Forestry

ATTACHMENTS



The right choice

productivity.



| Timber Grapples

With longevity built into the robust structure, Bell Grapples are designed to be efficient loading tools for timber and general material handling applications. They are suitable for a variety of purpose-built and hybrid carriers weighing 7,5t to 40t and cross-cut saw options are available in certain sizes.

Our timber grapples have a nose cone option, either with an internally routed link or standard link. The internal link limits damage caused by impact with logs, or debris to hydraulic lines during loading by allowing hoses to be routed from the carrier to the grapple with minimal external exposure for higher component life.

Optional feature:

Nose cone – the nose cone allows for an extended reach for the grapple (generally 1 000mm) combined with the ability to route hoses internally.





Pickaroons

The Bell Pickaroon is available for fitment from a backhoe loader to a 21t excavator and is the ideal tool to uproot and push over trees. The pickaroon's replaceable ripper tip and blade guard easily rips through roots while the nudge guard is designed to force a controlled drop of the tree



| Cross-cut grapples

The Bell Cross-cut Grapple is based off the proven Bell Timber Grapple range with the attachment of the cross-cut saw box. The grapple design ensures a firm grip of the poles while the cross-cut saw cuts a consistent square cut through the timber. This grapple is ideally suited for cutting, sorting, and loading.



| Stem Grapples

Bell Stem Grapples are the ultimate choice for a variety of applications, including timber yards, roadside depots, and even logging operations due to their suitability to handling large diameter logs, both processed and full tree-lengths. The grapple's unique design allows it to grip even the largest logs securely, with the rotator ensuring a full 360° range of tree placement options while maintaining excellent reliability.

Our stem grapples have the options of a live heel and a nose cone, both of which have an internally routed link to limit damage caused by impact with logs or debris to hydraulic lines during loading. This combined with the unique stem grapple design allows hoses to be routed from the carrier to the grapple with minimal external exposure for high component life.

Optional features:

Live heel – the live heel allows loading of timber while maintaining a given angle with the ground. The angle can be adjusted by the operator using the heel. This is mostly suited to loading trucks where extra control is required for full tree lengths.

Nose cone – the nose cone provides extended reach for the grapple (generally 1 000mm) combined with the ability to route hoses internally.





| Harvesting Heads

Suitable for 21t to 40t hybrid or purpose-built carriers, the Bell Harvesting Head has been designed for Eucalyptus timber harvesting and processing with the aim of single pass processing.

The two roller head with four wrap-around high tensile knives ensure maximum bark and small limb removal while the high strength structure and two-piece valve bank provide great durability and ease of maintenance.



| Felling Heads

Bell Felling Heads are recommended for carriers ranging from 13t to 21t making them suitable for fitment on Bell FastFells and Skoggers. Well suited to small to medium sized timber in either thinnings or clearfell applications, Bell Felling Heads have a simple yet robust design. Customers have the choice of a dangle joint with rotator or with a fixed excavator mounting for more controlled positioning when felling.



Shear Heads

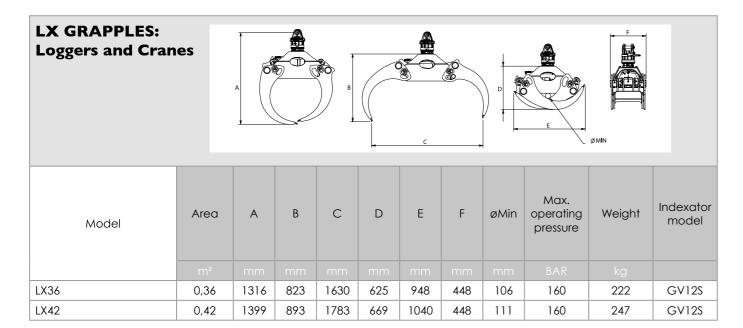
The Bell Shear Head has a fixed mounting and features a high tensile steel blade that is ideally positioned to ensure low to ground level cutting. Suitable for excavator carriers ranging from 13t to 21t, this is the perfect head for a variety of soft and hard wood applications with small to medium sized timber.



