



FARM
IMPLEMENTS
TRACTOR IMPLEMENT SPECIALISTS

PRODUCT CATALOGUE 18



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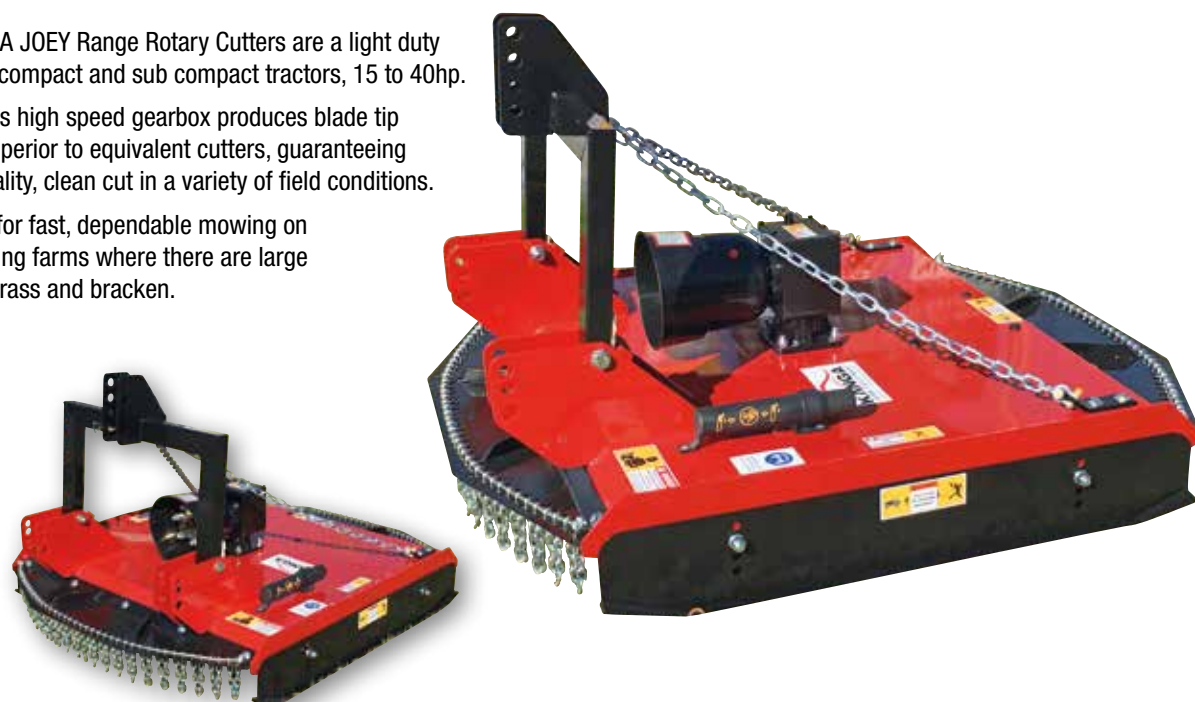
SLASHERS AND ROTARY CUTTERS

Joey Range Rotary Cutter

The KANGA JOEY Range Rotary Cutters are a light duty cutter for compact and sub compact tractors, 15 to 40hp.

The JOEY's high speed gearbox produces blade tip speeds superior to equivalent cutters, guaranteeing a high quality, clean cut in a variety of field conditions.

It is ideal for fast, dependable mowing on smallholding farms where there are large areas of grass and bracken.



Code	KSJ100	KSJ125	KSJ150
Description	JOEY 100 Rotary Cutter	JOEY 125 Rotary Cutter	JOEY 150 Rotary Cutter
Construction	3mm, square, 'clean top' deck with reinforced subframe		
Gearbox	50hp, 540rpm, 1:2.83 ratio		40hp, 540rpm, 1:1.93 ratio
PTO shaft/clutch	Series 4 with 150mm (6") friction (slip) clutch		
Skids	Adjustable, positive locking, four (4) positions (30mm increments)		
Cutter bar	Lowered, bolt together, spring steel		
Blades	Stepped, suction, heat treated, spring steel pivoting on hardened bushes		
Linkage/Mounting	Double clevis, category 1		
Tower position(s)	Centre mounted		
Finish	High build primer and equipment enamel top coat		
Stone guards	Bolt on front and rear chains (6mm)		
Overall width (mm)	1050	1300	1600
Cutting width (mm)	940	1190	1440
Cutting height (mm)	30 - 120		
Tractor range (hp)	15 - 30	20 - 35	20 - 40
Blade tip speed (ft/min)	15,500	19,000	16,250
Weight (kg)	160	195	240

Options
KSRDWJ KANGA JOEY depth wheel

Parts
100.411b KANGA Mini stepped suction blade (pair)
100.412 KANGA Mini 1/2" blade bolt kit

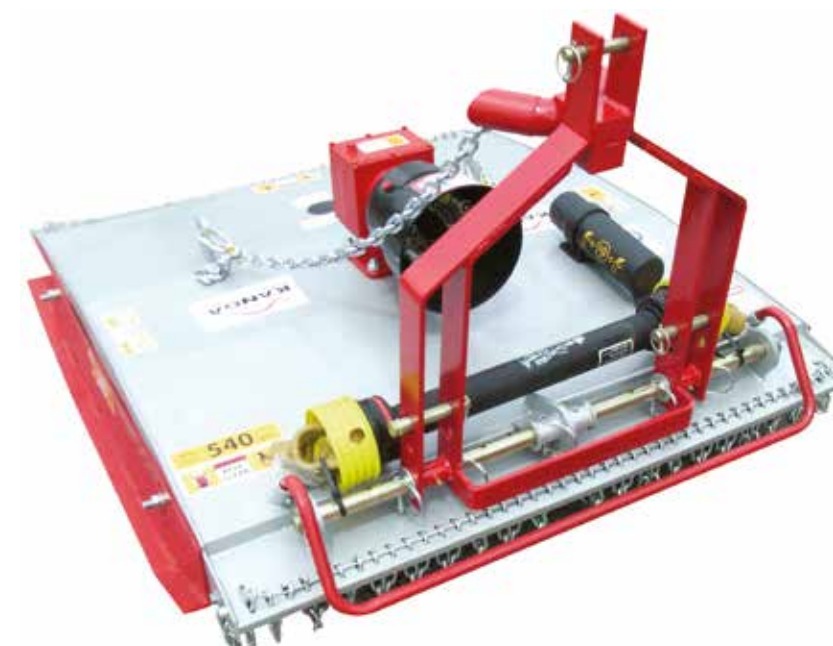
Mini Range Rotary Cutter

The KANGA Mini Range Rotary Cutters have been designed for general purpose cutting on smallholding farms and surrounding areas.

The deck is fully reinforced and the safety chains have been incorporated for maximum durability and safety.

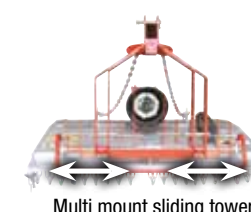
The KANGA Mini Range comes with a sliding tower which enables the operator to offset the deck (left or right) and get closer to fence lines, or other hard to reach areas.

The high speed gearbox produces fast blade speeds and the lowered high tensile cutter bar results in fast, clean, dependable mowing in long grass and light scrub.



Code	KSMN100	KSMN120
Description	MINI 1000 Rotary Cutter	MINI 1200 Rotary Cutter
Construction	2.5mm, square, 'clean top' deck with reinforced subframe	
Gearbox	50hp, 540rpm, 1:2.83 ratio	
PTO shaft/clutch	Series 4 with 150mm (6") friction (slip) clutch	
Skids	Adjustable, positive locking, four (4) positions (30mm increments)	
Cutter bar	Lowered, bolt together, high tensile steel	
Blades	Stepped, heat treated, spring steel pivoting on hardened bushes	
Linkage/Mounting	Double clevis, category 1	
Tower position(s)	Multiple - offset (left and right) and centre mounted	
Finish	Powder coated	
Stone guards	Bolt on front and rear chains (6mm)	
Overall width (mm)	1175	1375
Cutting width (mm)	1000	1200
Cutting height (mm)	40 - 130	
Tractor range (hp)	25 - 40	30 - 40
Blade tip speed (ft/min)	16,803	19,203
Weight (kg)	180	205

Parts
100.411a KANGA Mini stepped blade (pair)
100.411b KANGA Mini stepped suction blade (pair).
100.412 KANGA Mini 1/2" blade bolt kit
100.413 KANGA Mini 16mm blade bolt kit (suit cutters pre-2008)



S Range Rotary Cutter

The KANGA S Range Rotary Cutters are a general purpose implement designed for tough Australian conditions.

The safety chains have been incorporated in the fully reinforced, hot dipped galvanised deck for increased strength and safety.

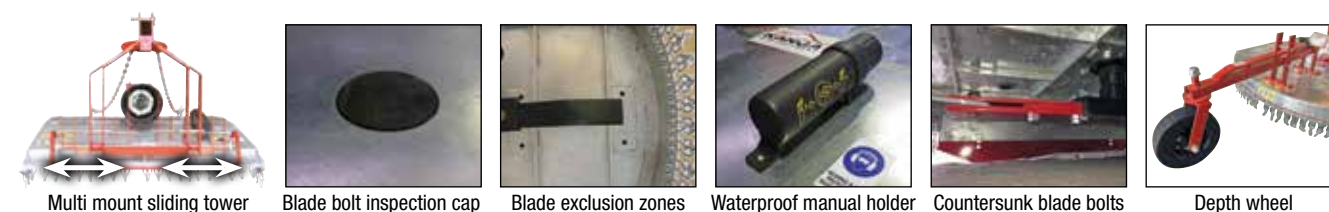
The lowered high tensile cutter bar allows a higher volume of material to be easily discharged producing fast, clean, dependable cutting in light scrub, regrowth and long grass.



Code	KSSR120	KSSR135	KSSR150
Description	S1200 Rotary Cutter	S1350 Rotary Cutter	S1500 Rotary Cutter
Construction	3mm, round-back, 'clean top' deck with reinforced subframe		
Gearbox	40hp, 540rpm, 1:1.93 ratio		
PTO shaft/clutch	Series 4 with 150mm (6") friction (slip) clutch		
Skids	Adjustable, positive locking, four (4) positions (30mm increments)		
Cutter bar	Lowered, bolt together, high tensile/spring steel		
Blades	Stepped, suction, heat treated, spring steel pivoting on hardened bushes		
Linkage/Mounting	Double clevis, category 1 and 2		
Tower position(s)	Multiple - offset (left and right) and centre mounted		
Finish	Hot dipped galvanised deck and painted parts		
Stone guards	Front and rear chains (6mm) incorporated into the deck		
Overall width (mm)	1410	1560	1710
Cutting width (mm)	1200	1350	1500
Cutting height (mm)	50 - 140		
Tractor range (hp)	28 - 40	35 - 50	40 - 50
Blade tip speed (ft/min)	13,119	14,760	16,400
Weight (kg)	250	280	300

Options
KSRDW KANGA light duty depth wheel

Parts
100.134 KANGA stepped suction blades (pair)
100.135 KANGA 3/4" blade bolt kit
100.136 KANGA 7/8" blade bolt kit (suit cutters pre-2008)



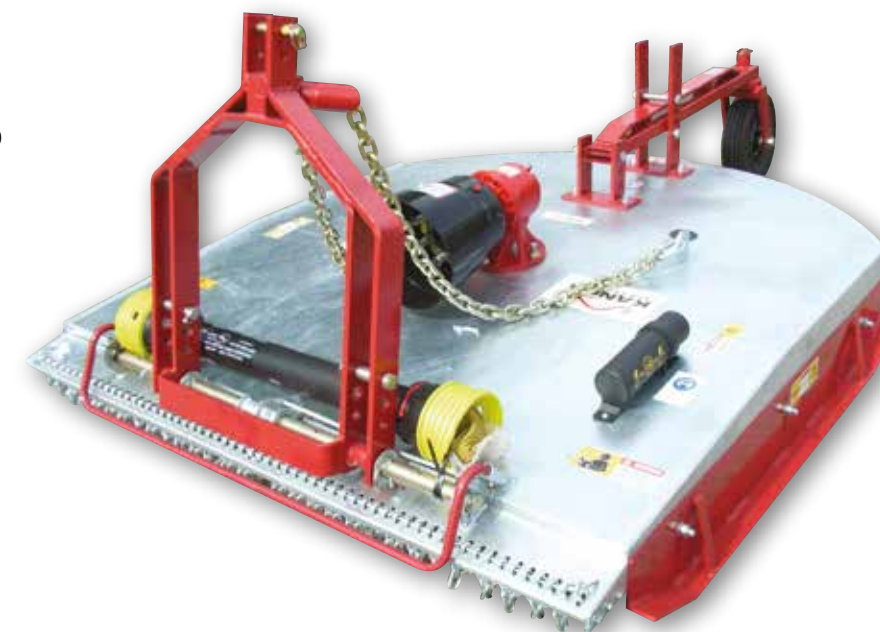
M Range Rotary Cutter

The KANGA M Range Rotary Cutters are a medium to heavy duty implement designed to clear, cut and maintain scrub and regrowth.

The safety chains have been incorporated in the fully reinforced, hot dipped galvanised deck for increased strength and safety.

The lowered, reinforced spring steel cutter bar allows a higher volume of material to be easily discharged without reducing the blade tip speed.

The KANGA M Range has been refined over the last thirty years, based on feedback from customers and dealers around Australia.



