



**ACN 006 129 040**  
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## **MULTI PURPOSE UNIT BODY & OPTIONS**

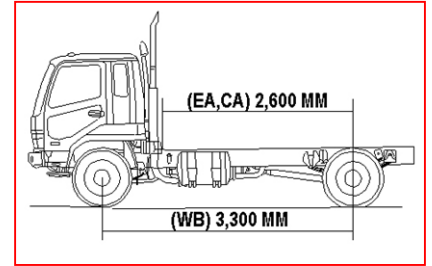


# 7,500 KGS GVM SINGLE CAB CHASSIS REQUIREMENTS:

## MEDIUM WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	3,300 mm.
Cab-Axle:	2,600 mm.
Length of Body:	3,800 mm.
Width of Body:	1,600 mm.
Height of Body:	920 mm.
Body Capacity;	3.30 m3.



### VEHICLE APPROXIMATE WEIGHTS:

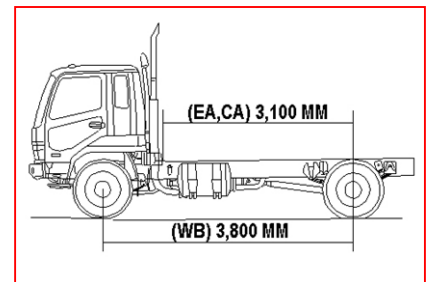
Cab Chassis Legal GVM:	7,500 kgs.
Cab Chassis GCM:	11,000 kgs.
Front Axle Capacity:	2,500 kgs.
Rear Axle Capacity:	5,000 kgs.
Tare Weight of 7,500 KG Cab Chassis:	2,485 kgs.
Tare Weight of Body HDCC4:	1,600 kgs.
Tare Weight of Cab Chassis & Body:	4,085 kgs.
Approximate Payload:	3,415 kgs.



## LONG WHEELBASE MODEL STANDARD TANKS & LARGE FRONT TIPPING STORAGE BIN

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	3,800 mm.
Cab-Axle:	3,100 mm.
Length of Body:	3,800 mm.
Width of Body:	1,600 mm.
Height of Body:	920 mm.
Body Capacity;	3.30 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	7,500 kgs.
Cab Chassis GCM:	11,000 kgs.
Front Axle Capacity:	2,500 kgs.
Rear Axle Capacity:	5,000 kgs.
Tare Weight of 7,500 KG Cab Chassis:	2,505 kgs.
Tare Weight of Body HDCC4:	1,600 kgs.
Tare Weight of Tipping Spoil Bin:	200 kgs.
Tare Weight of Cab Chassis & Body:	4,305 kgs.
Payload of Tipping Spoil Bin:	500 kgs.
Approximate Payload:	2,695 kgs.

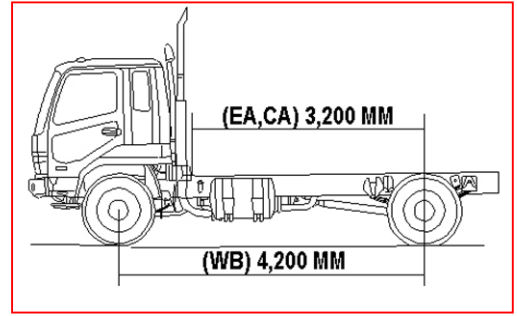


# 11,000 KGS GVM SINGLE CAB CHASSIS REQUIREMENTS:

## MEDIUM WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	4,200 mm.
Cab-Axle:	3,200 mm.
Length of Body:	4,500 mm.
Width of Body:	2,200 mm.
Height of Body:	800 mm.
Body Capacity;	4.37 m3.



### VEHICLE APPROXIMATE WEIGHTS:

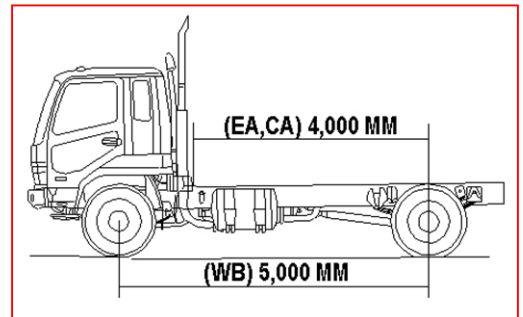
Cab Chassis Legal GVM:	11,00 kgs.
Cab Chassis GCM:	16,000 kgs.
Front Axle Capacity:	3,400 kgs.
Rear Axle Capacity:	7,000 kgs.
Tare Weight of 10,400 KG Cab Chassis:	3,200 kgs.
Tare Weight of Body HDCC5:	2,000 kgs.
Tare Weight of Cab Chassis & Body:	5,200 kgs.
Approximate Payload:	5,200 kgs.



## LONG WHEELBASE MODEL WITH LARGE FRONT TIPPING STORAGE BIN OR 500 LITRE FORWARD EMULSION TANK

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,000 mm.
Cab-Axle:	4,000 mm.
Length of Body:	4,500 mm.
Width of Body:	2,500 mm.
Height of Body:	800 mm.
Body Capacity;	4.37 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	10,400 kgs.
Cab Chassis GCM:	16,000 kgs.
Front Axle Capacity:	3,400 kgs.
Rear Axle Capacity:	7,000 kgs.
Tare Weight of 10,400 KG Cab Chassis:	3,300 kgs.
Tare Weight of Body HDCC5:	2,000 kgs.
Tare Weight of Tip S/Bin – Emulsion Tank:	300 kgs.
Tare Weight of Cab Chassis & Body:	5,600 kgs.
Payload of Tipping Spoil Bin/Emulsion:	500 kgs.
Approximate Payload:	4,300 kgs.



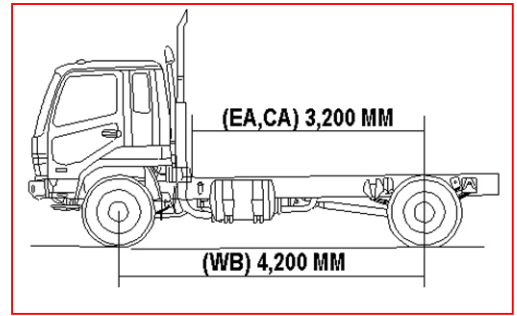


# 12-14,000 KGS GVM SINGLE CAB CHASSIS REQUIREMENTS:

## MEDIUM WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	4,200 mm.
Cab-Axle:	3,200 mm.
Length of Body:	4,500 mm.
Width of Body:	2,400 mm.
Height of Body:	900 mm.
Body Capacity;	4.80 m3.



### VEHICLE APPROXIMATE WEIGHTS:

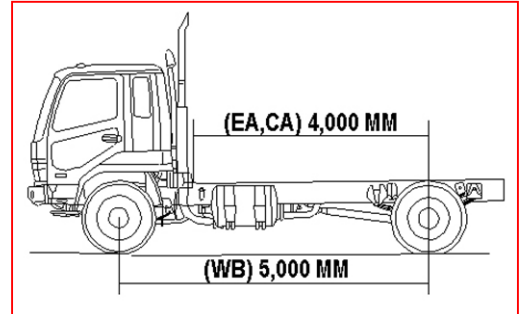
Cab Chassis Legal GVM:	12-14,000 kgs.
Cab Chassis GCM:	20-21,000 kgs.
Front Axle Capacity:	4-5,000 kgs.
Rear Axle Capacity:	8-9,000 kgs.
Tare Weight of 12,000 KG Cab Chassis:	3,765 kgs.
Tare Weight of 14,000 KG Cab Chassis:	4,100 kgs.
Tare Weight of Body HDCC6:	2,200 kgs.
Tare Weight of Body HDCC7:	2,400 kgs.
Tare Weight of 12T Cab Chassis & Body:	5,965 kgs.
Tare Weight of 14T Cab Chassis & Body:	6,500 kgs.
Approximate Payload 12T Unit:	6,035 kgs.
Approximate Payload 14T Unit:	7,500 kgs.



## LONG WHEELBASE MODEL WITH LARGE FRONT TIPPING STORAGE BIN OR 600-1,000 LITRE FORWARD EMULSION TANK

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,000 mm.
Cab-Axle:	4,000 mm.
Length of Body:	4,500 mm.
Width of Body:	2,400 mm.
Height of Body:	900 mm.
Body Capacity;	4.80 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	12-14,000 kgs.
Cab Chassis GCM:	20-21,000 kgs.
Front Axle Capacity:	4-5,000 kgs.
Rear Axle Capacity:	8-9,000 kgs.
Tare Weight of 12,000 KG Cab Chassis:	3,765 kgs.
Tare Weight of 14,000 KG Cab Chassis:	4,100 kgs.
Tare Weight of Body HDCC6:	2,200 kgs.
Tare Weight of Body HDCC7:	2,400 kgs.
Tare Weight of Tip S/Bin – Emulsion Tank:	400 kgs.
Tare Weight of 12T Cab Chassis & Body:	6,365 kgs.
Tare Weight of 14T Cab Chassis & Body:	6,900 kgs.
Payload of Tipping Spoil Bin/Emulsion:	600-1,000 kgs.
Approximate Payload 12T Unit:	5,035 kgs.
Approximate Payload 14T Unit:	6,100 kgs.

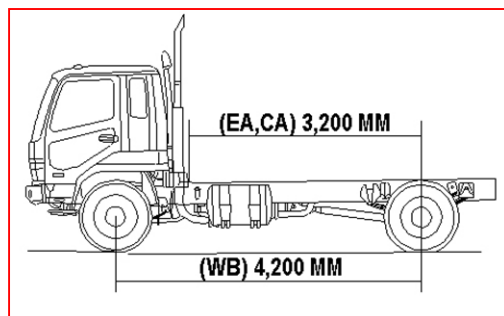


# 15-16,000 KGS GVM SINGLE CAB CHASSIS REQUIREMENTS:

## MEDIUM WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	4,200 mm.
Cab-Axle:	3,200 mm.
Length of Body:	4,500 mm.
Width of Body:	2,400 mm.
Height of Body:	1,000 mm.
Body Capacity;	5.20 m3.



### VEHICLE APPROXIMATE WEIGHTS:

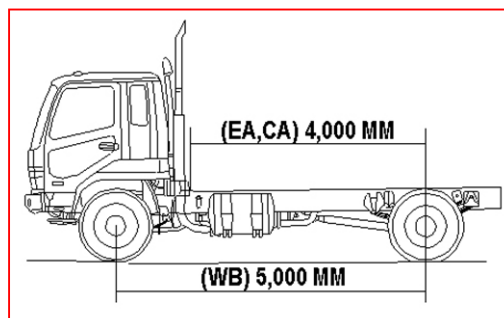
Cab Chassis Legal GVM:	15-16,000 kgs.
Cab Chassis GCM:	25-32,000 kgs.
Front Axle Capacity:	6,000 kgs.
Rear Axle Capacity:	9-10,000 kgs.
Tare Weight of 15,000 KG Cab Chassis:	4,570 kgs.
Tare Weight of 16,000 KG Cab Chassis:	4,650 kgs.
Tare Weight of Body HDCC8:	2,500 kgs.
Tare Weight of Body HDCC9:	2,600 kgs.
Tare Weight of 15T Cab Chassis & Body:	7,070 kgs.
Tare Weight of 16T Cab Chassis & Body:	7,250 kgs.
Approximate Payload 15T Unit:	7,930 kgs.
Approximate Payload 16T Unit:	8,750 kgs.



## LONG WHEELBASE MODEL WITH OR 1,000-1,500 LITRE FORWARD EMULSION TANK

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,000 mm.
Cab-Axle:	4,000 mm.
Length of Body:	4,500 mm.
Width of Body:	2,400 mm.
Height of Body:	1,000 mm.
Body Capacity;	4.80 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	15-16,000 kgs.
Cab Chassis GCM:	25-32,000 kgs.
Front Axle Capacity:	6,000 kgs.
Rear Axle Capacity:	9-10,000 kgs.
Tare Weight of 15,000 KG Cab Chassis:	4,680 kgs.
Tare Weight of 16,000 KG Cab Chassis:	4,650 kgs.
Tare Weight of Body HDCC8:	2,500 kgs.
Tare Weight of Body HDCC9:	2,600 kgs.
Tare Weight of Emulsion Tank:	500 kgs.
Tare Weight of 15T Cab Chassis & Body:	7,680 kgs.
Tare Weight of 16T Cab Chassis & Body:	7,750 kgs.
Payload of Emulsion Tank:	1,000-1,500 kgs.
Approximate Payload 15T Unit:	6,680 kgs.
Approximate Payload 16T Unit:	6,750 kgs.

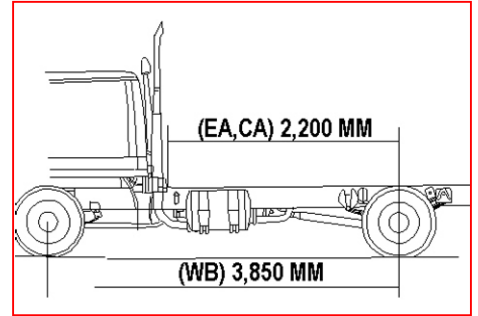


# 7,500 KGS GVM DUAL CAB CHASSIS REQUIREMENTS:

## LONG WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	3,850 mm.
Cab-Axle:	2,200 mm.
Length of Body:	3,400 mm.
Width of Body:	1,600 mm.
Height of Body:	920 mm.
Body Capacity;	3.00 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	7,500 kgs.
Cab Chassis GCM:	11,000 kgs.
Front Axle Capacity:	2,500 kgs.
Rear Axle Capacity:	5,000 kgs.
Tare Weight of 7,500 KG Cab Chassis:	2,730 kgs.
Tare Weight of Body HDCC4:	1,500 kgs.
Tare Weight of Cab Chassis & Body:	4,230 kgs.
Approximate Payload:	3,270 kgs.
Allowance for Crew Cabin Legal Payload:	2,270 kgs.

