

Tigercat[®]

Tough • Reliable • Productive

FELLING ATTACHMENTS



SHEARS

Tigercat bunching shears are a simple, low maintenance alternative to disc saw felling heads. In pine and eucalyptus plantations, Tigercat shears are extremely efficient at felling pulpwood.

1800 shear

For drive-to-tree feller bunchers

The 1800 shear is suited to high volume pulpwood applications up to 460 mm (18 in) DBH for softwood and 380 mm (15 in) DBH in hardwood applications.

2000 shear

For drive-to-tree and track feller bunchers

The 2000 shear is suited to high volume pulpwood thinning and clear fell applications up to 510 mm (20 in) DBH in softwood and 405 mm (16 in) DBH in hardwood applications.



SAWS

Tigercat saws can be divided into two categories. Dual post saws are primarily mated to drive-to-tree feller bunchers, for use in smaller and uniformly sized timber characteristic of plantations. Single post felling saws with opposing clamp arms are more applicable to track feller bunchers and generally better suited to larger timber applications, natural stands and blowdown.

5000 bunching saw

For drive-to-tree and track feller bunchers

With an optimal strength-to-weight ratio, the 5000 series dual post saw is ideally suited to drive-to-tree and track feller bunchers in row thinning and final fell plantation applications. The 5000 saw achieves high productivity in applications where average DBH is under 405 mm (16 in).

5600 bunching saw

For drive-to-tree feller bunchers

The dual post 5600 is highly productive in plantation clear fell applications. Extremely robust, the 5600 is well suited to timber in the range of 205-510 mm (8-20 in) DBH.

5500 felling saw

For drive-to-tree feller bunchers

The 5500 combines the advantages of single post and dual post saws for enhanced versatility. The accumulating pocket is positioned closer to center for improved lateral control of large timber. With a wide throat, the 5500 is effective in mixed stands and large diameter saw timber in range of 205-585 mm (8-23 in) DBH.

5400 felling saw

For track feller bunchers

The single post 5400 is a light-weight saw ideally suited to thinning and final felling in 205-560 mm (8-22 in) DBH timber. The unique three-arm clamp and accumulating system and patented asymmetric geometry allow for parallel stem alignment and high capacity accumulating.

5702 felling saw

For drive-to-tree and track feller bunchers

The single post 5702 series is a "big timber" heavy-duty felling saw suited to a steady diet of 460-585 mm (18-23 in) DBH timber. With dual clamp and accumulating arms, the 5702 is highly productive in blow down, top-heavy hardwood, mixed stands and other tough duty cycle applications. The massive throat opening easily accommodates butt flare characteristic of lowland hardwood stands.



Replaceable wear liners

Although Tigercat felling saws use high-strength wear-resistant plate in critical wear areas, replaceable wear liners are factory installed over the most susceptible areas.

Benefits:

- Longer saw housing life
- Reduced wear on the saw blade and teeth
- Improves saw blade recovery
- Prevents perforation of the saw housing that could lead to uncontrolled discharge

Wrist options for track feller bunchers

All three track feller buncher wrist options have excellent hose routing through the centre of the adapter and head.

STANDARD 30° WRIST

Single-cylinder simple, light-weight design for most bunching applications

- 149 kN-m (110,000 lbf-ft) rotate torque
- Extreme duty wrist bearing
- Single 125 mm (5 in) bore cylinder

110° WRIST ROTATE TORQUE

Unique, adjustable rotation limits for one way high rotation

The boom adapter has 3 separate cylinder pin hole pairs:

Top pair +/- 18° rotation
Centre pair +/- 45° rotation
Bottom pair +/- 92° rotation

Any combination up to a maximum of 110° rotation is possible. Changing the rod pin position changes the rotate limits; easily adjusted in the field