Code	KSMR150	KSMR180	KSMR210
Description	M1500 Rotary Cutter	M1800 Rotary Cutter	M2100 Rotary Cutter
Construction	4mm, round-back, 'clean top' deck with reinforced subframe		
Gearbox	75hp, 540rpm, 1:1.93 ratio		75hp, 540rpm, 1:1.46 ratio
PTO shaft/clutch	Series 6 with 200mm (8") friction (slip) clutch		
Skids	Adjustable, positive locking, four (4) positions (30mm increments)		
Cutter bar	Lowered, bolt together, high tensile/spring steel		
Blades	Stepped, suction, heat treated, spring steel pivoting on hardened bushes		
Linkage/Mounting	Double clevis, category 1 and 2		
Tower position(s)	Multiple - offset (left and right) and centre mounted		
Finish	Hot dipped galvanised deck and painted parts		
Stone guards	Front and rear chains (8mm) incorporated into the deck		
Overall width (mm)	1710	2010	2310
Cutting width (mm)	1500	1800	2100
Cutting height (mm)	50 - 140		
Tractor range (hp)	50 - 75	60 - 80	70 - 85
Blade tip speed (ft/min)	16,400	19,560	17,370
Weight (kg)	390	490	530

Options
KHRDW KANGA heavy duty depth wheel

Parts
100.134 KANGA stepped suction blades (pair)
100.135 KANGA 3/4" blade bolt kit
100.136 KANGA 7/8" blade bolt kit (suit cutters pre-2008)



H Range Rotary Cutter

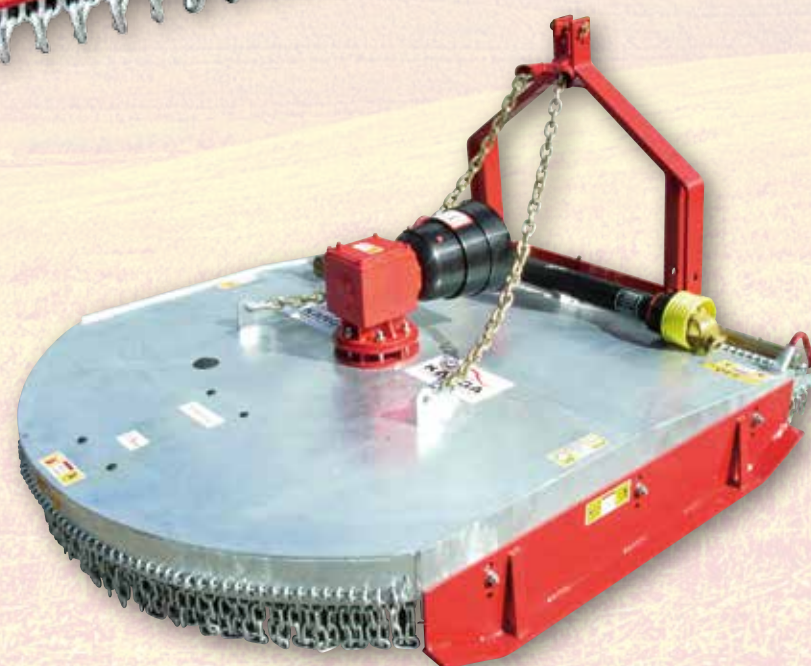
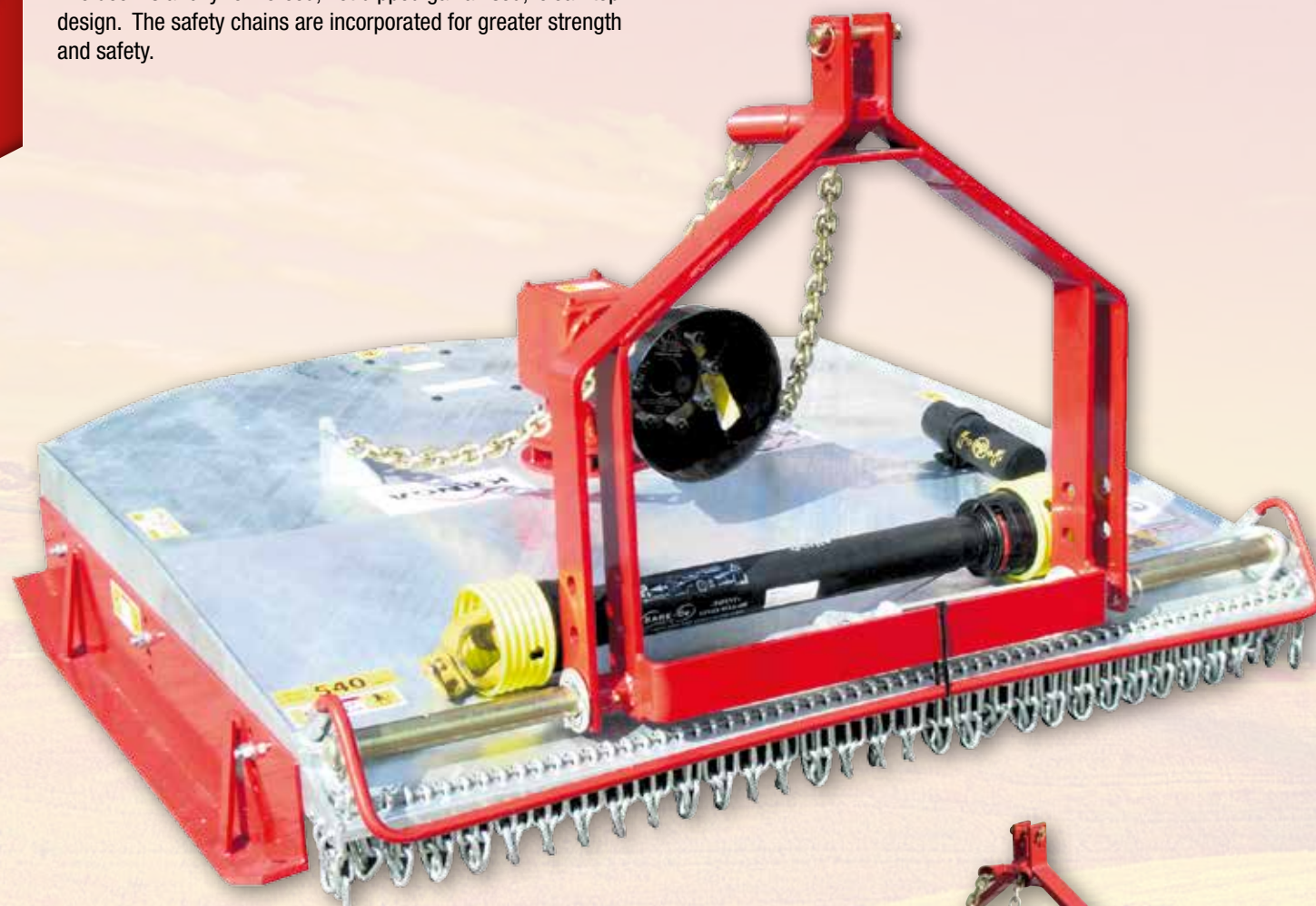
The KANGA H Range Rotary Cutters have been designed and engineered to handle the most demanding conditions in Australia.

The lowered, reinforced 130mm spring steel cutter bar is powered by a high ratio gearbox which allows a larger volume of material to be easily cut and discharged.

The deck is a fully reinforced, hot dipped galvanised, 'clean top' design. The safety chains are incorporated for greater strength and safety.

The advantage of the KANGA H Range is that it is a reliable, powerful, high performing cutter.

Recommended and sold by our dealers since 1983, the KANGA H Range is suitable for a diverse range of applications, from farmers clearing scrub and regrowth to contractors cutting roadsides and maintaining mining sites or government land.



Depth wheel



Disc rotor

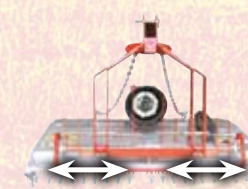
Code	KSHR180	KSHR210
Description	H1800 Rotary Cutter	H2100 Rotary Cutter
Construction	5mm, round-back, 'clean top' deck with reinforced subframe	
Gearbox	130hp, 540rpm, 1:1.92 ratio	130hp, 540rpm, 1:1.46 ratio
PTO shaft/clutch	Series 8 with 200mm (8") friction (slip) clutch	
Skids	Adjustable, positive locking, four (4) positions (30mm increments)	
Cutter bar	Lowered, bolt together, high tensile/spring steel	
Blades	Stepped, suction, heat treated, spring steel pivoting on hardened bushes	
Linkage/Mounting	Double clevis, category 2	
Tower position(s)	Multiple - offset (left and right) and centre mounted	
Finish	Hot dipped galvanised deck and painted parts	
Stone guards	Front and rear chains (10mm) incorporated into the deck	
Overall width (mm)	2040	2335
Cutting width (mm)	1800	2100
Cutting height (mm)	50 - 140	
Tractor range (hp)	80 - 120	90 - 130
Blade tip speed (ft/min)	19,560	17,370
Weight (kg)	610	705

Options

KHRDW	KANGA heavy duty depth wheel (each)
100.180	Three (3) blade disc rotor (suit H1800)
100.170	Three (3) blade disc rotor (suit H2100)
100.185	Upgrade H1800 cutter bar (full spring steel)
100.186	Upgrade H2100 cutter bar (full spring steel)
100.187	Upgrade PTO Shaft/Clutch (130hp/97kw W2600 series)

Parts

100.134	KANGA stepped suction blades (pair)
100.135	KANGA 3/4" blade bolt kit
100.136	KANGA 7/8" blade bolt kit (suit cutters pre-2008)
100.181	H1800 disc rotor blades (each)
100.182	H2100 disc rotor blades (each)
100.183	Disc rotor bolt kit (per blade)



Multi mount sliding tower



Blade bolt inspection cap



Blade exclusion zones



Waterproof manual holder



Countersunk blade bolts

3PL Twin Rotor Slasher – Light duty

The KANGA Light Duty Twin Rotor Slashers have been engineered to suit tractors up to 50hp.

Manufactured in Australia, three (3) high ratio gearboxes are coupled to two (2) lowered high tensile cutter bars. This, along with a compact deck design, allows us to produce an implement with a wider cutting width than would be possible for tractors of this horsepower range in a single rotor cutter.

With options that allow for cut material to be side discharged (left and right), this compact twin rotor cutter can also be used in vineyards and orchards.



Code	KMH50 - 135	KMH50 - 150	KMH50 - 180
Description	1.35m LD Twin Rotor Cutter	1.5m LD Twin Rotor Cutter	1.8m LD Twin Rotor Cutter
Construction	3mm, square, folded, 'clean top' deck with reinforced subframe		
Gearbox	50hp, 540rpm, high speed		
PTO shaft/clutch	Series 4 with 150mm (6") friction (slip) clutch		
Skids	Positive locking, four (4) positions, adjustable (50 - 140mm)		
Cutter bar	Lowered, bolt together, high tensile steel		
Blades	Heat treated, spring steel clockwise and anti-clockwise on hardened bushes		
Linkage/Mounting	Double clevis, category 1		
Tower position(s)	Centre mounted		
Finish	High build primer and equipment enamel top coat		
Stone guards	Front and rear chains (6mm) incorporated into the deck		
Wheels	400mm solid rubber, 360° turning		
Overall width (mm)	1470	1620	1920
Cutting width (mm)	1300	1450	1750
Cutting height (mm)	50 - 250 (max. 140 on the skids)		
Tractor range (hp)	30 - 50	35 - 50	40 - 50
Blade tip speed (ft/min)	11,240	12,460	14,730

Options

KMH50-RR Height adjustable rear roller (in lieu of wheels)
KMH50-TSD Convert implement to twin side discharge

Parts

100.411a KANGA Mini stepped blade (pair)
100.412 KANGA Mini 1/2" blade bolt kit

3PL Twin Rotor Slasher – Heavy duty

The KANGA Heavy Duty Twin Rotor Slashers are engineered and configured to suit tractors from 60 to 200hp. The hot dipped galvanised, folded and fully reinforced, compact deck design (shorter front to rear) allows us to produce an implement with a wide cut width and increased manoeuvrability.

Using a combination of gearboxes and couplings, we manufacture in Australia for Australian conditions, a machine capable of handling a range of material up to 50mm thick.

The lowered and reinforced spring steel cutter bars allow large volumes of material to be easily discharged without reducing the blade tip speed. This results in fast, clean, dependable mowing.

Standard with height adjustable rear wheels, Farm Implements offer options to customise this unit for vineyard and orchard operations.



Drive coupling



Optional rear roller

Code	KMH075 - 1.8	KMH075 - 2.1	KMH075 - 2.4	KMH130 - 3.0	KMH200 - 3.0
Description	1.8m HD Twin Rotor	2.1m HD Twin Rotor	2.4m HD Twin Rotor	3.0m (130hp) Twin Rotor	3.0m (200hp) Twin Rotor
Construction	6mm, square, folded, 'clean top' deck with structural channel chassis and 10mm side plates				
Gearbox	90hp, 540rpm			130hp, 540rpm	200hp, 1000rpm
PTO shaft/clutch	Series 8 with 200mm (8") friction (slip) clutch			W2600 Series with 200mm (8") friction (slip) clutch	
Skids	Adjustable, positive locking, four (4) positions (30mm increments)				
Cutter bar	Lowered, bolt together, high tensile steel				
Blades	Heat treated, spring steel clockwise and anti-clockwise on hardened bushes				
Linkage/Mounting	Double clevis, category 2 and 3				
Tower position(s)	Centre mounted				
Finish	Hot dipped galvanised deck and painted parts				
Stone guards	Front and rear chains (8mm) incorporated into the deck				
Wheels	400mm solid rubber, 360° turning				
Overall width (mm)	1960	2260	2560	3300	3300
Cutting width (mm)	1800	2100	2400	3000	3000
Cutting height (mm)	50 - 300 (max. 140 on the skids)				
Tractor range (hp)	50 - 90	55 - 90	60 - 90	80 - 130	80 - 200
Blade tip speed (ft/min)	15,120	16,730	19,620	16,560	15,710
Weight (kg)	610	660	710	1,350	1,350

Options

KMH-FR Front roller
KMH-TSD Convert implement to twin side discharge
KMH-RRM Single rear roller with manual adjustment (in lieu of depth wheels)
KMH-RRM Single rear roller with hyd. adjustment (in lieu of depth wheels)

Parts

220.086 KANGA left hand (anti-clockwise) blade (per blade)
220.087 KANGA right hand (clockwise) blade (per blade)
100.135 KANGA 3/4" blade bolt kit (for two (2) blades)

KANGA Heavy Duty Tri-Rotor Slashers have been designed for broadacre applications where customers, with tractors from 90 to 200hp, want to save time by cutting a wide area in one pass.

Using a combination of gearboxes and couplings, we produce in Australia for Australian conditions, a machine capable of clearing, maintaining and cutting a range of material up to 50mm thick.

The lowered/reinforced spring steel cutter bars allow large volumes of material to be easily discharged without reducing the blade tip speed. This results in fast, clean, dependable slashing.

The body of these slashers is formed and folded, then fully reinforced with structural channel. It is then hot dipped galvanised for longevity.

The design of the KANGA Heavy Duty Tri-Rotor Slasher is compact in that it is shorter front to rear, resulting in an implement with a wide cut width and increased manoeuvrability.

Standard with height adjustable rear wheels, Farm Implements offer options to customise this unit for orchard operations.



Drive coupling



Code	KTH130 - 3.6	KTH130 - 4.5	KTH130 - 5.4	KTH200 - 3.6	KTH200 - 4.5	KTH200 - 5.4
Description	3.6m (130hp) Tri-Rotor	4.5m (130hp) Tri-Rotor	5.4m (130hp) Tri-Rotor	3.6m (200hp) Tri-Rotor	4.5m (200hp) Tri-Rotor	5.4m (200hp) Tri-Rotor
Construction	6mm, square, folded, 'clean top' deck with structural channel chassis and 10mm side plates					
Gearbox	130hp, 540rpm			200hp, 1000rpm		
PTO shaft/clutch	W2600 Series with 200mm (8") friction (slip) clutch					
Skids	Adjustable, positive locking, four (4) positions (30mm increments)					
Cutter bar	Lowered, bolt together, 130mm spring steel					
Blades	Heat treated, spring steel clockwise and anti-clockwise on hardened bushes					
Linkage/Mounting	Double clevis, category 2 and 3					
Tower position(s)	Centre mounted					
Finish	Hot dipped galvanised deck and painted parts					
Stone guards	Front and rear chains (10mm) incorporated into the deck					
Wheels	Heavy duty (530mm x 150mm) solid rubber, 360° turning					
Overall width (mm)	3720	4620	5520	3720	4620	5520
Cutting width (mm)	3520	4420	5320	3520	4420	5320
Cutting height (mm)	50 - 300 (max. 140 on the skids)					
Tractor range (hp)	90 - 130	100 - 130	110 - 130	90 - 200	100 - 200	110 - 200
Blade tip speed (ft/min)	13,120	16,370	19,370	18,440	13,610	16,380

Options

KTHFLEX FLEX modification (for orchards with delving rows)

Parts

220.086 KANGA left hand (anti-clockwise) blade (per blade)
220.087 KANGA right hand (clockwise) blade (per blade)
100.135 KANGA 3/4" blade bolt kit (for two (2) blades)

3PL Pasture Topper

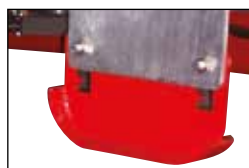
The KANGA 3-Point Linkage Pasture Toppers are designed, engineered and manufactured in Australia. This topper has a category 2 and 3 compatible rigid tower that suit tractors 60 to 200hp.

In situations where there is extensive grazing, stock deteriorates the condition of pasture. Continuing to feed stock on run down pasture results in a drop in condition and/or production. The best way to maintain the quality of pasture, reduce the spread of weeds and increase yields is by regularly topping pasture.

