

SATCO[®]

SAT420 FELLING GRAPPLE (DIRECTIONAL FELLING HEAD)



Using all the proven hydraulic components of the **SATCO[®] 630**, the **SATCO[®] 420** has proven to be a very versatile unit enabling operators to fall, bunch, stack and shovel whole stems. The 360° continuous rotation allows falling in any possible direction in relation to the base machine with a load out time of 85% of a conventional grapple which makes this an economical choice for many jobs.

A unique '**HOSE THROUGH CENTRE**' connection to the base machine which allows the hoses to travel through the centre line of the attaching pins. This prevents the hoses over-bending causing premature failure and protects the hoses from damage, especially in tree felling applications.

The **SATCO[®] 420** Felling Grapple saw unit is supported by a large 30cm (12") diameter slew bearing making it a very robust unit especially when falling. The saw adjuster is a heavy duty manual adjuster unit running a 36" bar with 3/4" chain. **SATCO[®]** also use a unique locking system for the saw sprocket to prevent broken drive shaft keys and damaged saw motor shafts.

No electrical system down to the felling grapple makes it easy to maintain and allows operator to quickly change to a loading grapple with ease.

360° continuous rotation makes falling large diameter trees easy, a front cut can be made without having to reposition the base machine.

Weighing in at 1450kgs (3100lbs) and requiring 200lpm (52.8gpm) (US) at 280bar (4000psi) this felling grapple can be attached onto any base machine in the range of 16-24 tonne. Because the **SATCO[®] 420** can be run on a small carrier the horsepower requirement is minimal compared to running a fixed disc saw head. These factors all amount to less base machine stress and great fuel efficiency.

Giving you the ability to increase your production while bringing down your running costs.

Constructed using high grade materials and manufactured using the best robotic welding wire for a far superior weld.

Key features include:

- 8cm (3") pins for strength and long life
- Extra 'dead length' in cylinders for superior seal life
- Oil impregnated bushes for less wear
- Well protected hydraulic system
- Bar release valve for saw chain replacement or tensioning
- Fully hydraulic - no electrical system required down in the grapple
- Removable covers for easy servicing
- 360° continuous rotation - **SATCO[®] HOSE THROUGH CENTRE** system
- Heavy duty saw
- Optional saw bar out light
- Shear bolts to prevent bending saw swing arm

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LOGGING ATTACHMENTS

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SAT420 20" FELLING GRAPPLE

Weight:	1450kg	3100lbs
Capacity:	10 - 50cm	4 - 20"
Close Minimum:	10cm	4"
Open Maximum:	95cm	38"
Rotation:	Heavy duty continuous SATCO[®] HOSE THROUGH CENTRE	
Saw:	36" saw bar - 3/4" chain, max cut 73cm (29") 45cc Rexroth saw motor	
Carrier Size:	16 - 24 tonne	

The **SATCO[®]** 420 Felling Grapple resume includes:

- Fall, bunch and load for Eucalyptus extraction
- Fall and bunch for ground based crews
- Fall and bunch for a swing yarder grapple
- Pulling stems through a static delimber
- Windblown sites - safe for handling fallen or (hung up) stems
- Truck loading
- Woodlots
- Sorting and stacking stems
- Optional saw bar out light
- Sleep slope tethering



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