional pipe layer to the ripper. The pipe layer features; Nylon tapered rollers to efficiently guide the pipe with minimum resistance and a removable back carriage for access to the pipe while laying. Available in two sizes.

| OPTIONAL PIPE LAYER | | | | |
|---------------------|----------------------|----------------------|--|--|
| Model 50 63 | | | | |
| Tractor horse power | 100-350 hp | 160-350 hp | | |
| Weight | 66 kg | 68 kg | | |
| Width | 110 mm | 125 mm | | |
| Pipe size | 25-50 mm with joiner | 25-63 mm with joiner | | |

OPTIONAL PIPE REEL

Reduce the labour of feeding pipe through the pipe layer by attaching an Easy Load reel to the ripper. The reel features; adjustable arms for easy loading of pipe coils, hydraulic lift to adjust the height from the tractor seat, and an adjustable friction brake for smooth uncoiling of the pipe.

| OPTIONAL PIPE REEL | | | | |
|-------------------------|---------|--|--|--|
| Model | EL | | | |
| Weight | 130 kg | | | |
| Maximum pipe reel OD | 2300 mm | | | |
| Minimum pipe reel ID | 740 mm | | | |
| Maximum pipe reel width | 475 mm | | | |
| Minimum pipe reel width | 100 mm | | | |
| Load Capacity | 220 kg | | | |
| | | | | |

Three-Point Linkage Attachments



ESSENTIAL SERIES SMALL GRADER

The ESS grader is unique to its' range as the simplicity in design creates an ideal implement for the compact sized agricultural tractors with a Category I or II hitch. This grader comes in three blade widths to choose from; 1200 mm (4'), 1500 mm (5') and 1800 mm (6').

| REAR END GRADER 'ESS' | | | | | |
|-----------------------|---|---|---|--|--|
| Model | ESS12 | ESS15 | ESS18 | | |
| Cutting width | 1200 mm (4') | 1500 mm (5') | 1800 mm (6') | | |
| Tractor horse power | Up to 65 hp | Up to 65 hp | Up to 65 hp | | |
| Linkage hitch | Cat I | Cat I / II | Cat I / II | | |
| Mould board height | 370 mm | 370 mm | 370 mm | | |
| Weight | 136 kg | 150 kg | 160 kg | | |
| Blade angle | 360° | 360° | 360° | | |
| Blade angle adjust | Manual. Increments of 15° | Manual. Increments of 15° | Manual. Increments of 15° | | |
| Cutting edge | 1-piece wear resistant steel with reversible edge | 1-piece wear resistant steel with reversible edge | 1-piece wear resistant steel with reversible edge | | |
| Supporting stands | 1 | 1 | 1 | | |



ESSENTIAL SERIES MEDIUM GRADER

Compatible with fixed or floating upper tractor hitch, the ESM grader is designed to suit agricultural tractors with 30 to 100 horse power, a Category I or II hitch and two sets of rear remotes available to operate the hydraulic blade adjustment features from the comfort of the tractor seat. This grader comes in two blade widths; 1600 mm (6') and 2100 mm (7').

Challenge

The options shown are; standard manual blade offset and tilt adjustment and hydraulic blade angle adjustment, optional hungry boards and optional depth wheel with standard manual adjustment.

ESSENTIAL SERIES LARGE GRADER

Challeng

The ESL grader is designed to suit agricultural tractors with 60 to 120 horse power, a Category II hitch and two sets of rear remotes available to operate the hydraulic blade adjustment features from the comfort of the tractor seat. This grader comes in two blade widths; 2400 mm (8') and 3000 mm (10').