The KANGA 3PL Pasture Topper open back deck is fitted with a hydraulically opening rear flap that, when open, allows the lowered spring steel cutter bars (powered by high speed gearboxes) to evenly discharge the cut material over a wide area.



Drive coupling



Rear anti scalping skid

Code	KT090 - 2.4	KT130 - 3.0	KT200 - 3.0
Description	2.4m Pasture Topper (90hp)	3.0m Pasture Topper (130hp)	3.0m Pasture Topper (200hp)
Construction	6mm, square, folded, 'clean top' deck with structural channel chassis and 10mm side plates		
Gearbox	90hp, 540rpm	130hp, 540rpm	200hp, 1000rpm
PTO shaft/clutch	Series 8 with 200mm (8") friction (slip) clutch	W2600 Series with 200mm (8") friction (slip) clutch	
Skids	Adjustable, positive locking, four (4) positions (30mm increments)		
Cutter bar	Lowered, bolt together, 100mm spring steel	Lowered, bolt together, 130mm spring steel	
Blades	Heat treated, spring steel clockwise and anti-clockwise on hardened bushes		
Linkage/Mounting	Double clevis, category 2 and 3		
Tower position(s)	Centre mounted		
Finish	Hot dipped galvanised deck and painted parts		
Stone guards	Front chains (10mm) incorporated into the deck with hydraulic opening rear rubber guard		
Overall width (mm)	2540	3190	3190
Cutting width (mm)	2340	2890	2890
Cutting height (mm)	50 - 140		
Tractor range (hp)	60 - 90	80 - 130	80 - 200
Blade tip speed (ft/min)	19,620	16,560	15,710
Weight (kg)	690	1,350	1,350

Parts

220.086	KANGA left hand (anti-clockwise) blade (per blade)
220.087	KANGA right hand (clockwise) blade (per blade)
100.135	KANGA 3/4" blade bolt kit (for two (2) blades)

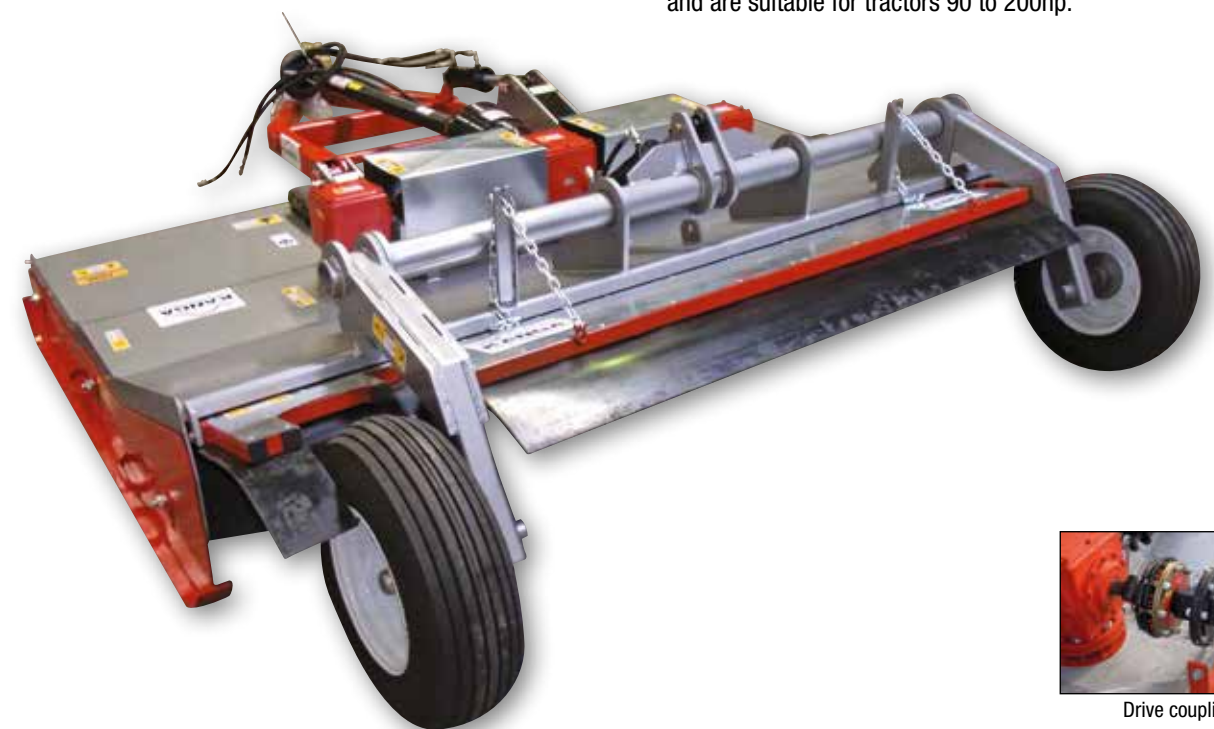
Trailing Pasture Topper

The KANGA Trailing Pasture Toppers are designed, engineered and manufactured in Australia.

The KANGA Trailing Pasture Topper comes standard with a folded, fully reinforced (with structural channel), open back deck. The deck is fitted with an opening rear flap that, when

open, allows the lowered spring steel cutter bars (powered by high speed gearboxes) to evenly discharge the cut material.

Designed specifically for fast, clean, dependable topping of grass, KANGA trailing toppers come with hydraulic height control (front and rear), a wide angle power take off (PTO) shaft and are suitable for tractors 90 to 200hp.



Drive coupling

Code	KTT130 - 3.0	KTT200 - 3.0	KTT200 - 3.6
Description	3.0m Trailing Topper (130hp)	3.0m Trailing Topper (200hp)	3.6m Trailing Topper (200hp)
Construction	6mm, square, folded, 'clean top' deck with structural channel chassis and 10mm side plates		
Gearbox	130hp, 540rpm	200hp, 1000rpm	
PTO shaft/clutch	W2600 Series with 200mm (8") friction (slip) clutch		
Skids	Adjustable, positive locking, four (4) positions (30mm increments)		
Cutter bar	Lowered, bolt together, 130mm spring steel		
Blades	Heat treated, spring steel clockwise and anti-clockwise on hardened bushes		
Linkage/Mounting	Tow hitch/drawbar with hydraulic height control		
Mounting position(s)	Centre mounted		
Finish	High build primer and equipment enamel top coat		
Stone guards	Front chains (8mm) incorporated into the deck with manual opening rear rubber guard		
Wheels	Hydraulic height adjustable, pneumatic (15-9.00) 'highway' implement tyres		
Overall width (mm)	3190	3190	3800
Cutting width (mm)	2890	2890	3500
Cutting height (mm)	50 - 300 (max. 140 on the skids)		
Tractor range (hp)	80 - 130	80 - 200	100 - 200
Blade tip speed (ft/min)	16,560	15,710	18,850
Weight (kg)	1,500	1,500	1,650

Parts

220.086	KANGA left hand (anti-clockwise) blade (per blade)
220.087	KANGA right hand (clockwise) blade (per blade)
100.135	KANGA 3/4" blade bolt kit (for two (2) blades)



FLAIL MULCHERS

COSMO BULLY Flail Mulchers are designed to mulch material into small particles and spread them evenly over the width of the implement. Unlike slashers, flail mulchers do not leave windrows of grass.

The benefits of mulching include:

- cut material acting as a barrier against weed growth
- cut material acting as an organic layer of compost
- heat and moisture created in the mulching action promoting new growth
- smaller particles, reducing the spread of weeds and disease.

Material cut with a flail mulcher decomposes faster, increasing pasture quality, resulting in higher yields/returns.

Cosmo Bully TSS Series Mulcher

The Italian manufactured COSMO Bully TSS Series Mulchers are a light duty flail mower designed for compact and sub-compact tractors, 15 to 30hp.

A free wheel clutch has been incorporated into the gearbox.

The gearbox produces a high rotor speed that results in a finer finish on large areas of lawn, parklands or smallholding farms.

Refer to page 19 for the benefits of using a flail mulcher.



Code	TTSS100	TTSS125
Description	Bully TSS1000 Mulcher	Bully TSS1250 Mulcher
Side transmission	Belt drive	
Belts	Two (2) BX type	
Gearbox	30hp, 540rpm with free wheel clutch	
PTO shaft/clutch	Series 2	
Skids	Fixed	
Rear roller	Ø 114mm, height adjustable	
Finish	Powder coated	
Rotor swing dia. (mm)	280	
Rotor diameter (mm)	60	
Rotor speed (rpm)	3000	
Type of blade	Hammer	
No. of hammers	20	26
Tower position/offset	Fixed offset (590mm/540mm)	Fixed offset (850mm/900mm)
Linkage	Category 1	
Guarding	CE compliant	
Overall width (mm)	1130	1400
Working width (mm)	1000	1250
Cutting height (mm)	25 - 60	
Tractor range (hp)	15 - 30	20 - 30
Weight (kg)	105	115

Parts
D5350114 Bully TSS Series hammer (each)

Cosmo Bully SFM-M Series Mulcher

The European designed COSMO Bully SFM-M Series Mulchers have a fixed, bolt on tower with three (3) mounting positions.

The rear of the deck has a series of height adjustable mulching rakes that hold large prunings (up to Ø 50mm) in the cutting chamber for maximum mulching. This results in a high quality cut finish in vineyards, orchards and pastures.

The COSMO Bully SFM-M Series Mulcher is specifically designed for tractors 30 to 70hp.

Refer to page 19 for the benefits of using a flail mulcher.



Code	TSFM130M	TSFM145M	TSFM160M
Description	Bully SFM130-M Mulcher	Bully SFM145-M Mulcher	Bully SFM160-M Mulcher
Side transmission	Belt drive		
Belts	Three (3) BX type	Four (4) BX type	
Gearbox	70hp, 540rpm with free wheel clutch		
PTO shaft/clutch	Series 4		
Skids	Adjustable, three (3) positions		
Rear roller	Ø 140mm, height adjustable		
Finish	Powder coated		
Rotor swing dia. (mm)	380		
Rotor diameter (mm)	160		
Rotor speed (rpm)	2083		
Type of blade	Hammer		
No. of hammers	16	18	20
Tower position/offset	Fixed/bolt on tower with three (3) mounting positions, 150mm apart		
Linkage	Category 1		
Guarding	CE compliant		
Overall width (mm)	1450	1620	1770
Working width (mm)	1300	1450	1600
Cutting height (mm)	20 - 105		
Tractor range (hp)	30 - 70	35 - 70	40 - 70
Weight (kg)	366	388	412

Parts
17295 Bully SFM Series hammer (each)
Optional
17228 Bully SFM Series Y blade (each)
17229 Bully SFM Series Y blade spacer (each)

Cosmo Bully SFM-H Series Mulcher

The European designed COSMO Bully SFM-H Series Mulchers come with a tower that hydraulically side shifts and a gearbox rating up to 70hp (max.).

The rear of the deck has a series of height adjustable mulching rakes that hold large prunings (up to Ø 50mm) in the cutting chamber for maximum mulching, which along with the high speed rotor and hammer blades produce a high quality cut finish in vineyards, orchards and pastures.

Refer to page 19 for the benefits of using a flail mulcher.



Code	TSFM160H	TSFM175H	TSFM205H	TSFM220H
Description	Bully SFM160-H Mulcher	Bully SFM175-H Mulcher	Bully SFM205-H Mulcher	Bully SFM220-H Mulcher
Side transmission	Belt drive			
Belts	Four (4) BX type			
Gearbox	70hp, 540rpm with free wheel clutch			
PTO shaft/clutch	Series 4	Series 6		
Skids	Adjustable, three (3) positions			
Rear roller	Ø 140mm, height adjustable			
Finish	Powder coated			
Rotor swing dia. (mm)	380			
Rotor diameter (mm)	160			
Rotor speed (rpm)	2083			
Type of blade	Hammer			
No. of hammers	20	22	26	28
Tower position/offset	Hydraulic side shift (300mm)			
Linkage	Category 1 and 2 (bushes for category 2)			
Guarding	CE compliant			
Overall width (mm)	1770	1920	2220	2370
Working width (mm)	1600	1750	2050	2200
Cutting height (mm)	20 - 105			
Tractor range (hp)	40 - 70	50 - 70	55 - 70	60 - 70
Weight (kg)	420	440	485	510

- Parts
- 17295 Bully SFM Series hammer (each)
- Optional
- 17228 Bully SFM Series Y blade (each)
- 17229 Bully SFM Series Y blade spacer (each)

Cosmo Bully BPF Series Mulcher

The European designed COSMO Bully BPF Series Mulchers are designed for tractors 60 to 100hp and have a tower that hydraulically side shifts.

Like other COSMO Bully Mulchers, a series of height adjustable mulching rakes hold larger prunings (up to Ø 70mm) in the cutting chamber for mulching in vineyards and orchards.

Additionally, the rear of the COSMO Bully BPF Series Mulcher deck can be opened to top pasture or when the operator needs to clear the chamber. This function is beneficial when cutting high volumes of material allowing it to be discharged efficiently, without sacrificing speed.

Complete with a double skinned deck, side shift, a height adjustable rear roller and hammer blades, this mulcher will produce a high quality finish.



Code	TBPF180H	TBPF200H	TBPF225H	TBPF250H
Description	Bully BPF180 Mulcher	Bully BPF200 Mulcher	Bully BPF225 Mulcher	Bully BPF250 Mulcher
Side transmission	Belt drive			
Belts	Four (4) XPB type			Five (5) XPB type
Gearbox	100hp, 540rpm with free wheel clutch			
PTO shaft/clutch	Series 6			
Skids	Adjustable, two (2) positions			
Rear roller	Ø 165mm, height adjustable			
Finish	Powder coated			
Rotor swing dia. (mm)	410			
Rotor diameter (mm)	170			
Rotor speed (rpm)	2146			
Type of blade	Hammer			
No. of hammers	16	20	20	24
Tower position/offset	Hyd. side shift (337mm)	Hyd. side shift (437mm)	Hyd. side shift (467mm)	
Linkage	Category 2			
Guarding	CE compliant			
Overall width (mm)	2000	2200	2450	2700
Working width (mm)	1780	1980	2230	2480
Cutting height (mm)	20 - 75			
Tractor range (hp)	60 - 100	70 - 100	80 - 100	85 - 100
Weight (kg)	680	735	800	865

- Parts
- 17067 Bully BPF Series hammer (each)



ROTARY HOES

Cosmo Bully UL Series Rotary Hoe

The European designed, COSMO Bully UL Series Rotary Hoes are gear driven implements for compact and sub-compact tractors up to 40hp (max.).

Engineered to till soil in nurseries, vineyards, orchards and hobby farms, they are ideal for owner operators.

The rotor features six (6) C shaped, heat treated blades (per flange) in a speed configuration.

The speed configuration, a design where the blades are slightly staggered from flange to flange, reduces the horsepower required to produce a fine finish in a variety of soil conditions.



Code	TBUL36	TBUL48	TBUL60
Description	Bully UL36 Rotary Hoe		
Side transmission	Gear drive		
Gearbox	40hp, 540rpm, single speed		
PTO shaft/clutch	Series 4 with 150mm (6") friction (slip) clutch		
Skids	Height adjustable		
Finish	Powder coated		
Rotor diameter (mm)	375		
Rotor speed (rpm)	245		
No. of rotor flanges	4	6	7
No. of blades p/flange	6	6	6
Total no. of blades	24	36	42
Blades	Curved/speed		
Linkage	Category 1 (quick hitch compatible)		
Guarding	Standard with CE guards		
Overall width (mm)	1035	1340	1645
Working width (mm)	915	1220	1525
Working depth (mm)	165		
Tractor range (hp)	15 - 28	20 - 35	30 - 40
Weight (kg)	153	180	200

- Parts
- 14040 UL curved/speed blade (right)
 - 14141 UL curved/speed blade (left)
 - 14124 UL square/L shaped blade (right)
 - 14125 UL square/L shaped blade (left)

Cosmo Bully UM Series Rotary Hoe

The European designed COSMO Bully UM Series Rotary Hoes are a single speed, side gear driven implement specifically for tractors in the 35 to 50hp range.

