



SIBOM ATTAMCHMENTS

PRODUCT OPERATION MANUAL

Product name: SMPB 4-In-1 bucket

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1. Safety Instruction

I. General safety instructions

1. Always read this manual carefully before installation and use.

※ Operators and maintenance personnel must read and familiarise themselves with the manual carefully before installing, operating and maintaining the machine. Incorrect installation, operation and maintenance of the machine may result in serious injury or death.

2. Read and familiarise yourself with all safety statements

※ Read and familiarise yourself with all safety markings and safety statements before working.

※ Follow all occupational safety regulations, local laws and regulations, and other professional guidelines when operating.

※ Follow good work practices when assembling, repairing, and operating.

3. Familiarise yourself with the machine

※ Familiarise yourself with the performance and parameters of the machine before operation.

※ Check the machine carefully before operation, and make sure that all devices are properly adjusted before operation.

※ Make sure the machine is securely mounted, replace any parts that may be damaged, and make sure that all hydraulic connectors and hydraulic devices are securely connected.

※ Ensure that all safety markings are in the correct position and that the lettering is clear.

4. Wear protective clothing

※ Wear safety clothing and protective glasses or masks to prevent injury from splashing liquids during operation.

5. Do not modify the 4-in-1 bucket in any way!

6. Maintaining the machine safely

※ Always wear well-fitting work clothes when servicing, and if you have long hair, be sure to wear a hat to protect it from getting caught in the machine;

※ When servicing, park the machine on an appropriate open level surface, away from traffic and any other facilities and equipment that pose a safety hazard;

※ Please use the correct tools when servicing.

7. Safe operation of the machine

※ Do not operate the machine casually unless you have been professionally trained and approved for the qualification and are familiar with the machine's performance, parameters and safety operation procedures;

※ The operator must not leave the machine while it is starting to run, if he/she does, he/she must stop the engine and remove the key.

II. Machine safety instructions

1. Operation safety

※ Spectators should be located on both sides or behind the main machine,

generally 3 metres away from the machine;

※ The operator must be in good health, and operation under the influence of alcohol is strictly prohibited;

※ Before stopping the machine, lower the bucket to the ground before stopping the machine and locking the brakes at the same time;

※ The flow rate and pressure should be adjusted appropriately and should not be higher than the rated value, otherwise the service life of the machine will be affected and the machine may even be damaged.

Front bucket

② Rear bucket

③ Pin

④ Telescopic cylinder

⑤ Hydraulic system

2. Products Instruction

I. Description of product structure

① Front bucket

② Rear bucket

③ Pin

④ Telescopic cylinder

⑤ Hydraulic system

Technical Performance Indicators

4-in-1 bucket Technical parameters			
Model	Smpb60b	Smpb72a	Smpb84a
Overall length (mm)	871/925	871/925	871/925
Overall width (mm)	1590	1890	2130
Overall height (mm)	715	715	715
Opening distance (mm)	800	800	800
Weight (incl. pendant) (Kg)	344	377	410
Flat loading/stacking hopper capacity (m³)	0.36/0.48	0.4/0.52	0.44/0.56
Working flow rate (L/min)	20-30	20-30	20-30
Allowable maximum pressure (MPa)	21	21	21
Applicable models	Welded side teeth, optional bucket teeth or sub-blades		

Operating Instructions

The bucket is a multifunctional working machine integrating four operations of loading, bulldozing, scraping and clamping, featuring simple structure, flexible operation and stable performance, etc. It is widely used in construction engineering, municipal engineering, urban and rural gardens, highway and traffic, mines, harbours and so on.

1. Shovelling and digging operation: As shown in Figure 1, the loader faces forward, drives and lowers the bucket, stops the bucket at about 30cm above the ground, and then slowly drops it down, flattens the bucket, approaches the material, and inserts the bucket into the material. Try to keep the load in the centre of the bucket, if the load is on one side of the bucket, it will be out of balance. If too much material is loaded, the excess load should be shaken off to avoid spilling when delivering the material.