| REAR END GRADER 'ESM' & 'ESL' | | | | |
|-------------------------------|---|--|--|--|
| Model | ESM18 | ESM21 | ESL24 | ESL30 |
| Cutting width | 1800 mm (6') | 2100 mm (7') | 2400 mm (8') | 3000 mm (10') |
| Tractor horse power | 30-100 hp | 30-100 hp | 60-120 hp | 60-120 hp |
| Linkage hitch | Cat I / II | Cat I / II | Cat II | Cat II |
| Mould board height | 450 mm | 450 mm | 500 mm | 500 mm |
| Weight | 369 kg | 376 kg | 525 kg | 565 kg |
| Blade offset | Minimum 600 mm left/right | Minimum 600 mm left/right | Minimum 800 mm left/right | Minimum 800 mm left/right |
| Blade offset adjust | Standard with telescopic arm or optional hydraulics. | Standard with telescopic arm or optional hydraulics. | Standard with telescopic arm or optional hydraulics. | Standard with telescopic arm or optional hydraulics. |
| Blade angle | ±45° | ±45° | ±45° | ±45° |
| Blade angle adjust | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| Blade tilt | ±30° | ±30° | ±30° | ±30° |
| Blade tilt adjust | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| Cutting edge | 1-piece wear resistant steel with reversible edge | 1-piece wear resistant steel with reversible edge | 1-piece wear resistant steel with reversible edge | 1-piece wear resistant steel with reversible edge |
| Supporting stands | 2 | 2 | 2 | 2 |
| Hungry boards | Optional @ 30 kg | Optional @ 30 kg | Optional @ 35 kg | Optional @ 35 kg |
| Depth wheel | Optional @ 45 kg | Optional @ 45 kg | Optional @ 50 kg | Optional @ 50 kg |
| Depth wheel adjust | Standard with ratchet ram or optional remote hydraulics. | Standard with ratchet ram or optional remote hydraulics. | Standard with ratchet ram or optional remote hydraulics. | Standard with ratchet ram or optional remote hydraulics. |

The options shown are; standard hydraulic

blade adjustments, optional hungry

boards and optional depth wheel with optional hydraulic adjustment.

Three-Point Linkage Attachments

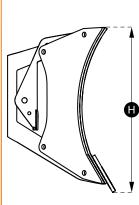
G SERIES REAR END GRADER

The G Series graders can be used for maintenance and repair of agricultural roads and other farm related operations. The blade can also be reversed for back blade work.

The rear end graders have been designed specifically to suit tough Australian conditions.

GES

- The large high tensile 100 mm rotation pin ensures correct alignment and maximum forces can be sustained.
- The main boom structure has been designed to handle the large horse power of todays tractors.
- The hydraulic hoses are clearly routed to the tractor remote connections.
- The graders are equipped with two heavy duty, pneumatic depth wheels.
- The blade angle and rotation plate is fixed by two large machined brackets that take all the forces submitted through the blade.
- The front hitch is compatible with category 2 and 3 linkage and category 3 quick hitch system.
- The grader blades are constructed of 8 mm high grade steel with replaceable purpose built toughened wear edges.
- This attachment also includes two heavy duty frame stands that allow stable and easy storage of the rear end grader.



| REAR | END GRADER 'G | 3 |
|-------------------------|-----------------------|-----------------------|
| Model | G24 | G30 |
| Tractor horse power | 90-180 hp | 120-220 hp |
| Linkage hitch | Cat II / III / III QH | Cat II / III / III QH |
| Blade width | 2400 mm (8') | 3000 mm (10') |
| Blade height | 600 mm (2') | 600 mm (2') |
| Hydraulic blade angle | Standard | Standard |
| Blade angle adjustment | 45° | 45° |
| Hydraulic blade tilt | Standard | Standard |
| Blade tilt adjustment | 18° | 18° |
| Hydraulic blade offset | Standard | Standard |
| Blade offset adjustment | 830 mm (33") | 830 mm (33") |
| Blade thickness | 8 mm (5/16") | 8 mm (5/16") |
| Weight | 1070 kg (2360 lbs) | 1120 kg (2470 lbs) |
| Side panels | Optional | Optional |

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Three-Point Linkage Attachments



Challenge Implements strongly recommends the use of a three-point linkage counterweight to improve both the safety and performance of your Challenge loader/tractor unit.