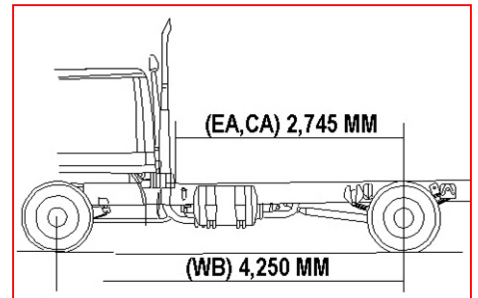


# 10,400 KGS GVM DUAL CAB CHASSIS REQUIREMENTS:

## MEDIUM WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	4,250 mm.
Cab-Axle:	2,745 mm.
Length of Body:	3,900 mm.
Width of Body:	2,200 mm.
Height of Body:	800 mm.
Body Capacity;	4.00 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	10,400 kgs.
Cab Chassis GCM:	16,000 kgs.
Front Axle Capacity:	3,400 kgs.
Rear Axle Capacity:	7,000 kgs.
Tare Weight of 10,400 KG Cab Chassis:	3,465 kgs.
Tare Weight of Body HDCC5:	1,800 kgs.
Tare Weight of Cab Chassis & Body:	5,265 kgs.
Approximate Payload:	5,135 kgs.
Allowance for Crew Cabin Legal Payload:	4,135 kgs.



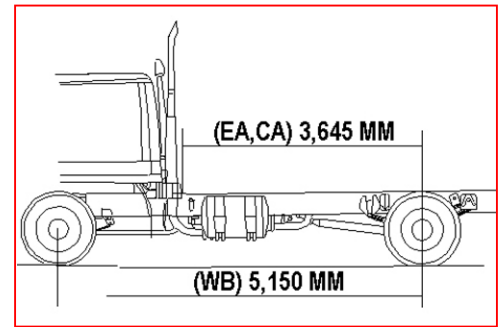


# 10,400 KGS GVM DUAL CAB CHASSIS REQUIREMENTS:

## LONG WHEELBASE MODEL WITH LARGE FRONT TIPPING STORAGE BIN OR 500 LITRE FORWARD EMULSION TANK

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,150 mm.
Cab-Axle:	3,645 mm.
Length of Body:	4,300 mm.
Width of Body:	2,500 mm.
Height of Body:	800 mm.
Body Capacity:	4.00 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	10,400 kgs.
Cab Chassis GCM:	16,000 kgs.
Front Axle Capacity:	3,400 kgs.
Rear Axle Capacity:	7,000 kgs.
Tare Weight of 10,400 KG Cab Chassis:	3,605 kgs.
Tare Weight of Body HDCC5:	2,000 kgs.
Tare Weight of Tip S/Bin – Emulsion Tank:	300 kgs.
Tare Weight of Cab Chassis & Body:	5,905 kgs.
Payload of Tipping Spoil Bin/Emulsion:	500 kgs.
Approximate Payload:	3,995 kgs.
Allowance for Crew Cabin Legal Payload:	2,995 kgs.

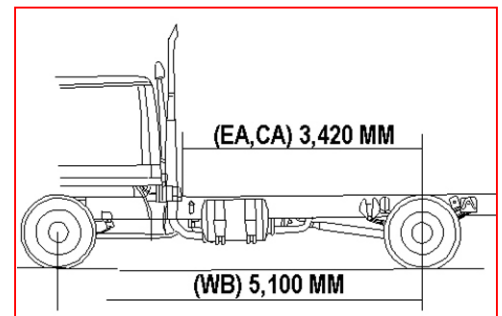


# 12,000 KGS GVM DUAL CAB CHASSIS REQUIREMENTS:

## LONG WHEELBASE MODEL STANDARD TANKS & STORAGE BINS

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,100 mm.
Cab-Axle:	3,420 mm.
Length of Body:	4,500 mm.
Width of Body:	2,400 mm.
Height of Body:	900 mm.
Body Capacity;	4.80 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	12,000 kgs.
Cab Chassis GCM:	20,000 kgs.
Front Axle Capacity:	4,000 kgs.
Rear Axle Capacity:	8,000 kgs.
Tare Weight of 12,000 KG Cab Chassis:	4,115 kgs.
Tare Weight of Body HDCC6:	2,200 kgs.
Tare Weight of 12T Cab Chassis & Body:	6,315 kgs.
Approximate Payload 12T Unit:	5,685 kgs.
Allowance for Crew Cabin Legal Payload:	4,685 kgs.

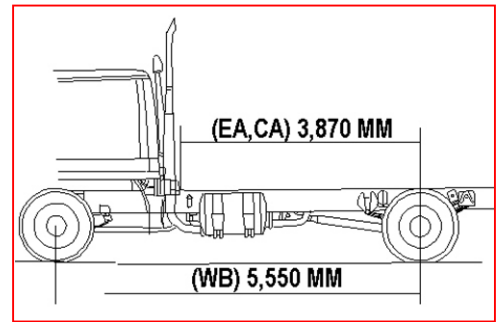


# 14,000 KGS GVM DUAL CAB CHASSIS REQUIREMENTS:

## LONG WHEELBASE MODEL WITH LARGE FRONT TIPPING STORAGE BIN OR 500 LITRE FORWARD EMULSION TANK

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,550mm.
Cab-Axle:	3,870mm.
Length of Body:	4,500mm.
Width of Body:	2,400mm.
Height of Body:	900mm.
Body Capacity;	4.80m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	14,000 kgs.
Cab Chassis GCM:	21,000 kgs.
Front Axle Capacity:	5,000 kgs.
Rear Axle Capacity:	9,000 kgs.
Tare Weight of 14,000 KG Cab Chassis:	4,505 kgs.
Tare Weight of Body HDCC7:	2,400 kgs.
Tare Weight of Tip S/Bin – Emulsion Tank:	300 kgs.
Tare Weight of 14T Cab Chassis & Body:	7,205 kgs.
Payload of Tipping Spoil Bin/Emulsion:	500 kgs.
Approximate Payload 14T Unit:	6,295 kgs.
Allowance for Crew Cabin Legal Payload:	5,295 kgs.

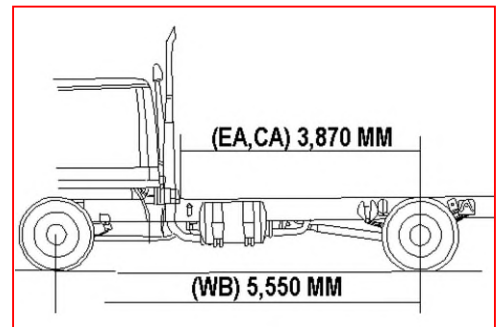


# 15,000 KGS GVM DUAL CAB CHASSIS REQUIREMENTS:

## LONG WHEELBASE MODEL WITH LARGE FRONT TIPPING STORAGE BIN OR 600-1,000 LITRE FORWARD EMULSION TANK

### 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,530 mm.
Cab-Axle:	3,860 mm.
Length of Body:	4,500 mm.
Width of Body:	2,400 mm.
Height of Body:	1,000 mm.
Body Capacity;	5.20 m3.



### VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	15,000 kgs.
Cab Chassis GCM:	24,000 kgs.
Front Axle Capacity:	6,000 kgs.
Rear Axle Capacity:	9,000 kgs.
Tare Weight of 15,000 KG Cab Chassis:	5,225 kgs.
Tare Weight of Body HDCC8:	2,600 kgs.
Tare Weight of Tip S/Bin – Emulsion Tank:	400 kgs.
Tare Weight of 15T Cab Chassis & Body:	8,225 kgs.
Payload of Tipping Spoil Bin/Emulsion:	1,000 kgs.
Approximate Payload 15T Unit:	5,775 kgs.
Allowance for Crew Cabin Legal Payload:	4,775 kgs.



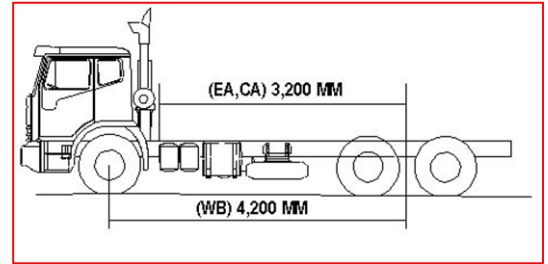


## 12 TONNE PAYLOAD BULK ASPHALT CHAIN CONVEYOR BODY SUIT 6X4 CAB CHASSIS:

### STANDARD BODY WITH STANDARD EMULSION TANK

#### 6X4 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	4,200mm.
Cab-Axle:	3,200mm.
Length of Body:	5,000mm.
Width of Body:	2,500mm.
Height of Body:	1,450mm.
Body Capacity;	8.0m3.



#### VEHICLE APPROXIMATE WEIGHTS:

Air Bag Cab Chassis Legal GVM:	23,000 kgs.
Cab Chassis GCM:	36,000 kgs.
Front Axle Capacity:	6,000 kgs.
Rear Axle Capacity:	17,000 kgs.
Tare Weight of Cab Chassis:	5,000 kgs.
Tare Weight of Body HDCC14:	3,000 kgs.
Approximate Legal Payload:	13,000 kgs.

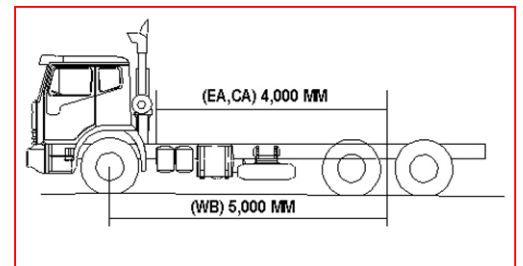


## 12 TONNE PAYLOAD BULK ASPHALT CHAIN CONVEYOR BODY SUIT 6X4 CAB CHASSIS:

### STANDARD BODY WITH FORWARD MOUNTED EMULSION TANK

#### 6X4 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,000mm.
Cab-Axle:	4,000mm.
Length of Body:	5,000mm.
Width of Body:	2,500mm.
Height of Body:	1,450mm.
Body Capacity;	8.0m3.
1,000 Litre Forward Emulsion Tank:	700mm.



#### VEHICLE APPROXIMATE WEIGHTS:

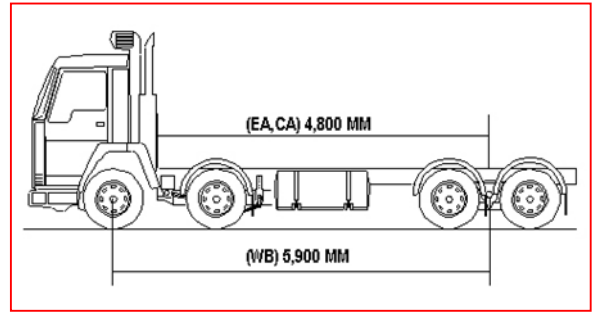
Air Bag Cab Chassis Legal GVM:	23,000 kgs.
Cab Chassis GCM:	36,000 kgs.
Front Axle Capacity:	6,000 kgs.
Rear Axle Capacity:	17,000 kgs.
Tare Weight of Cab Chassis:	5,000 kgs.
Tare Weight of Body HDCC14:	3,000 kgs.
Tare Weight of 1,000 Lt Emulsion Tank:	500 kgs.
Approximate Legal Payload:	11,500 kgs.



# 17 TONNE PAYLOAD BULK ASPHALT CHAIN CONVEYOR BODY SUIT 8X4 CAB CHASSIS:

## 4X2 VEHICLE APPROXIMATE DIMENSIONS:

Wheelbase:	5,900mm.
Cab-Axle:	4,800mm.
Length of Body:	7,000mm.
Width of Body:	2,500mm.
Height of Body:	1,200mm.
Body Capacity;	10.0m <sup>3</sup> .



## VEHICLE APPROXIMATE WEIGHTS:

Air Bag Cab Chassis Legal GVM:	28,000 kgs.
Cab Chassis GCM:	30,000 kgs.
Front Axle Capacity:	11,000 kgs.
Rear Axle Capacity:	17,000 kgs.
Tare Weight of Cab Chassis:	8,500 kgs.
Tare Weight of Body HDCC17:	3,000 kgs.
Approximate Legal Payload:	16,500 kgs.



## NEW PRODUCT FLOCON INDUSTRIES FORWARD-MOVING AGGREGATE SPREADER SEE PAGE 54

### 27,600 KGS GVM 6X4 CAB CHASSIS REQUIREMENTS:

## VEHICLE APPROXIMATE DIMENSIONS:

Make Model:	Mack Trident.
Wheelbase:	5,445 mm.
Cab-Axle:	2,950 mm.
Length of Body:	5,000 mm.
Width of Body:	2,400 mm.
Height of Body:	1,500 mm.
Body Capacity;	8.00 m <sup>3</sup> .



## VEHICLE APPROXIMATE WEIGHTS:

Cab Chassis Legal GVM:	27,600 kgs.
Cab Chassis GCM:	70,000 kgs.
Front Axle Capacity:	6,500 kgs.
Rear Axle Capacity:	21,000 kgs.
Tare Weight of 27,500 KG Cab Chassis:	8,109 kgs.
Tare Weight of Body:	3,800 kgs.
Tare Weight of Cab Chassis & Body:	11,909 kgs.
Approximate Legal Payload:	10,000 kgs.