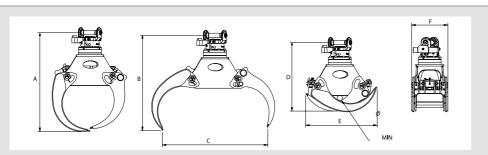
4 | Forestry Attachments | 5

339

| Technical Data | Line Drawings

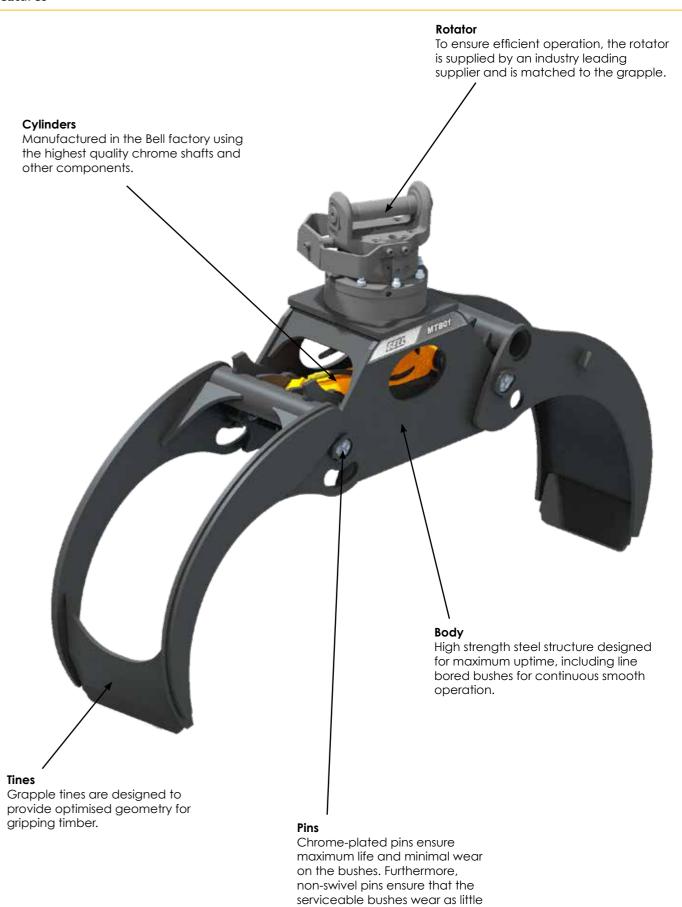


MT GRAPPLES: Excavators and large Knuckleboom Cranes



Model	Area	Α	В	С	D	Е	F	øMin	Max. operating pressure	Weight	Indexator model	Typical carrier size (but not limited to)
												ton
MT500 LB	0,5	1549	1453	1843	1051	1196	560	90	250	430	GV12/17	7-14
MT600 LB	0,6	1620	1460	2139	1100	1302	660	113	250	531	GV12/17	14-20
MT800 LB	0,8	1812	1587	2472	1170	1467	560	114	250	561	GV12/17	20-26
MT501	0.5	1637	1578	1843	1151	1184	600	90	250	800	XR350	7-14
MT601	0.6	1754	1593	2139	1237	1300	600	110	250	915	XR350	14-20
MT801	0.8	1896	1700	2472	1292	1496	600	120	250	998	XR350	20-26
MT1000	1,0	1717	1468	2851	1054	1673	815	135	250	1125	XR400	26-30
MT1200	1,2	1832	1637	2936	1078	1825	815	116	250	1310	XR400	26-30
MT1800	1,8	2217	1952	3490	1546	2197	829	147	250	1489	IR22	30-38
MT2250	2,25	2517	2065	4493	1456	2522	875	176	250	2426	XR500	38-52

Features



as possible.