Engineered to include multiple features and accessories traditionally found in much larger rotary hoes, the UM Series is suitable for use in nurseries, vineyards and orchards.

The rotor features six (6) C shaped, heat treated blades (per flange) in a speed configuration.

The speed configuration, a design where the blades are slightly staggered from flange to flange, reduces the horsepower required to produce a fine finish in a variety of soil conditions.



Code	TBUM60	TBUM72
Description	Bully UM60 Rotary Hoe	
Side transmission	Gear drive	
Gearbox	50hp, 540rpm, single speed	
PTO shaft/clutch	Series 4 with 150mm (6") friction (slip) clutch	
Skids	Height adjustable	
Finish	Powder coated	
Rotor diameter (mm)	434	
Rotor speed (rpm)	241	
No. of rotor flanges	8	9
No. of blades p/flange	6	6
Total no. of blades	48	54
Blades	Curved/speed	
Linkage	Category 1 (quick hitch compatible)	
Guarding	Standard with CE guards	
Overall width (mm)	1775	1970
Working width (mm)	1650	1830
Working depth (mm)	180	
Tractor range (hp)	30 - 50	35 - 50
Weight (kg)	285	310

- Parts
- 4724 UM curved/speed blade (right)
 - 4723 UM curved/speed blade (left)
 - 4722 UM square/L shaped blade (right)
 - 4721 UM square/L shaped blade (left)

Cosmo Bully UH Series Rotary Hoe

The European designed COSMO Bully UH Series Rotary Hoes are single speed, gear driven implements specifically for tractors 50 to 75hp.

Engineered to include many features and accessories traditionally found in much larger rotary hoes, the COSMO Bully UH Series is suitable for a range of horticultural and gardening applications including nurseries, vineyards and orchards.

The rotor, with a diameter of 480mm blade to blade, features six (6) C shaped, heat treated blades (per flange) in a speed configuration.

This design, where the blades are slightly staggered from flange to flange, reduces the tractor horsepower required to till a high volume of soil in a wide range of soil types and conditions.



Code	TBUH60	TBUH72	TBUH84
Description	Bully UH60 Rotary Hoe		
Side transmission	Gear drive		
Gearbox	75hp, 540rpm, single speed		
PTO shaft/clutch	Series 6 with 200mm (8") friction (slip) clutch		
Skids	Height adjustable		
Finish	Powder coated		
Rotor diameter (mm)	480		
Rotor speed (rpm)	241		
No. of rotor flanges	7	8	9
No. of blades p/flange	6	6	6
Total no. of blades	42	48	54
Blades	Curved/speed		
Linkage	Category 1 and 2		
Guarding	Standard with CE guards		
Overall width (mm)	1834	2063	2292
Working width (mm)	1680	1910	2140
Working depth (mm)	190		
Tractor range (hp)	50 - 75	55 - 75	60 - 75
Weight (kg)	390	420	450

- Parts
- 3127 UH curved/speed blade (right)
 - 3126 UH curved/speed blade (left)
 - 1372 UH square/L shaped blade (right)
 - 1373 UH square/L shaped blade (left)

Cosmo Bully VH Series Rotary Hoe

The European designed COSMO Bully VH Series Rotary Hoes have a multi speed gearbox that is rated 50 to 90hp.

The main frame is a robust and rigid construction with box section reinforcing and the side gears are sealed via a gasket creating an oil bath.

The COSMO Bully VH Series produces a super fine finish. The spring loaded tailgate keeps soil inside and in contact with the blades until it is well pulverised.

The multi speed gearbox allows the operator to customise the rotor speed. The rotor design, Ø 521mm from blade to blade, allows a large amount of soil to be worked without clogging up the chamber.

The speed blade configuration, a design where six (6) L shaped blades (per flange) are slightly staggered, reduces the tractor horsepower required.



The COSMO Bully VH Series can operate all day, every day, in demanding soil conditions and is suitable for a range of commercial horticultural and gardening applications including nurseries, vineyards and orchards.

Code	TBVH60	TBVH70	TBVH80
Description	Bully VH60 Rotary Hoe		
Side transmission	Gear drive		
Gearbox	90hp, 540rpm, multi speed (1000rpm option)		
PTO shaft/clutch	Series 6 with 200mm (8") friction (slip) clutch		
Skids	Height adjustable		
Finish	Powder coated		
Rotor diameter (mm)	521		
Rotor speed (rpm)	191 - 240 at 540rpm 248 at 1000rpm		
No. of rotor flanges	6	7	8
No. of blades p/flange	6	6	6
Total no. of blades	36	42	48
Blades	Square/L shaped standard Curved/speed on request		
Linkage	Category 2		
Guarding	Standard with CE guards		
Overall width (mm)	1705	1945	2185
Working width (mm)	1540	1780	2020
Working depth (mm)	225		
Tractor range (hp)	50 - 90	60 - 90	70 - 90
Weight (kg)	580	620	665

- Parts
- 3029 VH/UHH square/L shaped blade (right)
 - 1374 VH/UHH square/L shaped blade (left)
 - 23160 VH/UHH curved/speed blade (right)
 - 23159 VH/UHH curved/speed blade (left)

Cosmo Bully UHH Series Rotary Hoe

The European designed COSMO Bully UHH Series Rotary Hoes are ideal for large scale domestic and commercial operations and working virgin ground. The multi speed gearbox (rated up to 140hp) is fixed to a robust and rigid main frame, constructed with box section reinforcing, so the implement can operate for prolonged periods of time in a range of soil types and conditions. The COSMO Bully UHH Series produces a super fine finish. The spring loaded tailgate keeps soil inside and in contact with the blades until it is well pulverised. The multi speed gearbox allows

the operator to customise the rotor speed. The rotor design, Ø 530mm from blade to blade, allows a large amount of soil to be worked without clogging up the chamber. And the speed blade configuration, a design where six (6) L shaped blades (per flange) are slightly staggered, reduces the tractor horsepower required. The COSMO Bully UHH Series is suitable for a range of domestic and commercial horticultural and gardening applications including nurseries, vineyards and orchards.



Code	TBUHH080	TBUHH100	TBUHH120
Description	Bully UHH80 Rotary Hoe	Bully UHH100 Rotary Hoe	Bully UHH120 Rotary Hoe
Side transmission	Gear drive		
Gearbox	140hp, 540/1000rpm, multi speed		
PTO shaft/clutch	W2600 Series with 200mm (8") friction (slip) clutch		
Skids	Height adjustable		
Finish	Powder coated		
Rotor diameter (mm)	530		
Rotor speed (rpm)	224 - 248 at 540rpm 251 - 278 at 1000rpm		
No. of rotor flanges	8	10	12
No. of blades p/flange	6	6	6
Total no. of blades	48	60	72
Blades	Square/L shaped standard Curved/speed on request		
Linkage	Category 2 and 3 (quick hitch compatible)		
Guarding	Standard with CE guards		
Overall width (mm)	2300	2800	3300
Working width (mm)	2100	2550	3050
Working depth (mm)	250		
Tractor range (hp)	60 - 140	90 - 140	110 - 140
Weight (kg)	934	1061	1170

Options
TBUHH080-CR 450mm cage roller with manual adjustment (suit UHH80)
TBUHH100-CR 450mm cage roller with manual adjustment (suit UHH100)
TBUHH120-CR 450mm cage roller with manual adjustment (suit UHH120)

Parts
3029 VH/UHH square/L shaped blade (right)
1374 VH/UHH square/L shaped blade (left)
23160 VH/UHH curved/speed blade (right)
23159 VH/UHH curved/speed blade (left)



POWER HARROWS

Cosmo Bully SRP Series Power Harrow

The COSMO Bully SRP Series Power Harrows are an economical implement suitable for soil and seed bed preparation on small to medium sized landholdings.

These compact machines are available in working widths from 1.5m to 2.0m and have many of the features of high end models; 120hp rated (540/1000rpm) multi speed gearbox, rear levelling bar and floating side plates.

Cage or packer rollers are also available as an optional extra.

The blade design and rotating action reduces the horsepower requirements of the tractor and results in the ground being worked in fewer passes, even when working at the maximum depth (260mm). This means less soil compaction from the tractor and reduced fuel consumption.



Code	TSRP150	TSRP175	TSRP200
Description	Bully SRP150 Power Harrow	Bully SRP175 Power Harrow	Bully SRP200 Power Harrow
Gearbox	120hp, 540/1000rpm, multi speed		
PTO shaft/clutch	Series 6 with 200mm (8") friction (slip) clutch		
Rear levelling bar	Manual, mechanical, adjustment		
Side plates	8mm, floating		
Finish	Powder coated		
No. of rotors	6	7	8
Total no. of blades	12	14	16
Blades	285x12mm		
Linkage	Category 2		
Guarding	Standard with CE guards		
Overall width (mm)	1610	1860	2100
Working width (mm)	1500	1750	2000
Working depth (mm)	260		
Tractor range (hp)	50 - 90	60 - 90	70 - 90
Weight (kg)	545	590	640

Options			
Code	TSRP150CR	TSRP175CR	TSRP200CR
Description	Bully SRP150 Cage Roller	Bully SRP175 Cage Roller	Bully SRP200 Cage Roller
Design	Ø385mm, eight (8) bar, mechanical adjustment		
Weight (kg)	76	84	92
Code	TSRP150PR	TSRP175PR	TSRP200PR
Description	Bully SRP150 Packer Roller	Bully SRP175 Packer Roller	Bully SRP200 Packer Roller
Design	Ø420mm with teeth (65mm), scrapers, mechanical adjustment		
Weight (kg)	158	177	196

- Parts
- 7132 SRP blade (right)
 - 7133 SRP blade (left)

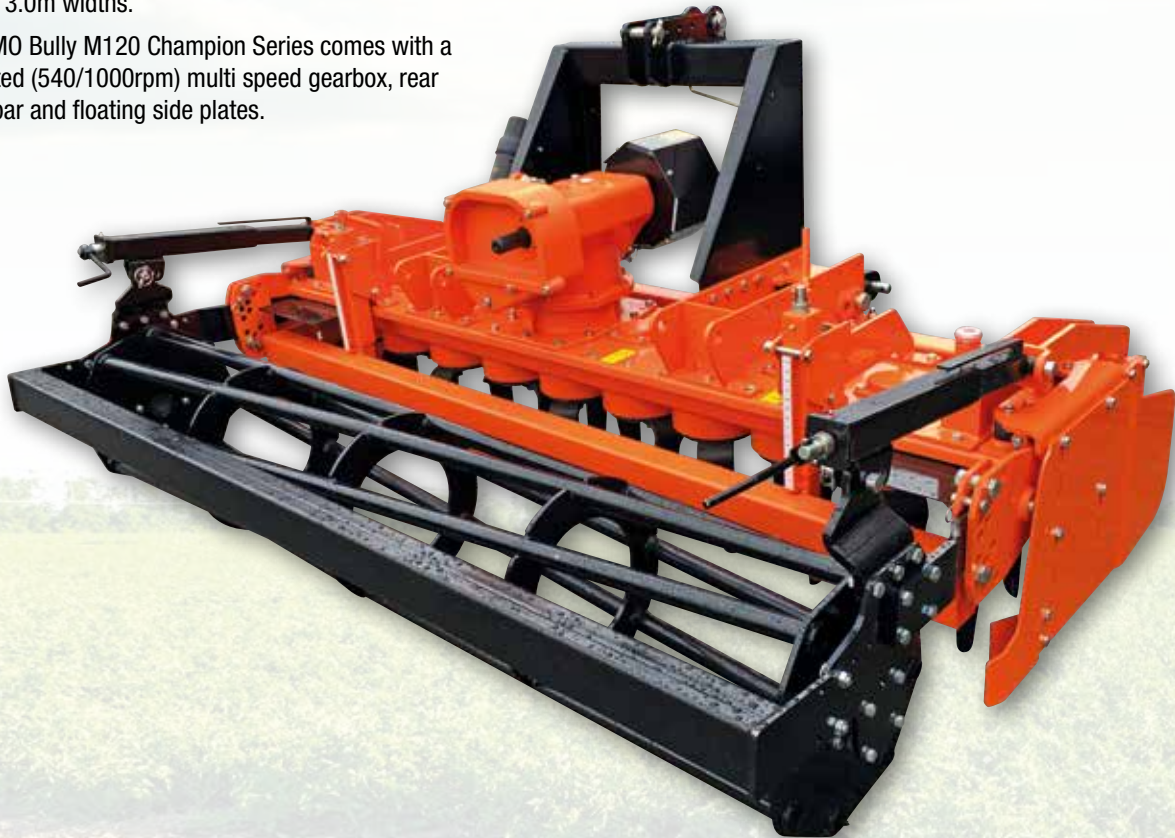
Cosmo Bully M120 Series Power Harrow

The COSMO Bully M120 Champion Series Power Harrows have been designed and engineered in Europe and are a serious machine for professional operators.

They are robust, with a two piece rigid frame, available in 2.5m and 3.0m widths.

The COSMO Bully M120 Champion Series comes with a 160hp rated (540/1000rpm) multi speed gearbox, rear levelling bar and floating side plates.

The blade design and action results in soil being finely worked to the maximum depth (280mm) in fewer passes, minimising ground compaction, reducing fuel consumption and placing less load and demands on the tractor.



Options include rear cage or packer rollers (packer rollers shown in photo above) and a quick fit blade system.



Code	TM120/160-250	TM120/160-300
Description	Bully M120-250 Champion Series Power Harrow	Bully M120-300 Champion Series Power Harrow
Gearbox	160hp, 540/1000rpm, multi speed	
PTO shaft/clutch	Series W2600 with 200mm (8") friction (slip) clutch	
Rear levelling bar	Manual, mechanical, adjustment	
Side plates	8mm, floating and/or height adjustable	
Finish	Powder coated	
Total no. of blades	20	24
No. of rotors	10	12
Rotor speeds	343 - 376 at 540rpm 334 - 369 at 1000rpm	
Blades	285x12mm	
Linkage	Category 2 and 3	
Guarding	Standard with CE guards	
Overall width (mm)	2600	3100
Working width (mm)	2500	3000
Working depth (mm)	280	
Tractor range (hp)	100 - 140	120 - 140
Weight (kg)	850	950

Options		
Code	TM120/160-250CR	TM120/160-300CR
Description	Bully M120-250 Cage Roller	Bully M120-300 Cage Roller
Design	Ø450mm, eight (8) bar, mechanical adjustment	
Weight (kg)	145	166
Code	TM120/160-250PR	TM120/160-300PR
Description	Bully M120-250 Packer Roller	Bully M120-300 Packer Roller
Design	Ø500mm with teeth (80mm), scrapers, mechanical adjustment	
Weight (kg)	305	360

Parts	
6533	M120 Power Harrow blade (right)
6532	M120 Power Harrow blade (left)
6659	M120 Power Harrow quick fit blade (right)
6658	M120 Power Harrow quick fit blade (left)



FERTILISER SPREADERS

Since 2007 all metal components manufactured by COSMO in Italy have been painted in a state of the art automated finishing system, to the highest international standards.

The system begins with a 5 stage pre-treatment which includes cleaning/degreasing and submersion in phosphate undercoat.

After pre-treatment components move through the painting process on a conveyor system. Robotically sprayed with paint, they pass through multiple curing ovens before the top coat has a final cure for 40 minutes at 150 degrees.