**Other chassis available contact us for a demonstration.**

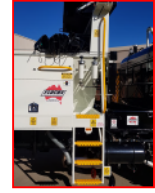
## 1 Body Capacity.

The body unit is of **3-10m<sup>3</sup> / 3-17tonne** capacity and is capable of receiving and discharging a range of products including hot and cold asphalt, sands, soils, gravel, crushed rock, lime, cement up to 75 mm particle size.



### 1.1 Body Access Ladder.

A 3 point contact access ladder will be installed on the left or right front sides of the body.



### 1.2 Air Tailgate.

The unit is fitted with an air cylinder to open and close the tailgate at the rear of the body. The air cylinder opens and closes automatically when the cabin or rear discharge switches are activated on or off. A isolation switch is also fitted at the rear of the body to disengage the air cylinder if the tailboard is required to be open manually.



Or;

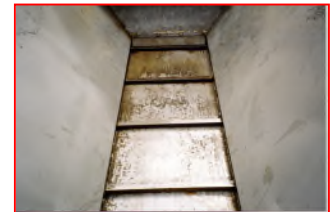
### 1.3 Manual Tailgate.

The unit is fitted with a spring bolt tailboard retainer and spring bolt to hold the tailboard in the up position if required. This system requires the retainer to be locked behind one of the alloy flight bars to hold the material in the body. Used on trucks with no air or requirements for shovelling directly from the rear of the body.



## 2 Inbuilt Hydraulic Conveyor.

Our offer includes the supply of an inbuilt hydraulic driven slat conveyor operated from a push pull switch situated in the cabin of the truck and also from the rear of the body buy a push button. The conveyor speed is varied by adjustment of a manual speed control lever located in an accessible area on the body. The conveyor is capable of discharging material whether the vehicle is stationary or mobile. The conveyor is able to unload its legal capacity in an even flow without stalling or jamming. The material can be discharged horizontally into any one of the following standard attachments supplied with the body:



### 2.1 Directly to the Ground.

Directly to the ground from the rear of the body via the slat conveyor system with an approximate spreading width of 850mm.

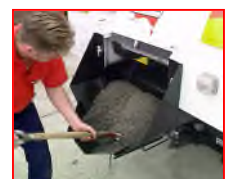
***Refer to Options for Wheel Barrow and Swinging Carrier.***

***Refer to Options for Sand Bag Filler.***



### 2.2 Shovel Bin.

The shovel bin provides the operator with access to shovel material at a comfortable shovelling height of **500 mm**.





## 2 Inbuilt Hydraulic Conveyor. (continued)

### 2.3 Rhyll Maker.

Alternatively, the base of the shovel bin can be removed. This allows the material to fall directly through the shovel bin creating a Rhyll spread



### 2.4 Side Delivery Chute.

A kerb side basic delivery chute is supplied for placing material behind the kerb side wheels only.

(Not outside the vehicle wheel line)

A driver sides basic delivery chute is available as an additional option.



***Refer to Options for Drainage Back Filling Hydraulic Side Conveyor Attachment, placing of material approx 1500mm outside the vehicle wheel line to the right or 1000mm to the left.***

***Refer to Options for Edge Maintenance Unit Attachments, On & Off Road.***

### 2.5 Full Width Spreading Plate.

The plate is used for basic full width vehicle spreading.

***Refer to Options for Hotmix/Premix Paving Unit Attachments, placing of material approx 3000mm directly behind the vehicle with varying widths and depths.***



The shovel bin, side chutes and spreading plate are easily removable from the rear of the body.

### 2.6 Shovel Cleaning Bin.

Our shovel bin has a capacity for up to two medium sized shovels.

The shovels are cleaned by placing 10-15 litres of cleaning fluid in the bin. A hinged splash proof lid minimises spills, and a drainage plug in the base of the bin allows for easy cleaning.



### 2.7 Witches Hat Stand.

A witch's hat spike is installed to the body with easy access  
To most common witches' hats



## 3 Body Heating and Insulation.

### 3.1 Body Exhaust Heating.

The body floor is channelled and sealed to receive the exhaust gases for the heating of the body direct from the truck engine.



### 3.2 Exhaust Heating Isolation Valve.

The exhaust system to incorporate a valve to allow the body to be heated or left cold, at the discretion of the operator.



### 3.3 Body Insulation.

The body sides & floor are fully insulated by a fibre-wool material of a minimum 25 mm thick at 80 Kg/m3 density.



#### 4 Body Hydraulic Operating Systems Available.

##### 4.1 Transmission Power Take Off,s and Single Hydraulic Gear Pumps.

Our offer includes the supply and installation of a transmission power take off and single hydraulic gear pump. The size of the pump or pumps can vary depending on the hydraulic systems requirements for optional body accessories.



The transmission PTO and pump combination provides an approximate flow of 37 lpm at 1000 engine revs and a working pressure of up to 210 bar. Electric Cabin controlled.

Or;

##### 4.2 Transmission Power Take Off,s and Dual Hydraulic Gear Pumps.

Our offer includes the supply and installation of a transmission power take off and dual hydraulic gear pumps. The size of the pump or pumps can vary depending on the hydraulic systems requirements for optional body accessories.



The transmission PTO and dual pumps combination provides an approximate flow of 37 lpm at 1000 engine revs and a working pressure up to 210 bar per pump. Electric Cabin controlled.

Or;

##### 4.3 Vehicle Engine Drives and Hydraulic Piston Compensator Pumps. (Only if the live drive outlet is available on the relevant cab chassis)

Our offer includes the supply and installation of a piston compensator pump to fit the already installed live drive engine outlet. The size of the pump or pumps can vary depending on the hydraulic systems requirements for optional body accessories.



The engines piston compensator pump provides an approximate flow of 37 lpm at 1000 engine revs and a working pressure of up to 210 bar. Electric Cabin controlled.

**This engine live drive system will enhance the operation of the Flocon body unit, if available on the cab chassis.**



Or;

## 4 Body Hydraulic Operating Systems Available. (continued)

### 4.4 Allison 3000/3200/3500 Series Automatic Transmission Power Take Off,s with Single or Dual Hydraulic Gear Pumps.

Our offer includes the supply and installation of a transmission power take off with single or dual hydraulic gear pumps.  
The size of the pump or pumps can vary on the units hydraulic requirements.



The automatic transmission PTO, pump or pumps combination provides an approximate flow of 37 lpm at 1000 engine revs and a working pressure up to 210 bar is available. Electric Cabin controlled.

**The above automatic transmission models are similar to the live drive engine system where the PTO can be selected either in neutral or in gear with the engine running.**

#### **NOTE:**

**The Allison 2500 series automatic transmissions are only suitable for vehicle stop, start patching tasks if the PTO and pump combination are directly fitted to either of these transmissions. They are not suitable for vehicle moving spreading applications.**

### 4.5 Hydraulic System Specifications.

60-100 litre capacity hydraulic oil tanks are fitted depending on the hydraulic system requirements for optional body accessories.  
The hydraulic oil filter is replaceable.  
12/24 VDC fan forced hydraulic oil coolers can be supplied depending on the hydraulic system requirements for optional body accessories.



The 12/24vdc hydraulic solenoid body operational control valve supplied on the Flocon unit is our standard "twin system valve".  
This allows the hydraulic oil to be supplied and operate two separate body hydraulic functions simultaneously via electric switches.  
Typical of this is we can run the main conveyor and one other hydraulic function together.



Additional hydraulic solenoid body operation valves are supplied depending on the hydraulic system requirements for optional body accessories.

***Refer to Options for Auxiliary Engine Drive Hydraulic Systems.***

### 4.6 Reverse Main Body Conveyor System.

The main body conveyor system can be reversed enabling the tailboard to be positively locked, avoiding product spillage.  
Operation via a electric reverse conveyor push button switch and simultaneously depressing the electric rear discharge button.



**NOTE: All chassis MUST have hand throttle Control to hold engine revs at 1,000RPM Whilst spreading.**



## 5 Storage Compartments.

### 5.1 1000 mm Storage Locker.

A lockable storage tray constructed on the **left side with gravity emulsion tank fitted. Right side with air emulsion tank fitted.** The locker is a minimum of 1 metre in length. The locker is fitted with a gas strut to assist opening the lid and 'T' bar type locking handle. The storage locker is fitted with stainless steel weather-proof hinge.



### 5.2 2-2400 mm Storage Locker.

A lockable storage tray constructed on the **right** side of the body. The locker is a minimum of 2 metres in length. The locker is fitted with gas Struts to assist opening the lid and 'T' bar type locking handles. The storage locker is fitted with stainless steel weather-proof hinge.



### 5.3 Sign Storage Tray.

Our offer includes the supply of a 3-500mm wide sign storage tray positioned between the front of the body and the rear of the cabin for the full width of the truck. Our sign storage tray provides a proper storage of the basic road sign.

***Refer to Options for large Front Storage Trays, Sand/Grit and Spoil/Rubbish storage facilities.***



### 5.4 Left & Right Rear Corner Body Lockers.

Left and right rear corner lockers are supplied, for minor storage items, when rear emulsion and water tanks are not fitted. Left locker normally stores the emulsion reel and the right can store the water reel and or chemical reel. Fitted with key lockable handles. The storage lockers are weather-proof.



## 6 Tarpaulins.

### 6.1 Bow Tarp Hand Wind.

Our offer includes a ground operational hand wind front to rear PVC body cover with side skirts to correctly fit the body to assist in maintaining product temperature.



## 7 Emulsion Systems Available.

### 7.1 Gravity Discharge Emulsion Tank.

Our offer includes the supply of a OH & S Authority approved **2-300 litre emulsion** storage tank fitted to the **left** of the body.

The emulsion tank is supplied with large inspection plates and accessible filler neck for cleaning and inspection requirements. The tank is not subject to any air pressure to move emulsion.



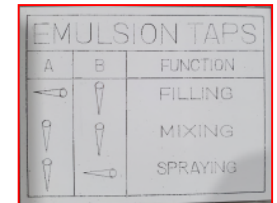
#### 7.1.1 Gravity Feed Pumping System.

A gravity feed pumping system can be supplied featuring the reliable impeller centrifugal pump with teflon gland packing. This packing is suitable for use with emulsion, kerosene, etc. The pump and use of two 3 way valves can also be used for filling the tank directly from 200 litre drums, this is useful in remote situations. The pump is operated by a hydraulic motor coupled to the pump.



RPM:	3000
Pressure:	80 kpa
Flow:	18 lpm
Tank to Pump Hose Size:	25.0 mm
Pump to Bar Hose Size:	25.0 mm
Coverage up to:	0.5 lt per m2

**Refer to Options for larger Emulsion Pump suit Spray Bar.**



Or;

### 7.2 Air Pressure Vessel.

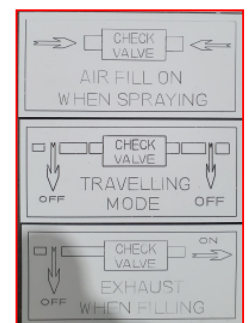
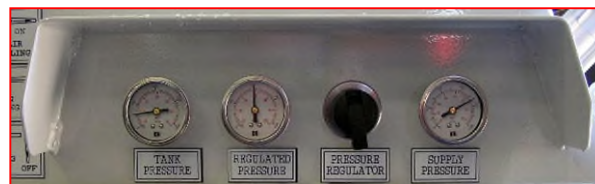
Our offer includes the supply of a OH & S Authority approved Class 2B transportable 800 kpa **205 litre emulsion** pressure vessel fitted to the **left** of the body.

The emulsion air pressure vessel is supplied with a filler neck and accessible inspection plate for cleaning and inspection requirements. The air vessels are supplied with registered legal certificates. The tank is connected to the vehicle air system and is subject to air pressure to move emulsion.



#### 7.2.2 Air Controls.

- Air inlet gauge.
- Tank air gauge.
- Tank outlet gauge.
- Air pressure regulator.
- Air pressure relief valve.
- Vehicle one way check valve.
- 1400 ci auxiliary air receiver.
- Yellow air safety placard.
- All mounted into a external control panel.



## 7 Emulsion Systems Available. (continued)

### 7.3 Emulsion Reel and Lance.

The emulsion system includes 7 metres of 19mm hose or 11 metres of 13mm which is stored on a heavy duty all steel spring retractable hose reel. The hand lance has a separate control valve used to turn on and off the emulsion and features the new operator friendly curved end for easier application of the emulsion.



### 7.4 Single Nozzle Emulsion Spray Lance.

A single nozzle spray lance is available capable of spraying approx 250mm wide, complete with nozzles & shut off/on valves.



Lever Handle



On/Off Valve & Nozzle

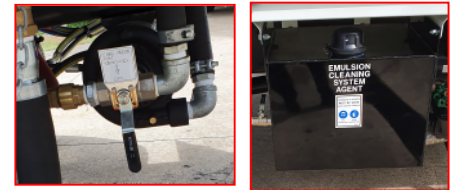


Lance Complete

### 7.5 40 Litre Suction Emulsion System Cleaning Tank.

Our offer includes a flushing tank connected into the emulsion system for easy cleaning of the pump, reel and associated hoses, through the suction side of the emulsion pump.

Or;



### 7.6 40 Litre Air Pressure Emulsion System Cleaning Tank.

Our offer includes a flushing tank connected into the emulsion system after the tank for easy cleaning of the pump, reel and associated hoses.

