

API PT. ANDALAN PENGINEERAN INDONESIA

The Kensington Office Tower 15th floor unit 1525
Jl. Boulevard Raya No.1, RW.17, Kelapa Gading Timur
Kec. KelapaGading, Jakarta Utara 14240 – INDONESIA

ULTRATREX MULCHER UM80, UM130, UM200 & UMB210

UM80



Wood Mulcher for 5 to 10 ton excavators.

Specification Table of UM Wood Mulcher

						
Mode Name	Dimensions	Oper. Width(mm)	Cutter(ea)	L/min	Bar	Suitable carrier(ton)
UM-80	985×750×670	800	12	40~100	210	5~10

* Product appearance, specifications, etc. may be changed without prior notice for product improvement.
UM-80 : Crushing width 800mm, weight 470kg (Including climbing claws)

UM130



Wood Mulcher for 10 to 15 ton excavators.

Specification Table of UM Wood Mulcher

						
Mode Name	Dimensions	Oper. Width(mm)	Cutter(ea)	L/min	Bar	Suitable carrier(ton)
UM-130	1405×750×735	1000	16	60~120	250	10~15

* Product appearance, specifications, etc. may be changed without prior notice for product improvement.
UM-130: Crushing width 1000mm, weight 570kg (including climbing claws)

UM200

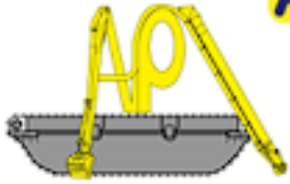


Wood Mulcher for 20 to 35 ton excavators.

Specification Table of UM Wood Mulcher

						
Mode Name	Dimensions	Oper. Width(mm)	Cutter(ea)	L/min	Bar	Suitable carrier(ton)
UM-200	1750×750×1000	1500	22	120~250	300	20~35

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UM-200: Crushing width 1500mm, weight 1120kg (20 ton class), 1220kg (30 ton class)



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Features of UM80, UM130, UM 200 Wood Mulcher

- This excavator tree shredder for professionals is confident in its excellent durability and powerful performance.
- This is a product specialized for removing overgrowth from idle land, removing overgrowth from fire roads, shredding bamboo, and removing unnecessary overgrowth along roadsides and rivers.
- To enable work in rough work environments, ATOS60 high-strength steel plate, skis, and shredding auxiliary blades are manufactured using HARDOX-500 wear-resistant steel.
- The shredding blade is made of genuine HARDOX-550 and is manufactured using a sharp planing method.
- Made with the best parts to minimize maintenance costs due to replacement of consumables.
(Piston motor (bent axis, SUNFAB (Sweden HAWE)), timing pulley, timing belt, self-aligning roller bearing, etc.)

Motor Protection Hydraulic Block



Prevents motor damage due to overpressure prevention of motor reverse rotation and inertia rotation

Timing Belt and Pulley



Infinite durability, power transmission equivalent to a chain reduce consumable replacement costs

Auxiliary Shredding



Equipped with an auxiliary blade that can shred wood into smaller pieces made with Hardox-500

Additional options for UM Wood Mulcher



Mount Rail

It is possible to attach a variety of top-mount or claw accessories

Climbing Claws

- This is an option for climbing slopes and escaping from wetlands.
- Made from Athos high-strength steel material.

High-Strength Pipe Shredding Shaft



- * The shaft made from high-strength pipe is resistant to both impact and bending.
- * The shredding shaft accumulates rotational energy to shred wood.
- * It is manufactured so that the blade can be fixed without damage in any working environment.
- * Hardox-550 waterjet processed blade bracket and bite limiter circular guide plate are applied.
- * Trees can be shredded into small pieces.

Hardox 550 Shredding Blade

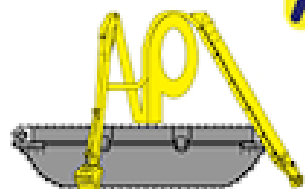


- * Hardox - Made of 550 material with a sharp planer method to finely crush wood.
- * Made with double blades so that when the shredding blade wears out, it can be used on the other side

Tungsten Carbide Super-hard Shredding Blade



- * Crushing blade that can crush soil with stones
- * Excellent durability due to carbide material