2.L evelling operation: As shown in Figure 2, shovel the material into the bucket and drive the loader at a constant speed, raise the bucket height, then open the front and rear buckets at a certain angle, so that the material can be evenly spilled from the bucket. The teeth of the shovel are close to the ground, and the rear traction is used to level the material evenly.

3.P ushing operation: As shown in Figure 3, open the front and rear buckets at the maximum angle and make the bottom of the rear bucket parallel to the ground to push the material.

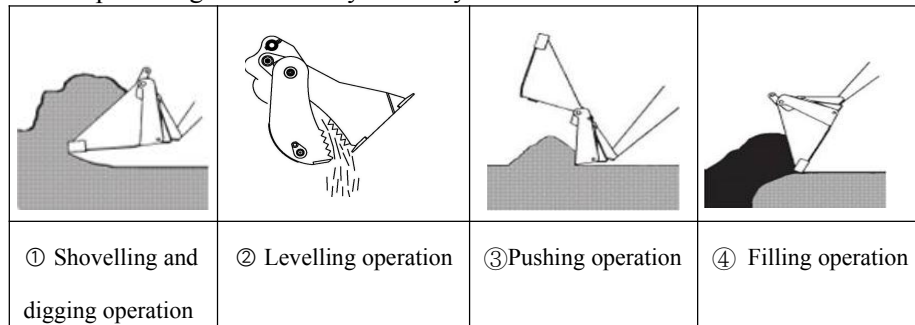
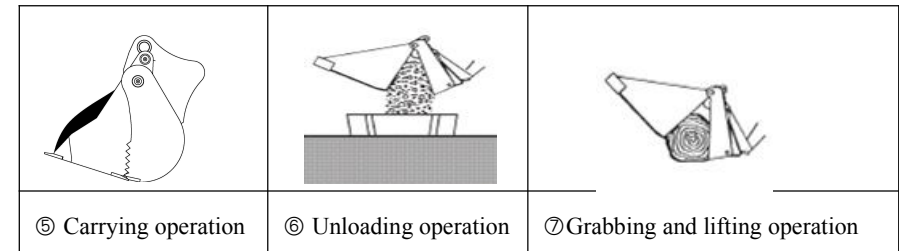
4.Filling operation: as shown in Figure 4, the bucket is full of material, when approaching the ditch, tilt the bucket and backfill the material in the

ditch. It can be widely used in the backfilling of roadbed project.

5.Carrying operation: As shown in Figure 5, when carrying materials, drop the bucket to lower the centre of gravity of transport, and prohibit the front and rear buckets from opening during the transport.

6.Unloading operations: After travelling to the unloading location, the loader raises the bucket to the required height, opens the front and rear buckets and carries out the unloading operation, as shown in figure 6. If loading is to be carried out, at a certain distance from the wagon, raise the bucket to the unloading height and then drive slowly towards the wagon to unload. When unloading, pay attention to the gentle action to reduce the impact of the material on the vehicle

8. Grabbing and lifting operation: As shown in figure 7, the serrated bucket can be closed tightly and can be used for grabbing and lifting operations, such as grabbing timber, grabbing stones, etc., which can transport the goods in a very safe way.



4.Maintenance instructions

- 1.** Always keep clean hydraulic oil, keep the hose connector clean, if there is dirt mixed in the hydraulic oil, it will probably lead to the whole working system can't run normally;
- 2.** Check all hydraulic lines daily to make sure that the hydraulic lines are well connected, the hoses are not twisted, worn or cracked, and the fittings are not loose and leaking oil;
- 3.** Check the oil level of the machine daily and refuel in time;
- 4.** Check all parts of the machine daily to make sure that its parts are connected safely and securely;
- 5.** If the paint is peeling off or damaged, please make up the paint in time to prevent rusting.

5.Storage instructions

- 1.** After using the machine, please clean the dirt, brittle, grease, etc. on the machine, and check whether the paint is intact, if the paint is not intact, please make up the paint before storage and preservation;
- 2.** Please store the machine in a light and ventilated environment without corrosion.