Challenge Implements has undergone an independent evaluation to ensure that the company complies with the Tractor & Machinery Association of Australia (TMA) code of practice for manufacture and supply of agricultural front end loaders.



THREE-POINT LINKAGE COUNTERWEIGHT

A major safety factor in the operation of a front end loader/tractor unit is the stability of the machine whilst lifting and transporting a load.

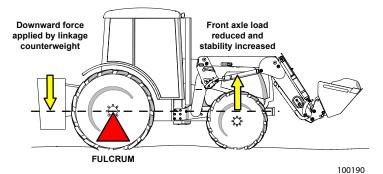
After fitting a loader, the centre of gravity of the tractor is moved forward. When a load is raised, this combined centre of gravity is moved further forward and higher, potentially moving the centre of gravity outside the base triangle of the tractor, causing instability both longitudinally and laterally. Along with instability, there are high loads placed on tractor frontend components such as tyres, rims and axle.

Traditionally, tractor owners have added ballast to increase the stability of the tractor when a loader is fitted by adding liquid fill to the rear tyres, or fitting rear wheel weights.

Although the addition of liquid fill or rear wheel weights may aid stability, neither will reduce the high front axle load when using the front end loader on the tractor. Also, an unnecessarily large amount of weight is required to achieve a result, increasing total vehicle mass considerably.

The three-point linkage counterweight is designed to enhance the performance of the tractor/loader combination by providing suitable ballast behind the rear axle. Applying weight on the three-point linkage of the tractor will provide the greatest counterbalancing effect as it applies a downward force behind the rear axle, reducing the weight carried by the front tyres, rims and axle. The threepoint linkage counterweight will not only reduce the front axle load but will also move the centre of gravity of the tractor/loader combination rearwards, and lower, to maintain stability and ensure safe, effective performance.

The three-point linkage counterweights are supplied without ballast and should be filled with cement to achieve the designed operational weights. Each tractor and loader specification should be considered when selecting the appropriate counterweight.



| COUNTERWEIGHT 'CW' | | | | |
|--------------------|--|---|--|---|
| 14CW | 30CW | 49CW | 125CW | 18. |
| 45 kg | 70 kg | 175 kg | 380 kg | |
| 360 kg | 760 kg | 1220 kg | 3270 kg | |
| 560 mm | 800 mm | 1015 mm | 1610 mm | - |
| 780 mm | 800 mm | 950 mm | 1210 mm | |
| 480 mm | 600 mm | 630 mm | 715 mm | |
| 0.14 m³ | 0.30 m³ | 0.49 m³ | 1.25 m³ | |
| Cat I | Cat I | Cat II | Cat III | |
| Yes | Yes | Yes | Yes | |
| - | - | Yes | Yes | |
| | 14CW 45 kg 360 kg 560 mm 780 mm 480 mm 0.14 m³ Cat I | 14CW 30CW 45 kg 70 kg 360 kg 760 kg 560 mm 800 mm 780 mm 800 mm 480 mm 600 mm 0.14 m³ 0.30 m³ Cat I Cat I | 14CW 30CW 49CW 45 kg 70 kg 175 kg 360 kg 760 kg 1220 kg 560 mm 800 mm 1015 mm 780 mm 800 mm 950 mm 480 mm 600 mm 630 mm 0.14 m³ 0.30 m³ 0.49 m³ Cat I Cat I Cat II Yes Yes Yes | 14CW 30CW 49CW 125CW 45 kg 70 kg 175 kg 380 kg 360 kg 760 kg 1220 kg 3270 kg 560 mm 800 mm 1015 mm 1610 mm 780 mm 800 mm 950 mm 1210 mm 480 mm 600 mm 630 mm 715 mm 0.14 m³ 0.30 m³ 0.49 m³ 1.25 m³ Cat I Cat I Cat III Cat III Yes Yes Yes Yes |