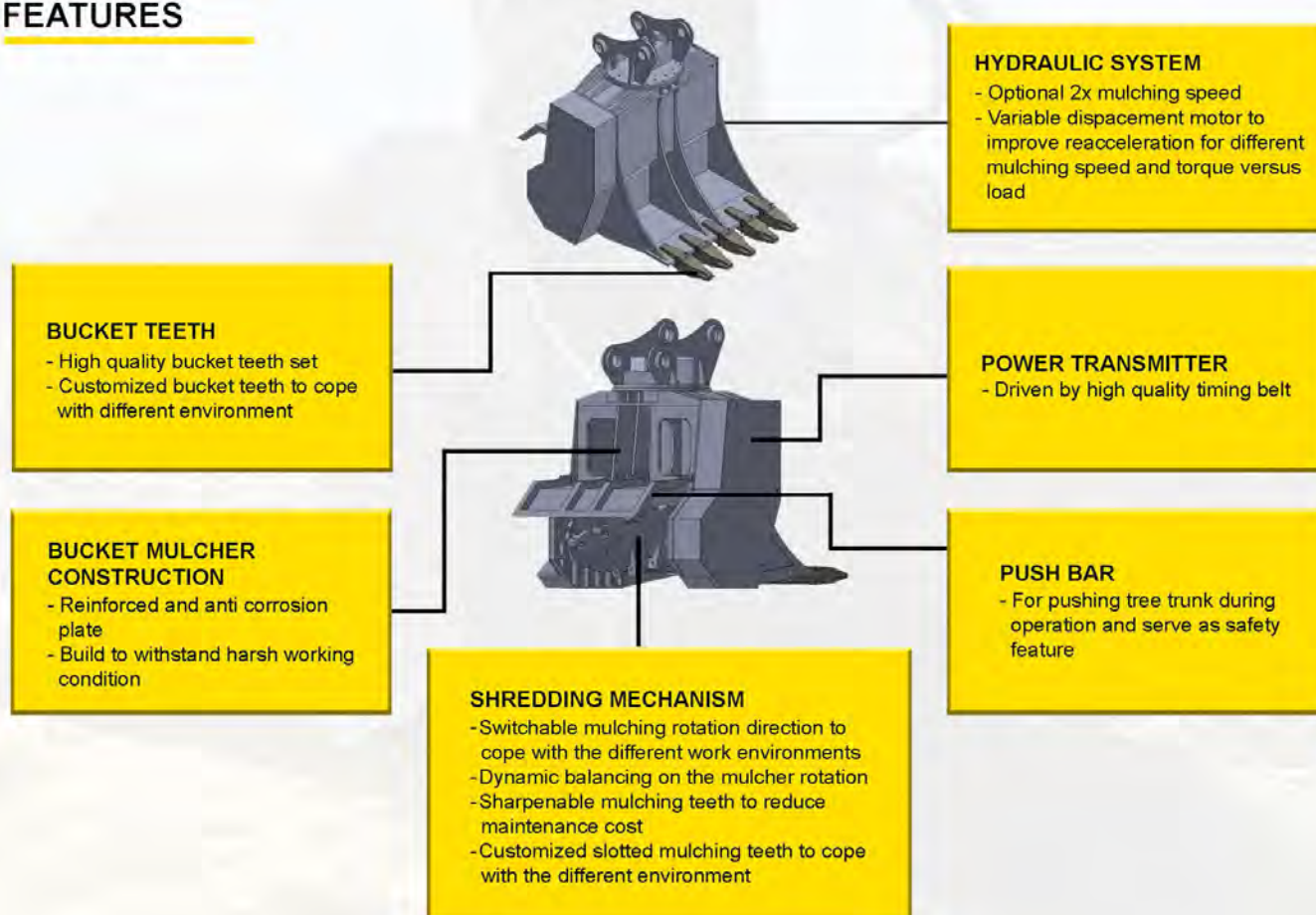


BUCKET MULCHER UMB210

INTRODUCTION

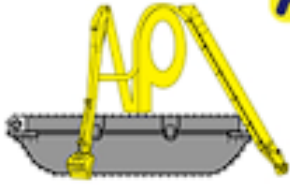
Ultratrex Bucket Mulcher is a versatile and innovative attachment for heavy-duty vegetation, landscaping and agricultural machinery designed to simplify and expedite material processing task. Combining the functions of a bucket and a mulcher, it allows to scoop, shred, and process organic material like trees, branches and debris in one seamless operation. This dual functionality makes the bucket mulcher as an essential tool to efficient site clearing, waste management, soil improvement, composting and ground preparation.

FEATURES



APPLICATION

- Land clearing and site preparation
- Landscaping maintenance
- Forestry and logging support
- Erosion control
- Weed control, soil preparation, and crop residue management
- Composting and waste management



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BUCKET MULCHER UMB210

FUNCTION

- To cut and grind tree trunk or vegetation into particles (mulch)
- Not only meant for mulch, the unique designed of the bucket allow light duty digging work job, root/stump excavation
- The bucket also can be use to transfer of cleaning mulch after grinding process
- Innovation of mulcher bucket gave new impetus to replanting cycle

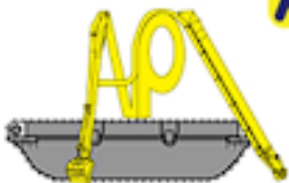


PROBLEM FACE ON REPLANTING

Rhinoceros Beetle

Ganoderma Disease





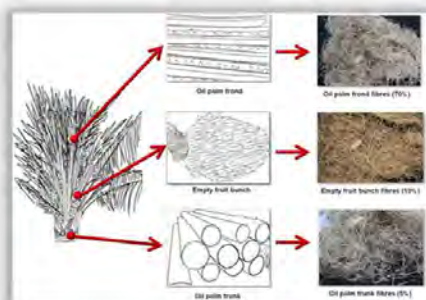
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BUCKET MULCHER UMB210

