

# Cat<sup>®</sup> Mechanically Attached Wear Plate System



## A Cost Effective Shield of Protection

The Cat Mechanically Attached Wear Plate System (MAWPS) is a reliable wear-protection system that lowers your operating costs. There are two basic MAWP systems—one to protect the inside of truck bodies and another to protect outside surfaces such as bucket bottoms. Both systems offer a practical alternative to more labor intensive wear plates.

- Unique compression retainer results in “hammerless” installation
- Simple installation reduces downtime
- Long wear life reduces operating cost
- Wear plates do not fall off
- Base plate can be installed on virtually any flat or moderately curved surface
- Wear indicator signals when plates should be replaced

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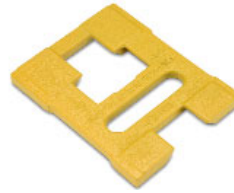
# Solid Mechanically Attached Wear Plate System



compression retainer



solid wear plate



weld-on base plate



complete assembly

The solid MAWPS is designed for extended wear protection in a variety of areas, such as bucket bottoms and sides, dozer push arms, hydraulic excavator ski runners and sides and crusher hoppers. It offers equivalent wear protection at less weight than weld-on or bolt-on wear plates. The compression retainer provides a hammerless method of installation and removal, reducing downtime during replacement. It allows for quick replacement and makes it easy to swap out wear plates. The retainer snaps into place to firmly hold the wear plate to the base plate.

## Models and Dimensions

The Solid MAWPS is available in four different series.

### Solid Mechanically Attached Wear Plate System

Series	20 Series	30 Series	40 Series	50 Series
<b>Models</b>	980, 988, 345B, other similar sizes	990, 992, 375, 5080, other similar sizes	5110, 5130, other similar sizes	994, 5230, other similar sizes
<b>Base Plate (thickness)</b>	18 mm .7 in	22 mm .86 in	29 mm 1.14 in	29 mm 1.14 in
<b>Wear Plate (dimension) Standard</b>	225 mm x 200 mm x 35 mm 8.85 x 7.87 x 1.38 in	275 mm x 200 mm x 45 mm 10.8 x 7.87 x 1.77 in	275 mm x 200 mm x 60 mm 10.8 x 7.87 x 2.36 in	300 mm x 250 mm x 75 mm 11.81 x 9.8 x 2.95 in
<b>Wear Plate (dimension) Heavy Duty</b>	225 mm x 200 mm x 50 mm 8.85 x 7.87 x 1.97 in	275 mm x 200 mm x 60 mm 10.8 x 7.87 x 2.36 in	275 mm x 200 mm x 75 mm 10.8 x 7.87 x 2.95 in	300 mm x 250 mm x 100 mm 11.81 x 9.8 x 3.93 in

Note: Always add a new compression retainer when installing a new wear plate.

## Improving Your Bottom Line

MAWPS allows you to achieve a greater payload over other manufacturer's wear protection systems without exceeding gross vehicle weight limits. Exceeding those limits can result in greater tire wear, more fuel consumption, and a higher possibility of structural, drive train, and engine damage which all can greatly increase operating costs. The chart below shows the difference between the Cat MAWPS system and other weld-on or bolt-on systems.

### Solid Mechanically Attached Wear Plate System

Part	Wear Material	Total Weight of Assembly	% Wear Material of Total Assembly Weight
Cat <b>138-0022</b> (Standard)	14 mm (.55 in)	9.32 kg (20.5 lb)	68%
Other systems (Standard)	8 mm (.31 in)	8.27 kg (18.2 lb)	44%
Cat <b>138-0023</b> (Heavy Duty)	29 mm (1.14 in)	14 kg (30.8 lb)	94%
Other systems (Heavy Duty)	21 mm (.83 in)	11.20 kg (24.7 lb)	85%

