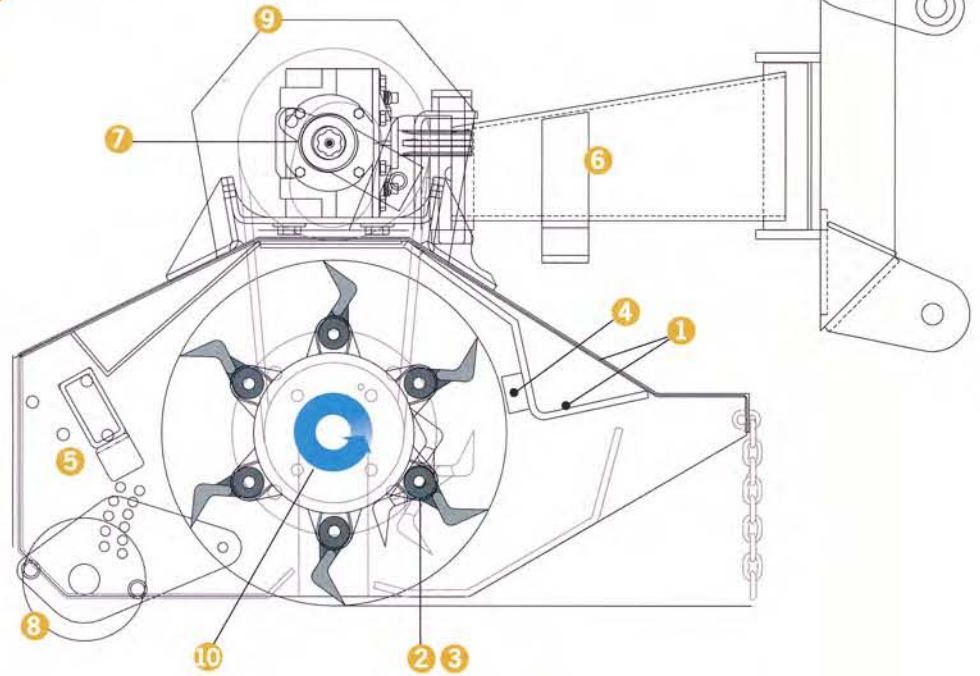




the 750 series

The wedge shape of the OMF's low housing profile **1** sweeps branches up away from the mouth of the flail for low impact passage beneath high density plantings. The shape of the steel plate housing— actually two formed layers, strengthens the shell structure. The liner is $\frac{3}{8}$ " plate. The skin is $\frac{3}{16}$ " plate.

The OMF uses a dual purpose mowing/ shredding blade, the CROP-CHOP Hammer **2**. The hammer, designed by Rears, is custom cast in the US and through hardened for long edge life. The fan shape of the hammer provides an extra wide cutting surface and creates a vacuum within the housing, lifting cuttings into the blade path.

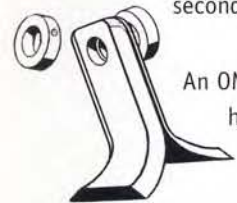


Hammers are hung close to the mandrel surface from $1\frac{1}{2}$ " thick rotor pads **3** and mounted in a spiral pattern around the rotor to minimize horsepower consumption— a design most dramatically appreciated when devouring heavy loads.

The pads are profiled to allow the hammer to freely swing. At no point will the hammer bind. The blade swings on a $\frac{3}{4}$ " Grade 9 bolt.



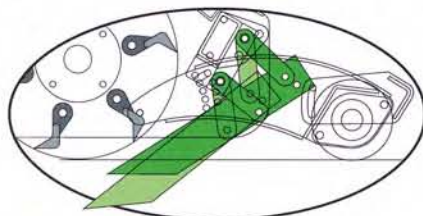
The flail housing is lined with a row of shear teeth **4**. At operating speed, each hammer crosses the teeth 40 times a second, gnashing any material caught between.



An OMF rotor can be dual balanced to accommodate hammers or shredding knives. Rears shredding knives are formed alloy steel; heat treated and reversible for long edge life. Hardfacing is optional.

The discharge of the OMF can be sealed by a three-position recycling door **5**. With the door completely closed in heavy cuttings, wood chips are trapped in the blade path and pulverised until small enough to settle beneath the roller. When mowing, the recycling door is opened to lay an even carpet of cuttings behind the flail.

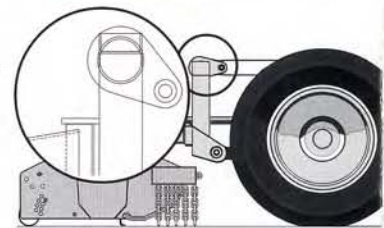
Floating rakes are available to comb uneven ground and lift prunings into the blade path. When rakes shouldn't touch the ground, simply adjust the minimum rake height.



