CS7010™
Hybrid & Battery Powered Combination Sweeper-Scrubbers

GREENER. CLEANER. SMARTER.
The industry’s first Hybrid and ePower™ Drive Combination Sweeper–Scrubbers slash your total cost of ownership.
The new green class of industrial cleaning technology has arrived.
In a single broad stroke, the Advance CS7010 Combination Sweeper–Scrubber reinvents an entire class of equipment by reducing total cost of ownership — including operation, labor and maintenance, while effectively doubling fuel economy and runtime efficiency. Now, the most economical solution is also the most ecological.
The CS7010 is available in three configurations: LPG/Gas-Hybrid, Diesel-Hybrid and ePower™ Battery. They all deliver unparalleled performance, while replacing power-hungry, high-maintenance hydraulic systems with efficient, state-of-the-art Electric Drive technology. Whichever model you choose, the CS7010 delivers the lowest cost of ownership and the most sustainable cleaning solution in its class.

Standard Features Include
• Disc Scrub Deck with Integrated Edge Cleaning
• Breakaway Squeegee
• Ergonomic Operator Compartment
• High-capacity 75 gallon (285 L) Tanks
• Rear Wheel Steer
• High-capacity Donaldson PowerCore® UltraWeb® Nanofiber Synthetic Media Filter with MERV 13 Rating
• Intuitive Controls with One-Touch™ Operation
• IP55-rated Electric Motors
• Tilt-out Recovery Tank

Optional Features Include
• EcoFlex™ System with Dual Detergent Cartridges
• Heated Water Supply
• Extended Scrub Recycling System
• Overhead Guard, Bumper Guards, Tail Lights
• Onboard Pressure Washer or Low Pressure Spray Hose

Exclusive Features Include
• SmartFlow™
• Auto speed reduction in turns
• MaxAccess™
• DustGuard™
• ClearView™

Typical Applications Include
• Warehouse / Distribution
• Manufacturing
• Parking Lots and Ramps
• Food and Beverage
• Transportation Facilities
• Stadiums and Arenas

Dedicated dry sweep and wet scrubbing for one-pass cleaning.
Like other combination sweeper–scrubbers, the CS7010 lets you sweep and scrub in a single pass. But that’s where the similarities end. Compared to competitive dual cylindrical sweeper–scrubber designs, the CS7010 utilizes a cylindrical sweeping system and a separate disc scrubbing system. Dedicated sweeping and scrubbing functions with one-pass cleaning power keep dry debris dry without introducing scrub solution into the debris hopper. This provides operators and equipment owners with increased productivity and reduced maintenance.

Lower total cost of ownership.
The CS7010 dispels the complexity and high maintenance of hydraulic systems that power conventional sweeper–scrubbers. We’ve eliminated large hydraulic reservoirs, filters and oil coolers as well as the leak-prone hydraulic hoses, pumps, motors and valves. Hydraulic drives have been replaced with an intelligent system of electronically-controlled, low-maintenance electric drives. This technology shift alone will save the average owner thousands of dollars in reduced maintenance costs.

CS7010™
Single charge runtime (in hours)
Relative operational runtime (on identical fuel)
ePower® BATTERY EXTENDS RUNTIME BY 64%
HYBRID TECHNOLOGY DOUBLES FUEL EFFICIENCY

ePower™ BATTERY EXTENDS RUNTIME BY 64%
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ePower™
CS7010

Single charge runtime (in hours)
Relative operational runtime (on identical fuel)
CS7010™
Hybrid & Battery Powered Combination Sweeper-Scrubbers

ePower™ Battery
With an extended runtime rating up to 5.4 hours on a single charge, the CS7010 ePower model offers a new, low-noise, emission-free green solution for cleaning large facilities of up to 640,000 ft² (60,000 m²) per charge.*

*Measured run time using low scrubbing and sweeping mode at normal operating speeds on smooth floors (actual results will be application dependent).

HYBRID
CS7010 LPG/Gas/Diesel-Hybrid
For indoor and outdoor operational versatility with extended runtime and high efficiency, the CS7010 electric Hybrid can save you thousands in fuel costs alone. Up to 30% lower fuel consumption and CO₂ emissions, resulting in up to 35% combined savings in fuel, consumables, and reduced labor operating expenses as compared to other machines in its class.