***Refer to Options for Spray Bar Emulsion Cleaning Spraying Facilities and Hose Reels.***



## 8 Water System.

### 8.1 Water Tank.

Our offer includes a **100 litre polyurethane water tank** fitted to the **rear of the body cab protector**.

The tank includes a filler neck and cap to top fill or is fitted with a breather to fill from a ground level connection.

A hand tap is supplied on the left and right sides of the body.

***Refer to Options for Larger Water Tanks, Spraying Facilities and Hose Reels.***





**9 Compacting Plate Hydraulic Lifters Available.**

**9.1 Kerb Side Vibrating Plate, Trench Rammer Compacting Plate Raise and Lower Hydraulic Lifter.**

Hydraulic operation of the compacting equipment carrier to suit a vibrating plate only or vibrating plate and trench rammer.

The hydraulic equipment control moves the stand to the unloading position and also to the correct height for transport. Mechanical locks are provided in the transport position.

**Minor manual lifting required onto the carrier while in the down position.**



Or;

**9.2 Kerb Side Compacting Plate Robotic Arm Hydraulic Lifter.**

Hydraulic operation of the compacting equipment carrier to suit single vibrating plates or single trench rammers only.

**(lifter per compaction item is required, vehicle chassis room permitting)**

The hydraulic equipment control swings the plate or trench rammer to the unloading position on the ground.

Then back to the equipment carrier to the storage position for transport.

Adjustable handle pick up facility for varying vibrating plates.

**No manual lifting required.**



Or;

**9.3 Kerb Side Bomag BW55E Roller Raise and Lower Hydraulic Lifter.**

Hydraulic operation of the compacting equipment carrier to suit a Bomag BW55E roller.

The hydraulic equipment control moves the stand to the unloading position and also to the correct height for transport. Mechanical locks are provided in the transport position. The unit is also supplied with a short ramp for the roller to drive up onto the carrier while in the down position.

**No manual lifting required.**



## 10 Safety Warning Equipment.

### 10.1 Collapsible Signage.

Electric or air collapsible mounted signs are available as required. Labelled with standard Pictorial Workman Logo, front and rear. Fitted to the body cab protector.



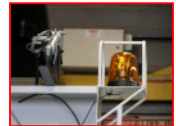
***Refer to Options for Electric/Air Cabin Control & Directional Arrow Boards.***

### 10.2 Led Amber Lights.

Two or more LED amber lights of the Customers choice are fitted to each side of the body cab protector either with a Pictorial Workman Sign or Arrow Board as required. The beacons are visual from the front and rear of the vehicle.

Controlled by a switch in the Flocon control panel located in the vehicle cabin. Fitted with a tell tale LED indicator to alert the operator the beacons are on.

The lightss can be also fitted with protective cages to avoid Incidental damage from trees etc....



### 10.3 Colour Dual Rear Vision Camera System.

12-24 volt 5.0" colour monitor fitted in the vehicle cabin and two body mounted cameras. A rear mounted camera enables the driver to sight all operators in a larger arc at the rear of the unit.

The second camera is mounted at the rear of the body cab protector enabling the operator to see into the body hopper to check the amount of product that is present.

**The cabin monitor will automatically turn on or switch to the rear camera when reverse gear is selected.**



### 10.4 Marker Plates.

Do Not Over Take Turning Vehicle plates are fitted to the rear of the body on applicable size vehicles only.



### 10.5 12/24 Volt Reverse Alarm.

(In lieu of standard truck reverse alarm)

77-102 dba self adjusting reverse alarm.

### 11 LED ADR Vehicle Lighting.

Led ADR, taillights, no plate, reverse and side lights.



## 12 Surface Treatment of Body.

Our units and associated equipment are prepared and painted in colour conforming to Australian Standards.  
The unit will be painted as follows.

The complete body will be de-slugged from all welding processes by hand. The complete body will be de-slugged from all welding processes by grinder buffing.  
The complete body will be degreased.  
The complete body will be etch primed by 2-3 coats.  
The body then will be painted in 2K CV Autothane paint to match the vehicle cabin or painted to suit the Customers fleet colours.  
The rear surface of the body will be painted in 2K CV white to match the vehicle cabin or to a Customer preference white if the main unit is painted a colour other than white.



## 13 Controls.

All controls for the body inside and outside of the vehicle cabin will be clearly labelled.  
Cabin controls will be clearly labelled and within reach by the driver/operator.



***Refer to Options for vehicle LED lighting, Reverse Buzzers, Intercom Systems, Radio Systems, and CCTV Camera Monitor Systems.***



## 14 Installation.

Our offer includes fitting of the completed unit to the cab-chassis including electrical and hydraulic works.  
Accurate testing and calibration of the completed unit are carried out.  
Our completed unit will conform to State and Federal standards including registration requirements.



## 15 Noise Levels.

Noise levels of the body and associated equipment except for breakers Comply with OH&S current noise regulations.



## 16 Instruction Books, Workshop Manuals.

Two copies of workshop manuals and spare parts manuals will be supplied for body, via hard copy or CD format.



## 17 Warranty.

Flocon Road Maintenance Equipment is protected by a **2 year unlimited** warranty for new units.  
Flocon guarantee that it will either repair or replace free of charge any part that it manufactures and found to be defective in material or workmanship. This warranty is valid from the date Customer takes possession of the unit.

**Product Warranty**





## 18 Parts and Service.

Service and spare parts are available from Flocon Engineering P/L outlets as follows;

**Victoria:** Head Office, 29-31 Apollo Drive, Hallam, Vic, 3803.  
**Queensland:** 2 Kapyong Rd Caboolture, QLD, 4510.  
**Western Australia:** Unit 4/27 Truganina Road, Malaga, 6062.  
**Tasmania:** Briar Banks Engineering P/L, Tea Tree.  
**New South Wales:** HTE Maintenance and Spares. Riverstone.

**Spare parts within 24 hours.**



## 19 Delivery.

Delivery for the above is \_\_\_-\_\_\_ **weeks** from the receipt of the Customer Official Written Order.

This delivery is based on our present workload and material supply conditions. These may vary by the time the order is placed and therefore you should confirm this delivery at the time of order placement. Please discuss this delivery with the writer should it present you with a problem.



### ***Completed Delivery Price to Customer Destination***

Delivery of the completed units are included in the Total Contract Figure specified at \$\_\_\_\_\_ **per unit plus GST.**  
Ex Melbourne to Customer destination.

Please discuss the delivery charges to your nominated destination with the under writer, should you require to pick up the units yourselves, if so the above figure would be a price reduction from the Total Contract Figure specified.

## 20 Australian Content.

The Australia content of our Road Maintenance unit is 85%. All manufacturing processes are carried out in our Victoria workshops to adhere to our strict quality procedures.



## 21 Operator Instruction and Training.

Every Flocon unit is demonstrated to the Customer employees by a fully qualified and experienced representative. The time allowed for the operators instruction is approximately 1 day. We have, however, instructed our representative that he should not leave your premises until Customers operators are confident of the operations. We also provide information for the mechanics and supervisors on body maintenance.



## 22 Customer Inspection.

Customers are welcome to inspect the progress of the unit at any time.



## 23 VSB6 Compliant.

The Flocon body is compliant in all facets to VSB6.



**24 Research and Design.**

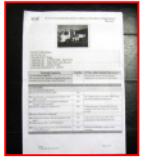
**Please Note:**

**All Manufacturing, Design, Research and Development is produced to suit our Customers individual requirements for their required road maintenance objectives.  
Flocon Manufacture equipment to exact Customer requirements.**



**25 Risk Assessment.**

The Flocon body will be supplied with an independent Risk Assessment before delivery.



# FLOCON OPTIONS

## 1 Body Weighing System up to 16000kg GVM.

Elphinstone 4 off, Model 510 load cells, fitted to the Flocon body with brackets to suit. Digital cabin read out only of exact body payload.



## 2 Hydraulic Component Options

### 2.1 Flocon Body Auxiliary Engine Hydraulic Drive.

(in lieu of Transmission PTO & Pump or Engine, Auto Transmission live Drive)

Independent body hydraulic power source to the traditional transmission PTO and pump or Live engine, auto live drives and hydraulic pumps.

12.5hp Kubota horizontal 4-cycle single cylinder diesel engine.

Maximum Output: [12.5hp@2400](#) rpm.  
[9.33kW@2400](#) rpm.

Maximum Torque: 4.04kgf@1800 m/rpm.



### 2.2 Hydraulic Power Tool Reel.

Our power-pak capable of operating a large range of hydraulic tools. The power-pak consists of the following;

A hydraulic hose reel with twin high pressure hoses. The hose reel features a spring rewind system for ease of hose retraction. The hose is 8 metres long and is assembled within a protective hose sheath.

The power-pak hoses includes H.T.M.A approved flush face quick release couplings.

Supplied with a hydraulic oil cooler together with DC electric fan as part of each hydraulic power-pak system. Heat generation is a tool characteristic and cooling is necessary to maintain correct oil temperature for the tool and the operator.

(HPTR is compatible with Stanley Hydraulic Hand Held Tools)

**Note: Cab chassis must have UP/DOWN throttle control to increase Revs to 7-1000rpm for the hydraulic power tools.**





# FLOCON OPTIONS

## 2 Hydraulic Component Options (continued)

### 2.3 Kerb Side Vibrating Plate and or Trench Rammer Compacting Plate Raise and Lower Hydraulic Lifter.

Hydraulic operation of the compacting equipment carrier to suit a vibrating plate only or vibrating plate and trench rammer.

The hydraulic equipment control moves the stand to the unloading position and also to the correct height for transport. Mechanical locks are provided in the transport position.

**Minor manual lifting required onto the carrier while in the down position.**



### 2.4 Kerb Side Compacting Plate Robotic Arm Hydraulic Lifter.

Hydraulic operation of the compacting equipment carrier to suit single vibrating plates or single trench rammers only.

**(lifter per compaction item is required, vehicle chassis room permitting)**

The hydraulic equipment control swings the plate or trench rammer to the unloading position on the ground.

Then back to the equipment carrier to the storage position for transport. Adjustable handle pick up facility for varying vibrating plates.

**No manual lifting required.**



### 2.5 Kerb Side Bomag BW55E Roller Raise and Lower Hydraulic Lifter.

Hydraulic operation of the compacting equipment carrier to suit a Bomag BW55E roller.

The hydraulic equipment control moves the stand to the unloading position and also to the correct height for transport. Mechanical locks are provided in the transport position. The unit is also supplied with a short ramp for the roller to drive up unto the carrier while in the down position.

**No manual lifting required.**



### 2.6 Reverse Main Body Conveyor System.

The main body conveyor system can be reversed enabling the tailboard to be positively locked, avoiding product spillage. Operation via a electric reverse conveyor push button switch and simultaneously depressing the electric rear discharge button.



# FLOCON OPTIONS

## 3 Body Storage Compartments.

### 3.1 0.25 – 0.5m<sup>3</sup> Side Grit/Sand Bin.

A grit or sand bin fitted in the side of the body located on the **right/left** side of the body.

The bin is loaded by shovel and unloaded via a single shovel tray.

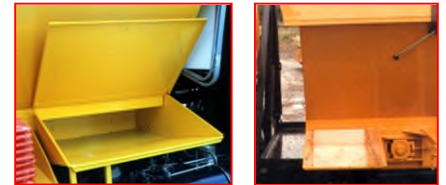


### 3.2 1.0m<sup>3</sup> Single or Dual Product Front Grit/Sand Bin.

A grit/sand bin is fitted in the **front** of the body.

The bin is loaded by machine and emptied via one or two shovel trays located on both sides of the body.

The bin is sealed with a one piece lid, hydraulically operated at ground level.



### 3.3 1.0m<sup>3</sup> Single or Dual Product Rear Grit/Sand Bin.

A grit/sand bin is fitted in the **rear** of the body. The bin is loaded by machine and emptied via one or two shovel trays located on both sides of the body.

The bin is sealed with a one piece lid, hydraulically operated at ground level.



**Additional Rear Singular or Dual Product Storage Bin Manual Hydraulically Operated**



**Left & Right Rear Shovel Outlets Fitted Only When Rear Spreaders are not Required**



**Left & Right Side Shovel Outlets Fitted Only When Rear Spreaders are Required**

# FLOCON OPTIONS

## 3 Body Storage Compartments. (continued)

### 3.4 0.25 – 0.5m<sup>3</sup> Side Gravity Unloading Spoil Bin.

A spoil bin is built onto the **right/left** side of the body. The floor of bin is constructed from 3 mm steel and angled at approximately 40 degrees to allow material to run out when the gate is opened.



### 3.5 0.25 – 0.5m<sup>3</sup> Hydraulic Side Tipping Spoil Bin.

A side tipping spoil bin mounted on the **right/left** side of the body. The bin is unloaded hydraulically.



### 3.6 1.0 – 2.0m<sup>3</sup> Hydraulic Side Tipping Spoil Bin.

A side tipping spoil bin mounted between the front of the body and rear of the cabin at full cabin width. The spoil bin tips to the **right/left** of the vehicle by hydraulic controls.



### 3.7 0.25-0.5m<sup>3</sup> Hydraulic Ground Level Spoil Lifter.

A hydraulic operated ground level loading side lifter connected to the main side tipping spoil bin decreases the lifting height of spoil into the side tipping spoil bin. The lifter is fitted to left or right depending on which way the side tipping spoil bin is to unload. It is loaded by hand and hydraulic raised to unload into the main side tipping spoil bin.





