

WALK-BEHIND SCRAPER

Training Guide



Purpose of This Guide

The Walk-Behind Floor Scraper Training Guide provides operators with the knowledge and skills necessary to effectively use and compare walk-behind floor scrapers. Whether you are a new operator or an experienced professional looking to refine your technique, this guide covers essential operating procedures, maintenance routines, troubleshooting techniques, and a detailed comparison of our line of walk-behind floor scrapers to help you choose the right equipment for your needs.

Why This Guide Matters

Using the right walk-behind floor scraper for the job can make a significant difference in efficiency and results. This guide ensures that users can:

- Select the best scraper model based on project requirements
- Understand the key differences in specifications and features of various models
- Maximize machine performance through proper use and maintenance
- Improve job site productivity with best practices for various flooring materials

Who Should Use This Guide?

This guide is intended for:

- Contractors and flooring professionals
- Equipment rental personnel
- Warehouse and facility maintenance teams
- Anyone responsible for flooring removal operations

What You Will Learn

Throughout this guide, you will gain insight into:

- Machine Components & Controls: Understanding the key parts of a walk-behind floor scraper.
- Pre-Operation Checklist: Steps to ensure your machine is ready for use.
- Operating Procedures: Best practices for efficient and effective floor removal.
- Maintenance & Troubleshooting: Tips for keeping your equipment in top condition and resolving common issues.
- Product Comparison: A side-by-side comparison of our walk-behind scraper models, including specifications, features, and ideal applications.

Let's get started!



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BUYER DECISION GUIDE: WHICH WALK-BEHIND SCRAPER IS RIGHT FOR ME.

Understanding Your Needs

Selecting the right walk-behind floor scraper depends on several key factors, including the type of flooring to be removed, the size of the job, and the working environment. **Before making a decision, consider the following:**

Flooring Material: Different scrapers are designed to handle various materials such as carpet, vinyl, tile, wood, or coatings. Choose a model with the right blade and power for your specific application.

Project Size & Scope: For small jobs or tight spaces, a compact and maneuverable unit may be best. Larger projects may require a more powerful scraper with more weight and higher removal capacity.

Work Environment: Consider the accessibility of the job site, power source availability, and whether noise or emissions restrictions apply.

Key Features to Compare

When comparing walk-behind floor scrapers, evaluate these critical features:

Blade Type & Adjustability: The ability to change blades and adjust blade angles ensures better performance on different materials.

Weight & Downforce: Heavier scrapers provide more downward pressure for tough removals, while lighter models enhance portability.

Speed & Efficiency: Variable speed controls and self-propelled options can improve operator control and productivity.

Ergonomics & Usability: Features like adjustable handles, vibration dampening, and easy blade changes contribute to comfort and ease of use.

Type of flooring removal: Whether you are removing soft goods, hard goods, or both can determine what type of walk-behind scraper you should be using.

Cost: The frequency with which you use your scraper can determine whether it would be more cost effective to purchase your machine or rent from a reputable dealer.

GUIDE TO NFE SCRAPERS

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550

Manual Walk-Behind Scraper, 120V



- A.** The 550 is ideal for residential work and application removal in tight spaces
- B.** Angle adjustment wheels changes the pitch of the blade in seconds
- C.** Removable front weight and handle make this machine easy to transport

RECOMMENDED ACCESSORY

6280-505 - This swivel head attachment is a must-have for efficient removal and ensures continuous contact with the floor

5280

Forward Self-Propelled Walk-Behind Scraper, 120V



- A.** This hydraulically driven, forward self-propelled scraper removes the worst of today's soft goods such as glued-down floors, carpet, VCT, sheet vinyl, linoleum, sport surfaces, and more.
- B.** Orbital action rotates the cutting blade to keep your tooling in the work
- C.** Removable weight make this machine's applications versatile

RECOMMENDED ACCESSORY

6280-505 - This swivel head attachment is a must-have for efficient removal and ensures continuous contact with the floor

6280 Commander

Hydraulic Walk-Behind Scraper, 120V



- A.** The Commander is designed specifically to remove the worst of today's soft good materials. This includes commercial carpet, VCT, sheet vinyl, rubber tile, sport surfaces, and more.
- B.** Adjustable handle allows for work under counters and in confined spaces as well as easy transport.

- C.** Orbital action rotates the cutting blade efficiently and extends the life cycle of the machine while reducing maintenance costs.

RECOMMENDED ACCESSORY

6280-505 - This swivel head attachment is a must-have for efficient removal and ensures continuous contact with the floor

6280HD Gladiator

Hydraulic Walk-Behind Scraper, 120V



- A.** The Gladiator is well-suited for both hard and soft good removal.
- B.** With many of the same great features as our Commander, this machine bears a heavier torque rating for effective removal of hard goods like ceramic tile and hardwood.

- C.** Unique features, like the rounded front weight design, siped wheels, and incorporated wheel scrapers, make the Gladiator a machine you can rely on.

