

KM70 series - Front Mounted Sweepers

For tractors (with front linkage) and front loaders 80 - 250hp

KM 25070 H width 250 cm

KM 30070 H width 300 cm



- This is our largest range of professional, heavy duty sweepers with hydraulic drive and manual angling.
- They sport our most robust construction techniques, with CNC folded and welded, heavy gauge steel.
- Specially designed hydraulic valve system with brush over-run protection and pressure relief valve prevents wear on the drive.
- Collector emptying is a simple operation. The integrated hydraulic system requires just one double acting hydraulic service from the tractor to operate both the sweeper and collector.
- An inboard variable speed hydraulic drive motor, with constant tension duplex drive chain allows greater power to the brush and negates chain slippage.
- Our Ø 70cm, five row combi brush moves large, heavy debris with ease.
- The floating collector box comes with heavy duty guide wheels and lockable parking support.
- Height adjustment is made in a single operation, with heavy duty height adjustment wheels that support the brush when in use.
- Suitable for front three point linkage mounting or front loader quick hitches.
- The sweeper comes with built in storage stands for easy manoeuvring when detached from the tractor.

For more info



	KM 25070 H	KM 30070 H
Working width	250cm	300cm
Weight - with collector	750kg	850kg
Oil flow required to operate	50l/min	50l/min
Diameter brush with 5 rows	70cm	70cm
Collection capacity - when fitted	370l	440l

Optional Accessories

1	Hydraulic angling to left and right. <i>Requires hydraulic service D/A</i>	HSZ-450	
2	Electric remote control solenoid valves. Cab mounted	EMV-KM70	
3	KM Control. Automatic brush height control system	KM CONTROL	
4	Front brush guard - to control debris discharge for sweepers without collector	SPL 25070	SPL 30070
5	Collector box. Fully floating system with gauge wheels - 250x85mm and dual cylinder hydraulic emptying	SSB 25070	SSB 30070
6	Front scraper bar with hydraulic lift and lower	AKL 25070	AKL 30070
7	85cm gulley brush with variable speed, hydraulic drive, spring loaded collision protection, storage position and keystone adjustment	ASH 8570 L - Left hand brush ASH 8570 R - Right hand brush	
8	Side marker lights - red and white lens -12v - to indicate sweeper width	BG-LEUCHTEN	
9	Side warning flags - to indicate sweeper width	WA-FLAG	
10	Water tank kit mounted on sweeper - 200litres c/w nozzle rail and 12v/24v submersible water pump	WAS 200 KM 70	



1 Hydraulic angling

The KM 70 series sweepers features manual angling as standard. The **Hydraulic angling** option replaces the manual angling system with a hydraulic cylinder to angle the sweeper left and right from the comfort of the seat. The hydraulic angling cylinder is supplied with hoses and 1/2" quick release couplings. This accessory requires a double acting hydraulic service to operate.



2 Electric remote control solenoid valves. Cab mounted

Short of hydraulic services? This product provides two integrated hydraulic services to be operated on the sweeper by using only a single hydraulic service on the tractor. This accessory requires one hydraulic double acting service to operate all the hydraulic functions on the sweeper.

3 KM Control

The KM 70 series sweepers are fully adjustable for height. This is normally achieved by a single lever which adjusts the height of both heavy duty gauge wheels simultaneously. This reduces the possibility of uneven brush wear. KM control take this one stage further.

The Kersten KM hydraulic-electronic control system adjusts the height of the brush automatically according to the conditions, surface undulations and brush wear. The operator may vary the parameters of the system from the cab mounted panel whilst sweeping if required. This automatic brush height control can considerably reduce brush wear and increase operator comfort.



4 Front brush guard

Sometimes it is necessary to move material without collecting it. For example; when windrowing a large volume of heavy soil or snow. In this case we need to control the debris, to prevent excessive spray. The front brush guard does exactly that - allowing the material to be contained and dropped directly in front of the sweeper.