Telehandler Attachments

TELEHANDLER LIGHT MATERIAL BUCKET

The telehandler range of buckets are available in three different widths for both Manitou and JCB hitch. These buckets are purposely designed for light material with a bulk density of up to 1200 kg / m³ allowing for large volumetric scoops. The light material buckets are designed with hard wearing cutting edge and side leading edges. The design caters for a bolt on hard wearing leading edge and a weld on rear wear pad to protect the underside of the bucket. The buckets have an optional level gauge.

| TELEHANDLER LIGHT MATERIAL BUCKETS | | | | | | | | | |
|--|------------|------------|------------|------------|------------|------------|--|--|--|
| Model | TM-15LM | TM-25LM | TM-35LM | TJ-15LM | TJ-25LM | TJ-35LM | | | |
| Width | 2100 mm | 2400 mm | 2400 mm | 2100 mm | 2400 mm | 2400 mm | | | |
| Height | 1042 mm | 1257 mm | 1491 mm | 1018 mm | 1164 mm | 1381 mm | | | |
| Depth | 1264 mm | 1494 mm | 1734 mm | 1429 mm | 1612 mm | 1888 mm | | | |
| Rated Volume | 1.5 m³ | 2.5 m³ | 3.5 m³ | 1.5 m³ | 2.5 m³ | 3.5 m³ | | | |
| Bolt-on Edge | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Optional level gauge | Yes | Yes | Yes | Yes | Yes | Yes | | | |
| Weight | 485 kg | 620 kg | 775 kg | 500 kg | 630 kg | 785 kg | | | |
| Rated Material Density less than or equal to | 1200 kg/m³ | | | |



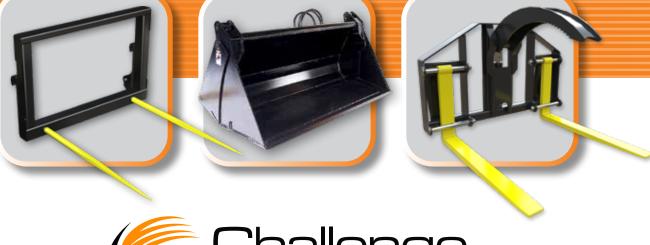
TELEHANDLER LARGE SQUARE BALE SPIKE

The telehandler large square bale spike is designed to handle three large square bales in a single go; thereby reducing travel and operator time. The design features a collapsible back rest for the purposes of reducing transportation costs to the customer. The design also features a braced back rest that will ensure a very strong structure with maximum visibility.





| TELEHAN | | | | | |
|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------|
| Model | TM-19BS | | TJ-19BS | | (and) |
| Hitch type | Manitou | | JCB | | |
| Height | 2075 mm | | 2075 mm | | 100 M |
| Width | 1910 mm | | 1910 mm | | The second second |
| Weight | 305 kg | | 305 kg | | |
| Compatible tines | 4 x 1250 mm (Conus 2) | 5 x 1250 mm (Conus 2) | 4 x 1250 mm (Conus 2) | 5 x 1250 mm (Conus 2) | |
| Inner tine spacing | 900 mm | 450 mm | 900 mm | 450 mm | E SA |
| Outer tine spacing | 450 mm | 450 mm | 450 mm | 450 mm | |
| Maximum lift | 3 bales | | 3 bales | | -0-0 |
| Total handling capacity | 1800 kg | | 1800 kg | | |





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Challenge Implements reserves the right to improve specifications and change the design of its products without prior notification. Challenge Implements designs, manufactures and supplies agricultural attachments that are intended to be used on Challenge Implements front end loaders and other front end loaders approved by the company. Challenge Implements front end loaders and attachments are made to comply with the Tractor and Machinery Association (TMA) code of practice. Attachments must not be modified and should only be used for their stated use.