The Rogue

Electric Walk-Behind Scraper, 120V



- A.** With proper tooling, this machine takes up ceramic tile, wood floors, thin-set, sheet vinyl, linoleum and more.
- B.** Adjustable orbital speed from 0-1900 RPMs. Quick change tooling holder provides transitions with the click

of a button. Built-in wheel de-couplers puts your machine into transport mode with no loose parts.

- C.** This modular machine is designed to be pulled apart and transported with ease. Front, middle and side weights are removable and positionable.



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WALK-BEHIND COMPARISONS

To help you make an informed purchase or rental decision, we've created a side-by-side comparison to compare key specs for walk-behind scrapers. Broken down by performance category, these charts are designed to simplify the selection process by giving you a clear view of how each machine stacks up.



Feature	National 550	Bartell MS230	BlastPro Niagara SCR-84	Duro Stripper Wolf
Height	21" - 42.5"	31"	43"	Not Specified
Length	32.5"	27"	22"	Not Specified
Width	17.75"	15"	13"	Not Specified
Weight	123 lb	99 lbs	84 lbs	35 lbs
Removable Weight	44 lb	No	N/A	N/A
Speed	Manual	Manual	Manual	Manual
Voltage	115	110	110	115
HP	1	1.5	1	2.75
Amps	14	16	Not Specified	Not Specified
Tooling Options	Angle shank w/ carbide tip, 12 blades of various sizes	1 scraper blade	1 scraper blade/Not specified	5 various scraper blades
Special Features	Easy blade angle adjustment, New height adjustment mechanism, simpler method for removing front weight	Adjustable chassis to change blade angle, large wheels	Easy blade angle adjustment, Adjustable handle, large wheels	Lightweight, Can be operated as a hand tool by removing handle

MANUAL WALK-BEHINDS



Feature	National 5280	Husqvarna BS 75
Height	39"	41.8"
Length	27"	34.3"
Width	17"	20.1"
Weight	263 lbs	282 lbs
Removable Weight	86 lbs	No
Speed	12-50 ft/min	Not Specified
Voltage	115	110
HP	1	2
Amps	12	16
Tooling Options	21 various blades	Not Specified
Special Features	Variable speed, removable weight for easy transport	Can be disassembled into 3 pieces for easy transport

SOFT GOODS REMOVAL



Features	National 6280	Husqvarna BS 110	Bartell Mule
Height	46"	42"	42"
Length	51"	38"	39"
Width	17.75"	20"	10"
Weight	425 lbs	375 lbs	290 lbs
Removable Weight	90 lbs	Not Specified	184 lbs
Speed	10-45 ft/min	9.8 0 69 ft/min	Not Specified
Voltage	110	110	110
HP	1.5	2	1.5
Amps	13	13	Not Specified
Tooling Options	42 blade options	Range of blades and chisels	5 blade options
Special Features	Six handle positions for work in confined areas, Orbital action of front end allows easier access under materials	Quiet machine, easy transport and works close to walls	Self-propulsion can be used manually or in automatic mode, brushless motor

SOFT & HARD GOODS REMOVAL



Feature	National 6280HD	Bartell Global the Bull	Turbo Wolff
Height	30" - 46.75"	43.25"	Not Specified
Length	29.5" - 49.5"	35.5"	Not Specified
Width	17.75"	15"	Not Specified
Weight	490 lbs	517 lbs	350lbs
Removable Weight	121 lbs	236 lbs	Not Specified
Speed	Up to 30 ft/min	Not Specified	645 - 1075 sqft/hr
Voltage	115	110	115
HP	1.5	1.5	3
Amps	14.7	Not Specified	Not Specified
Tooling Options	4 shanks, 53 blades	2 chisels, 8 blades	6-10 blades
Special Features	Six handle positions for work in confined areas, Rounded front weight design deflects loose material.	Self-propulsion can be used manually or in automatic mode, brushless motor	Soft start switch, 3 weight positions for adjusting aggressiveness

THE ROGUE



Feature	National Rogue
Height	25.3" - 45.3"
Length	41.4" - 56.8"
Width	19.4" - 22.1"
Weight	472 lbs
Removable Weight	177 lbs
Speed	3 - 150 ft/min
Voltage	120 V
HP	Drive Motor – 1/3 HP (x2) Orbital Motor – 3/4 HP
Amps	15 A
Tooling Options	3 Shanks, 50 blades
Special Features	Dual-Lift, thumb controls, quick change tooling holder

The Rogue is in a lane of it's own and does not have any direct competition. The Rogue redefines walk-behind scraping by delivering the power and performance of a ride-on in a compact, highly maneuverable machine.

- Fully electric
- Precision steering
- A top speed of 150 ft/min
- Adjustable blade angle with a button
- Variable oscillation settings for improved removal efficiency across materials.

The Rogue includes simple controls, modular transportability, and unmatched ease of use, making it a true standout in the surface preparation market.



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FAQ

How do I decide what walk-behind scraper is right for me?

The scraper that would work best for you depends on the type of flooring you typically take up as well as how often you will be using it. If you are planning on using it infrequently, it may be more cost effective to rent.

If you will be using your machine often, you can make your decision based on if you will be removing hard goods, soft goods, or both:

What are soft and hard goods?