A hydraulic offset pantograph **6** is a standard feature of the OMF. Move easily between plantings— set the offset to get the most from each pass. The OMF is also available with a fixed mount, a manual offset, or with Rears' push-pull package. With the push-pull system, mount the OMF to the front or rear of your tractor.

Illustrated above, from the left: standard OMF configuration with upright belt housing; low profile belt housing (or vineyard profile); fixed center mount.

A rotating top link pad connects to your tractor's 3-point top link, allowing the OMF to float over terrain contours.



push-pull OMF package in vineyard

Our jackshaft tensioner **7**, below, is built to absorb the radial and overhung loads on the jackshaft.



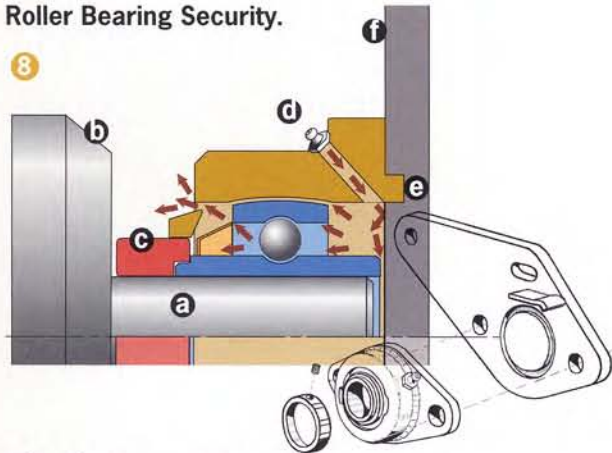
Dial in your proper drive belt tension.

Our simple jackshaft tensioning system, right, pulls drive belts to their proper tension quickly—tighten one nut until the indicator registers the proper tension.



Roller Bearing Security.

8



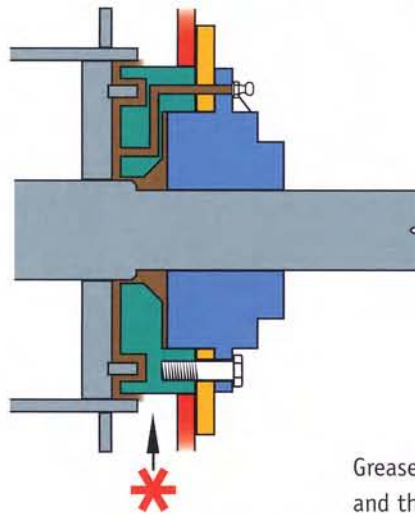
a, b 1³/₄" dia. roller shaft in 6⁵/₈" dia. roller.

c Rears roller bearing: a triple seal, two bolt flange bearing with piloted steel housing, gold, and eccentric lock collar, red. Installed with antiwrap seal protector.

d Positive greasing: pilot ring locks with roller plate, e, and seals the rear of the bearing. Grease purges the bearing and cleans the seals.

e, f Pilot ring on the bearing housing mounts into a machined slot in the roller pivot plate, f. This piloted steel joint, not the bearing mount bolts, shoulders the weight of the flail.

The 750 series OMF flail uses a double row spherical roller bearing with oversize rollers and an eccentric locking collar **10**. This rotor bearing is nested in our labyrinth grease seal, illustrated at right and below.



- labyrinth seal
- rotor bearing
- flail housing
- rotor/shaft
- bearing mount plate
- grease

Grease fills the cavity between the labyrinth seal and the rotor, blocking the entrance of debris from within the flail housing (at point *). Grease pumped into the labyrinth renews this seal for unequalled bearing protection.

9



machine series	profile height	
	outboard	drive end
a 200	16.80"	28.30"
b 750	19.20"	31.00"
c 750 vineyard	19.20"	22.90"
d 200 fixed mast	16.80"	23.20"