REPLANTING METHODOLOGY
(BUCKET MULCHER VS CHIPPING + PULVERIZER)

BUCKET MULCHER (THE FUTURE OF REPLANTING METHODOLOGY)



Mulching Standing
Palm Oil Tree



Mulching Frond



Mulching Root



Mulching Palm Oil
Trunk

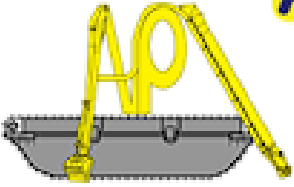


Mulching Standing
Palm Oil Tree

BUCKET MULCHER BIOMASS OUTPUT & NUTRIENT (USE AS A FERTILIZER)

Oil Palm Biomass	Dry matters (tonne / hectare)	Nutrient (kg / hectare)			
		N	P	K	Mg
Trunk	75.5	368.2	35.5	527.4	88.3
Fronds (replanting)	14.4	150.1	13.9	193.9	24.0
Fronds (pruning)	10.4	5.4	10.0	139.4	17.2
Empty fruit bunches	1.6	107.9	0.4	35.3	2.7

Table 2.2: Nutrient composition of oil palm biomass



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BUCKET MULCHER UMB210

REPLANTING METHODOLOGY
(BUCKET MULCHER VS CHIPPING + PULVERIZER)

CHIPPING METHODOLOGY



Pushing down old tree
with Excavator & Chipping
the trunk with thickness 2-3"

Excavate Stump & Root
Masses (1.5mx1.5mx1.0m)

Wait for **6-9 months** chunk
of chipped decomposite
& degrade

CHIPPING + PULVERIZER METHODOLOGY

CHIPPING



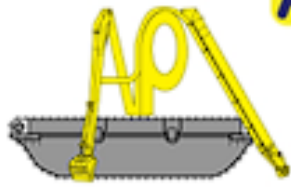
Pushing down old tree
with Excavator & Chipping
the trunk with thickness 2-3"

Excavate Stump & Root
Masses (1.5mx1.5mx1.0m)

PULVERIZER



Using Another Excavator
Pulverizer to smaller size
for easy to degrade take
another **1-3 months**

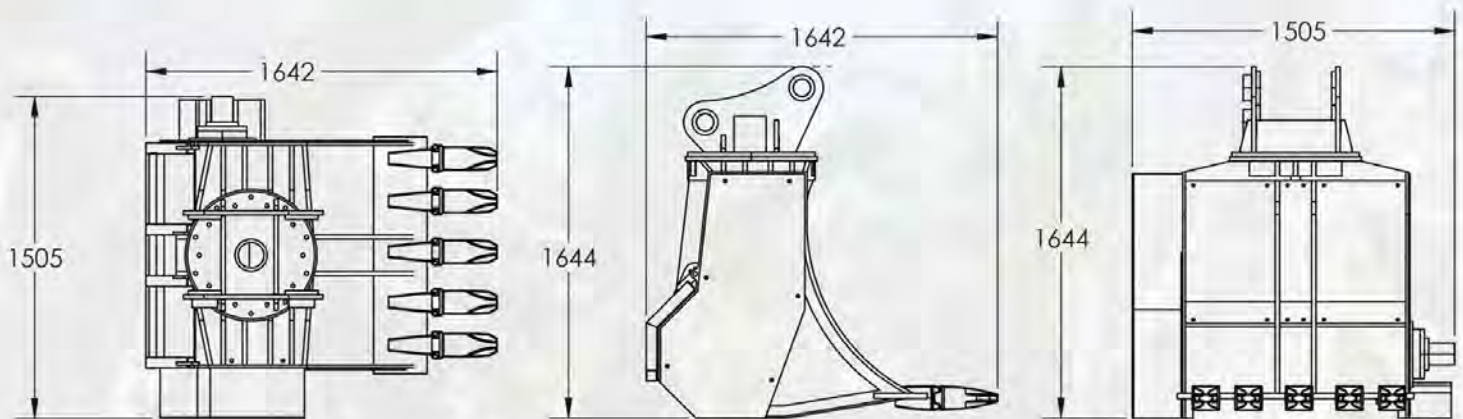


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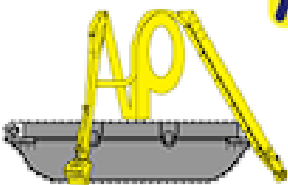
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BUCKET MULCHER UMB210

TECHNICAL SPECIFICATION



Model	UMB210
Excavator Weight (t)	20
Rotor Width (mm)	550 x 1000
Rotating Speed At Motor (rpm)	3000
Number of Blades	16
Oil Pressure (psi)	5000
Oil Flow (l/min)	310
Overall Weight (kg)	1450



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