6 | Forestry Attachments | 7

Stem Grapples

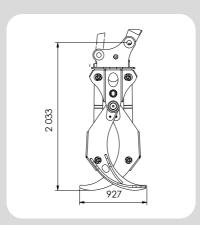
Technical Data

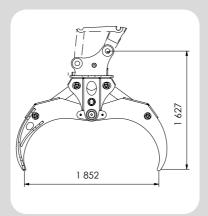
ROTATOR MODEL
Indexator XR500

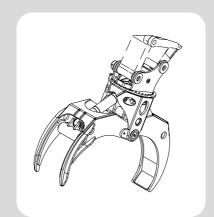
→ DIMENSIONS	
Height [mm]	2 033
Width [mm]	927
WEIGHT	
Gross [kg]	945
GRAPPLE	
Area [sqm]	0,5
Maximum jaw open [mm]	1 852
O' HYDRAULICS	
Maximum operating pressure [bar]	250

Rotation [degrees] Weight [kg]	360 216
BASE MACHINE (CARRIER SIZE)	
Excavator minimum weight [t]	21
Excavator maximum weight [t]	30

| Line Drawings

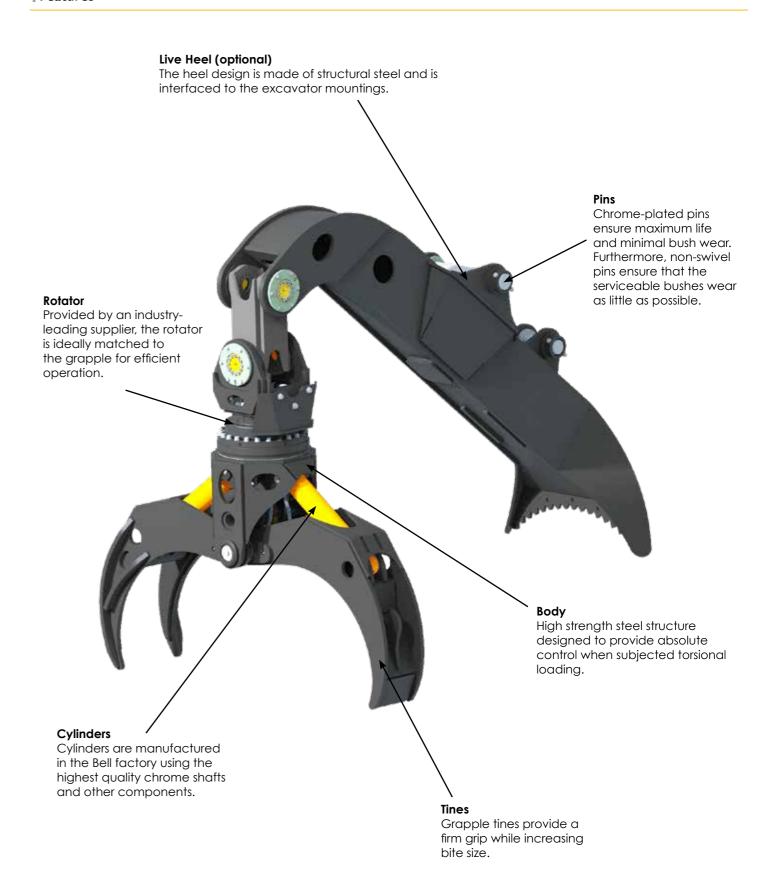






345

Features



8 | Forestry Attachments | 9

| Technical Data

← DIMENSIONS	MT50FH	MT50FHF
Height [mm]	1 170	1 816
Width [mm]	1 372	1 162
Depth [mm]	1 170	1 359
<u>o</u>		
WEIGHT		
Gross [kg]	535	955

7	CD 4 DD
\ /	GRAPPI

0,25	0,25
890	890
50	50
	30°
	890



Hultdins SuperCut		
Saw chain type	0,404	404
Saw bar [mm]	750	750
Saw motor [cm³/rev]	19	19
Maximum cut diameter [mm]	530	530