7' 750 series OMF

		200 series OMF		750 series OMF	
		standard OMF	vineyard OMF	standard OMF	vineyard OMF
1	Cutting Width	4' - 7'	4' - 7'	4' - 9'	4' - 9'
2	Overall Width	15" over swath	15" over swath	15" over swath	15" over swath
3	3 point mount	Category 1 & 2 pins	Category 1 & 2 pins	Category 1 & 2 pins	Category 1 & 2 pins
4	Top link system	Floating top link pad	Floating top link pad	Floating top link pad	Floating top link pad
5	PTO speed	540 or 1000 RPM	540 RPM or 1000 RPM	540 or 1000 RPM	540 or 1000 RPM
6	PTO drive	Shielded, low friction, rolled spline shaft. ASAE cat. 4 U-joints.		Shielded, low friction, rolled spline shaft. ASAE cat. 6 U-joints.	
7	HP requirement	7 - 10 HP/foot	7 - 10 HP/foot	7 - 10 HP/foot	7 - 10 HP/foot
8	Gearbox*	4' - 6': 80 HP Rears	4' - 6': 80 HP Rears	4' - 6': 80 HP Rears 7' - 9': 85 HP Comer	4' - 6': 80 HP Rears 7' - 9': 85 HP Comer
9	Drive belt	4/5VX notched powerband	4/5VX notched powerband	4/5VX notched powerband	4/5VX notched powerband
10	Belt tension system	Greaseable jackshaft tensioner with tension indicator			
11	Rotor speed	Rears Gearbox @ 540 RPM: 2395 RPM Comer Gearbox @ 540 RPM: 2361 RPM Rears Gearbox @ 1000 RPM: 2391 RPM			
12	Knife tip speed	Rears Gearbox @ 540 RPM: 10,268 FPM Comer Gearbox @ 540 RPM: 10,120 FPM Rears Gearbox @ 1000 RPM: 10,248 FPM			
13	Cutting height	0" - 4 ¹ / ₂ " set with gauge roller	0" - 4 ¹ / ₂ " set with gauge roller	0" - 4 ¹ / ₂ " set with gauge roller	0" - 4 ¹ / ₂ " set with gauge roller
14	Rotor size	6 ⁵ / ₈ " dia., .432" wall	6 ⁵ / ₈ " dia., .432" wall	8 ⁵ / ₈ " dia., .50" wall	8 ⁵ / ₈ " dia., .50" wall
15	Rotor bearing	1.9375" double spherical roller bearing with anti-wrap		2.4375" double spherical roller bearing with grease labyrinth seal and anti-wrap	
16	Gauge roller	6 ⁵ / ₈ " dia. gauge roller & triple seal bearing with piloted steel housing and anti-wrap seal protection			
17	Pantograph offset*	4': +2" - +12" offset 5': +2" - +18" offset 6'-7': +2" - +24" offset		4': +2" - +12" offset 5': +2" - +18" offset 6'-9': +2" - +24" offset	4': 0" - +6" offset 5': 0" - +12" offset 6': 0" - +18" offset 7': 0" - +15" offset 8',9': 0" - +18" offset
18	Blades	FL930 knife FL948 hammer		OM750 hammer 700 series* FL940 knife FL930 knife	
19	Rotor pad/ Blade hanger bolt	3 ⁴ / ₈ " rotor pad with bushing pressed in bore 5 ⁸ / ₈ " x 4" Grade 9 bolt		1 ¹ / ₂ " rotor pad with 3 ⁴ / ₈ " bore 3 ⁴ / ₈ " x 5 ¹ / ₈ " Grade 9 bolt 700 series* 3 ⁴ / ₈ " rotor pad with bushing 5 ⁸ / ₈ " x 4" Grade 9 bolt	
20	Shear bar	Fixed tooth shear bar	Fixed tooth shear bar	Fixed tooth shear bar	Fixed tooth shear bar
21	Flail housing	Double wall housing: (2) formed 3 ¹⁶ / ₁₆ " plates		Double wall housing: a 3 ¹⁶ / ₁₆ " skin and a 3 ⁸ / ₈ " liner	
22	Skid shoes	retreadable	retreadable	retreadable	retreadable
23	Flail mouth guard	chain, rubber belt optional	chain, rubber belt optional	chain, rubber belt optional	chain, rubber belt optional
24	Rear recycling door	3 position door	3 position door	3 position door	3 position door
25	Rakes	Floating rakes available	Floating rakes available	Floating rakes available	Floating rakes available
26	Housing height*	16.80"	16.80"	19.20"	19.20"
27	Belt housing height*	28.30"	23.20"	31.00"	22.90"
28	Unit weight*	6': 1598 lbs. +/- (110lbs/ft + blades)	6': 1548 lbs. +/- (110lbs/ft + blades)	6': 2074 lbs. +/- (155lbs/ft + blades)	6': 2154 lbs. +/- (155lbs/ft + blades)

Cover, from the top:

750 series OMF in
filbert prunings.

200 series 1989 OMF
in apple prunings.

750 series OMF in
apricot prunings.



line NOTES

- 8** For 540 RPM machines. All 1000 RPM units delivered with Rears gearbox
- 8** 6' standard OMF with a fixed center mount delivered with a Comer gearbox
- 17** For hydraulic and manual offset machines. When OMF is centered behind the tractor, offset = zero
- 18,19** A **700 series** machine is a **750 series** machine with **200 series** rotor pads
- 26** Height to the top of the flail housing when cutting height = zero
- 27** Height to the top of the belt housing when cutting height = zero
- 28** Standard configuration.

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