



# Champ Series

Ride-On Automatic Scrubbers

29, 33, 35-Inch Models



The Champ series scrubbers from NSS® are the ride-ons with big ride-on power. Their 36V electrical system package delivers up to 30 percent more run time than a comparably configured 24V machine, so the Champs give you more of what you expect from a ride-on autoscrubber.

- **Maneuverability:** the single front-drive wheel turns 90 degrees in both directions—unlike most of its competitors—so it needs only 67-70 inches in which to turn around.
- **Power:** with its 1 HP drive motor and powerful 36V power system, the Champ 2929 has guts enough to power up most loading ramps.
- **More Wet Vacuuming Power:** 60-in of water lift on the 2929 and 3329, and 80-in on the 3529—substantially more wet vacuuming power than most other machines in their class.
- **On-Board Battery Charging:** allows instantaneous charging of the batteries wherever there's an electric outlet—no more hauling out separate battery chargers.
- 2929 model available with 225 AH or 325 AH batteries. The 3529 and 3329 models feature the heavy-duty 325 AH batteries.
- Available in 29, 33, and 35-in widths.

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# We Call It The Champ Because of Its Guts.

## More is More.

The Champ Series ride-ons deliver more of what you buy a ride-on for:

More power. A wider workpath. Greater vacuuming power. Greater run time. And a far greater scrubbing capacity per charge.

All with the durability and serviceability—and 'uncommon-sense' design features—that are synonymous with an NSS®-built machine.

Some examples? Here are just a few of many:

The Champ's squeegee retracts to a higher point than some other units, so it's easy to change.

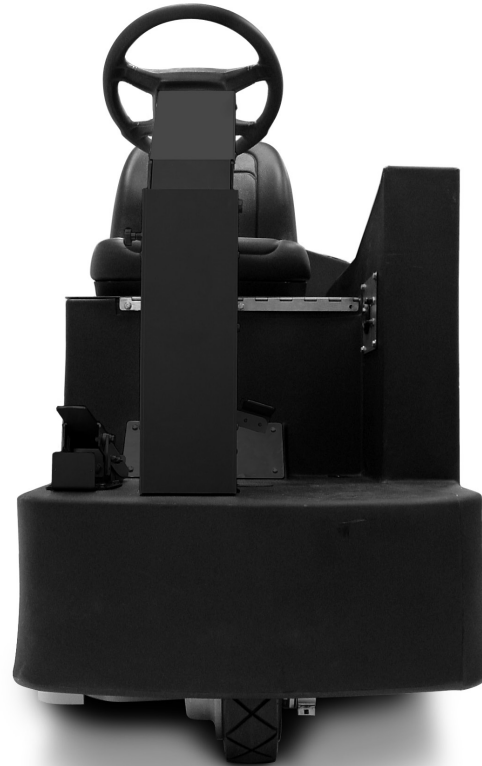
The exclusive NSS X-IQ Electronic Control System, the brains of the Champ, allows the operator to monitor all machine functions from an LCD screen on the control panel.

The Champ 2929 features 60-in of water lift — 20 percent more wet vacuuming power than most machines in its class.

The Champ 2929 has a more powerful brush drive motor than other units in its class — 2 HP, vs. other's 1.5 HP.

Its 36V electric system produces 30 percent more productivity than most similarly configured 24V machines.

And we've incorporated a variety of tie-down notches, so securing the unit in a moving vehicle is easier.



### The Ergonomics:

The steering column adjusts — with 5 positions from 0° to 40° — to the operator's comfort level. It can also be tipped straight up to make entry and exit easier.

The thick, molded-grip steering wheel reduces fatigue.

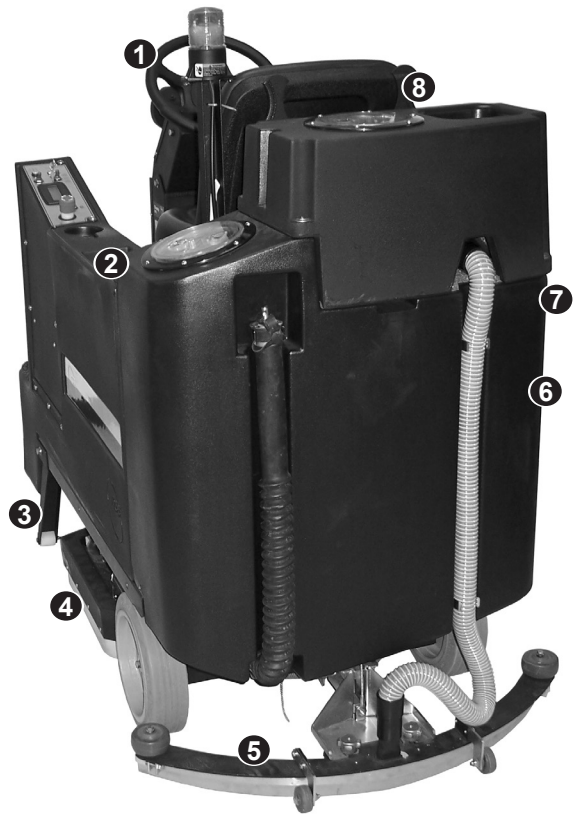
The higher pivot point on the column means the operator doesn't have to hunch over the steering wheel. Better posture means greater comfort and more productivity.



The single front-drive wheel pivots 90 degrees in both directions; most other machines do not. The Champ 2929 turns around in 67-in. of space, the 3529 in 70-in. This means the Champ scrubbers can turn around comfortably in a 6-foot wide aisle.