- 113 kN-m (83,330 lbf-ft) maximum rotate torque
- Extreme duty wrist bearing
- Two identical heavy-duty cylinders
- Heavy duty structure and full guarding
- Favorable weight compared to motor drive wrists
- Excellent visibility and clear sight-line to the head

340° HIGH ROTATION WRIST

Ideal for blow-down, shovel logging and steep slope applications

Extreme duty wrist bearing

- Annular ball bearing with large diameter external gear and hardened teeth

'Forestry-duty' three-motor drive system produces 68 kN-m (50,000 lbf-ft) rotate torque

- Bolt-on assemblies for quick field service
- Parallel feed system allows continued operation if one motor fails

Durable structure and full guarding

- Computer-designed boom adapter with reinforcement at critical stress points for optimal strength-to-weight ratio
- Fully guarded gear, pinions and motors



Wear pad at saw blade entrance area into saw housing



Wear liner for full saw housing skirt (multi-piece)



Wear liner in side chip-discharge deflector (if equipped)



Standard 30° wrist



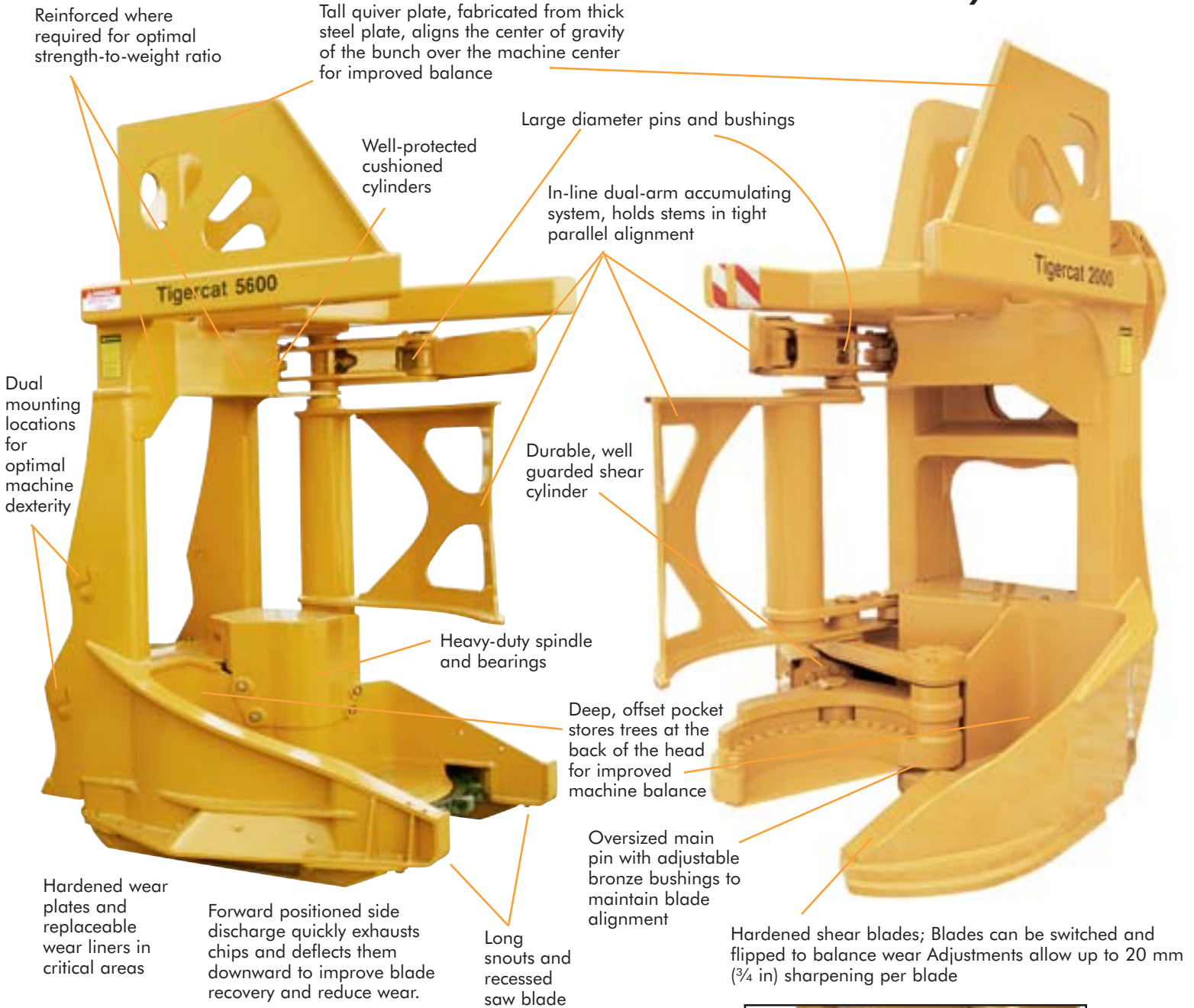
110° wrist



340° high rotation wrist

High capacity bunching heads

Twin-post design promotes excellent visibility



In small diameter wood, the key to optimizing system performance is in maximizing the number of trees felled per cycle. Tigercat bunching heads cut and accumulate a greater number of trees, improving system productivity.

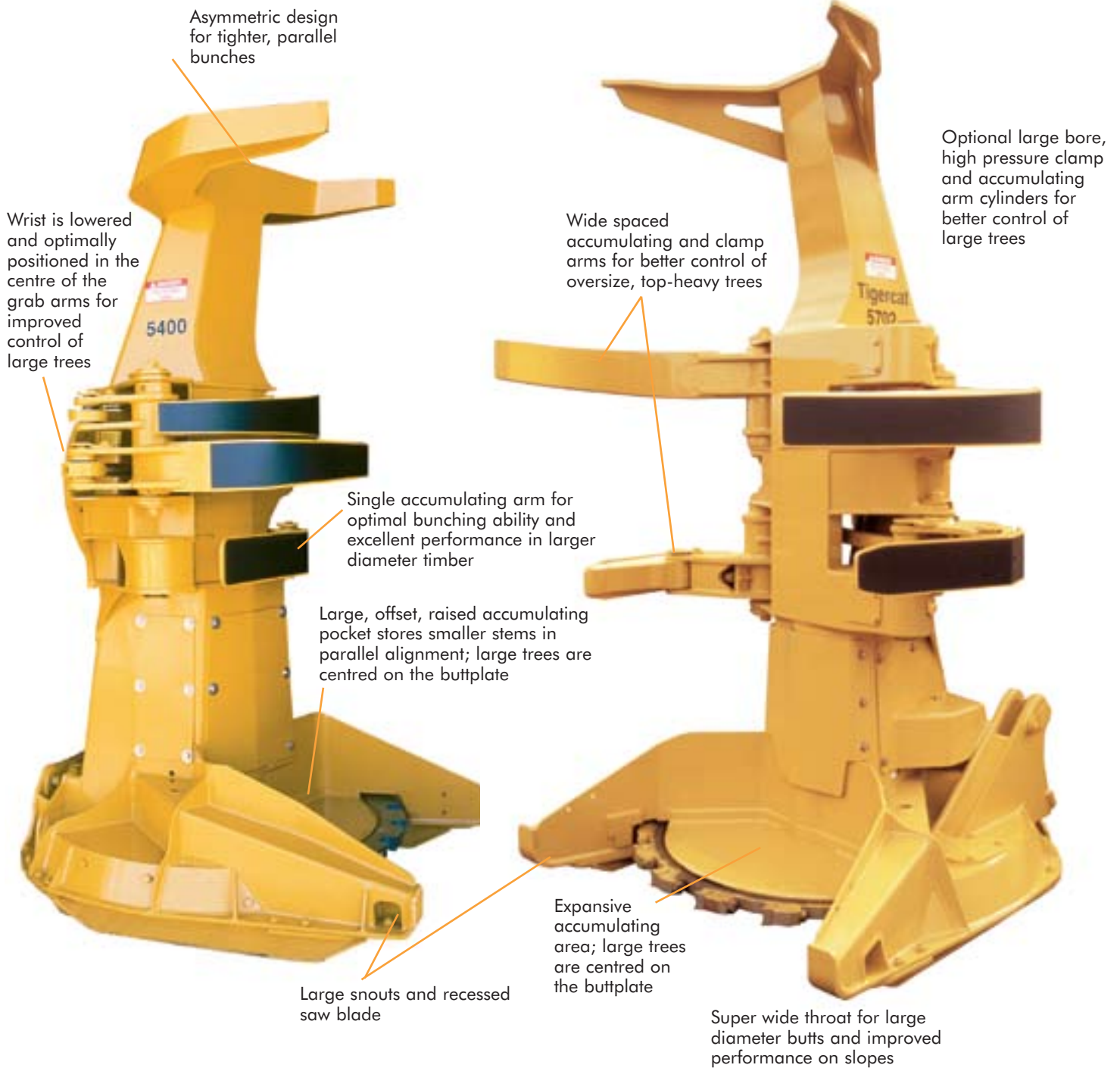
- Tigercat bunching heads reduce costly machine travel and swing
- Tigercat bunching heads produce larger, tighter, optimized skidder bunches