# FLOCON OPTIONS

## 3 Body Storage Compartments. (continued)

### 3.8 1-2000 mm Lockable Storage Tray.

A lockable storage tray constructed on the **right/left** side of the body. The locker is a minimum of 1-2 metres in length. The locker is fitted with roller shutter style doors with a locking handle. The storage locker is weather-proof.



### 3.9 Forward Mounted Storage Locker.

A forward mounted storage lockable is fitted between the vehicle cabin and body.

The locker is a minimum of 2.4 metres in length, 1 metre high x 500mm wide. The locker is fitted 'T' bar type locking handles opening sideways. The storage locker is fitted with a rubber water proof seal.



## 4 Water Tanks.

### 4.1 60 Litre Poly Plastic Water Tank.

A poly plastic water tank.



### 4.2 30 Litre Hand wash Poly Water Tank.

A 30 litre poly water tank with hand wash facility.



### 4.3 1-200 Litre Polyurethane Water Tank.

A 1-200 litre polyurethane water tank in lieu of the standard 100 litre tanks.



# FLOCON OPTIONS

## 4 Water Tanks. (continued)

### 4.4 100 Litre 5mm Air Pressure Water Vessel.

A 100 litre 5mm steel air pressure vessel water tank in lieu of the standard 100 litre tank. Registered pressure vessel certificates supplied, with all safety valves as required.



#### 100 Litre Tank Dimensions:

375 mm diameter. 800 shell length. (1000 mm overall length)  
Class 2B Transportable. 800 kpa.

### 4.5 200 Litre 5mm Air Pressure Water Vessel. (Room Permitting Long Wheelbase Units Preferred)

A 200 litre 5mm steel air pressure vessel water tank in lieu of the standard 200 litre tank. Registered pressure vessel certificates supplied, with all safety valves as required.



#### 200 Litre Tank Dimensions:

610 mm diameter. 513 shell length. (900 mm overall length)  
Class 2B Transportable. 800 kpa.

### 4.6 Air Water System Controls.

Air inlet gauge. Tank air gauge. Tank outlet gauge.  
Air pressure regulator. Air pressure relief valve.  
1400ci auxiliary air receiver. Yellow air safety placard.  
All mounted into a external control panel.



## 5 Water and Chemical Spraying Systems

### 5.1 Electric Water Spray System and Plastic Hose Reel.

A electric water pump is fitted below the tank and connected to a 15 metre water hose on a self retracting plastic hose reel, spray gun. The spray gun has a adjustable fan nozzle.



### 5.2 Hydraulic Spray System and Plastic Hose Reel.

A hydraulically driven water pump is fitted below the tank and connected to a 15 metre water hose on a self retracting plastic hose reel, spray gun. The spray gun has a adjustable fan nozzle.



# FLOCON OPTIONS

## 5 Water and Chemical Spraying Systems

### 5.3 Chemical Spray System and Steel Hose Reel.

A electric chemical pump is fitted below the tank and connected to a 6 metre chemical hose on a self retracting steel hose reel, spray gun. The spray gun has a adjustable fan nozzle.



### 5.4 Combination Water and Chemical Spray System Including Hose Reel.

A electric chemical pump is fitted below the tank and connected to a spray gun and 3 way diversion tap. The 3 way tap when adjusted can either move water or chemicals through the hose. The spray gun has a adjustable fan nozzle. A steel retractable hose reel with 6 metres of hose is supplied and fitted in an accessible position.



## 6 Emulsion Systems and Tanks.

### 6.1 1000 Litre Gravity Emulsion Tank.

Our offer includes the supply of a OH & S Authority approved **500-1000 litre emulsion** storage tank fitted between the vehicle cabin and body. Access steps and standing platform to fill from included.

The emulsion tank is supplied with large inspection plates and accessible filler neck for cleaning and inspection requirements. The tank is not subject to any air pressure to move emulsion.



#### 6.1.1 Connection Integral Cleaning Tank to Emulsion Pump.

Our offer includes valves and hosing from the integral manufactured tank as part of the emulsion tank, for cleaning the emulsion lines, reel and lance.



#### 6.1.2 Level System to Suit Gravity Emulsion Tanks Only.

The level system consists of a 1-litre nitrile accumulator bladder mounted near the bottom of the emulsion tank connected to a plastic pipe which runs up above the height of the tank. The bladder is filled with a non-toxic environmentally safe fluid with specific gravity similar to the emulsion. As the tank is filled, the fluid is displaced from the bladder into the plastic sight gauge. The level on the pipe follows the level of the fluid in the tank.





# FLOCON OPTIONS

## 6 Emulsion Systems and Tanks. (continued)

### 6.1.3 High Volume Gravity Pump System Suit 15 Nozzle Emulsion Spray Bar.

The high volume gravity pressure pump system features the reliable impeller centrifugal pump with teflon gland packing.

This packing is suitable for use with emulsion, kerosene, etc.

The pump is operated by a hydraulic motor coupled to the pump.

High volume open impeller 112 Flocon emulsion pump only.

RPM:	3000.
Pressure:	100 kpa.
Flow:	300 lpm.
Tank to Pump Hose Size:	50.0 mm
Pump to Bar Hose Size:	38.0 mm
Coverage up to:	2.0 lt per m2



### 6.2 500–1000 Litre Air Emulsion Tank.

A air emulsion system of **500/1000 lts.** in capacity is supplied with registered pressure vessel certificates. Pricing for larger capacities are determined at time of purchase.



#### 6.2.1 Air Emulsion System 20cfm Air Compressor.

**Required for Air Pressure Vessels Over 205 litre Capacity.**

An independent 20cfm 3 cylinder air compressor is supplied driven by a hydraulic motor operating independent of the vehicle brake system.

A reserve air tank is also supplied to keep constant pressure to the emulsion air pressure vessel.

A filling facility from drums is also available if required.



#### 6.2.2 Air Emulsion System Controls.

Air inlet gauge.

Tank air gauge.

Tank outlet gauge.

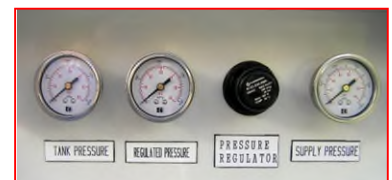
Air pressure regulator.

Air pressure relief valve.

1400ci auxiliary air receiver.

Yellow air safety placard.

All mounted into a external control panel.



#### 6.2.3 12 or 24 Volt Clisby Air Compressor.

An electric compressor is supplied for vehicles

That have no truck air Supply for emulsion air

Pressure vessels.



# FLOCON OPTIONS

## 6 Emulsion Systems and Tanks. (continued)

### 6.3 240 Volt Overnight Emulsion Tank Heating.

Our offer includes 240 volt immersion heater fitted into a thermowell. Designed for overnight heating of emulsion in tanks.

Vehicle immobiliser installed to ensure the vehicle cannot be started while the

240 volt system is powered and heating the emulsion. Also fitted with a RCD for personal protection and safety.

A digital temperature gauge and temperature regulated preset thermostat

of up to 60 degrees Celsius installed. Digital temperature gauge operating only when powered from a 240 volt source.

Tank analogue temperature gauge installed for random temperature

checks when the 240 volt heating system is not powered.



### 6.4 Emulsion Tank Water Heating. (Tanks mounted behind vehicle cabins only)

Our offer includes a an inlet and outlet water tube fitted into the lower part of the emulsion tank for heating of emulsion. Digital temperature readout.

This system uses the water from the truck radiator and will automatically keep the tank heated at the preset temperature selected via the pneumatically operated ball valve and thermostat control. All aspects of safety are supplied to protect the engine in case of water leakage.



### 6.5 Inline Emulsion Water Heat Exchanger. (Hand spraying only)

Our offer includes a stainless steel heat exchanger which allows Radiator water and emulsion to run side by, side warming the emulsion on its way to the spray lance.

This system uses the water from the truck radiator and all aspects of Safety are supplied to protect the engine in case of water leakage.



### 6.6 Emulsion Tank Filter Strainer Top Fill.

Tank inlet box type strainer, for top filling.

# FLOCON OPTIONS

## 6 Emulsion Systems and Tanks. (continued)

### 6.7 50mm Emulsion Tank Filter Strainer Bottom Fill.

50mm camlock connection with inbuilt removable strainer, including Male and Female Camlock installed onto filter base.

Requires 50mm Camlock connection from your bulk tank supply to your emulsion tank filter Camlock fitting.



### 6.8 Replacement Filters Bottom Fill.

Supply of inbuilt spare removable strainer only.



## 7 Emulsion Spray Bars.

### 7.1 Emulsion Spray Bars Designed for Usage In Conjunction with the Aggregate Spreader.

#### 7.1.1 150mm Nozzle Spacing 2.5 Metre CRS Emulsion Spray Bar. Manual Nozzle Isolation Only.

A 15 nozzle 2.5 metre wide spray bar with an **electric/air** control operated from the vehicle cabin.

Application for accurate emulsion seals up from 1.0 to 2.0 litres per square metre. The 15 nozzles can be isolated individually, manual nozzle isolation only. Facility to clean spray bar only.



#### 7.1.2 150mm Individual Air Nozzle Spacing 2.5 Metre CRS Emulsion Spray Bar. (15 Switches Mounted in Control Box Near Aggregate Spreader)

A 15 nozzle 2.5 metre wide spray bar with individual electric air operated nozzles. 15 individual switches are located at the rear of the body, with a Master auto switch. Select nozzles from 1-15 in any order then select the Master auto switch, this switch transfers all the selected nozzles to the control switch located in the vehicle cabin.

Application for accurate emulsion seals up from 1.0 to 2.0 litres per square metre. Facility to clean spray bar only.



#### 7.1.3 150mm Individual Air Nozzle Spacing 2.5 Metre CRS Emulsion Spray Bar. (15 Switches Mounted in Control Box in Vehicle Cabin)

A 15 nozzle 2.5 metre wide spray bar with individual electric air operated nozzles. 15 individual switches are located in the vehicle cabin, with a Master auto switch. Select nozzles from 1-15 in any order then select the Master auto switch, this switch transfers all the selected nozzles to the control switch located in the vehicle cabin. Application for accurate emulsion seals up from 1.0 to 2.0 litres per square metre. Facility to clean spray bar only.



### 7.2 15 Electrically Heated Spray Nozzles for Spray Bars.

15 electrically heated spray nozzles, heated to 70 degrees celcius, when required. Can assist in eliminating the use of chemical fluid to clean the nozzles in the bar.



### 7.3 Air Assisted Spray Bar Spraying and Stored Height Adjustment.

Left and right pneumatic cylinders are installed to raise and lower the spray bar into the spraying position and travel position. Cabin controlled.



# FLOCON OPTIONS

## 7 Emulsion Spray Bars. (continued)

### 7.4 Spray Bar Cleaning System.

A electric or air pump will be fitted below your existing standard emulsion flushing tank and connected to the spray bar with a brass quick release coupling and one check valve for cleaning purposes only.



### 7.5 Cabin Controlled Emulsion Litres Per M2 Rate.

The system consists of a cabin mounted digital screen which connected to the vehicle ground speed via a GPS system installed. The emulsion tank litreage is also connected to the system via weighing scales installed onto the emulsion tank.



L/m2 will display only while spraying emulsion from the spraybar. This will calculate the L/M2 hitting the ground for all nozzle full width emulsion spraying. For half width sprays double the figure displayed on the unit.

#### DIGITAL CONTROL UNIT READOUTS:

- Liquid Emulsion tank level in litres.
- Liquid Emulsion used after sealing. (Ability to zero tank level)
- Literage per square metre when sealing.
- Vehicle road speed in metres per second..

### 7.6 External Emulsion Dispensing Level Indicator.

This system can be used on any tank with any liquid product.

The system consists of either externally mounted digital display panel Or a cab mounted display which displays the tank product level.



The emulsion tank litreage is displayed onto the screen via (4) four weighing scales installed onto the emulsion tank.

#### DIGITAL CONTROL UNIT READOUTS:

- Liquid emulsion tank level in litres.
- Liquid emulsion dispensed.
- Ability to zero tank the level.





# FLOCON OPTIONS

## 8 Body Covers.

### 8.1 Hand Operational Self Winding Body Cover.

Manual ground level self winding bow type cover with heat treated pvc material supplied fitted with or without side skirts.



### 8.2 12/24 Volt Electric/Hydraulic Operational Self Winding Body Cover.

Operated from the vehicle cabin by an electric switch, self winding bow type cover with heat treated pvc material supplied fitted with or without side skirts.



### 8.3 12/24 Volt Electric Operated Hydraulic Self Opening Body Doors.

Two synchronised doors fully insulated and water proof operated from the vehicle cabin by an electric switch. External manual hydraulic override installed. Opening and closing of the doors is by two hydraulic cylinders. Plant and loader height restrictions can apply.



# FLOCON OPTIONS

## 9 Tow Bars and Cab Chassis Options.

### 9.1 BT350 50 mm Ball Tow Bars up to 3500 kg Capacity.

A tailored tow bar to suit the Flocon unit chassis supplied with either a 50 mm ball or tongue style fitted with a 24 Volt 7 pin socket.



### 9.2 BT1200H Pintle Hook Tow Bars up to 7000 kg Capacity

A tailored tow bar to suit the Flocon unit chassis supplied with a Pintle hook and fitted with a 24 volt 7 pin socket.



### 9.3 BT1250H 3500 kg 50 mm Ball & 7000 kg Pintle Hook Tow Bars.

A tailored tow bar to suit the Flocon unit chassis supplied with a Hayman Reese square socket and removable 50 mm ball and fixed 7000 kg pintle hook. A 24 volt 7 pin socket is also fitted.