O HYDRAULICS

Pressure rating [bar]	200-280	200-280
Oil flow minimum [Lpm]	65	65
Oil flow maximum [Lpm]	1 05	1 05

ROTATOR MODEL

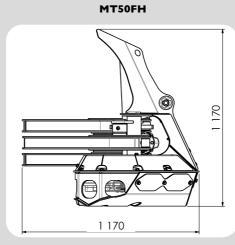
Indexator GV124S - Grapple

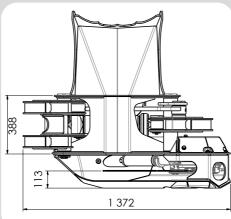
Saw rotator Rotation [degrees] 360 Weight [kg]



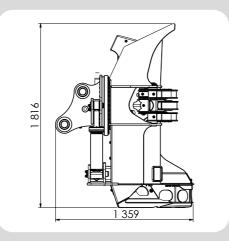
Excavator minimum weight [t]	13	13
Excavator maximum weight [t]	21	21

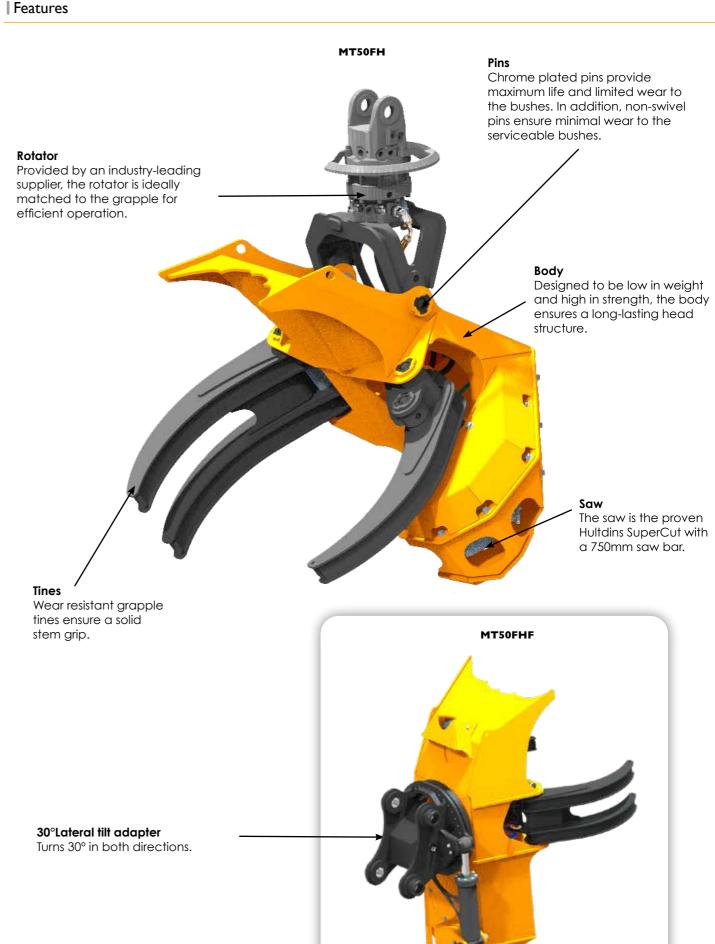
| Line Drawings





MT50FHF 1 515 Tree support points





| Harvesting Head 2420E

| Technical Data

← DIMENSIONS 1 659 Width, head open [mm] Width, head closed [mm] 1 317 Height with rotator and link [mm] 1 787

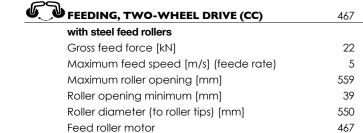


1 680 Without rotator and link, from



FELLING/CUTTING

SuperCut 150 saw unit, automatic chain tensioning	
Maximum cut diameter [mm]	559
Length of saw bar [mm]	750
Chain type	404
Saw motor [cm³/rev]	19





