



 **PEINEMANN**
EQUIPMENT

BUILT FOR THE TOUGHEST JOBS

INSIDE BUNDLE CLEANER (IBC-5)

TECHSPEC MAY 2023

[PEINEMANNEQUIPMENT.COM](https://www.peinannequipment.com)

1. GENERAL

The Peinemann Inside Bundle Cleaner (IBC-5) is a highly efficient, reliable, and safe cleaning machine. The IBC-5 is the perfect equipment to efficiently clean large numbers of bundles during turnarounds. Its five lances are easily and safely operated from the cabin. The cabin protects the operator from the high water pressure and contamination. In addition, the cabin provides the operator with an unobstructed view and a comfortable working position. Further, the IBC-5 has multiple safety systems, such as emergency stops and a hydraulic lock when the lances enter a tube. Finally, the IBC-5 has a proven track record and is continuously developed based on experience in the field. The IBC-5 is CE certified and assembled in the Netherlands.

The IBC-5 comes standard with a 3-cylinder diesel-powered (water-cooled) powerunit. Optionally, the OBC-C can be delivered with an electric-powered powerunit.

2. KEY FEATURES

The Peinemann IBC-5 comes with several features which significantly benefit your cleaning operations.

1. The well-sized cabin can easily be raised and locked into position. As a result, the operator has a great view of the bundles and can easily index and line up the lances on the tubes that need to be cleaned.
2. The IBC-5 comes standard with small outriggers allowing you to position the IBC-5 perfectly horizontally. Large outriggers are also available, allowing you to raise the IBC-5 further.
3. The lance bed is rigid and remains straight for easy indexing. It does not flex like the systems produced by other suppliers. The rigid design is mainly due to the T-shape profiles, which also allow waste/contaminants to run through easily. It does not collect any waste in the profiles, which could damage the rigid lances and create a headache for maintenance.
4. The system has several safety features, such as a switch-off valve on the lance bed. This safety is built in to prevent the operator from indexing the lances while they are inside the tubes.
5. An essential feature that makes the Peinemann IBC-5 stand out is the limited pressure loss caused by the IBC-5. We deliberately created a system whereby the large flow and pressure remain largely intact. This is achieved by using a big manifold which feeds 8 mm flexible hoses connected to the 6 mm ID rigid lances. Having minimal pressure loss means having excellent flow and, more importantly, more pressure at the nozzle. This is key and something our competitors cannot achieve.
6. The cabin on an IBC-5 gives the operator great comfort and a great viewing position. The windows come standard tinted and with windscreen wipers. The work lights on top of the cabin are also standard. Inside the cabin, there is also, as standard, a control unit and pump fitted, which can operate Hydraulic Bundle Rollers (optional product). Additionally, the controls are straightforward to use (like a mobile crane), and many features, such as air conditioning, are options you can consider.

7. The rigid lances have great speed (hydraulically powered) going in and out of the tubes. A chain tensioner will absorb the forces involved and enables longer system life.

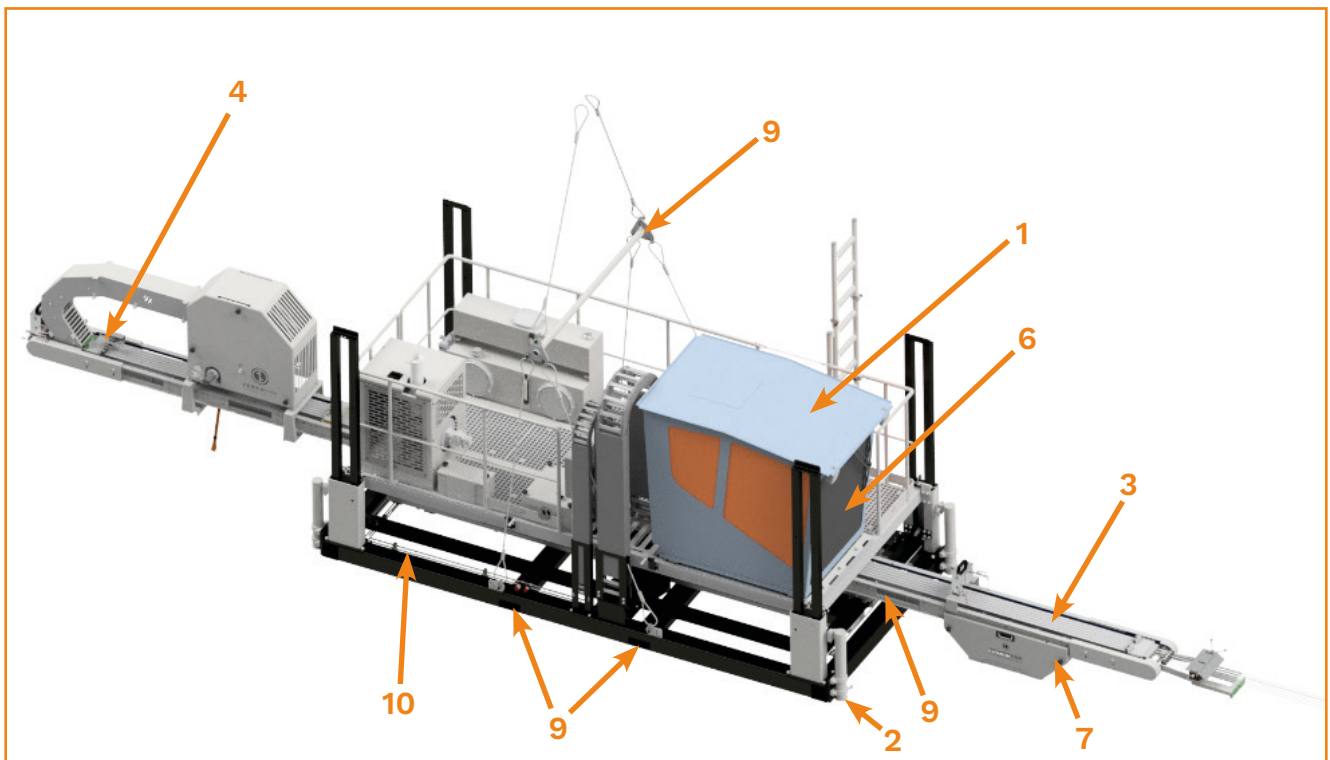
8. The IBC-5 is a stand-alone unit with its diesel or electric powerunit.