# The Champ Series: Big Machines in a Small Package.

- 1 Ergonomically-sound steering wheel and column pivot makes longer rides more comfortable.
- 2 The 29-gal solution tank and 32-gal recovery tank keep the Champ on the job longer.
- 3 The anti-roll bar on the front corners of the Champs prevent rollovers during high speed turns (not recommended).
- 4 The workpaths of the twin brushes overlap a full inch to eliminate the center streaking often associated with competitive machines with less overlap. The 2 HP brush motor is more powerful than the 1.5 HP brush motors used in competitive units.
- 5 The 33-in curved squeegee funnels dirt and water into the center of the assembly, where it is picked up by the powerful 0.75 HP vacuum motor. Waterlift on the Champ 2929 is rated at 60 inches.
- 6 Side-loaded battery compartment makes battery installation easier. No need to lift batteries above the side of the machine.
- 7 This ready-to-use machine arrives with charged batteries installed— connect the batteries, drive the Champ off the packing skid, fill with solution, attach brushes and begin scrubbing. Initial battery-charging is recommended.
- 8 The flip-up battery cover allows easy access to the 36V electrical system. This powerplant will generate 30 percent more run time than a 24V system on a similarly configured unit.



#### **NSS X-IQ Electronic Control System.**

The Champs feature an exclusive, state-of-the-art controller which governs all the functions of the scrubber. An easy-to-read LCD screen displays all of the controls for the Champ, including pad pressure, solution flow, battery levels, vacuum power, and run time. The NSS X-IQ System includes a digital diagnostics function which allows technicians to instantly diagnose machine problems.

## **And of Course, It's Designed and Built By NSS®.**

The NSS® name has meant consistent quality and durability for the past 90 years. Our guiding design principle — elegant simplicity — animates our efforts to build the most reliable, most durable, most productive floor cleaning equipment you can find, with the lowest lifecycle costs of any machine line in the world.

We're proud of that legacy, and proud, too, of the way our Champs build on it.

# Champ Series Specifications

## Brush/Pad

2929	Two 15 in (38 cm)
3329	Two 17 in (43 cm)
3529	Two 18 in (45.7 cm)

## Brush Motor

Type	36V, permanent magnet, gear motors
HP 2929	2 HP
HP 3329	2.5 HP
HP 3529	2.5 HP
Speed	300 RPM (220-300 Champ 3529)
Pressure	115 lbs (52 kg), 230 lbs (104 kg)

## Pad Drivers

2929	Two 15 in (38 cm) poly back tufted
3329	Two 17 in (43 cm) poly back tufted
3529	Two 18 in (45.7 cm) poly back tufted

## Vacuum Motor

Type	36V, 3-stage bypass, tangential discharge
HP 2929	0.75 HP
HP 3329	0.75 HP
HP 3529	1 HP
CFM 2929	72 (2,039 L)
CFM 3329	72 (2,039 L)
CFM 3529	99 (2,803 L)
Waterlift 2929	60 in (152 cm)
Waterlift 3329	60 in (152 cm)
Waterlift 3529	80 in (203 cm)

## Drive Motor

Type	36V, permanent magnet
HP	1HP
Drive System	Roller chain and sprocket
Drive Speed	Variable; forward 0-240 ft/min (0-73 m), reverse 0-170 ft/min (0-52 m)
Drive Wheel	12 in (30 cm) x 4 in (10 cm) tread, non-marking rubber, slip-resistant with slip grip tread

## Batteries

Six 6V batteries	
2929	235 or 350 AH
3329-3529	350 AH or 305 AH AGM

## Construction

Solution Tank	29 gal (110 L) rotocast polyethylene
Recovery Tank	32 gal (121 L) rotocast polyethylene
Frame	7-gage steel
Wheels	12 in non-slip tread

**Sound Level** 69 dBA

## Curved Squeegee

2929	33 in (84 cm) gum rubber blade
3329	46 in (117 cm) gum rubber blade
3529	46 in (117 cm) gum rubber blade

## Dimensions

Length 2929	64 in (163 cm)
Length 3329	69 in (175 cm)
Length 3529	69 in (175 cm)
Width 2929	33 in (84 cm)
Width 3329	43 in (109 cm)
Width 3529	43 in (109 cm)
Height	53 in (135 cm)

## Weight

Machine 2929 235 AH	1,013 lbs (460 kg)
Machine 2929 350 AH	1,259 lbs (572 kg)
Machine 3329	1,393 lbs (632 kg)
Machine 3529	1,393 lbs (632 kg)
Shipping 2929 235 AH	1,185 lbs (538 kg)
Shipping 2929 350 AH	1,395 lbs (633 kg)
Shipping 3329	1,510 lbs (686 kg)
Shipping 3529	1,510 lbs (686 kg)

**Shipping Class** 70

**Warranty** 3 year limited, 10 years poly parts

## Theoretical Productivity

2929	40,000 sq ft per hour (3,716 sq m)
3329	45,492 sq ft per hour (4,226 sq m)
3529	47,820 sq ft per hour (4,443 sq m)

## Practical Productivity

2929	18,519 sq ft per hour (1,720 sq m)
3329	21,074 sq ft per hour (1,958 sq m)
3529	22,350 sq ft per hour (2,076 sq m)



**DO NO HARM™**

On-board battery chargers assure consistent, proper charging which can extend battery life, increasing the time between battery replacements.

The PROeye battery fluid level indicator lets the operator easily monitor when the Champ battery needs water.



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