DELIMBING

Number of feed rollers Feed wheel type

Delimbing knives	4 moving, 1 fixed
Delimbing diameter, tip to tip [mm]	583
Maximum opening, upper knives [mm]	583
Maximum delimbing full coverage [mn	n] 350

Steel Roller



Maximum operating pressure [bar]	300
Recommended pump capacity [I/min]	300



ROTATOR MODEL

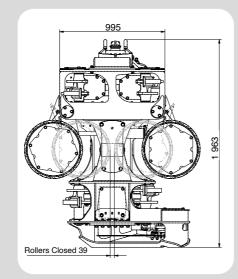
Indexator HX30LS

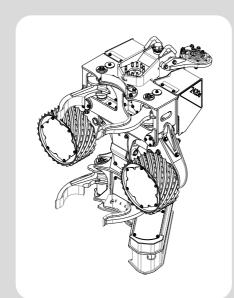


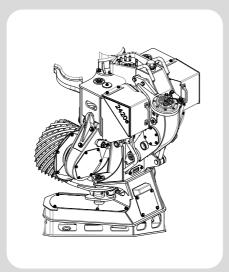
BASE MACHINE (CARRIER SIZE)

Excavator minimum weight [t]	20
Excavator maximum weight [t]	25

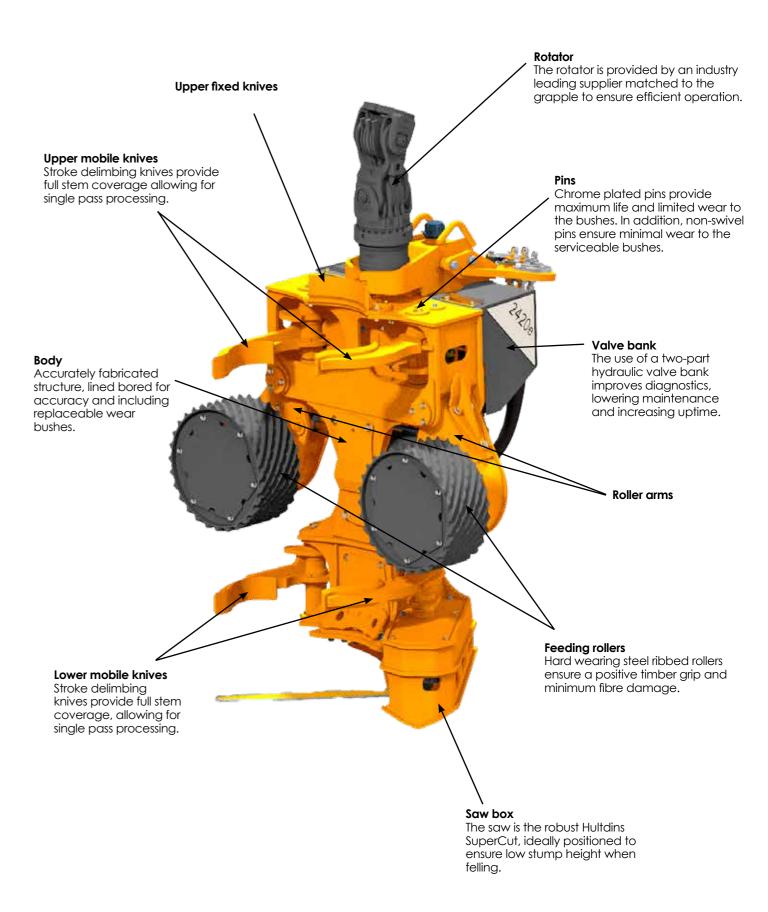
| Line Drawings







Features



Shear Head

| Line Drawings | Technical Data

WIGH
Lengt

← DIMENSIONS 993 Width, head open [mm] 1 258 gth [mm] Height [mm] 993



WEIGHT

Gross [kg]