This process results in a high quality finish that will last for many years and has an independently certified salt fog test rating of over 400 hours.

Fertiliser spreaders

COSMO P Series Fertiliser Spreader

The COSMO P Series Fertiliser Spreaders offer a simple, effective and economical solution to spreading a range of fertiliser (pilled, granular or powdered) and seed between 6 and 14m.

Made in the COSMO factory in Italy, the metal hopper is spun from a single sheet of steel. This manufacturing technique creates a strong hopper without seam or join welds.

The smooth interior finish of the hopper ensures fertiliser slides down the hopper evenly to the exits.

The twin lateral (side) exits provide the operator with left, right or full coverage spreading and also ensures uniformed spreading as the material drops straight onto the Stainless Steel six (6) vane spinner disc.

Refer to page 39 for details of COSMO's state of the art, automated painting system.



Code	CP300	CP500
Description	P300 Metal Hopper Spinner Spreader	P500 Metal Hopper Spinner Spreader
Capacity (lt/kg)	320 / 318	450 / 449
Spreading width (m)	8 - 14	
Dimensions		
Width (mm)	1050	1110
Depth (mm)	1050	1110
Height (mm)	1090	1170
Tractor range (hp)	20+	35+
Weight (kg)	58	63

- Options
- 619.012 P/PL Lime agitator
 - 620.102 P/PL single side distributor
 - 620.106 P/PL twin side distributor
 - 902.002 Hopper cover (P/PL300)
 - 902.003 Hopper cover (P/PL400/500)
 - 619.010 P/PL hydraulic opening system



COSMO PL Series Fertiliser Spreader

The COSMO PL Series Fertiliser Spreaders offer a simple and effective solution to spreading a range of fertilisers (pilled, granular or powdered) and seed between 6 and 14m.

The heavy duty PVC hopper is UV stabilised, will not rust, is less likely to suffer from dints and scratches and is durable.

The smooth interior finish of the hopper ensures fertiliser slides down the hopper evenly to the exits.

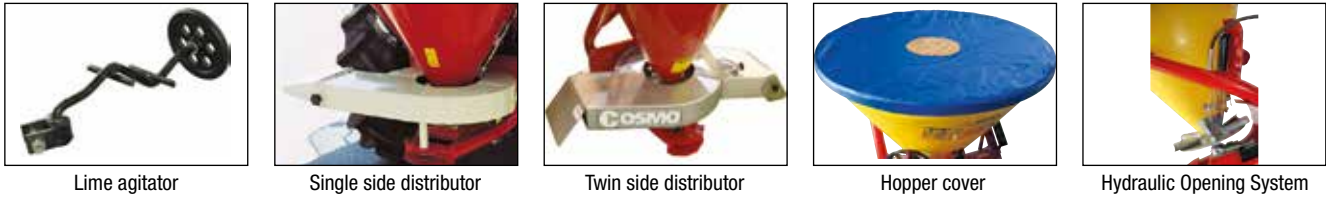
The twin lateral (side) exits provide the operator with left, right or full coverage spreading and also ensures uniformed spreading as the material drops straight onto the Stainless Steel six (6) vane spinner disc.

Refer to page 39 for details of COSMO's state of the art, automated painting system.



Code	CPL400	CPL500
Description	PL400 PVC Hopper Spinner Spreader	PL500 PVC Hopper Spinner Spreader
Capacity (lt/kg)	350 / 349	450 / 449
Spreading width (m)	8 - 14	
Dimensions		
Width (mm)	1080	1110
Depth (mm)	1080	1110
Height (mm)	1120	1170
Tractor range (hp)	30+	35+
Weight (kg)	60	63

- Options
- 619.012 P/PL Lime agitator
 - 620.102 P/PL single side distributor
 - 620.106 P/PL twin side distributor
 - 902.003 Hopper cover (P/PL400/500)
 - 619.010 P/PL hydraulic opening system



Fertiliser spreaders

COSMO PTP-PL Series Fertiliser Spreader

The COSMO PTP-PL Series Fertiliser Spreaders offer a simple and effective solution to spreading a range of fertiliser (pilled, granular or powdered) and seed (between 6 and 14m) without the need of a PTO.

The heavy duty PVC hopper is UV stabilised, will not rust, is less likely to suffer from dints and scratches and is durable.

The COSMO PTP-PL Series comes with a tow hitch allowing it to be connected to a range of machines (ATV, RTV, tractor and car).

The twin lateral (side) exits provide the operator with left, right or full coverage spreading and also ensures uniformed spreading as the material drops straight onto the Stainless Steel six (6) vane spinner disc.

Refer to page 39 for details of COSMO's state of the art, automated painting system.



Code	CPTP-PL180	CPTP-PL300
Description	180ltr Tow Type Spinner Spreader	300ltr Tow Type Spinner Spreader
Capacity (lt/kg)	180 / 200	300 / 320
Spreading width (m)	12 - 14	
Dimensions		
Width (mm)	1050	1050
Depth (mm)	1500	1500
Height (mm)	1250	1390
Weight (kg)	80	84

- Options
- 619.012 P/PL Lime agitator
 - 620.102 P/PL single side distributor
 - 620.106 P/PL twin side distributor
 - 902.001 Hopper cover (P/PL180)
 - 902.002 Hopper cover (P/PL300)



Lime agitator



Single side distributor



Twin side distributor



Hopper cover

COSMO PTB Series Fertiliser Spreader

The COSMO PTB Series Fertiliser Spreaders are a wide wheel based tow-type spreader with a squat hopper that makes loading easy. It has been designed to spread a range of fertiliser (pilled, granular or powdered) and seed (between 6 and 16m) without the need of a PTO.

The spinner disc is powered by the large floatation tyres while the gearbox has been designed so the operator can disconnect the disc (stop it spinning) when they are in transit and not spreading.

The COSMO PTB Series has been developed with twin exits that allow the operator to customise the spread pattern (left, right or full coverage). It comes with a 50mm tow hitch allowing it to be connected to a range of machines (ATV, RTV, tractor and/or car).

The PTB Series hopper and frame is manufactured and painted in the COSMO factory, in Italy.

Refer to page 39 for details.



Code	CPTB-430	CPTB-560
Description	430ltr Tow Type Spinner Spreader	560ltr Tow Type Spinner Spreader
Capacity (lt/kg)	405 / 400	485 / 480
Spreading width (m)	12 - 16	
Dimensions		
Width (mm)	1900	1900
Depth (mm)	2100	2100
Height (mm)	1200	1400
Weight (kg)	136	140

- Options
- 902.004 Hopper cover (PTB560)
 - 902.005 Hopper cover (PTB430)

Fertiliser spreaders

COSMO RE Series Fertiliser Spreader

The COSMO RE Series Fertiliser Spreader is a double disc spinner spreader capable of spreading a range of fertiliser (pilled or granular) over a width of up to 18m. It is a light weight compact spreader that can be used in vineyards, orchards, and on pasture.

The metal hopper has twin openings that are hydraulically controlled, and the operator can manually preset the machine to spread on one side (left or right) or full coverage (both left and right).

The rear shield and spinner discs are made from Stainless Steel.

The COSMO RE Series is available with an optional twin side discharge attachment. This attachment limits the discharge of material into bands directly on or under the plants, and is very popular with growers looking to spread material accurately onto plants and reduce their operating and material costs.

Refer to page 39 for details of COSMO's state of the art, automated painting system.



Code	CRE125
Description	18m Twin Disc Spinner Spreader
Capacity (lt/kg)	1170 / 1169
Spreading width (m)	12 - 18
Dimensions	
Width (mm)	1500
Depth (mm)	1350
Height (mm)	1200
Tractor range (hp)	45+
Weight (kg)	198

- Options
- 620.159 RE agitator (urea)
 - 620.121 RE twin side distributor
 - 902.024 Hopper cover (RE1250)

COSMO RX Series Fertiliser Spreader

The COSMO RX Series are a professional spreader, with a large hopper capacity, designed to spread a range of fertiliser (pilled, granular or powder) over a wide width (up to 24m).

The COSMO RX Series has been developed through extensive, independently verified, field testing. It provides the operator with a very accurate and uniform spread due to the slow rotating agitators (that minimises powdering and damage to fertiliser) and the adjustable vanes on the Stainless Steel spinner discs.

The capacity of the rectangular metal hopper (1100ltr) can be increased with the addition of extensions, resulting in two larger models; a 1600ltr (RX1600) and a 1900ltr (RX1900).

The RX has been designed with twin openings that are hydraulically controlled while manual levers allow the operator to preset the discharge rate and spreads pattern; one side (left or right) or full coverage (both left and right). These manual settings are more economical and reliable compared to electronic options.

The COSMO RX Series is Italian made, and careful consideration has been given to all components. The metal hopper, frame and gearbox drive system are all manufactured in house, parts that come in contact with fertiliser are made from Stainless Steel and there is an internal grid (in the hopper) preventing large lumps from blocking exits which could compromise the spreading pattern.



Code	CRX1100	CRX1600	CRX1900
Description	1100lt, 24m, Twin Disc Spreader	1600lt, 24m, Twin Disc Spreader	1900lt, 24m, Twin Disc Spreader
Capacity (lt/kg)	1000 / 1000	1625 / 1620	1925 / 1923
Spreading width (m)	12 - 24		
Dimensions			
Width (mm)	2300	2300	2300
Depth (mm)	1300	1300	1300
Height (mm)	1050	1300	1400
Tractor range (hp)	65+		
Weight (kg)	310	325	350

- Options
- 902.006 RX professional cover
 - 902.008 Hopper cover (RX1100)
 - 902.009 Hopper cover (RX1600)
 - 902.010 Hopper cover (RX1900)



Optional professional hopper cover

Cosmo Pendulum Fertiliser Spreader

The COSMO Pendulum Fertiliser Spreaders are ideal for spreading fertiliser (pilled, granular or powder), seed or other granular products on golf courses, sports fields and grounds, as well as in many horticulture and municipal applications.

The variable settings in the gearbox, along with a variety of optional spouts, allows the operator maximum accuracy with the spread pattern (full coverage, single side coverage or band spreading) and spread width (between 1 and 16m*). This, along with the oscillating nature of the gearbox (minimises wind influence when operating) reduces operating and material costs.

Unlike single disc spreaders that can be inconsistent in the amount of fertiliser they discharge, the COSMO Pendulum Spreaders come with a slide ruler and dosing rod. This allows the operator to calibrate the amount and type of fertiliser with the operating speed of the tractor. By calibrating the implement the operator can be assured that a predetermined amount of material (kg) will be discharged per acre.

Refer to page 39 for details of COSMO's state of the art, automated painting system.

Code	CPDV50	CPDV60
Description	500ltr Pendulum Spreader	600ltr Pendulum Spreader
Capacity (lt/kg)	500 / 495	600 / 595
Spreading width (m)	1 - 16*	
Dimensions		
Width (mm)	1380	1380
Depth (mm)	1060	1060
Height (mm)	900	1000
Tractor range (hp)	40+	
Weight (kg)	130	142

Code	CPDHV080	CPDHV100	CPDHV125
Description	800ltr Pendulum Spreader	1000ltr Pendulum Spreader	1250ltr Pendulum Spreader
Capacity (lt/kg)	850 / 800	1050 / 1000	1250 / 1200
Spreading width (m)	1 - 16*		
Dimensions			
Width (mm)	1860	1860	1860
Depth (mm)	1300	1300	1300
Height (mm)	970	1070	1200
Tractor range (hp)	60+		
Weight (kg)	170	180	195

* Implement supplied with a 8-16m full coverage spout. Spreading under 10m, requires one of the optional spouts.

- Options

619.041 PDV/PDHV Lime agitator

619.029 Hydraulic opening system (PDV)

619.030 Hydraulic opening system (PDHV)

902.011 Hopper cover (PDV500)

902.013 Hopper cover (PDV600)

902.012 Hopper cover (PDHV800)

902.014 Hopper cover (PDHV1000)

902.015 Hopper cover (PDHV1250)
- 304.102 Spout, Stainless Steel, 1-2m banding

304.103 Spout, Stainless Steel, 2-4m full coverage

304.104 Spout, Stainless Steel, 5-6m full coverage

304.105 Spout, Plastic, 3-10m banding

304.107 Spout, Stainless Steel, 5-6m full coverage, single side (right)



Crown lime agitator



Optional hydraulic opening system



Hopper cover



Standard opening adjustment



Adjustable spreading width

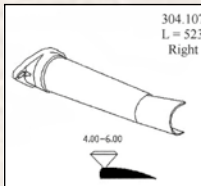
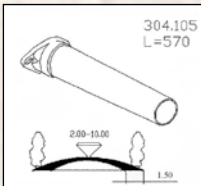
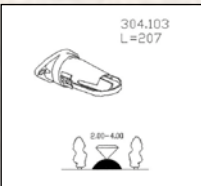
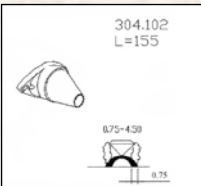
PDV Series Fertiliser Spreader

The compact square design of the fiberglass hopper (500ltr) make the COSMO PDV Series ideal for working in small areas. The hopper can be extended by 100ltrs (PDV600), should the operator require a slightly larger capacity, while keeping the same compact design.



PDHV Series Fertiliser Spreader

The COSMO PDHV Series has a heavy duty tubular frame supporting a large rectangular shaped fiberglass hopper (800ltr). This hopper can be extended by 200ltrs (PDHV1000) or 450ltrs (PDHV1250) for commercial operators wanting to spread large volumes of material.





GRADER BLADES

Box Scraper

KANGA Box Scrapers are ideal for feedlots, arenas, dirt tracks and general scraping and cleaning.

The box design holds a larger volume of material compared to traditional grader blades, providing the operator with greater control.

To handle the extra material and subsequent loads, the box frame has two (2) welded supports extending from the front to rear of the bucket and welded gussets between the side panels and blade section.



Code	K120BS	K180BS	K240BS
Description	1.2m Box Scraper	1.8m Box Scraper	2.4m Box Scraper
Construction	Fully welded, rigid (braced and gusseted), boxed tool bar		
Mouldboard	430x4mm	430x5mm	430x8mm
Cutting Edge	150x12mm, high tensile, reversible. 1 x front facing and 1 x rear facing.		
Linkage/Mounting	Double clevis, category 1		
Finish	Powder coated		
No. of tines	4	6	8
Overall width (mm)	1230	1830	2440
Tractor range (hp)	15 - 30	25 - 40	35 - 50
Weight (kg)	150	205	290

Mini Range Grader Blade

The KANGA Mini Range Grader Blade has been engineered for compact and sub-compact tractors up to 30hp.

The design allows for a range of operations including creating and maintaining small tracks and firebreaks on smallholding farms.

The mouldboard has been rolled to keep material flowing, while the heat treated cutting edge is reversible. With simple manual adjustments the operator can move material side to side, offset the blade to grade in hard to reach areas and tilt the blade (up to 100mm over the width of the blade) to grade a camber into a slope or on a road (to aid water runoff).



Offset



Centre mounted

Code	KB120
Description	Mini 1200 (1.2m/4') Grader Blade
Headstock	Steel 80x80x4mm sq. tube, welded
Mouldboard	6mm with channel reinforcing
Cutting Edge	150x12mm, spring steel, reversible
Linkage/Mounting	Double clevis, category 1
Finish	Powder coated
Adjustments	Angle, offset and tilt
Blade angle	28 positions over 360°
Blade offset	6 positions (3 left and 3 right)
Blade tilt	Camber only (100mm using lower linkage holes)
Controlled by	Pins, clips, wingnut
Overall width (mm)	1200
Tractor range (hp)	18 - 30
Weight (kg)	122

Options

KBDW120 KANGA 1200 depth wheel

S Range Grader Blade

The KANGA S Range Grader Blade has been engineered for tractors 25 to 35hp.