5 Fully floating collector box

The sweeper height is maintained by its rear, heavy gauge wheels and the collector box is normally mounted to the sweeper housing by fixed points. However, this type of assembly forms one ridged structure; resulting in the collector box rubbing the ground or the sweeper leaving the surface in undulating conditions.

The solution to this may be found on the KM70 sweepers, where an innovative sliding roller mounting system ensures the collector and sweeper follow ground contours independently of each other. This independent movement allows both items to remain constantly parallel to the surface being swept. The collector maintains a constant clearance from the ground irrespective of the brush working height.



6 Front scraper bar

A brush may struggle to shift mud and clay which is stuck to a road surface.

The Kersten KM 70 series sweepers can be fitted with our innovative sprung scraper bar, which loosens stubborn, driven in material from the surface before it is swept up. The accessory includes a hydraulic system to lift the tines in and out of work.

7 Gully brush - left and right mounting - 85cm diameter

Keeping the edges clean and crisp really makes an impact. The powerful 85cm gully brushes can move heavy build up of debris from the kerb edges sweeping in to the path of the main brush and collector.

The sweepers, integrated hydraulic system provides services for left and right hand mounting on the sweeper or even both if desired. The rotational speed of the brushes is fully controllable. The height and angle and fore and aft positions of the gully brush can be adjusted to achieve maximum performance and no tools are required.

Spring loaded collision protection allows the operator a degree of latitude when sweeping against wall and gullies.



8 Side marker lights

Side marker lights indicate the edges of the machine—especially when working in low light conditions. The edges are sometimes difficult to see over the bonnet of the tractor, so these lights make it clearer to the operator of the machine as well as any observers.

The marker lights consist of forward facing white light and rear facing red light. A 12v service is required.

9 Side warning flags

Side warning flags perform a similar function to the side marker lights. They indicate the edge of the sweeper, making it easier to discern from the cab. The flags are easier to see than lights in daylight and conditions such as snow.



10 Water Tank Kit

The KM 70 series sweepers can be fitted with a 200litre water tank kit in order to suppress dust. The water binds to the dust, making it heavier, so it can be easily collected. The kit includes 2x integrated sweeper mounted tanks, 12/24v electric water pump, full width spray bar with replaceable nozzles which directs the water onto the brush so that the full length of the sweeper is saturated. This can be more effective than spraying the floor, as it only needs to wet the dust and not the whole floor, creating less mess. A 12v/24v supply is required.



Mounting options for Kersten KM 70 Series

The following options are the basic types of mounting systems. Within these broad categories are many individual varieties; particular to power unit or linkage manufactures. Precise details of mounting vehicle should be supplied to ensure correct fitment.

ABR 70 TELE - Telescopic loader, tractor front loader, front loading shovel hitch.

Telehandlers and tractor mounted loaders make ideal tool carriers. However, it is easy to be a little heavy handed when using these on large vehicles. The loader brackets from Kersten contain their own "float" mechanism, meaning that the down pressure is transferred through the linkage mechanism and not onto the brush. This protects the brush and linkage from being damaged by the loader.



ABR 70 GS - Pallet tine pockets for forklift trucks and loaders with pallet forks



Vehicles with pallet tines can be connected to with this specially designed linkage from Kersten. A built in float mechanism allows the brush to cope with ground undulations without unsettling the tines. The top mounted linkage also allows manual angling of the sweeper, whilst keeping the sweeper close to the vehicle, making it much easier to manoeuvre.

ABR 70 FRONT - Tractor front linkage with either quick attach “A” frame or link arms .

The bracket is fixed to the sweeper because tractor front linkage provides float for the sweeper



ABR 70 Unimog - Our special bracket and linkage system makes it possible to fit the sweeper to a Unimog or other vehicle 7500kg> with a DIN plate. Din plates are a standard fixed mounting system commonly found on highway vehicles of 7500kg>. The ABR 70 includes a powered lift and lower mechanism and therefore provides the ability to lift and lower the sweeper using a double acting hydraulic cylinder. The vehicle must be equipped with a suitable hydraulic service.