### 9.4 Multi-Hitch 3500 kg 50 mm Ball & 7000 kg Pintle Hook Tow Bars.

A tailored tow bar to suit the Flocon unit chassis supplied with a Multi-Hitch 50 mm ball and fixed 7000 kg combination pintle hook. A 24 volt 7 pin socket is also fitted.



### 9.5 Westinghouse Foot Control Only Air Trailer Brake System.

Westinghouse foot control only air trailer brake system, colour coded. Including dust covers for couplings.



### 9.6 24-Volt –12 Volt Basic Reducer Suit 12 Volt Trailer Lights.

Basic 24-12 volt trailer light reducer.



### 9.7 12 Volt Trailer Brake Controller.

A cabin mounted 12 volt trailer brake controller is fitted for trailers with electric brakes, including trailer base socket.



### 9.8 24 Volt Trailer Brake Controller.

A cabin mounted 12 volt trailer brake controller and 24-12 volt voltage reducer is fitted for trailers with electric brakes, including trailer base socket.



## OTHER TOW BARS AVAILABLE ON REQUEST

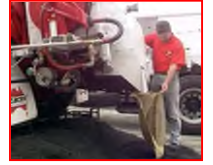
# FLOCON OPTIONS

## 10 Two Man Sandbagging Attachment.

A quick release attachment for the rear of the Flocon body to enable filling of sand bags by two men.

The Flocon unit will need to be located on a ramp to allow the two men at the rear of the unit to stand straight.

**(The vehicle will require to be placed on a ramp)**



## 11 Rear Swing Wheelbarrow Carrier and Wheelbarrow.

A hinged wheelbarrow carrier is fitted to the rear of the body enabling the barrow to be carried and hinged to allow material spreading if required. A sturdy wheelbarrow is also supplied to suit the carrier.



## 12 Groeneveld Auto Greasing System

A Groeneveld auto greasing system is installed to the Flocon Body components and all spreading equipment, allowing all equipment to be properly lubricated at all times.



# FLOCON OPTIONS

## 13 Alloy Hand Rakes and Screeds

Choice of 300-600mm alloy rake or screed or combination, rake and screed.



## 14 Warning System Options.

**'B' Type LED Arrow Boards.**

**(12/24 Volt Electric Actuators Only Used When Air is not Available on the Cab Chassis)**

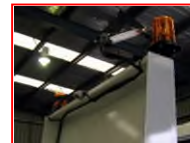
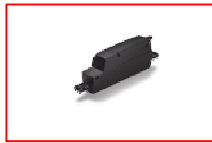
### 14.1 'B' Type LED Single Sided Arrow Board 12/24 Volt.

One single sided 1500 mm x 750 mm directional arrow board 12/24 volt. These arrows provide directional information to the rear of the vehicle only and contain 15 LED lights. 8 amp current draw. 12/24 volt solenoid and air cylinder pressure adjustable to raise and lower the board. Front mounted Pictorial 'Workmen Ahead' logo installed on the board. Includes cabin controller, cables, wiring, brackets and Installation.



### 14.2 'B' Type LED Double Sided Arrow Board 12/24 Volt.

One double sided 1500 mm x 750 mm directional arrow board 12/24 volt. These arrows provide directional information to the rear of the vehicle only. and contain 30 LED lights. 16 amp current draw. 12/24 volt solenoid and air cylinder pressure adjustable to raise and lower the board. Front mounted Pictorial 'Workmen Ahead' logo installed on the board. Includes cabin controller, cables, wiring, brackets and Installation.



### 14.3 3300 Series LED Warning Sign Safety Director.

A 1,207mm long x 64mm Deep x 58mm high amber safety director bar is installed at the rear of the body. Illuminated amber. Flash patterns without arrow signals. Installed. Cabin controlled.



### 14.4 3000 Series Halogen Warning Sign Safety Director.

A 1,204mm long x 124mm Deep x 74mm wide amber safety director bar is installed at the rear of the body. Illuminated amber. 8 Flash patterns including arrow signals. Installed. Cabin controlled.



### 14.5 VMS – Multicolour Vehicle Mounted Display.

Brightness control fully automatic Power from vehicle: 12 or 24 Volt Stainless steel hardware Dulux low glare, matt black powder coat Dual weather seals to case enclosure TM405C Dimensions: 1450 x 1006 x 98mm TM405C Display size: 1280 x 800mm Display capability: 4 Lines Characters per line: Up to 8 Pixel pitch: 16 x 16mm LED display: Colour (RGB) LED lifespan: 100,000+ hours Total Viewing Angle of 120o





# FLOCON OPTIONS

## 14 Warning System Options. (continued)

### 14.6 Emergency Stop Body Buttons. (Standard)

Large emergency stop button, stops all hydraulic body functions immediately fitted in cabin or at the rear of the body.



### 14.7 12/24 Volt Reverse Alarm. (Standard)

(In lieu of standard truck reverse alarm)

77-102 dba self adjusting reverse alarm.



## 15 Intercom and Safety Cameras.

### 15.1 Intercom System.

Intercom module fitted in the vehicle cabin with external speaker fitted to the rear of the unit. Enabling the rear operators to communicate with the vehicle driver.



### 15.2 Colour 7.0" Single Rear Vision Camera System.

12-24 volt 7.0" colour monitor fitted in the vehicle cabin and one rear mounted camera and shutter. Enables the driver to sight all operators in a very wide arc at the rear of the unit.



### 15.3 Colour Dual Rear Vision Camera System.

12-24 volt 7.0" colour monitor fitted in the vehicle cabin and two mounted cameras. A rear mounted camera enables the driver to sight all operators in a larger arc at the rear of the unit.

The second camera is mounted at the rear of the body cab protector enabling the operator to see into the body hopper to check the amount of product that is present.



### 15.4 Up to Four (4) Colour Rear Vision Camera System.

12-24 volt 7.0" colour monitor fitted in the vehicle cabin

and up to four mounted cameras. A rear mounted camera enables the driver to sight all operators in a larger arc at the rear of the unit. The other camera mountings are of customer choice.



### 15.5 ProViu ASL360 Camera System.

ProViu ASL360 Camera System delivers optimal, all around view of both vehicle and surroundings in real time, on one 7 inch video screen.



# FLOCON OPTIONS

## 16 Suitable Cab Chassis Drive Lines for Efficient 2.4 Metre Paver Spreading.

### 16.1.1 Cab Chassis Manual Transmissions.

#### How to Reduce your Cab Chassis Slow Ground Speed. (Manual Transmission Installed)

- a. Low profile tyres.
- b. Differential ratio change. (this will decrease the vehicles top speed)
- c. Live engine drive PTO and hydraulic pump system utilising the engine for more efficient and immediate horsepower to the hydraulic system rather than the standard vehicle limited transmission PTO and hydraulic pump system.
- d. **Install a AT-1202 Eaton Auxiliary Transmission.**



An auxiliary transmission can be fitted in the event that your vehicle is not able to meet the speed requirements. The auxiliary gearbox has a ratio of 1:1 for the normal highway use and a 2:3 ratio for operation with our spreading attachments. The selection of the two ratios is achieved by means of an air or electric controlled system.



It should be noted there is a neutral position between the 1:1 ratio and The 2:3 ratio even though we do not use the neutral position. We recommend for safety reasons that a tail shaft type handbrake arrangement should not be utilised where possible. Engineering certificates supplied for registration purposes.



### 16.1.2 Cab Chassis Automatic Transmissions.

**The Allison 2500 series automatic transmission are not suitable for Paver spreading applications.**



The use of Flocon Paver with the **Allison 3000/3200 or 3500 series** automatic transmissions installed with a **differential ratio of 6.1:1 or better and the torque converter locked in first gear at 1000 rpm is sufficient to carry out 2.4 metre maximum spreading.**

The slow ground speed of 2.5 kph or less with the Allison automatic transmissions and the diff change as nominated above are not an issue for stop, start 2.4 metre Paver spreading.

#### How to Reduce your Cab Chassis Slow Ground Speed. (Manual Transmission Installed)

- a. Low profile tyres.
- b. Differential ratio change to 6.1:1 or better.

# FLOCON OPTIONS

## 16.2 Hotmix/Premix Paving Units.

### 16.2.1 2.0 Metre Automatic Operation Hotmix/Premix Footpath Paving Unit.

The paving units function is to spread material to a maximum depth of 150 mm and width from 0.5 metres to 2.0 metres.

The paver is forced to the ground via dual adjustable air pressure cylinders. Left and right manual blade height adjustments.

2.5 metre left and right adjustable cast iron travel wheels.

Material is fed to the paver via the auto controlled sensor eye.



Adjustable to varying spreading widths.

#### If Air is available on the Cab Chassis.

#### 12/24 Volt Ultrasonic Sensor to Control Body Conveyor System.

An Ultrasonic Sensor is fitted to the rear Paver back plate with a adjustable maximum sense range of up to 300mm and minimum sense range of 60mm.

The sensor when fitted and adjusted to the required material height in the Paver will automatically stop and start the body conveyor system feeding the Paver, eliminating the manual need to push the rear discharge solenoid button. Easily adjustable sensor heights if required.



### 16.2.2 2.5 Metre Automatic Operation Hotmix/Premix Footpath Paving Unit.

The paving units function is to spread material to a maximum depth of 150 mm and width from 0.5 metres to 2.5 metres. The paver is forced to the ground via dual adjustable air pressure cylinders.

Left and right manual blade height adjustments.

3.0 metre left and right adjustable cast iron travel wheels. Material is fed to the paver via the auto controlled sensor eye.



Adjustable to varying spreading widths.

#### 12/24 Volt Ultrasonic Sensor to Control Body Conveyor System.

An Ultrasonic Sensor is fitted to the rear EMU back plate with a adjustable maximum sense range of up to 300mm and minimum sense range of 60mm.

The sensor when fitted and adjusted to the required material height in the Paver will automatically stop and start the body conveyor system feeding the Paver, eliminating the manual need to push the rear discharge solenoid button. Easily adjustable sensor heights if required.



# FLOCON OPTIONS

## 16.2 Hotmix/Premix Paving Units. (continued)

### 16.2.3 2.5 Metre Automatic Operation Hotmix/Premix Augured Paving Unit.

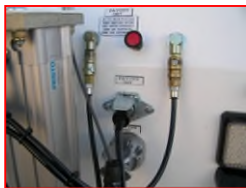
The paving units function is to spread material to a maximum depth of 150 mm and width from 0.5 metres to 2.5 metres. The paver is forced to the ground via dual adjustable air pressure cylinders. The material is fed to the outer edges of the paver by hydraulically operated left and right augers. Manual controllable left and right blade height adjustments, rear discharge and auger control. 3.0 metre left and right adjustable cast iron travel wheels. Material is fed to the paver via the conveyor rear discharge, cabin or remote controlled. **Adjustable to varying spreading widths.**



#### 12/24 Volt Ultrasonic Sensor to Control Body Conveyor System.

An Ultrasonic Sensor is fitted to the rear EMU back plate with a adjustable maximum sense range of up to 300mm and minimum sense range of 60mm.

The sensor when fitted and adjusted to the required material height in the Paver will automatically stop and start the body conveyor system feeding the Paver, eliminating the manual need to push the rear discharge solenoid button. Easily adjustable sensor heights if required.



**Electric & Air Connections    Dual Pressure Adjustable Air Cylinders**



**Hydraulic Motors**



**Left & Right Augers**



**Hydraulic Manifold Block**



# FLOCON OPTIONS

## 16.2 Hotmix/Premix Paving Units. (continued)

### 16.2.4 Hydraulic Winch.

Fitted with a hand manual control valve and hydraulic winch to raise and lower the paving unit. The winch uses a 50mm loading strap for lowering and raising as well as a hold back valve, to eliminate any creeping through the hydraulics.

The winch also has a hydraulic flow control valve to adjust the speed of the winch.



### 16.2.5 12/24 Volt Electric Winch.

Fitted with a 2041kg Super winch to raise and lower the unit. Supplied with a hand held remote control.



# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.3 500 MM Off Road Edge Maintenance Units.

#### 16.3.a 500 mm Edging Unit with Mechanical Broom & Remote Control.

This unit places the truck wheels off the road edge to enable spreading. The edge maintenance unit function is road edge repairs up to 500 mm wide at approximately 150 mm depth's. It also has the facility to sweep the road edge with the mechanical speed fixed driven broom fitted. The edge unit is forced to the ground via a single adjustable air pressure cylinder. The unit can also spray emulsion along the road edge. **The unit is fitted with a remote controlled rear discharge and pneumatic emulsion sprayer hand pad, eliminating the need to stand on the EMU platform.**  
**Spreading Position**



#### 16.3.b 500 mm Edging Unit with Hydraulic Broom & Remote Control.

This unit places the truck wheels off the road edge to enable spreading. The edge maintenance unit function is road edge repairs up to 500 mm wide at approximately up to 150 mm depth's. It also has the facility to sweep the road edge with the hydraulically speed adjustable driven broom fitted. The edge unit is forced to the ground via a single adjustable air pressure cylinder.