The reinforced mouldboard is designed to keep material flowing, while the heat treated cutting edge is reversible.

With simple manual adjustments, the operator can move material side to side, offset the blade to grade in hard to reach areas and tilt the blade (up to 150mm over the width of the blade) to maintain camber on a road or grade a slight slope into the terrain.



Tilted camber



Offset



Angled

Code	KB180
Description	S1800 (1.8m/6') Grader Blade
Headstock	Steel 100x100x4mm sq. tube, welded
Mouldboard	6mm with channel reinforcing
Cutting Edge	150x12mm, spring steel, reversible
Linkage/Mounting	Double clevis, Category 1
Finish	Powder coated
Adjustments	Angle, offset and tilt
Blade angle	28 positions over 360°
Blade offset	6 positions (3 left and 3 right)
Blade tilt	Camber only (150mm using lower linkage holes)
Controlled by	Pins, clips, wingnut
Overall width (mm)	1800
Tractor range (hp)	25 - 35
Weight (kg)	230

Options

KBDWS KANGA S1800 depth wheel

M Range Grader Blade

The KANGA M Range Grader Blade has been engineered to handle a wide range of applications and is suitable for tractors from 30 to 60hp.

The blade on the KBM180 can be angled, reversed and offset.

When creating a slope, the blade can be manually adjusted (up to 150mm over the width of the blade) which is usually enough to maintain camber on a road or grade a slight slope into terrain.



Tilted camber



Back blading

Code	KBM180
Description	M1800 (1.8m/6') Grader Blade
Headstock	Steel 100x100x6mm sq. tube, welded
Mouldboard	8mm with channel reinforcing and 16mm turn tables
Cutting Edge	150x12mm, heat hardened, spring steel, reversible
Linkage/Mounting	Double clevis, category 1
Finish	Powder coated
Adjustments	Angle, offset and tilt
Blade angle	28 positions over 360°
Blade offset	10 positions (5 left and 5 right)
Blade tilt	Camber only (150mm using linkage pin holes)
Controlled by	Pins, clips, wingnut
Overall width (mm)	1800
Tractor range (hp)	30 - 60
Weight (kg)	286

Options

KBDWM KANGA M1800 depth wheel

M Range Tilting Grader Blade

The range of KANGA M Range Tilting Grader Blades have been engineered to perform a wide range of applications. Suitable for tractors from 30 to 60hp, KANGA offers two (2) versions of the M Range Tilting Grader Blade.

The KBM180-TM has a manual ratchet tilt adjustment while the KBM180-TH has a hydraulic tilt adjustment.

Both mechanisms allow the blade to be tilted to an angle of 30° (one side of the blade edge 800mm higher than the other) allowing the operator to create and maintain drains.



Code	KBM180-TM	KBM180-TH
Description	M1800 (1.8m/6') Manual Tilting Grader Blade	M1800 (1.8m/6') Hyd. Tilting Grader Blade
Headstock	Steel 100x100x6mm sq. tube, welded	
Mouldboard	8mm with channel reinforcing and 16mm turn tables	
Cutting Edge	150x12mm, heat hardened, spring steel, reversible	
Linkage/Mounting	Double clevis, category 1	
Finish	Powder coated	
Adjustments	Angle, offset and tilt	
Blade angle	28 positions over 360°	
Blade offset	10 positions (5 left and 5 right)	
Blade tilt	Manual ratchet jack 30°/800mm	Hydraulic ram 30°/800mm
Controlled by	Pins, clips, wingnut, ratchet jack	Pins, clips, wingnut, hydraulic ram
Overall width (mm)	1800	
Tractor range (hp)	30 - 60	
Weight (kg)	310	315

Options
KBDWM KANGA M1800 depth wheel

Multi Clamp Grader Blade

The KANGA Multi Clamp Grader Blades have been engineered for creating and maintaining dirt tracks, firebreaks and drains and perform general clearing of scrub, scraping and grading.

Made in Australia for Australian conditions, they are suitable for tractors 40 to 70hp.

The Multi Clamp Grader Blade is a locking wedge design that allows the operator to set the blade to move material side to side, offset the blade for hard to reach areas and tilt the blade to create a slope in multiple positions (0° - 45° each direction in 5° increments).

The reinforced mouldboard has been designed to ensure material keeps flowing as the operator is working.

The blade can also be reversed so the operator can back blade to clear scrub and debris with less chance of damaging tractor tyres.



Code	KBMC180	KBMC240
Description	1.8m Multi Clamp Grader Blade	2.4m Multi Clamp Grader Blade
Headstock	Steel 140mm line pipe and 6mm sq. tube, welded	
Mouldboard	8mm with channel reinforcing and 16mm turn tables	
Cutting Edge	150x12mm, heat hardened, spring steel, reversible	
Linkage/Mounting	Double clevis, category 1 and 2	
Finish	High build primer and equipment enamel top coat	
Adjustments	Angle, offset and tilt	
Blade angle	0° - 45° in 5° increments forwards and backwards	
Blade offset	0° - 45° in 5° increments left and right	
Blade tilt	0° - 45° in 5° increments up and down	
Controlled by	Knock in/out metal clamps with springs	
Overall width (mm)	1800	2400
Tractor range (hp)	40 - 60	50 - 70
Weight (kg)	320	350

Options
KBDWMC KANGA Multi Clamp depth wheel

The KANGA H Range Grader Blades are made in Australia for Australian conditions. They have been engineered to suit tractors 50 to 80hp. The KANGA H Range Grader Blades can create and maintain dirt tracks, firebreaks and drains, clear heavy scrub and perform general grading and scraping.

The reinforced and gusseted mouldboard has been designed to ensure high volumes of material clear from the blade as the operator is working.

The KANGA H Range Grader Blades are available with manual (ratchet jack) or hydraulic (cylinder) adjustment. The operator can set the blade to move material side to side, offset the blade to grade in hard to reach areas and tilt the blade to create a slope or for drain cutting and management.

The blade can also be reversed so the operator can back blade to clear scrub and debris with less chance of damaging tractor tyres.



Code	KBH180M	KBH240M	KBH180H	KBH240H
Description	H1800 Manual Grader Blade	H2400 Manual Grader Blade	H1800 Hydraulic Grader Blade	H2400 Hydraulic Grader Blade
Headstock	Steel 150x150x9mm sq. tube, fully welded and reinforced			
Mouldboard	8mm with channel reinforcing and 16mm turn tables			
Cutting Edge	150x12mm, heat hardened, spring steel, reversible			
Linkage/Mounting	Double clevis, category 2			
Finish	High build primer and equipment enamel top coat			
Adjustments	Angle, offset and tilt			
Blade angle	0° - 30° forwards and backwards			
Blade offset	0° - 20° left and right			
Blade tilt	0° - 30° up and down			
Controlled by	Heavy duty, lockable, coarse threaded, ratchet jack		3" hydraulic rams and hoses	
Overall width (mm)	1800	2400	1800	2400
Tractor range (hp)	50 - 80	60 - 80	50 - 80	60 - 80
Weight (kg)	360	380	400	420

Options

- KBHDWM KANGA H range grader blade manual depth wheel
- KBHDWH KANGA H range grader blade hydraulic depth wheel
- KBHDV KANGA H range grader blade diverter valve system

The KANGA XH Range Grader Blades have been engineered to suit tractors 75 to 130hp. They are an extra heavy duty blade with full hydraulic movement. The operator can hydraulically adjust the blade to move material side to side, offset the blade to grade in hard to reach areas and tilt the blade to create a slope or for drain cutting and management.

The KANGA XH Grader Blade can also be setup with the blade reversed and the hydraulic rams on the internal side. This allows the operator to back blade, clearing scrub and debris with less chance of damaging hydraulic rams, hoses and tractor tyres.

The KANGA XH Range is made in Australia and has undergone extensive field testing in tough, Australian conditions. It can create and maintain dirt roads, firebreaks and drains, clear dense scrub and handle heavy duty grading and scraping.



Tilt ram

Angle ram



Offset ram

Double clevis linkage

Code	KBXH240	KBXH300
Description	XH2400 Grader Blade	XH3000 Grader Blade
Headstock	Steel 150x150x9mm sq. tube, fully welded and reinforced	
Mouldboard	475x10mm with channel reinforcing and 20mm turn tables	
Cutting Edge	150x12mm, heat hardened, spring steel, reversible	
Linkage/Mounting	Double clevis, category 2 and 3	
Finish	High build primer and equipment enamel top coat	
Adjustments	Angle, offset and tilt	
Blade angle	0° - 30° forwards and backwards	
Blade offset	0° - 20° left and right	
Blade tilt	0° - 30° up and down	
Controlled by	4" hydraulic rams and hoses	
Overall width (mm)	2400	3000
Tractor range (hp)	75 - 130	90 - 130
Weight (kg)	630	720

Options

- KBXHDWM** KANGA XH range grader blade manual depth wheel
- KBXHDWH** KANGA XH range grader blade hydraulic depth wheel
- KBXHDV** KANGA XH range grader blade diverter valve system



CULTIVATORS AND HARROWS

Single Tine Ripper

KANGA Single Tine Rippers are strong, versatile implements that are ideal for a range of applications; disturbing rabbit warrens, breaking up and aerating compacted ground, planting tree lines and land management.

They are extremely effective on sloping ground where water runoff is an issue. By carefully ripping along the contours of the land you can catch rain water, increasing subsoil moisture for greener pastures long into the drier months.

The tine has a chamfered (pointed) leading edge, that leaves a cleaner rip line, without tearing up huge chunks of grass, and reduces horsepower requirements.

The tine is fully welded and reinforced with double clevis slip in pin linkage points, making them one of the strongest rippers on the market.



Code	KRMN	KRMRS	KRHRS
Description	Mini Range Single Tine Ripper	M Range Single Tine Ripper	H Range Single Tine Ripper
Construction	Steel 4mm sq. tube, welded and gussetted	Steel 5mm sq. tube, welded and gussetted	Steel 6mm sq. tube, welded and gussetted
Linkage/Mounting	Double clevis, category 1		Double clevis, category 1 and 2
Finish	Powder coated		
Tine profile	Fixed, 130x25, chamfered edge	Fixed, 150x32, chamfered edge	
Tine material	Mild steel		
Working depth (max.)	350mm	500mm	650mm
Weight (kg)	40	70	90
Tractor range (hp)	15 - 28	25 - 50	35 - 80

Options

KRPMN Mini Range pipelayer
KRPMR M Range pipelayer
KRPHR H Range pipelayer

Parts

160.100a Ripper point (each) (suits M Single and H Range)
160.100b MINI Range ripper point (each)
160.101 Ripper point bolt kit (each)

3 Tine Ripper

KANGA Three (3) Tine Rippers are engineered to fracture hard, compacted ground leaving it open and aerated.

Land management is vital in Australia. Hard, compacted ground is prone to standing water (puddles) that quickly evaporates in our harsh climate. Equally, sloping ground has issues with water runoff. By opening up the ground you increase subsoil moisture and enable plants to grow deeper roots. The result is paddocks that take longer to dry out, keeping pastures greener for longer.

In virgin ground these rippers can be used before a Rotary Hoe or Power Harrow; reducing horsepower requirements, minimising the load on the geared implement and decreasing the number of passes to prepare the soil.

In secondary application, they can be used to break up the pan (compacted layer of soil geared implements create over time) increasing soil moisture and crop yields.

The main frame is constructed from square tube, fully welded and reinforced. The linkage points are a double clevis slip in pin design. The three (3) height adjustable tines have a chamfered (pointed) leading edge, that leaves a cleaner rip line, without tearing up huge chunks of grass, and reduces horsepower requirements.



Code	KRM3	KRH3-M	KRH3-B
Description	M Range Three (3) Tine Ripper	H Range Three (3) Tine Ripper - MS	H Range Three (3) Tine Ripper - BIS
Construction	Steel 5mm sq. tube, welded and gussetted	Steel 9mm sq. tube, welded and gussetted	
Linkage/Mounting	Double clevis, category 1	Double clevis, category 2	
Finish	Powder coated		
Tine profile	Height adjustable/three (3) positions, 130x25, chamfered edge	Height adjustable (three (3) positions), 150x32, 'chamfered' edge	
Tine material	Mild steel		Bisalloy
No. of tines	3		
Working depth (max.)	550mm	900mm	
Weight (kg)	115	290	
Tractor range (hp)	25 - 45	50 - 90	

Parts

160.100a Ripper point (each) (suits H Range 3 Tine)
160.100b MINI Range ripper point (each) (suits M Range 3 Tine)
160.101 Ripper point bolt kit (each)

Chain Link Drag Harrow

The KANGA Chain Link Harrows are a multipurpose implement engineered for pasture maintenance and can be towed or dragged behind a range of machines (ATV, RTV, tractor and/or car).

The KANGA Chain Link Harrow is a valuable asset when farming. It is ideal for spreading manure and organic matter when strip grazing pasture or spreading and levelling soil after seeding in direct drill situations.

When used in conjunction with a vacuum harvester, the KANGA Chain Link Harrow becomes a useful aid in effectively harvesting clover seed.

KANGA Chain Link Harrows are available in six (6) widths from 1.8m (6') to 6.0m (20') and the chain sections are all approximately 1.5m (5') deep, providing a medium level of scarification.



Code	KHCL1.8	KHCL2.4	KHCL3.0	KHCL3.6	KHCL4.8	KHCL6.0
Description	1.8m Chain Harrow	2.4m Chain Harrow	3.0m Chain Harrow	3.6m Chain Harrow	4.8m Chain Harrow	6.0m Chain Harrow
Linkage/Tow hitch	Metal round tow hitch					
Design	Drawbar with single piece net and rear weights					
Harrow material	Formed, 10.5mm, solid sq. metal bar					
Width (mm)	1800	2400	3000	3600	4800	6000
Depth (mm)	1475	1475	1475	1475	1475	1475
Weight (kg)	170	230	270	340	460	540

Combo Harrow

The KANGA Combo Harrows have been engineered to spread and distribute animal and organic matter evenly over pasture, to encourage and foster new growth.

Designed to be towed or dragged behind a range of machines (ATV, RTV, tractor and/or car), it is configured with three (3) rows of spiked tines at the front and a chain link net section behind. The front tines break up large clumps of manure, clods of soil and coarse vegetation. The trailing chain link section further breaks down the material and leaves it evenly spread.

KANGA Combo Harrows are available in four (4) widths from 1.8m (6') to 3.6m (12') and the chain sections are all approximately 1.95m (6'4") deep, providing an aggressive level of scarification.