Tigercat dual post bunching heads hold more trees and lay down tight bunches in parallel alignment.



Large raised and offset pocket accumulates cut stems without hindering the operator's working sight-line

Versatile single post felling saws



By choosing the correct felling head, a relatively inexpensive yet important component of the full-tree harvesting system, the entire system's productivity is greatly enhanced.

Tigercat single post saws are designed to fell mature hardwood and softwood, while retaining the ability to accumulate large bunches of smaller and mixed diameter wood.

SPECIFICATIONS: TIGERCAT FELLING ATTACHMENTS

BUNCHING SHEARS

DUAL POST BUNCHING SAWS

SINGLE POST FELLING SAWS

1800

For drive-to-tree carriers only

2000

For drive-to-tree and track carriers

5000

For drive-to-tree and track carriers

5500

For drive-to-tree carriers only

5600

For drive-to-tree carriers only

5400

For track carriers only

5702

For drive-to-tree and track carriers

DIMENSIONS

HEIGHT (without skis) DTT	2 490 mm (98 in)	2 540 mm (100 in)	2 460 mm (97 in)	2 590 mm (102 in)	2 690 mm (106 in)	2 820 mm (111 in)
HEIGHT (without skis) Track	2 540 mm (100 in)	2 540 mm (100 in)	2 565 mm (101 in)			2 770 mm (105 in)
WIDTH	1 420 mm (56 in)	1 900 mm (75 in)	1 625 mm (64 in)	1 780 mm (70 in)	1 800 mm (71 in)	1 560 mm (61.5 in)
DEPTH	1 730 mm (68 in)	1 730 mm (68 in)	1 575 mm (62 in)	1 750 mm (69 in)	1 750 mm (69 in)	1 740 mm (68.5 in)
MAXIMUM FRONT OPENING			860 mm (34 in)	965 mm (38 in)	965 mm (38 in)	1 070 mm (42 in)
WEIGHT - DTT	2 430 kg (5,350 lb)	2 630 kg (5,800 lb)	2 175 kg (4,800 lb)	2 645 kg (5,830 lb)	2 695 kg (5,945 lb)	2 690 kg (5,930 lb)
BASE WEIGHT - Track	2 400 kg (5,290 lb)	2 560 kg (5,630 lb)	2 130 kg (4,690 lb)			2 385 kg (5,260 lb)