Travel Position EMU

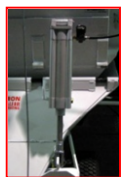


Travel Position Air Cylinder

The unit can also spray emulsion along the road edge. **The unit is fitted with a remote controlled rear discharge and pneumatic emulsion sprayer hand pad, eliminating the need to stand on the EMU platform.**



Remote Control Hand Pad & Antenna



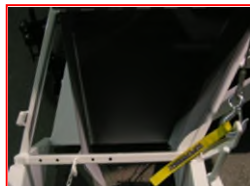
Emulsion & Air Connections



Single Adjustable Air Cylinder



Hyd Broom Connection



Spreading Width Adjustments



Inspection Door



500mm Broom



Height Adjustments

# **FLOCON OPTIONS**

## **16 Spreading Equipment. (continued)**

### **16.3.c Hydraulic Winch.**

Fitted with a hand manual control valve and hydraulic winch to raise and lower the paving unit. The winch uses a 50mm loading strap for lowering and raising as well as a hold back valve, to eliminate any creeping through the hydraulics. The winch also has a hydraulic flow control valve to adjust the speed of the winch.



### **16.3.d 12/24 Volt Electric Winch.**

Fitted with a 2041kg Super winch to raise and lower the unit. Supplied with a hand held remote control.



**NOTE:**

**Only one winch either hydraulic or electric is required for the Hotmix/Premix Paving Unit, Hotmix/Premix Off Road Edge Maintenance Unit.**

# FLOCON OPTIONS

## 16.4 300mm or 500 mm Side Conveyor On Road Edge Maintenance Unit.

This unit places the truck wheels on the road edge to enable spreading, onto the road shoulder of up to 500mm wide, with emulsion spraying and sweeping available. Operation of the system is via the vehicle cabin and auto controlled filling of the conveyor.

### 16.4.A Cabin Control Panel Operation of Edging Unit Functions.

### 16.4.B Remote Control Operation of EMU Conveyor Feed System.

### 16.4.C Side Conveyor.

### 16.4.D 300mm or 500 mm Side Conveyor Edging Attachment.

### 16.4.E Pneumatic Emulsion Spray.

### 16.4.F Hydraulic Operated Transverse Rotating Jib.

### 16.4.G 500 MM Auxiliary Broom.

### 16.4.H Hydraulic Raise and Lower Broom Platform Suit Broom.

### 16.4.I 12/24 Volt Hydraulic Dual Solenoid Valve .

### 16.4.J 12/24 Volt Hydraulic Oil Cooler.





# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.4 300mm or 500 mm Side Conveyor On Road Edge Maintenance Unit.

#### 16.4.a Cabin Control Operation of Edging Unit Functions as Follows.

- i Pto cabin switch on.
- ii Hazard Lights.
- iii Body rear discharge conveyor system, switch on.
- iv Pneumatic emulsion sprayer in place, switch on.
- v 500mm hydraulic broom lowered and in place, switch on. (if fitted)
- vi Side conveyor edge attachment and screed board fitted, switch on.



#### 16.4.b Multi Volt Ultrasonic Sensor to Control Body Conveyor System.

An Ultrasonic Sensor is fitted to the rear EMU back plate with a adjustable maximum sense range of up to 300mm and minimum sense range of 60mm.

The sensor when fitted and adjusted to the required material height in the Paver will automatically stop and start the body conveyor system feeding the Paver, eliminating the manual need to push the rear discharge solenoid button. Easily adjustable sensor heights if required.



#### 16.4.c Side Conveyor.

The Side Conveyor is a 2.0 metre rubber belt hydraulic driven attachment. Material from the main hopper slat conveyor system is placed into the Side conveyor edge attachment which moves the material to either the left or right for placement directly into the edging attachment and screed. Material is fed via the body slat conveyor system onto the side conveyor. Fitted with a safety travel strap as shown.



# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.4 300mm or 500 mm Side Conveyor On Road Edge Maintenance Unit.

#### 16.4.d 300mm or 500 mm Edging Attachment.

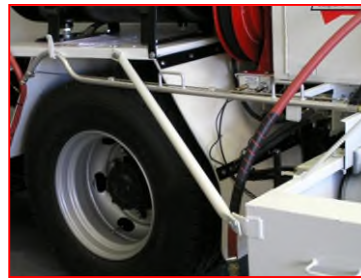
A edge maintenance unit which is fitted to the near side of the side conveyor. The EMU,S main function is for road edge repairs up to 300mm or 500 mm wide at approximately 150 mm deep.

The unit consists of the following items:

1. Material storage attachment, which fits into the end of the side conveyor, via to heavy RHS guides, locking pins and safety brace.
2. Lower material screeding section, pneumatic travel wheel, two floating cast wheels and the following;
  - i. Left & right adjustable side floating plates.
  - ii. left and right rear height adjusters.
  - iii. Adjustable air cylinder and pressure gauge to force the lower material section to the road surface.



**Material Storage Attachment**



**Installed into End of Conveyor**



**Side Brace Connected**



**Lower Screeding Section**



**Pneumatic Wheel**



**Cast Steel Floating Wheels**



**L&R Side Floating Plates**



**L&R Rear Height Adjustment**



**Adjustable Air Cylinder**

# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.4 300mm or 500 mm Side Conveyor On Road Edge Maintenance Unit.

#### 16.4.e Pneumatic Emulsion Spray.

A 300mm or 500mm width and height adjustable pneumatic operated quick release electric, air and emulsion sprayer is supplied and fitted in front of the side conveyor. The sprayer is height adjustable. A strip can be sprayed in front of the asphalt being laid. The spray is activated and switched of by electric pneumatics.



#### 16.4.f Hydraulic Operated Transverse Rotating Jib.

The body will be fitted with a heavy duty positioning jib and hand winch to remove and fit the Edging Attachment and Screeding Plate. The Side Conveyor Edging Attachment will also contain a storage area at the rear of the conveyor for the Edging Attachment and Screeding Plate when not in use. This will be located within reach of the hoist.

**NOTE:** The Edging Attachment and Screeding Plate can only be stored on Vehicle Cab Chassis with GVM'S of 14000kgs and higher. Smaller GVM'S will allow these units to be too low to the ground where damage may occur. Alternative transport will be required ie... small trailer.





# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.4 300mm or 500 mm Side Conveyor On Road Edge Maintenance Unit.

#### 16.4.g 500 MM Auxiliary Broom.

A auxiliary broom which is fitted to the near side of the vehicle in front of the edge maintenance unit. The broom is fitted with a dust cover. Mounting is in on hydraulic platform, with variable height adjustments and variable broom speed control. **If Room permits for fitting on the vehicle only.**



#### 16.4.h Hydraulic Raise and Lower Broom Platform.

The hydraulic equipment control moves the broom to the sweeping position required and also to the correct height for transport. Mechanical locks are provided in the transport position. The platform is the same as for the compaction equipment and is fitted with a hold back valve to eliminate the platform creeping when placed into the desired sweeping position.



#### 16.4.i 12/24 Volt Hydraulic Dual Solenoid Valve.

The supply of a secondary hydraulic flow control valve is required to operate the side conveyor simultaneously with the body rear discharge conveyor system. Including wiring into the vehicle cabin. The valve has the facility to also accept the hydraulic auxiliary broom system if required.





# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.5 Auto Aggregate Spreader with Hydraulic Augers With Two Auto Pneumatic Cylinder Door Openers.

A aggregate spreader is fitted to the rear of the unit. The aggregate spreader accurately places 5-14mm aggregates at a chosen preset rate over the emulsion seal.

Spreader width is 2.4 metres with 2 x 600 mm centre doors, 2 x 300 mm left doors and 2 x right 300 mm doors fitted. All the doors can be independently operated. The unit is supplied with two (2) rear shovel points.

The aggregate is fed to the aggregate spreader by the body horizontal conveyor system.

The aggregate spreader is fitted with a split auger, driven by two independent left and right hydraulic motors.

The augers move the material from the centre of the spreader to the left and right outer edges. Each auger is fitted with a material sensor switch, which allows the augers to move material independently and automatically, to the outer edges of the spreader ensuring material is kept up to the spreading sequence over the emulsion seal and in the other hand ensuring the spreader is not overfilled. The augers are covered by steel mesh allowing contact with the augers directly.

**Two air cylinders operate the gates with a number of spreading widths. Combinations from left to right. Single door operations are carried out by manually releasing the door leavers that are not required to open. This unit can be either controlled from the rear of the body or the vehicle cabin automatically.**

A limit switch is also provided at the rear of the body tailboard, to control the flow of varying materials into the spreader.

All the functions of the aggregate spreader, body Horizontal conveyor system are controlled by a PLC, which allows the complete system to operate automatically in the correct timings from the vehicle cabin.



# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.5.a Six (6) Individual Pneumatic Cylinder Aggregate Spreader Door Openers In Lieu of 16.6 Two Auto Door Openers, Controls at Rear.

Six air cylinders operate the individual gates from 1-6.

This control box and (6) six switches is mounted near the Aggregate Spreader at the rear unit.

Selection of doors can be made from 1-6 then turning on the auto remote switch transfers the doors selected to the cabin mounted auto remote switch.



### 16.5.b Six (6) Individual Pneumatic Cylinder Aggregate Spreader Auto Door Openers, Controls in Cabin in lieu of 16.6.a rear.

As 16.6a except 1-6 control unit is installed in the vehicle cabin.



### 16.5.c Hydraulic Winch.

Fitted with a hand manual control valve and hydraulic winch to raise and lower the unit onto free standing frames.

The winch uses a 50mm loading strap for lowering and raising as well as a hold back valve, to eliminate any creeping through the hydraulics.

The winch also has a hydraulic flow control valve to adjust the speed of the winch.



# FLOCON OPTIONS

## 16 Spreading Equipment. (continued)

### 16.6 Grit/Salt/Soil Spinner.

The grit spreader spinner places grit, sand, soil and fertiliser in various applications. The speed of the body main conveyor chain and spinner are variable to allow different spread rates. The operation of the spinner can be from the rear of the body or from the Cab-chassis cabin. Spread width up to 8 metres wide.



### 16.7.a Drainage Back Filling Hydraulic Side Conveyor.

A **2.0 metre** Side Conveyor Attachment to **suit 4x2 single axle Vehicles only**. The conveyor is a rubber belt hydraulic driven attachment with a **1.0 metre reach outside the vehicle wheel line**. Material from the main hopper conveyor system is placed into the Side Conveyor which moves the material to either the left or right for placement directly onto the ground. The unit is used for trench bedding, back filling, road shoulders, kerb and channel bedding, soil and rock placement on batters, asphalt strip laying and filling sand bags etc. An installation trolley is included.



### 16.7.b Drainage Back Filling Hydraulic Side Conveyor.

A **2.5 metre** Side Conveyor Attachment to **suit 6-8x4 single axle vehicles only**. The conveyor is a rubber belt hydraulic driven attachment with a **1.5 metre reach outside the vehicle wheel line**. Material from the main hopper conveyor system is placed into the Side Conveyor which moves the material to either the left or right for placement directly onto the ground. The unit is used for trench bedding, back filling, road shoulders, kerb and channel bedding, soil and rock placement on batters, asphalt strip laying and filling sand bags etc. An installation trolley is included.



### 16.7.c Cabin Controlled Variable Side Conveyor Speed.

Cabin controlled adjustable and variable belt speed of the conveyor.



### 16.7.d Hydraulic Side Shift One Way to Suit the Side Conveyor.

A hydraulic cylinder is fitted to move the conveyor 1 metre one way for spreading, vehicle cabin controlled.





# **FLOCON FORWARD-MOVING AGGREGATE SPREADER**



## ***Facilities as Follows;***

- *The Forward moving Aggregate spreader can spread aggregate up to 20mm in size.*
- *Cabin controlled.*
- *The feed of the material to the spreader box is maintained by the automatic control system.*
- *2700mm spreading width available with aggregate spreader fitted to the truck.*
- *5000mm spreading with self-propelled chipping spreader.*
- *8 doors available.*
- *2 Split hydraulic augers are installed to help spread the material to full width, if required.*
- *Legal Payload of 10 tonne on this mode other chassis available.*
- *Capable of towing 40,000kg ATM.*
- *NHVR Approved can be used in any state of Australia without permits*
- *VSB6 Compliant*



# **STANLEY HYDRAULIC BREAKERS**

## **STANLEY HAND HELD HYDRAULIC BREAKERS PRICE LIST:**

- 1 Light Asphalt Breaker Stanley Model DR19111.  
Hex Size 7/8". Weight 10.9 kgs.

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- 2 Light Asphalt Breaker Stanley Model BR37110.  
Hex size 7/8". Weight 17 kgs.  
Easy Ride Foot Facility not Available.  
'T' Handle.

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- 3 Medium Asphalt Breaker Stanley Model BR40550.  
Hex size 1". Weight 18 kgs.  
Easy Ride Foot Facility not Available.  
'T' Handle.

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- 4 Medium Asphalt Breaker Stanley Model BR45120E.  
Hex size 1 1/8". Weight 22 kgs.  
Easy Ride Foot Facility.

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- 5 Medium Asphalt Breaker Stanley Model BR45130E.  
Hex size 1 1/4". Weight 22 kgs.  
Easy Ride Foot Facility.

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- 6 Medium Asphalt Breaker Stanley Model BR45125S.  
Hex size 1 1/8". Weight 26kgs.  
Easy Ride Foot Facility.  
Spring Handle Anti Vibration.

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- 7 Medium Asphalt Breaker Stanley Model BR45135S.  
Hex size 1 1/4". Weight 22 kgs.  
Easy Ride Foot Facility.  
Spring Handle Anti Vibration.

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- 8 Medium - Heavy Asphalt Breaker Stanley Model BR67120E.  
Hex size 1 1/8". Weight 30 kgs.  
Easy Ride Foot Facility.

