

WE KNOW CLEAN™

A FAMILY COMPANY SINCE 1967



POWERBoss

THE POWER OF CLEAN

NAUTILUS SERIES

NAUTILUS
NAUTILUS-HD

Industrial-Grade Rider Scrubber/Sweepers

**HEAVY DUTY STAINLESS
STEEL PARTS**

**MANEUVERABLE MID-SIZE MACHINE
LARGE CAPACITIES - LONG RUN TIME
LOW COST OF OWNERSHIP, RELIABLE DESIGN**

**EXCEPTIONAL CLEANING
PERFORMANCE**



PowerBoss Nautilus is positively extreme in every aspect. With its extraordinarily high levels of power and maneuverability as well as its robust design, this combination machine provides maximum output for use in extra-large areas with a superior cleaning performance of up to 163,611 ft²/h. And its large capacity allows particularly long operating times: 120 minutes at standard water-flow level and 70 minutes at high water-flow level. This means extremely efficient operation!

- **Practical 1-button operating system**
- **Powerful hydraulic engines**
- **High-performance suction turbine**
- **Easy access for service and maintenance purposes**
- **Robust stainless steel components**



Professional cleaning results on a large scale

The PowerBoss Nautilus achieves professional cleaning results in large areas. Its superior capacity, robust design and clever features make this scrubber-sweeper ideal for a wide range of applications in cleaning environments such as:

- Food processing industry
- Heavy industry
- Logistic centers & Warehouses
- Bottling plants
- Multi-story car parks
- Aircraft hangars

Robust design – powerful dirt removal

The PowerBoss Nautilus is made of robust stainless steel components, which not only protects the machine against damage but also significantly reduces maintenance costs. The combination of a high-suction turbine-speed, anti-skid traction tires and an integrated Power System using powerful hydraulic motors make this scrubber-sweeper extremely efficient.

Robust stainless steel components

This machine has many stainless steel components as a standard:

- Cylindrical brush unit including lateral maintenance doors & door hinges
- Lateral and rear squeegee frame including squeegee fittings
- Debris hopper



Powerful against stubborn dirt

Two powerful hydraulic motors drive the two 45" cylindrical brushes of the PowerBoss Nautilus at 425 rpm. Even the most stubborn dirt doesn't stand a chance against the machine's brush pressure, which can be adjusted from 200-400 lbs. The high-performance suction turbine provides completely dry floors immediately after cleaning to prevent the risk of slipping and allow forklift or foot traffic to travel safely behind the machine.

Economically efficient: Easy access for service and maintenance purposes

Carrying out maintenance work on the combi machine PowerBoss Nautilus is particularly easy and economic, thanks to its many benefits:

- Tool-free removal of the motor cover.
- 360°-access to the motor, radiator, suction motor, hydraulic pump and tank
- 1-button operating system controls all the functions.
- Front-axle steering and traction tyres enable complete U-turns in narrow aisles.
- Two 114-cm cylindrical brushes powered by hydraulic motors provide excellent cleaning results.
- Practical hydraulic high dump.
- Large solution and recovery tank allows up to two hours of runtime.

Special Features Designed with Attention to Detail



1-button operating systems:
All functions can be started and stopped at the push of a button.



Available in both standard & hi-dump, emptying your scrubber/sweeper has never been easier. This allows for simple disposal via dumpster or trash can.



Working in confined areas:
PowerBoss Nautilus has a small turning circle. This machine can make a complete U-turn in aisles as narrow as 108 inches, allowing the operator to keep an eye on the surrounding traffic at all times.



All clean: The large draining hose ensures fast draining of the recovered water. Two large openings at the top of the tank as well as an 8 inch inspection opening provide easy access to the recovery tank.



Safety first: PowerBoss Nautilus can be equipped with an optional overhead guard.



Quick visual checks: The squeegee tilts up to allow quick visual checks and easy changing of the sealing strips.



Easy changing of the brushes: Thanks to the quick-change system, changing the cylindrical brushes is particularly easy, no tools needed.



Working close to edges: The optional side scrub unit allows cleaning right up to walls.