CUTTING BLADE

DISC DIAMETER	1 285 mm (50.5 in)	1 450 mm (57 in)	1 450 mm (57 in)	1 370 mm (54 in)	1 450 mm (57 in)
STANDARD DISC (Series 74)	1-piece, 57 mm (2 ¼ in) kerf				
Optional	Wide kerf and narrow kerf blades available				
TEETH	(16) rotatable; carbide or hardened steel	(18) rotatable; carbide or hardened steel	(18) rotatable; carbide or hardened steel	(18) rotatable; carbide or hardened steel	(18) rotatable; carbide or hardened steel
MOTOR	160 cc				
BLADE SPEED	1 275 rpm	1 150 rpm	1 150 rpm	1 150 rpm	1 150 rpm
SAW DRIVE	Direct drive; Variable displacement saw motor connected directly to blade drive shaft				
SHEAR BLADES	(2) identical threaded hardened steel	(2) identical threaded hardened steel			

HYDRAULIC CYLINDERS

ACCUMULATING (cushioned)	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore
Optional				95 mm (3.75 in) bore		95 mm (3.75 in) bore	
CLAMP (cushioned)	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore	90 mm (3.5 in) bore
Optional				95 mm (3.75 in) bore		95 mm (3.75 in) bore	
SHEAR BLADES	150 mm bore (6 in)	165 mm bore (6.5 in)					
Optional (special order)	115 mm bore (4.5 in)	127 mm bore (5 in)					

ARM CONFIGURATION

ACCUMULATING flexible	1	1	1	1	1	1	2
CLAMP fixed	1	1	1	1	1	2	2

WRIST OPTIONS (TRACK CARRIERS)

30° WRIST							
1 cylinder 127 mm (5 in) bore	Standard	Standard		Standard	Standard		
WEIGHT with wrist, boom adapter	3 200 kg (7,050 lb)	2 560 kg (5,640 lb)		2 895 kg (6,380 lb)	3 200 kg (7,060 lb)		
110° WRIST							
Adjustable; twin-cylinder							
115 mm (4.5 in) bore	Not available	Not available		Optional	Optional		
WEIGHT with wrist, boom adapter				2 920 kg (6,440 lb)	3 280 kg (7,225 lb)		
340° WRIST							
3-Motor drive	Optional	Optional		Optional	Optional		
WEIGHT with wrist, boom adapter	3 625 kg (7,995 lb)	3 165 kg (6,975 lb)		3 040 kg (6,700 lb)	3 320 kg (7,320 lb)		

OPERATING CAPACITIES

SINGLE CUT CAPACITY	460 mm (18 in) dia.	510 mm (20 in) dia.	510 mm (20 in) dia.	585 mm (23 in) dia.	585 mm (23 in) dia.	545 mm (21.5 in)	585 mm (23 in)
BUNCHING AREA							
OVER BUTTPLATE	0,46 m ² (4.9 ft ²)	0,50 m ² (5.4 ft ²)	0,52 m ² (5.6 ft ²)	0,42 m ² (4.5 ft ²)	0,68 m ² (7.3 ft ²)	0,34 m ² (3.7 ft ²)	0,36 m ² (3.9 ft ²)
OVER BLADE	0,53 m ² (5.7 ft ²)	0,62 m ² (6.7 ft ²)	0,62 m ² (6.7 ft ²)	0,55 m ² (5.9 ft ²)	0,8 m ² (8.6 ft ²)	0,46 m ² (5 ft ²)	0,50 m ² (5.4 ft ²)
BUNCHING 15 cm (6 in) trees	11	12	11	10	13	8-10	18-10

US PATENTS	5697412	5697412	5697412, 5794674, 5931210, 6152201, 6196106	5931210, 6152201, 6196106	5697412, 5794674, 5931210, 6152201, 6196106, 6363980	6363980, 6196106
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CDN PATENTS	2143155	2143155	2143155, 2209063, 2252235	2143155, 2209063, 2252235	2143155, 2209063, 2252235	2143155, 2209063, 2252235
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