Code	KHDH18	KHDH24	KHDH30	KHDH36
Description	1.8m COMBO Harrow	2.4m COMBO Harrow	3.0m COMBO Harrow	3.6m COMBO Harrow
Linkage/Tow hitch	Metal round tow hitch			
Design	Drawbar with two (2) piece net and rear weights			
Harrow material	Front: cast metal, three (3) prong star net Rear: formed, 10.5mm, solid sq. metal bar			
Width (mm)	1800	2400	3000	3600
Depth (mm)	1960	1960	1960	1960
Weight (kg)	155	200	255	300

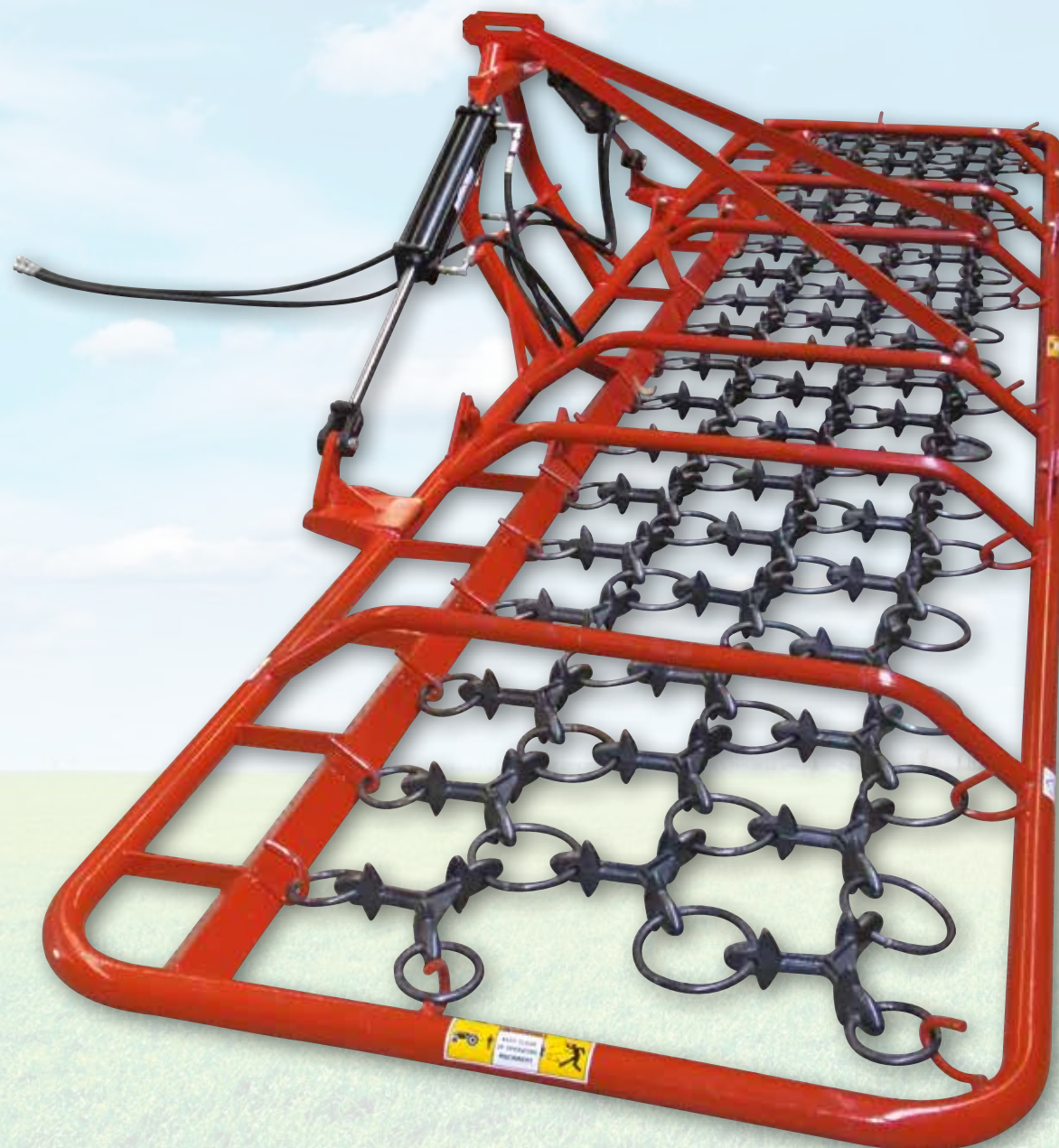
The KANGA Pasture Harrow Rakes are a linkage implement engineered for category 1 tractors to spread animal and organic matter. The rakes can also be used to rejuvenate outside arenas and to lightly scarify ground (leaving shallow grooves) to catch rain and increase moisture penetration.

The frame is manufactured from tubular (3mm) steel that has been braced (front to back) and incorporates a heavy duty scraping edge. This provides the implement with strength to scalp large clumps of manure, clods of soil and coarse vegetation.

With the large clumps broken, the heavy spiked net section slides over the contours of the ground, further reducing the size of the particles, stimulating growth and reducing the need for non-organic fertilizers.

The KANGA 4.0m Folding Pasture Harrow Rake manually folds up to 2.0m so it will fit through a 2.4m (8') gate.

The KANGA 6.0m hydraulically folding Pasture Harrow Rake requires openings of 3.0m (10'). When the 'wings' are lifted up they extend 0.5m out each side making the implement 3.0m wide (at the top) but 2.2m wide at the point the 'wings' pivot.



Code	KHPR400	KHPR600
Description	4m (13') Folding Pasture Harrow	6m (20') Folding Pasture Harrow
Linkage/Tow hitch	3-point linkage, category 1	
Design	Tube frame with single piece cast net	
Harrow material	Cast metal, three (3) prong star net	
Folds	Manually	Hydraulically
Width (mm)	4000	6000
Folded width (mm)	2000	3000
Depth (mm)	1800	
Weight (kg)	245	365
Tractor range (hp)	30 - 60	40 - 80

The KANGA 1.5m Disc Harrow has been engineered to open ground and break up soil in preparation for seeding and planting.

The notched discs are configured with two (2) sets of four (4) inward facing gangs at the front and two (2) sets of four (4) outward facing gangs at the rear. Notched discs are more

aggressive. By configuring them in this pattern we enable the implement to cultivate topsoil into fine particles, spreading evenly over the width of the implement.

The KANGA 1.5m Disc Harrow is rated for category 1 tractors 20 to 35hp and is ideal for domestic landscaping, small nurseries, gardens and smallholding farmers.



Code	KHDH1.5
Description	1.5m Disc Harrow
Frame	Angline/flat steel, reinforced and gussetted
Linkage	Double clevis, category 1
Gang axle	25mm solid square bar
No. gangs	16 (4x4)
No. of discs	16
Disc diameter	405mm (16")
Type of disc	Notched
Overall width (mm)	1500
Max. working depth (mm)	150mm (6")
Weight (kg)	215
Tractor range (hp)	20 - 35

The KANGA S Tine Cultivators are ideal for secondary cultivation. It is designed for a wide variety of tasks including soil preparation, aeration and weed control.

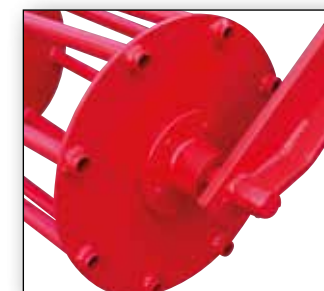
The frame is constructed from a combination of square tube (4mm) and flat steel (16mm). It has been engineered so the tines can be specifically positioned to minimise trash build up and ensure the soil is finely cultivated.

The tines are high tensile 32x10mm spring steel, secured to the frame with a special clamp, that gives the implement a

maximum working depth of 400mm.. The tines are fitted with a point (190x37mm) that is double ended and can be reversed, and then replaced, when worn. Sweep points (105mm or 150mm wide) are available as an option.

KANGA S Tine Cultivators come standard with a crumbler roller, that is removable. The roller acts as a height control device, breaks up clods and increases operating speed dramatically. The KANGA Crumbler rollers' twisted pipe construction, where the pipe tubes are incorporated into the flanges, results in a roller engineered for longevity.

Sealed motor vehicle stub axles are unique to our rollers. They are so effective in preventing dirt entering the bearings that we have never had an issue with any roller we have sold.



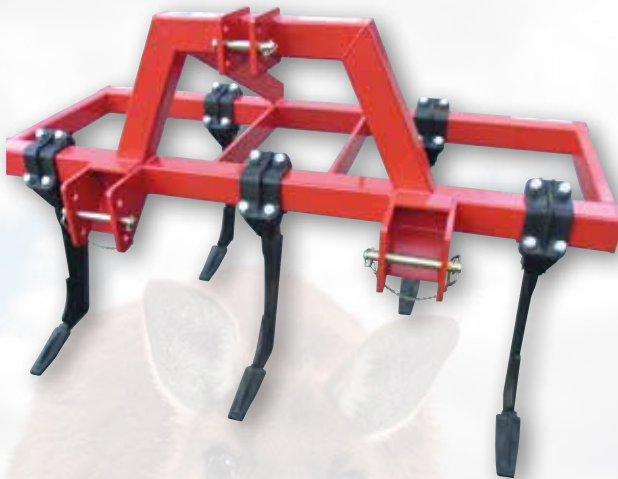
Crumbler roller with stub axle

Code	KST2.4	KST2.8	KST3.0	KST3.2
Description	2.4m 'S' Tine Cultivator	2.8m 'S' Tine Cultivator	3.0m 'S' Tine Cultivator	3.2m 'S' Tine Cultivator
Frame	Steel 5mm sq. tube with plate (12/16mm) reinforcing			
Linakge	Double clevis, category 1 and 2		Double clevis, category 2 and 3	
No. of rows	4			
No. of tines	24	28	30	32
Type of tine	32x10mm high tensile, 'S' tine with 400mm clearance and reversible point			
Overall width (mm)	2750	3150	3350	3550
Working width (mm)	2400	2800	3000	3200
Roller	Standard: eight (8) bar crumbler roller with automotive stub axles			
Weight (kg)	425	450	475	500
Tractor range (hp)	40 - 60	45 - 70	50 - 80	55 - 90

Options

KSTDDW	S Tine cultivator dual depth wheels
180.405	105mm (4") cultivator sweep point
180.406	150mm (6") cultivator sweep point

KANGA Subsoil Cultivators are designed for a wide range of applications such as aerating compacted ground, preventing standing water (puddles), cultivating without disturbing different layers of soils, increasing subsoil moisture in areas prone to erosion and increasing soil fertility.



The tool bars can be purchased separately (if you already have tines) or Farm Implements offer several different types of tines.

Subsoil Cultivator Tool Bars

KANGA Tool Bars are a heavy duty, fully welded and reinforced, 100x100x9mm square tube frame. They have wide, lower linkage pickup points to cater for category 2 and 3 tractors. The mounting points have a series of holes which provide increased ground clearance (when mounted in the lower holes). Extra clearance is valuable for orchard type tractors as they have a lower centre of gravity compared to a standard tractor of an equivalent horsepower.

Subsoil Cultivator Tines

KANGA Tines are sold individually. They can be bolted to the tool bar in various places, allowing the operator to customise the Subsoil Cultivator to the tractor, ground conditions and application.

Code	KSS180	KSS240	KSS300	KSS360
Description	1.8m Subsoil Tool Bar	2.4m Subsoil Tool Bar	3.0m Subsoil Tool Bar	3.6m Subsoil Tool Bar
Frame	100x100x9mm sq. tube with plate reinforcing			
Linakge	Double clevis, category 2 and 3			
No. of mounting rows	2			
No. of tines (possible)	3 - 7	5 - 9	7 - 11	9 - 13
No. of tines (suggested)	5	7	9	11
Overall width (mm)	1800	2400	3000	3600
Working width (mm)	1700	2300	2900	3500
Weight (kg)*	190	220	235	265

* Weight of the tool bar only.

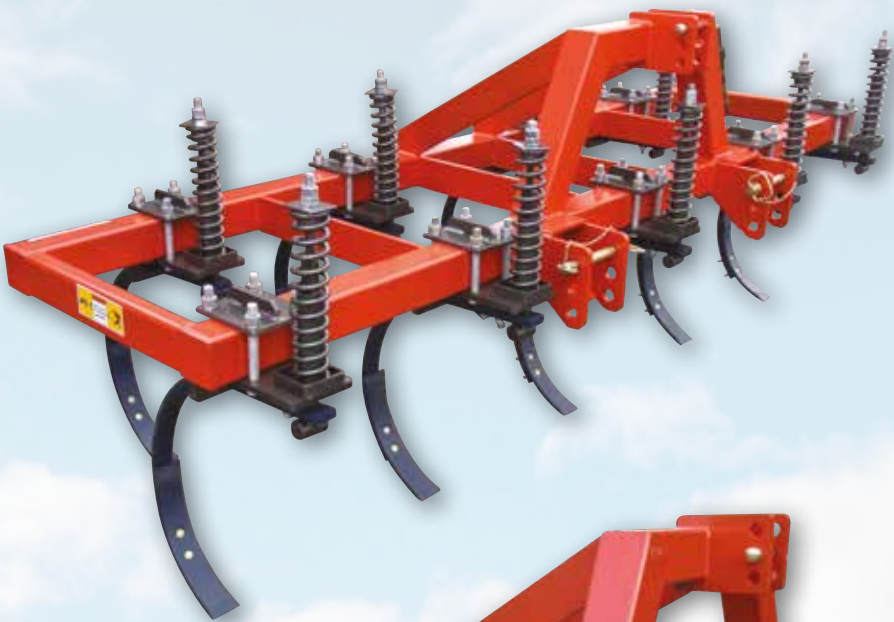
Tines			
Code	KSS-T24	KSS-T30	KSS-TCP
Description	24" Cast Shear Bolt Tine	30" Cast Shear Bolt Tine	Stump Jump Chisel Plough Tine
Working depth (mm)**	610	760	520
Tine protection	Shear pin	Shear pin	Spring
Protection breakout point	5000kg	5000kg	250lb/ft. 370kg/m
Tractor p/tine (hp)	10 - 15	12 - 15	8 - 10
Weight p/tine (kg)	29	31	40

** Measured from the bottom of the tool bar, includes the point.

Options
KSSDDW Subsoil cultivator dual depth wheels

Stump Jump Chisel Plough Tine

These tines are ideally suited to primary cultivation where the tine and the point need to combine to penetrate hard ground. They are an aggressive spring loaded tine that can be used in paddocks where there are rocks or objects that would cause damage to a rigid tine. They have a working depth of 20" (520mm) and a horsepower requirement of 8 to 10hp per tine.



Cast Shear Bolt Tine

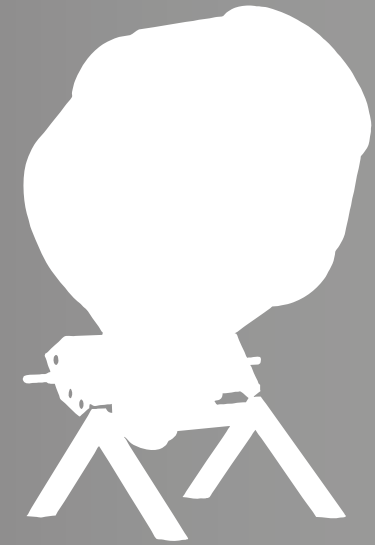
These tines can be used for a range of ripping or cultivating applications and are ideal when you want minimal disturbance to the surface.

The pointed leading edge slices through grass or crops leaving root systems in place to support soil and prevent erosion. The fine rip lines catch rain, organic material, animal manure and fertiliser, directing them into the subsoil. The result is healthier soil and better pastures.

Available in 24" (610mm) and 30" (760mm) these tines are designed with a shear bolt (5000kg break out point) and come with replaceable shins and points. The horsepower requirement is 10 to 15hp per tine.



Rip lines from a cast shear bolt tine.



MISCELLANEOUS

Post Hole Digger

KANGA Post Hole Diggers are a great asset to landscapers, building contractors and farmers, as they have been engineered to dig holes quickly and efficiently.

The fully welded, reinforced and gusseted square tube frames, and double clevis 'A' frame linkage mounts, provide the weight and strength required to dig holes in tough soil conditions.

Australian made and sold separately, the double cut augers are 1.2m in length and, ground conditions permitting, result in hole depths up to 1.1m.

Refer to page 77 for details of augers.