FELLING/CUTTING

Maximum cut diameter [mm]	400
Blade thickness [mm]	16
Maximum opening [mm]	650



OF HYDRAULIC SYSTEM

Maximum operating pressure [bar]	250
Recommended pump capacity [I/min]	80-140



8

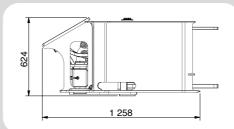
20

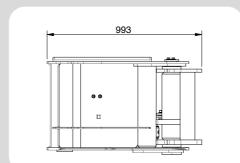
650

BASE MACHINE (CARRIER SIZE)

Excavator minimum weight [t]
Excavator maximum weight [t]



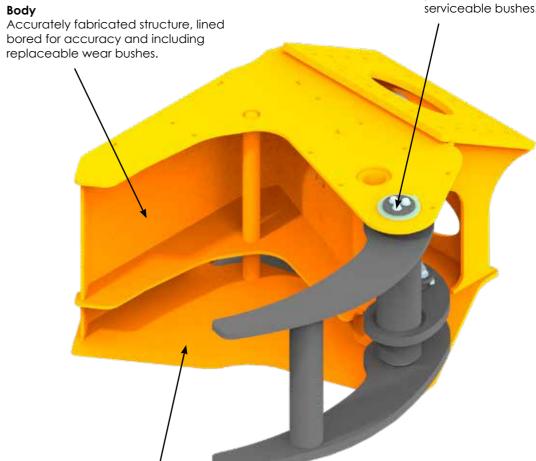






Features

Chrome plated pins promote maximum life and limited wear to the bushes. In addition, non-swivel pins ensure minimal wear to the serviceable bushes.



Hardened high tensile steel blade, geometrically positioned to ensure stump cut height close to ground

Pickaroons

Technical Data

← DIMENSIONS 1 022 Width [mm] 1 502 Height [mm]



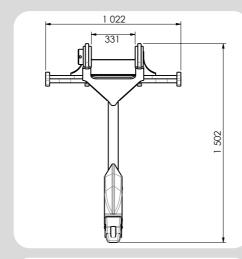
Gross [mm] 80

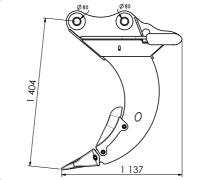


BASE MACHINE (CARRIER SIZE)

Excavator maximum weight [t]

| Line Drawings





| Cross-Cut Grapples

Technical Data

← DIMENSIONS	
Length 'A' [mm]	1 095
Width 'B' [mm]	162
Height 'C' [mm]	400
Width 'D' [mm]	120
Saw bar [cm]	90
WEIGHT	



Gross [kg]

OF HYDRAULIC SYSTEM

Saw motor displacement [cm³] 10 Minimum hydraulic pressure, saw motor [bar*] 160 Minimum hydraulic flow, saw motor [lpm *] 65 Hydraulic pressure, saw bar feed out [bar] 50 - 55 30 Hydraulic pressure, chain tensioning [bar] Gas pressure, accumulator [bar] Air pressure, saw bar retraction [bar]

102

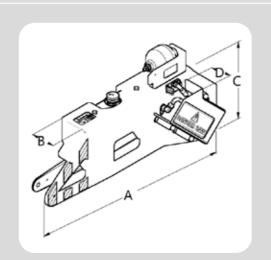
* Maximum saw chain speed and Maximum power input to the saw chain may NEVER exceed recommendations from each saw chain manufacturer.