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- 9 Medium-Heavy Asphalt Breaker Stanley Model BR67130E.  
Hex size 1 1/4". Weight 30 kgs.  
Easy Ride Foot Facility.

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- 10 Medium - Heavy Asphalt Breaker Stanley Model BR72120.  
Hex size 1 1/8". Weight 27 kgs.  
Easy Ride Foot Facility.  
'T' Handle.

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- 11 Medium-Heavy Asphalt Breaker Stanley Model BR72130.  
Hex size 1 1/4". Weight 27 kgs.  
Easy Ride Foot Facility not Available.  
'T' Handle.

# CONSTRUCTION EQUIPMENT

## 1 Wacker Construction Equipment.

### 1.1 VP1135AW Petrol Engine Vibratory Asphalt Plate.

Length x Width x Height: 995mm x 350mm x 880mm.  
Base Plate Dimensions: (WXL) 350mm x 520mm.  
Operating weight: 65kgs.  
Water Tank Capacity: 3.8lts.  
Fuel Tank Capacity: 2.5lts  
Engine: 3.0kW Honda single cylinder  
4 cycle petrol.



### 1.2 WP1550AW Petrol Engine Vibratory Asphalt Plate.

Length x Width x Height: 875mm x 500mm x 965mm.  
Base Plate Dimensions: (WXL) 500mm x 585mm.  
Operating weight: 88kgs.  
Water Tank Capacity: 10.5lts.  
Fuel Tank Capacity: 3.7lts  
Engine: 4.1kW Honda single cylinder  
4 cycle petrol.



### 1.3 BS60-2 Petrol Engine Vibratory Rammer.

Length x Width x Height: 675mm x 345mm x 965mm.  
Shoe Dimensions: (WXL) 280mm x 330mm.  
Operating weight: 70kgs.  
Fuel Tank Capacity: 3.0lts  
Engine: 2.3kW Wacker WM 80 single cylinder  
2 cycle petrol.



### 1.4 BS60-4 Petrol Engine Vibratory Rammer.

Length x Width x Height: 675mm x 345mm x 330mm.  
Shoe Dimensions: (WXL) 280mm x 330mm.  
Operating weight: 70kgs.  
Fuel Tank Capacity: 3.0lts  
Engine: 2.8kW Wacker WM 90 single cylinder  
4 cycle petrol.



# CONSTRUCTION EQUIPMENT

## 1 Wacker Construction Equipment. (continued)

### 1.5 BTS1035L3 Petrol Engine Asphalt/Concrete Power Saw.

Length x Width x Height: 675mm x 345mm x 330mm.  
Shoe Dimensions: (WXL) 280mm x 330mm.  
Operating weight: 70kgs.  
Fuel Tank Capacity: 3.0lts  
Engine: 2.8kW Wacker WM 90 single cylinder  
4 cycle petrol.



### 1.6 Diamond Blade to Suit BTS1035L3.

Diamond blade to suit the BTS1035L3 concrete saw.



### 1.7 BTS1035L3 Petrol Engine Asphalt/Concrete Power Saw Guide Cart.

Simple to install Saw Guide Cart.



### 1.8 BH23 Petrol Engine Asphalt/Concrete Breaker.

Tool Hex Size: 1 1/8".  
Length x Width x Height: 790mm x 450mm x 333mm.  
Operating weight: 23kgs.  
Fuel Tank Capacity: 1.8lts  
Engine: 2.0 kW Wacker WM 80 single cylinder  
2 cycle petrol.



## 2 Bomag Roller Construction Equipment.

### 2.1 Bomag BE55E Single Drum Pedestrian Roller.

Width: 560mm.  
Weight: 161kgs.  
Frequency: 77Hz.  
Engine: Honda single cylinder  
4 cycle petrol.



# **FLOCON UNIT CHECK LIST**

## **Conveyor System:**

- Chain conveyor system (hotmix, premix, aggregates, crushed rocks, sand & soils)
- Rubber belt conveyor system (dry materials only)
- Reverse conveyor system control (Standard)

## **Rear Body Attachments:**

- Material hand shovel bin
- Side edge repair chute
- Full width spreading plate
- Shovel cleaning bin
- Sand bagging attachment
- Rear mounted wheelbarrow carrier & wheelbarrow

## **Emulsion System:**

- Standard emulsion tank constructed into body shell left hand side
- Spray system including 8 metres of hose assembled onto heavy duty spring retractable hose reel and hand lance
- Open impeller pump system driven by hydraulic system (standard)
- Gravity fed emulsion tanks up to 250- 2000 litres suit open impeller pumping system
- Air operated pumping system using vehicle air system up to 205 litre pressure vessels
- Certified air pressure vessels up to 250-2000 litres suit air operated pumping system
- Kero system gravity to clean emulsion system without reel, spraying system hose and lance
- Kero system air pressure to clean emulsion system without reel, spraying system hose and lance
- 240 Volt AC overnight heating
- Vehicle radiator water/emulsion heat exchanger
- Bladder type level indication suitable for type gravity emulsion tanks only

## **Body Heating & Insulation:**

- Heating of the body using the truck exhaust including heating bypass valve, insulation (25 mm thick) in the body side panels & floor
- Insulated hydraulic operated lids electric cabin control
- Manually operated hand wind front to rear on / off cover
- Electrically operated from cabin wind front to rear on / off cover

## **Hydraulic Systems:**

- Manual type transmission PTO fitted with hydraulic pump, cabin controlled
- Automatic type transmission drive, gearbox fitted with PTO and hydraulic pump controlled from cabin. Some Allison automatic transmissions can not be utilized for spreading on the Flocon unit. Please seek advice from your local Allison dealer or Flocon before purchasing.
- Automatic type transmission, engine driven live drive PTO, fitted with cabin controlled piston pump. Please seek advice from your local Allison dealer or Flocon for the correct model of automatic transmission before purchasing
- Engine live drive PTO fitted with piston pump, cabin controlled. The cab chassis must be supplied to Flocon with the engine live drive outlet fitted
- Hydraulic system suitable to operate hydraulic tools including supply of cooler



# **FLOCON UNIT CHECK LIST**

## **Compaction Equipment Carriers:**

- Compacting equipment carrier standard lower and raise suit plate/rammer/roller.
- Compacting equipment carrier Robotic lower and raise suit plate/rammer/roller.

## **Additional Material Storage Bins:**

- 0.5 m<sup>3</sup> gravity unloading spoil / rubbish bin one loading point
- 0.5 m<sup>3</sup> Hydraulic unloading spoil / rubbish bin one loading point
- 1.0 m<sup>3</sup> Hydraulic unloading spoil / rubbish bin two loading points
- 40 kg ground level loading hydraulic side lifter to tipping spoil bin
- 0.25 m<sup>3</sup> body side gravity unloading sand / grit bin one shovel outlet
- 1.0 m<sup>3</sup> body front gravity unloading sand / grit bin two shovel outlets
- 1.0 m<sup>3</sup> body rear gravity unloading sand / grit bin two shovel outlets

## **Storage Facilities:**

- Sign storage tray between cabin and body
- Storage locker between cabin and body
- Left hand small locker
- Right hand large locker

## **Water Systems:**

- Polyurethane water tank capacity up to 200 litres fitted with access tap
- 12/24 VDC spraying system hose and lance
- Hydraulic driven water pump
- Air pressure vessel water tank capacity up to 200 litres fitted with access tap
- 23 litre hand wash poly tank
- Plastic water reel, hose and lance

## **Kero System:**

- Kero tank capacity up to 40 litres fitted with access tap
- 12/24 VDC spraying system
- Air pressure vessel kero tank capacity up to 40 litres fitted with access tap
- Steel kero reel, hose and lance

# **FLOCON UNIT CHECK LIST**

## **Warning Equipment:**

- Electric raise and lower of pictorial workman logo sign labelled front & rear( Vacuum Braked Vehicles)
- Air raise and lower of pictorial workman logo sign labelled front & rear( Air Braked Vehicles)
- Intercom system driver to crew
- Reverse alarms
- Rear vision monitor and camera
- 360 vision cameras
- VMS board
- 700 x 1500 mm arrow board air raise & lower Workman Pictorial sign mounted in front of board
- 700 x 1500 mm arrow board air raise & lower double sided
- LED vehicle lighting
- Traffic cones
- Portable road signs

## **Towing Equipment:**

- ADR approved 50 mm ball tow bar
- ADR approved double tongue tow bar
- ADR approved pintle hook tow bar
- ADR approved Bartlett ball tow bar
- ADR approved Bartlett ring feeder tow bar
- Air trailer brake system
- Electric trailer brake system
- 24 -12 volt dc voltage reducer
- Tow bar height \_\_\_\_\_

## **Body Painting:**

- Body colour \_\_\_\_\_
- Body signwriting

## **Body Capacity:**

- Body Capacity \_\_\_\_\_

# **FLOCON UNIT CHECK LIST**

## **Spreading Attachments:**

- Auxiliary transmission may be required for spreading attachments highlighted by #. Your cab chassis may be too fast for spreading if your cab chassis does not have an overall ratio of 80:1 plus when multiplying the lowest first gear ratio by the differential ratio.
- # Screeding/Paving unit, able to spread hotmix or premix up to 2400 mm wide, 150 mm deep, adjustable widths & depths, fitted with hydraulic raising & lowering winch
- Off road edge maintenance unit, capable of spreading hotmix or premix up to 500 mm wide, 150 mm deep, adjustable widths & depths, supplied with 500 mm broom and emulsion strip sprayer, fitted with raising & lowering winch
- On road edge maintenance unit, capable of spreading hotmix or premix up to 500 mm wide, 50 mm deep, adjustable widths & depths, supplied with 2000 mm side conveyor, hydraulic boom to install edging unit, 500 mm pneumatic operated emulsion strip sprayer, 500 mm auxiliary broom available
- On road edge maintenance unit, capable of laying a mix of emulsion & aggregate up to 500 mm wide, 50 mm deep, adjustable widths & depths, supplied with 2000 mm side conveyor, hydraulic boom to install edging unit, 500 mm pneumatic operated emulsion strip sprayer, 500 mm auxiliary broom available
- Aggregate spreader unit capable of spreading aggregate up to 2400 mm wide, 50 mm deep, various door openings available, fitted with split hydraulic driven auger, cabin controlled.
- 15 nozzle 2400 mm wide spray bar, used with the aggregate spreader unit for accurate sealing coats. Spray rate up to 2.0 litres per m<sup>2</sup> available, individual nozzle control, cabin operated
- Spray bar flushing system
- Side Conveyor, 1000 mm reach, used to back fill trenches with material, available with hydraulic left & right side shift & adjustable belt speed controlled from cabin
- Grit spreader / single spinner spreader, easily adaptable to existing units, hydraulically driven capable of spreading light covers of grit, soils and crusher dust
- Auxiliary broom, hydraulically driven, easily adapted to existing units, capable of sweeping road edges from 500mm wide

# **FLOCON UNIT CHECK LIST**

## ***Hand held Hydraulic Tools:***

- Stanley BR45 lb breaker
- Stanley BR67 lb breaker
- Stanley CO25 cut of saw
- Stanley TA54 trench tamper
- Stanley CS23 pole saw
- Hydraulic post hole borer

## ***Compaction Equipment:***

- Wacker petrol driven vibration plate
- Wacker petrol driven rammer
- Wacker petrol driven cut of saw
- Wacker RS800 petrol driven roller
- Bomag BW55E petrol driven roller

## ***Other Products:***

- One piece 3000 mm reach, pipeline backfill unit
- Two piece 2000 mm reach, pipeline backfill unit
- 20-26000 kg payload tri axle bulk carrier
- Lime/cement stabilization unit
- Emulsion Portable Sprayers and trailers
- Miscellaneous trailers
- Forward-moving Aggregate Spreading Unit.



# **FLOCON UNIT MAINTENANCE COSTS**

## **DAILY MAINTENANCE:**

Check water / kero tank level.  
Check emulsion tank level.  
Check all body lighting and switches.  
Check hydraulic oil level.  
Clean nozzle on emulsion lance and spray rings.

Labour approximate 30 minutes.

## **WEEKLY MAINTENANCE:**

Check water filter strainer.  
Check and adjust main conveyor tension.  
Check water / kero tank level.  
Check emulsion tank level.  
Check all body lighting and switches.  
Check hydraulic oil level.  
Clean nozzle on emulsion lance and spray rings.

Labour approximate 60 minutes.

## **MONTHLY MAINTENANCE:**

Grease front body shaft bearings.  
Grease rear body shaft bearings.  
Check water filter strainer.  
Check and adjust main conveyor tension.  
Check water / kero tank level.  
Check emulsion tank level.  
Check all body lighting and switches.  
Check hydraulic oil level.  
Clean nozzle on emulsion lance and spray rings.

Labour approximate 120 minutes.

## **ANNUAL MAINTENANCE:**

Remove and replace hydraulic oil.  
Change hydraulic oil filter.  
Clean out emulsion tank.

Labour approximate 240 minutes.

Costs hydraulic oil \$3.94 per litre x 50 litres: **\$ 197.00**

Hydraulic Oil Filter: **\$ 164.32**

**First Year operational costs approximate Parts only: \$ 500.00**

**Second Year operational costs approximate Parts only: \$ 800.00**

**Third Year operational costs approximate Parts only: \$1,300.00**

**Fourth Year operational costs approximate Parts only: \$2,800.00**

**Five Year operational costs approximate Parts only: \$4,318.00**

### **Note:**

**If the machine is maintained and operated correctly the unit should be free of damage other than fair wear and tear.**