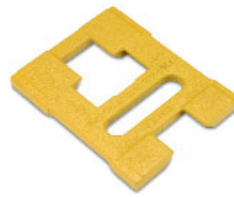
# Skeletal Mechanically Attached Wear Plate System



compression retainer



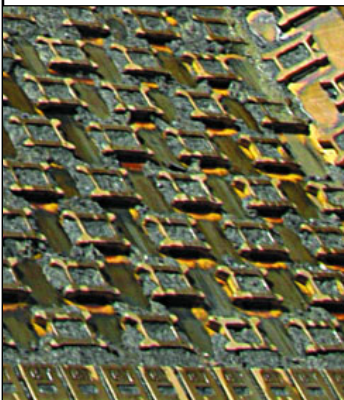
skeletal wear plate



weld-on base plate



complete assembly



The skeletal MAWPS is designed for extended wear protection in virtually any truck body location, including duck tails. The skeletal wear plate traps material in and between the plates providing additional protection because of material-on-material wear instead of wearing steel body products. This system, like the solid MAWPS, uses a compression retainer to hold the wear plate in place in a hammerless process. It also makes it easy to swap out plates.

Installing Skeletal MAWPS takes less time than installing a complete body liner. Worn wear plates can be replaced during scheduled preventive maintenance, increasing truck availability.

The Skeletal MAWPS is available in two thicknesses, standard and heavy duty.

## Skeletal Mechanically Attached Wear Plate System

Plate	Wear Plate	Base Plate
<b>Standard</b>	12.9 lb (5.9 kg) 8 x 12.2 x 1.38 in 202 mm x 310 mm x 35 mm	5.35 lb (2.43 kg) .70 in 18 mm thick
<b>Heavy Duty</b>	18.3 lb (8.4 kg) 8.15 x 12.2 x 1.77 in 207 mm x 310 mm x 45 mm	5.35 lb (2.43 kg) .70 in 18 mm thick

## Improving Your Bottom Line

The standard Cat Skeletal MAWPS is 58.5% lighter than other manufacturer's systems. The heavy duty Cat Skeletal MAWPS is 46.4% lighter while offering virtually the same amount of wear material. This weight differential allows you to carry greater amounts of material which contributes to the bottom line.

## Skeletal Mechanically Attached Wear Plate System

Part	Wear Material	Total Weight of Assembly	% Weight as Compared to Other Systems
Cat 138-0024	15 mm (.59 in)	8.6 kg (18.7 lb)	58.5%
Cat 138-0025	25 mm (.98 in)	11.1 kg (24.1 lb)	46.4%
Other systems	25 mm (.98 in)	20.7 kg (45 lb)	—

# Mechanically Attached Wear Plate System

## Superior Retention

The Cat retention system provides a secure locking mechanism for wear plates, which eliminates plates falling off and possibly damaging other equipment such as crushers.



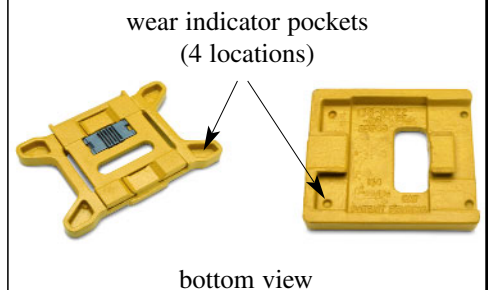
## Long Wear Life

The wear plates are made of Cat formulated through-hardened DH-2™ steel and are fitted to a permanent weld-on base plate. The compression retainer is positioned low in the base plate, allowing more of the wear plate to be worn away before replacement. The base plate is made from slightly softer steel so it can be welded into place. The wear plate entirely covers the base plate so the base plate is not subjected to wear by material. More efficient use of total material increases wear life.



## Quick Replacement, Reduced Downtime

The under side of each wear plate has recessed pockets—or blind holes—cast into each corner to serve as a wear indicator, making inspections quick and easy. It only takes about two minutes to remove and replace a worn wear plate. Common tools are all that is needed to insert the compression retainer.



## Flexible Application

The base plate can be welded on nearly any flat or moderately curved surface needing wear protection. The system is designed to take loads from any direction regardless of the orientation of the base to the load.

### Designed for:

- Cat 980 – 994 Wheel Loaders
- Cat 345 – 375 Excavators
- Cat 5080 – 5230 Mining Shovels
- Other brand machines of a similar size
- Truck Bodies
- Dozers
- Hoppers and Crushers

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