9. The IBC-5 is, despite its size, very easy to transport. It comes standard with forklift slots and a lifting frame.

10. The lance bed can be hydraulically moved forward/backwards by 60 cm. This movement is created, so it becomes easy to position the bundles on the rollers. You can create space and move the lances back once in position once the bundle is placed on the rollers. This will keep the lances safe.

11. Raising the lance bed and the cabin is done via hydraulics and wire rope. This has proven to be reliable and straightforward. Any potential repair required is easy to fix, and movements are accurate.

12. Experience operators can clean between 800 and 1000 tubes per hour (depending on length and contamination). It is a system that can significantly reduce downtime and give an excellent cleaning result. In addition, the IBC-5 can operate at max 1,500 Bar.



3. TECHNICAL SPECIFICATIONS

Technical specifications (approx.)

Weight and dimensions	
Total weight approx.	5,500 kg (12,125 lb)
Max. dimensions (with fixed outriggers)	1150.0 x 217.0 x 238.0 cm (452.8 x 85.4 x 93.7 in)
Max. dimensions (with extendable outriggers)	1150.0 x 247.5 x 238.0 cm (452.8 x 97.4 x 93.7 in)
Max. dimensions (with extendable outriggers) when outriggers are detached for transport	1150.0 x 217.0 x 238.0 cm (452.8 x 85.4 x 93.7 in)
Additional height optional A/C roof unit	18.5 cm (7.3 in)
Max. height fixed outriggers	50.0 cm (19.7 in)
Max. height extendable outriggers	120.0 cm (47.2 in)
Max. extension extendable outriggers per outrigger	50.0 cm (19.7 in) (100.0 cm in total)
Lances	
Dimensions lancebed	1150.0 x 71.0 x 147.0 cm (452.8 x 28.0 x 57.9 in)
Min. height lancebed	60.0 cm (23.6 in)
Max. height lancebed	210.0 cm (82.7 in)
Lancebed left/right range	150.0 cm (59.1 in)
Lancebed forward/backward range	60.0 cm (23.6 in)
Max. working length of lances	930.0 cm (366.1 in)
Lance pitch	22.0 - 45.0 mm (0.9 - 1.8 in)
Max. lance speed	100.0 cm/sec (39.4 in/sec)
Max. forward thrust	300 kg/lance (661 lb/lance)
Water	
Recommended water pressure	1,000 bar (14,503 psi)
Max. water pressure	1,500 bar (21,755 psi)
Recommended water flow	200 l/min (52.8 gal/min)
Hydraulics	
Hydraulic oil tank	180 l (47.6 gal)
Hydraulic pump	19 cc + 8 cc

Powerunit specifications (approx.)

Diesel engine (water cooled) powerunit (standard)	
Model	Hatz 3H50T
Cylinders	3
Power	18.4 kW
Max. RPM	1,500 rpm
Cooling	Water
Tank	80 liter (21.1 gal)
Electric powerunit (option)	
Power	11 kW
Max. RPM	1,500 rpm