High-capacity 75 gallon (285 L) corrosion-proof solution and recovery tanks

High-impact-absorbing polymer body panels won’t dent, corrode or damage facility

High performance Donaldson PowerCore® nanofiber filter with variable-frequency shaker

High-capacity 7 ft. (1.98 L) front dry sweeper debris hopper with high-lift system

Breakaway sweeper guides with tool-free servicing

Disc scrub deck with integrated edge cleaning capability and SmartFlow™ technology

Heavy-gauge industrial steel unibody frame

Available with patented DustGuard™ airborne dust suppression technology

Electronically-controlled electric drives are IPSS rated for easy cleaning and reliable operation

Standard side broom sweep-enter rogue path to minimize fouling

SmartFlow™
Adjusts solution flow with the machine’s speed, using less water and chemicals. Proportionally higher productivity with fewer dump and refill cycles per tankful.

DustGuard™
Available as a popular option on the CS7010, our patented DustGuard™ technology is the only system of its kind. Using an ultra-fine fog it is proven to reduce airborne dust generated by side broom sweeping.

Industrial Strength Solutions...
- Our products are designed using innovative technology that increases productivity and drives down the cost to clean.
- You can get expert service and maintenance for your Advance machines from factory-trained personnel around the world. Fast parts delivery, too.
- Maintain peak performance with Nilfisk Parts.

Technical Specifications

<table>
<thead>
<tr>
<th>Models</th>
<th>CS7010 Battery</th>
<th>CS7010 LPG/Gas Hybrid</th>
<th>CS7010 Diesel Hybrid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration</td>
<td>Independent front dry sweeping with control and rear scrubbing functions</td>
<td>Electronically controlled electric drives for all sweeping and scrubbing functions</td>
<td>Electrically driven hydraulic power unit for hopper raise/lower functions</td>
</tr>
<tr>
<td>Sweeping System</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweeping Path w/Dual Side Brooms</td>
<td>61 in (154 cm)</td>
<td>Sweeping path width is fully swept</td>
<td></td>
</tr>
<tr>
<td>Main broom</td>
<td>36 in (91 cm) x 12.2 in (31 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweeping Coverage Rate Per Hour</td>
<td>5 1/2 ft (165 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrubbing/Recovery Systems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrubbing Path and Brushes</td>
<td>48 in (122 cm) x 17 in (43 cm) disc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrubbing Coverage Rate Per Hour</td>
<td>115,000 ft² (11,000 sq ft)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrub Pressure</td>
<td>Three scrub pressure settings up to 400 lb (182 kg) of down force at maximum setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recovery/Solution Tank Capacity</td>
<td>75 gal (285 L) each</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recovery Vacuum</td>
<td>Dual vac fan motors capable of 65 in (165 cm) waterlift</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power and Propulsion Systems</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power System</td>
<td>Battery: 36 V / 770 Ah</td>
<td>Kubota WG972: 3 cyl., 0.96 L</td>
<td>Kubota D1305: 3 cyl., 1.26 L</td>
</tr>
<tr>
<td></td>
<td>30 hp (22.0 kW)</td>
<td>29 hp (21.7 kW)</td>
<td>29 hp (21.7 kW)</td>
</tr>
<tr>
<td>Propulsion System</td>
<td>Variable speed brushless A/C drive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prop Speed (Variable)</td>
<td>Transport: 5.5 mph (8.9 km/hr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sweeping/Scrubbing: 3.5 mph (5.6 km/hr)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operational Run Time</td>
<td>5.4 hrs. w/70 Ah battery</td>
<td>LPG - 5.5 hrs. w/42 lb (19.0 kg) tank</td>
<td>Gas - 5.9 hrs. w/9.2 gal (35 L) tank</td>
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<tr>
<td></td>
<td>15 hrs. w/7.2 gal (35 L) tank</td>
<td></td>
<td></td>
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<tr>
<td>Operability</td>
<td>Transport @ Gross Weight: 21% (12 deg.)</td>
<td></td>
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<tr>
<td></td>
<td>Scrubbing/Sweeping: 17.6% (10 deg.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimensions / Weight / Sound / Environmental</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>103 in (262 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>48 in (122 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>109 in (276 cm) x 64 in (162 cm) (42 ft - 3 deg)</td>
<td></td>
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</tr>
<tr>
<td>Minimum Angle Turn</td>
<td>194 in (500 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>4,716 lb (2,132 kg)</td>
<td>4,676 lb (2,121 kg)</td>
<td>4,537 lb (2,058 kg)</td>
</tr>
<tr>
<td></td>
<td>Empty: 4,682 lb (2,124 kg)</td>
<td>4,636 lb (2,149 kg)</td>
<td>4,511 lb (2,039 kg)</td>
</tr>
<tr>
<td></td>
<td>Sound Level (LeC) 3035-2.72</td>
<td>72 dBA</td>
<td>82 dBA</td>
</tr>
<tr>
<td></td>
<td>Water Ingression</td>
<td>All electric drive motors and actuators rated IPSS for water washdown</td>
<td></td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.

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