Mini Range

Code	KPHD35	KPHD50	KPHD75
Description	MINI Range Post Hole Digger	M Range Post Hole Digger	H Range Post Hole Digger
Construction	Steel 80x80x4mm sq. tube, welded and gusseted	Steel 100x100x6mm sq. tube, welded and gusseted	
Linkage/Mounting	Double clevis, category 1 (sq. tube / 12mm steel)		Double clevis, category 2 (sq. tube / 12mm steel)
Gearbox	35hp, 540rpm, 2.921 reduction ratio	50hp, 540rpm, 3.18:1 reduction ratio	75hp, 540rpm, 4.1:1 reduction ratio
PTO shaft/clutch	Series 4 with heavy duty 150mm (6") 40hp friction (slip) clutch		Series 4 with heavy duty 150mm (6") 80hp friction (slip) clutch
Finish	Powder coated and/or painted (high build primer and equipment enamel top coat)		
Tractor range (hp)	15 - 35	30 - 70	50 - 100
Weight (kg)	96	135	160



M Range



H Range

The KANGA XH Range Post Hole Diggers are a hydraulic assist, down pressure digger engineered for category 2, 3-point linkage tractors that are rated 40 to 100hp.

This post hole digger has been designed that, when the frame is in the correct position, the lower linkage arms of the tractor 'lock' the frame in place and digging (raising and lowering the auger) is done using the 3" hydraulic ram ONLY.

In the event the operator forgets to use the ram and uses the tractor linkage instead, shear bolts have been incorporated into the design as a safeguard against damage.

Available with either a 50hp or 75hp gearbox, the KANGA XH Range Post Hole Digger is a fully welded, reinforced and gusseted, 6mm square tube, dual rail frame.

Australian made and sold separately, the double cut augers are 1.2m in length and, ground conditions permitting, result in hole depths of up to 1.1m.

Refer to page 77 for details of augers.



Code	KPHD50-XH	KPHD75-XH
Description	50hp XH Range Post hole Digger	75hp XH Range Post hole Digger
Construction	Heavy duty, dual rail frame, steel sq. tube, fully welded and gusseted	
Linkage/Mounting	Category 2, height adjustable bolt-on pins	
Gearbox	50hp, 540rpm, 3.18:1 reduction ratio	75hp, 540rpm, 4.1:1 reduction ratio
PTO shaft/clutch	Series 4 with 150mm (6") 40hp friction (slip) clutch	Series 4 with heavy duty 150mm (6") 80hp friction (slip) clutch
Finish	Powder coated	
Tractor range (hp)	40 - 70	50 - 100
Weight (kg)	200	210

Australian made, these double cut augers are available in widths of 100mm (4"), 150mm (6"), 230mm (9"), 300mm (12"), 380mm (15")*, 460mm (18")* and 610mm (24")*.

All augers have a replaceable cast steel fishtail pilot and cast knocks in teeth** for faster, more efficient digging.

The augers are 1.2m in length, which dig to a depth of approximately 1.1m, but auger extensions are available to dig deeper.

* These augers are not suitable for the 35hp gearbox that come with the KANGA Mini Range Post Hole Digger.

** The 100mm (4") has an oversized fishtail pilot and no teeth due to the size of the auger.



Code	KPHDA04	KPHDA06	KPHDA09	KPHDA12	KPHDA15	KPHDA18	KPHDA24
Description	4" (10cm) Auger	6" (15cm) Auger	9" (23cm) Auger	12" (30cm) Auger*	15" (38cm) Auger*	18" (46cm) Auger*	24" (61cm) Auger*
Construction	48" (1200mm), double cutting head, 50mm pipe with 6mm flighting						
Finish	High build primer and equipment enamel top coat						
Pilot	Replaceable cast steel fishtail design						
Weight (kg)	14	15	20	25	28	35	60

* Not suitable for use on the MINI range post hole digger.

Parts

140.900 Standard dirt tooth (pair)
140.901 Standard chisel tooth (pair)
140.909 Clockwise pilot (4"/10cm auger only - SB30)
140.906 Clockwise pilot (all other augers - SB25)

Bale Spike

The KANGA Bale Spike has been designed for farmers, with small to medium horsepower tractors, who are looking for an affordable option to move round hay bales, one at a time.

The implement is designed with a small high tensile spike to stop the bale spinning and a longer, heat treated Conus II type tine that carries the weight of the bale. The tine is removable and replaceable if the operator wants to purchase different lengths.

The category 1, 3-point linkage is a double clevis slip in pin design making the frame less likely to bend or twist with the weight of the bale.



Code	KHH-BS
Description	Bale Spike
Construction	Steel 5mm sq. tube, welded and gusseted
Linkage/Mounting	Double clevis, category 1
Finish	Powder coated
Type of tines	Small: 280mm, high tensile (fixed) Large: 1240mm, straight Conus II, removable
No. of tines	2
Weight (kg)	60

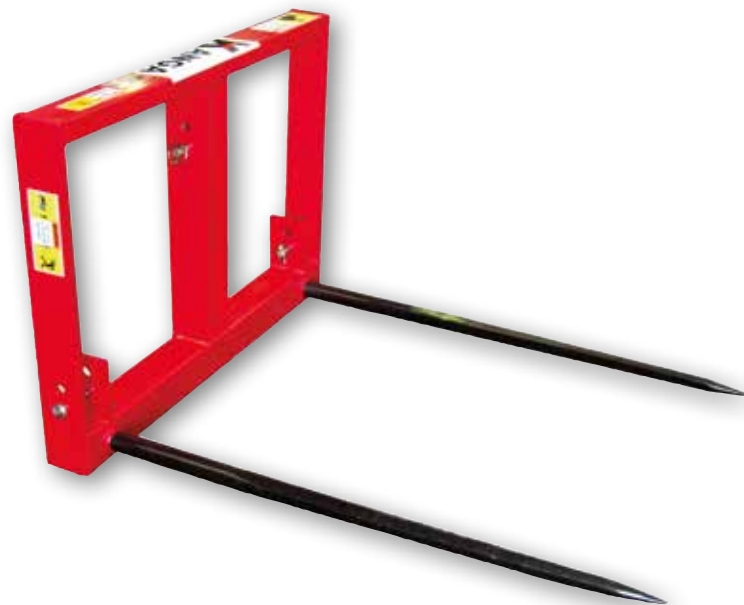
Silage Fork

The KANGA Silage Fork has been designed to enable farmers to move a single bale of silage.

The implement is a rigid, fully welded and reinforced design with two (2) Conus II bushings welded into the frame.

The tines are made from 60Si7 Alloy Spring Steel (1650 N/mm²) that is forged and heat treated providing the tines with a maximum load rating of 570N (1578kg/3000lbs).

The category 1 and 2 linkage is a double clevis slip in pin design that makes the frame less likely to bend or twist with the weight of the bale.



Code	KHH-SF
Description	Silage Fork
Construction	Steel 5mm sq. tube and 6mm plate, welded and gusseted
Linkage/Mounting	Double clevis, category 1 and 2
Finish	Powder coated
Type of tines	1240mm, straight Conus II, removable with cone nut
No. of tines	2
Weight (kg)	87

Adjustable Round Bale Feed Out Fork

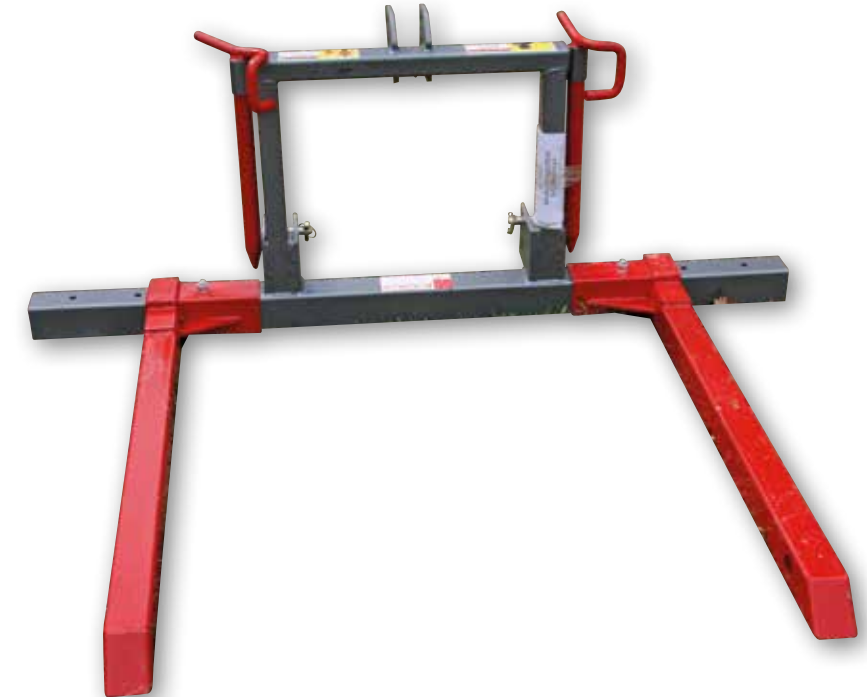
The KANGA Adjustable Round Bale Feed Out Fork has been designed to enable farmers to move and feed out different sized round hay bales.

The tines can be adjusted in and out, and swapped from side to side, to accommodate different width bales.

The pins that secure the bale in place have been specifically designed to lock over the tines, which means the pins do not come loose when the operator is feeding out.

To feed out:

- position the bale opposite to how it was baled
- lower the linkage so the bale is on the ground
- drive the tractor slowly forward so the bale unrolls.



Code	KHH-FOF
Description	Adjustable Round Bale Feedout Fork
Construction	Steel sq. tube, welded and gusseted
Linkage/Mounting	Double clevis, category 1 and 2
Finish	Powder coated
Type of tines	Multi position (1100 - 1700mm), sq. tube (4mm) with locking spikes
No. of tines	2
Weight (kg)	96



Manual Jib Crane

The KANGA Manual Jib Crane has been designed to be used with category 1 linkage tractors and has a lifting capacity of 500kg*.

Two (2) hitch points ensure the operator can assess the lift to safely load and unload. The hitch points are a slip in pin design making it possible to use a range of lifting straps, chains and equipment. KANGA recommend only rated/ tested lifting straps are used, and for heavy loads use the hitch point closest to the tractor.

The jib has been braced across the top for extra strength and is constructed from heavy duty 5mm square tube. The hitch points are fully welded and reinforced, and the 3-point linkage ('A' frame) is a double clevis and braced design to reduce twisting and bending when in transit.

The KANGA Manual Jib connects easily to any category 1 tractor. There are multiple holes, where the 'A' frame connects, providing a range of different lifting arcs. Once connected 'lifting' is achieved by raising and lowering the tractor's lower linkage arms.



Hydraulic Jib Crane

The KANGA Hydraulic Lifting Jib has been manufactured with a heavy duty frame and a positive locking, three (3) position, adjustable jib.

At the end of the adjustable jib there is a crane hook with a spring loaded clip so lifting rings or the end of lifting straps can be securely fastened. With the jib fully extended, and the tractor lower linkage arms 700mm off the ground, the hook has been engineered to lift 500kg (max.) to a height of 2.4m*.

The KANGA Hydraulic Lifting Jib connects easily to any category 1 tractor that has a set (one (1) set) of hydraulic remotes.

Once connected, 'lifting' is achieved by activating the tractor's hydraulic remotes.

Operators must check the maximum lift capacity of their tractor. In some cases (i.e. compact tractors) they may need to reduce the maximum load (in line with the tractor specification) and the length of the adjustable jib (tractor/implement stability).

Code	KJCM	KJCH
Description	Manual Jib Crane	Hydraulic Jib Crane
Construction	Steel 100x100x6mm sq. tube, welded and gusseted	Steel sq. tube, welded and gusseted
Linkage/Mounting	Double clevis, category 1, braced and gusseted frame (12mm steel)	Double clevis, category 1
Finish	Powder coated	Powder coated
Lifting mechanism	Manual	Hydraulic (double acting (2") ram and hoses)
Lifting operation	By raising and lowering a tractor's lower linkage arms	By activating one set of remote on the tractor
No. of lift points	2	3
Max. lift capacity (kg)	500*	
Tractor range (hp)	30 - 60	50 - 100
Weight (kg)	68	160

* Operators are responsible for calculating tractor/implement stability and ensuring load and lift does not result in damage or harm.

Stick Rake

The KANGA Stick Rakes are a perfect implement for raking up sticks, prunings and general rubbish.

The KANGA Stick Rake has been designed to handle a large volume of material due to the depth of the frame (750mm) and the 400mm tine ground clearance.

The tines are made from 32x10mm high tensile spring steel and come with a reversible point, doubling the usage before it needs to be replaced.

KANGA Stick Rake frames are a centrally mounted, double clevis design. Manufactured from a strong, reinforced, 4mm square tube frame and available in widths of 1.8m (6'), 2.4m (8') and 3.0m (10').



Code	KSR180	KSR240	KSR300
Description	1.8m (6') Stick Rake	2.4m (8') Stick Rake	3.0m (10') Stick Rake
Construction	Steel 50x50x4mm sq. tube with 12mm plate		Steel 75x50 / 50x50 4mm sq. tube with 12mm plate
Linkage/Mounting	Double clevis, category 1, with slip-in pins		
Finish	Powder coated		
Type of tines	32x10mm high tensile, 'S' tine with 400mm clearance and reversible point		
No. of tines	13	17	21
Weight (kg)	105	130	160

Carryall – Wood Floor

KANGA Carryalls are a multipurpose implement designed to transport a wide range of items such as hay bales, firewood, spray tanks, fence material and equipment, bags of produce, firefighting equipment and tools.

KANGA carryall frames are manufactured predominantly from fully welded and gusseted 4mm square tube. Lugs have been welded to the rear, to secure things, and removable side stays brace the floor to the front frame.

The timber floor is kiln dried Tasmanian hardwood that will not shrink, twist, warp or be slippery like imported carryalls with metal floors. The timber boards are secured to the frame with a bolt in system enabling the owner to easily replace damaged board(s) without a welder or grinder.

KANGA Carryalls are a bench mark in quality, being one of the only carryalls in Australia with a square tube frame and kiln dried timber floor.



Code	KCWF120	KCWF150	KCWF180
Description	1200 Wood Floor Carryall	1500 Wood Floor Carryall	1800 Wood Floor Carryall
Construction	Fully welded 4mm sq. tube with angle/plate reinforcing		
Linkage/Mounting	Category 1, bolt-on pins		
Finish	Powder coated		
Floor material	150x25mm kiln dried Tasmanian Oak hardwood board		
Floor dimensions			
Width (mm)	1200	1500	1800
Depth (mm)	900	900	1100
Weight (kg)	53	68	85

COSMO Cement Mixer

The Italian made COSMO Mixer 80 is a 3-point linkage chain driven mixer designed for farm and home use.

This premium attachment can mix concrete and transport it to hard to reach places, enable farmers to mix fodder or feed for animals and bulk wash fruit and vegetables.

The wide mouthed hopper is formed from two (2) rolled cones (from 3mm sheet steel). Rolling the cones makes the hopper stronger as there are no welds or forming issues. This strength allows the 320ltr hopper to mix at maximum capacity (195ltr / 0.2m³ / 7 ft³) easily.

The COSMO Mixer comes with a hydraulic top link to raise and lower the hopper. Painted in the COSMO factory in Italy, the mixers high quality finish will last for many years.

Refer to page 39 for details of COSMO's state of the art, automated painting system.



Code	CM80-320
Description	Mixer 80 - 320ltr
Transmission	Chain drive (10:1 reduction ratio) 540rpm
Capacity	195lt / 0.2m ³ / 7ft ³
Tipping mechanism	Hydraulic (18" x 2" ram)
Linkage/Mounting	Category 1, height adjustable bolt-on pins
Dimensions	
Width (mm)	860
Depth (mm)	930
Height (mm)	950
Tractor range (hp)	35+
Weight (kg)	100



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