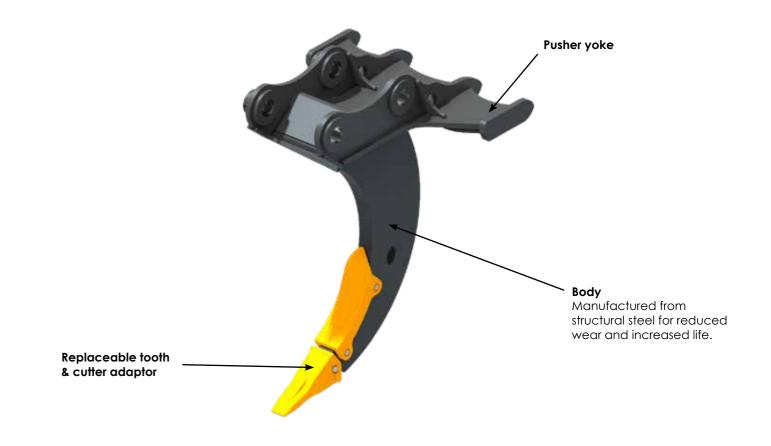
CHAIN LUBRICATION

Type of lubrication	Proportional
Lube oil tank capacity [L]	3,0

| Line Drawings



| Features



Features



Heavy duty Hultdins SuperSaw 10cc grapple saw for durability.















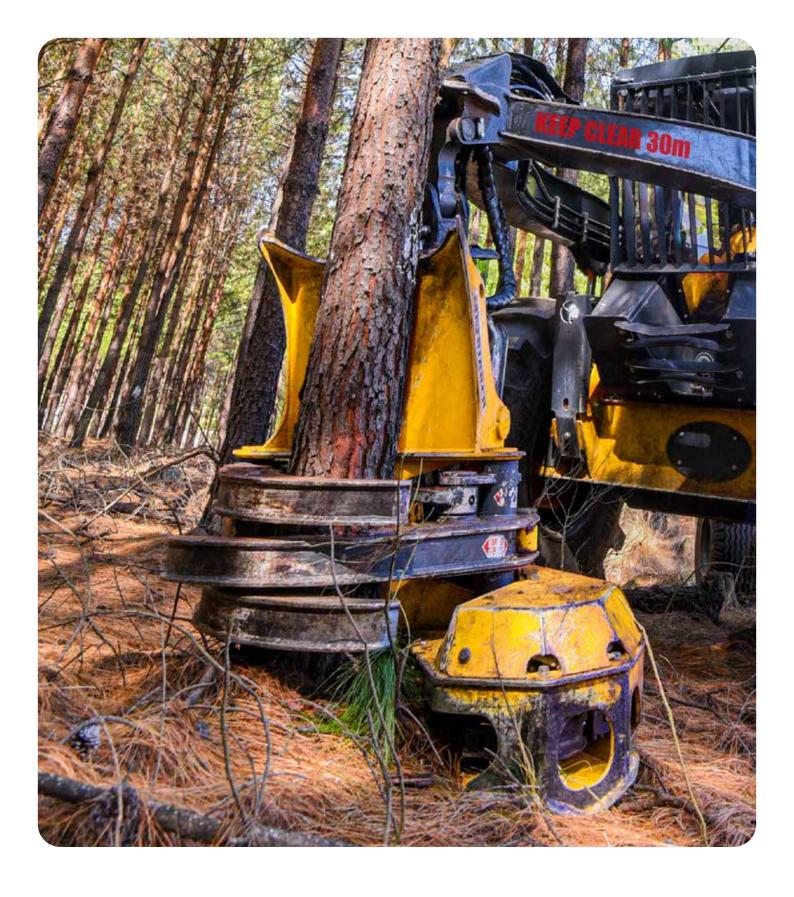








18 | Forestry Attachments



Technical specifications and designs may vary according to options available from time to time. With our policy of continuous improvement we reserve the right to change details without prior notice. Photographs, diagrams & drawings featured in this brochure may include optional equipment.

BELL INTERNATIONAL: Tel: +27 (0)35-907 9431

Web: www.bellequipment.com E-mail: marketing@bellequipment.com

Tel: +61 (0)8 9355 2442

Tel: +49 (0)6631 / 91 13 0

Tel: +27 (0)11 928 9700

Tel: +33 (0)5 55 89 23 56 Tel: +44 (0)1283 712862

Tel: +1 (704) 655 2802

Strong Reliable Machines Strong Reliable Support

