

SATCO[®]

422DB 22" DEBARKER



The **SATCO**[®] 422DB Debarker was developed and built with the Eucalyptus logger in mind. **SATCO**[®] Ltd went to the Eucalyptus logger to see what they needed and wanted from a Eucalyptus debarking head and this is what they came up with.

The **SATCO**[®] 422DB Debarker is designed to attach to a 20 - 25 tonne base machine and has a capacity of 5cm (2") diameter to 56cm (22") diameter.

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 'fall, delimb and debark' applications.

The 4 roller system. The feed rollers close around the stem similar to a camera lens shutter, so maximum coverage is achieved. The 4 feed roller geometry also allows the operator to drive right off the end of the butt leaving two rollers in contact with the stem to drive the tree forward again. This makes removing bark right down to the end of the butt easy. **SATCO**[®] uses synchronised motors to drive the feed rollers, this minimises slippage and maximises drive. **SATCO**[®] also builds its own feed roller hubs with large taper roller bearings so all the motor does is drive the feed rollers, there is no side load on motors this in-turn maximises the life of the drive motor. Motors can be serviced easily as they externally bolt in.

The SATCO[®] saw system. The saw unit is supported by a large 30cm (12") diameter saw bearing making it a very robust unit especially when falling. The saw cylinder is

mounted inside the saw box protected from saw chain damage. **SATCO**[®] also use a unique locking system for the saw sprocket to prevent broken drive shaft keys and damaged saw motor shafts.

The **SATCO**[®] Plus 1 measuring software is designed and supported in house. The **SATCO**[®] 422DB Debarker is supplied with **SATCO**[®] Plus 1 measuring as standard.

SATCO[®] also supply and control the rotator motor from this valve. The advantage is we can supply a controlled oil flow extending the life of the motor and preventing premature failure, only four hoses are required to connect the processor to the base machine.

SATCO[®] 422DB Debarking heads are constructed using high grade materials and manufactured using the best robotic welding wire for a far superior weld.

Key features include:

- Twin tilt cylinders
- Cast cutting edges for easy field replacement
- 6cm pins for strength and long life
- Control valve is rated at 200lpm (52.8gpm) (US) per section at 420bar (6100psi) with proportional pressure
- Extra 'dead length' in cylinders for superior seal life
- Long life solenoids
- Removable covers for easy servicing
- Reliable components
- **SATCO**[®] **HOSE THROUGH CENTRE** system
- Heavy duty saw
- All pivot pins are retained using **SATCO**[®]'s '**DEAD LOCK**' pin retention system, a special clip system adding to the strength of chassis with no extra weight



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LOGGING ATTACHMENTS

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422DB 22" 4 ROLLER DEBARKER



Weight:	2800kg	6160lbs
Max Cutting Diameter:	63cm	25"
Max Feed Speed:	5.8m/s	19f/s
Max Feed Force:	28kn	6300lbf
Max Delimb/Debarking Capacity:	56cm	22"
Min Delimb/Debarking Capacity:	5cm	2"
Max Head Open:	80cm	32"
Carrier Size:	20 - 25 tonne	
Control Valve:	Rexroth M4-15	
Drive Rollers:	4 x 38cm diameter	
Drive Motors:	2x Danfoss OMV500HD synchronised 2x Danfoss TMVW500 synchronised	
Main Saw:	(Optional saw limiter) Heavy duty 3/4" chain, 36" bar, 45cc Rexroth motor	
Delimiting Knives:	2 cast upper moving, 1 upper fixed	
Rotator:	Heavy duty, 340° SATCO[®] HOSE THROUGH CENTRE	
Measuring:	SATCO[®] Plus 1	



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