Kubota Engine Feature Comparison

Power | Reliability

ENGINE ATTRIBUTE	POWERBOSS® WITH KUBOTA	TENNANT® WITH MITSUBISHI®	KUBOTA® ADVANTAGE
Engine Valve Timing Mechanism - Coordination of motion of pistons and valves	Internally geared camshaft. Lubricated and protected from dirt and designed for the life of the engine.	External timing belt. Exposed to dirty application conditions that can compromise belt life. Periodic replacement is required, or there is a risk of catastrophic failure.	Higher reliability and uptime. Reduced maintenance. No risk of catastrophic damage to valves due to timing belt failure. Designed to run reliably in tough industrial applications.
Potential for Pistons to Contact Valves -Interference Design	Due to internal lubricated camshaft gears have minimal risk of valvetrain timing failure.	If timing belt slips or breaks, extensive damage to the valves, cylinder head, pistons, crankshaft, and bearings may occur, resulting in expensive repairs.	Virtually no risk of unplanned and expensive engine down time and repair due to timing issues.
Engine Head and Block Material -	Cast iron block and head with comparable thermal expansion rates reducing stress on head gaskets and cylinder head bolts.	Cast iron block with aluminum cylinder head have differing thermal expansion rates, placing greater stress on the head gasket.	A Kubota design cast iron cylinder head mated to the cast iron cylinder block is better suited to industrial applications for long-term durability. Whereas typical automotive-based engine designs are optimized for higher maximum power output, reduced weight, and minimal production cost (aluminum head/cast iron block). Kubota's use of common materials between the cylinder head and block reduces stresses in the gasketed joints resulting in long-life. This minimizes the likelihood of random head gasket failures and associated downtime in high hour usage applications.
Crankshaft Bearings and Cylinder Block	High capacity crankshaft bearings and cylinder block designed for diesel engine loads for long life.	Crankshaft bearings and block optimized for lighter duty automotive usage of gasoline.	Kubota main bearings are more heavy duty in design since they are based on the diesel platform; this provides greater reliability and longer life. More rigid engine structure on engine block (since borrowed from diesel) results in less radiated noise and vibration.
Parts and Service Availability	World renowned for their reliability and for their parts and service network when needed.	Limited support network, but does not carry the same reliability nor service access reputation.	Well established quality reputation and service network to stand behind their products.

Technical Data NAUTILUS AT A GLANCE

FEATURE SPECIFICATION

Productivity 55,000 sq ft per hour

CLEANING PATH

Main Brushes Only 45"

w/ Optional Side Scrub Brush 60"

MAIN BRUSHES

Diameter 12"

Length 45"

Speed 425 RPM

Pressure 200-400 lbs

SIDE SCRUB BRUSH W/ VACUUM

Diameter 16"

Speed 200 RPM

NAUTILUS TANKS

Solution Capacity 105 gallon

Recovery Capacity 105 gallon

Demister Chamber 17 gallon


NAUTILUS HD TANKS

Solution Capacity 90 gallon

Recovery Capacity 90 gallon

Demister Chamber 15 gallon



 See it in Action!

HOPPER & DEBRIS TRAYS SPECIFICATION

Nautilus Debris Trays' Total Capacity 2.1 cu ft

Nautilus HD Hopper Capacity 3.9 cu ft (390 lbs)

Nautilus HD Dump Height 60"

VACUUM FAN

Speed 11,500 RPM

Water Lift 35"

DIMENSIONS

Length 95"

Frame Width 55"

Rear Squeegee Width 56"

w/ Side Scrub Brush 65.5"

Height 60.5"

Height w/ Overhead Guard 83.5"

Weight (Empty) 3,250 lbs

Gross Vehicle Weight 4,800 lbs

Minimum Aisle U-Turn 107.7" (8'-11.7')

PROPELLING SYSTEM

Fuel Source Gasoline, LPG, Diesel

Engine Make Kubota

Forward Speed 7.7 MPH

Reverse Speed 4.0 MPH

Gradeability - Traveling 10 Degrees

Gradeability - Scrubbing 8 Degrees

Tires - Front 16" x 6" molded

Tires - Rear 18" x 5" press-on






Thermal Green Technology (TGT) Option

Adding to the already impressive cleaning power of the Nautilus & Nautilus HD, the TGT system is a patented, and quite clever, hot water system that passively heats the cleaning solution using the heat generated by the engine's catalytic converter. Virtually maintenance free, TGT eliminates the need to use additional energy to heat the solution, therefore it lowers the cost of energy and shrinks your business' carbon footprint. Any need for additional detergents to break down dirt will be greatly reduced and, in some cases, not necessary at all. You simply have to see this the TGT system in action as it revitalizes your facility's floors.

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SWEEPERLAND.COM

Corporate Headquarters | 4713 Gettysburg Road | Mechanicsburg, PA 17055

Contact Us Today: 1-800-626-7835