Hard goods are ceramic tile, hard wood flooring, and similar materials. Soft goods are VCT, laminate, carpet and similar materials.

Best for Soft Goods:	Best for Hard Goods:
Power Hammer Trolley	6280 Gladiator
550	The Rogue
5280	
6280 Commander	

How do I keep my scraper blades sharp?

After the job make sure to clean and re-sharpen your blades. Clean your blades by removing debris, adhesive or other jobsite residue. Built-up material will limit the effectiveness in application. Use a solvent or cleaning agent if necessary.

Using a bench grinder and a green wheel you can quickly bring a sharp edge back to your blade. Smaller touchups or sharpening of the wings on self-scoring blades can be achieved with a file or sharpening stone.

What are the main benefits of using a walk-behind scraper?

When compared to a chisel and hammer, using a walk-behind scraper is faster and saves stress on the body. When compared to a ride-on scraper, a walk-behind scraper has better maneuverability, lower cost, lighter weight and easier transport.



FAQ

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How fast can a walk-behind scraper remove flooring?

The answer depends on both the type of flooring being removed and the scraper you're using. On average, a walk-behind scraper can remove around 500 square feet per hour. However, this rate can vary based on factors such as the weight of the machine, speed control options, and whether you're removing hard or soft goods. Often times fast is not more effective.

My blade isn't working, how can I fix it?

If a particular blade isn't delivering the results you need, it can help to take a step back and try a different tool. Testing alternative tooling options is often the best way to find what works most effectively for the specific type of flooring you're removing. There are many different kinds of blades, including high-tempered, heavy duty, guillotine, 1-inch, razor and self-scoring.

How do I decide what size blade to use?

When in doubt, start small. It might seem counterintuitive, but starting with a narrower blade helps ensure it stays engaged with the surface. You can always scale up as the job allows. We offer a wide range of tooling and accessories, so you'll have the right setup for every project.

Should I rent or buy?

The best option depends on how often you'll be using your machine, the type of work you're doing, and your upfront budget. If you plan to use a scraper frequently, purchasing a machine can offer a higher return on investment over time. On the other hand, if your scraper use is occasional, renting may be the more cost-effective solution. The good news is, our equipment is available through rental companies and distributors both nationwide and globally.



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MAINTENANCE CHECKLISTS



550 Maintenance Checklist



5280 Maintenance Checklist



6280 Maintenance Checklist



6280HD Maintenance Checklist



Rogue Maintenance Checklist



TOOLING & ACCESSORIES

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Flat Blades: Available in varying dimensions these flat blades are a must-have for VCT, VAT, wood, tile epoxy, elastomeric coatings, scraping thin-set, and glues ceramic.

Premium High Tempered						
Part #	Dimensions (W x L x Thickness)	550	5280	6280	6280HD	Rogue
135	5" x 16" x .062"			X	X	X
136	5" x 8" x .062"			X	X	X
147	4" x 6" x .062"		X	X	X	X
148	5" x 6" x .062"			X	X	X
7050-200	3" x 6" x .062"	X	X	X	X	X
7050-201	3" x 8" x .062"	X	X	X	X	X
7050-202	3" x 10" x .062"	X	X	X	X	X
7050-203	3" x 12" x .062"		X	X	X	X
7050-204	3" x 14" x .062"		X	X	X	
7050-205	3" x 27" x .062"					X
Heavy-Duty Blades						
6240	4" x 6" x .094			X	X	X
6241	4" x 8" x .094"			X	X	X
6242	4" x 12" x .094"			X	X	X
6243	4" x 15" x .094"			X	X	X
6244	4" x 24" x .094"					X
6245	4 x 10" x .094"			X	X	X
6246	4" x 27" x .094"					X
6281	3" x 8" x .094"			X	X	X
6282	3" x 14" x .094"			X	X	X
6283	3" x 27" x .094"					X
6284	3" x 12" x .094"			X	X	X
6285	3" x 6" x .094"	X		X	X	X
6286	3" x 10" x .094"			X	X	X
Guillotine Blades®						
6285-GT	3.75" x 6" x .094"			X	X	X
6284-GT	3.75" x 12" x .094"			X	X	X



TOOLING & ACCESSORIES

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1-Inch Blades

Designed for VCT and adhesive re-scape. They also work well for parking deck coatings, epoxy, and elastomeric coatings.

Part #	Dimensions (W x L x Thickness)	550	5280	6280	6280HD	Rogue
7091	1" x 4" x .094"				X	X
7092	1" x 8" x .094"				X	X
7093	1" x 10" x .094"				X	X
7094	1" x 12" x .094"				X	X

This blade requires a razor blade cutting head.

Razor/Scraper Blades

Designed for super-hard thin epoxies, thin mil coatings (liked urethane paint), poured elastomeric coatings up to 60 mil, and hard to remove adhesives.

Part #	Dimensions (W x L x Thickness)	550	5280	6280	6280HD	Rogue
363-2	1" x 4" x .094"	X	X	X	X	X
368-8	1" x 8" x .094"		X	X	X	X
368-12	1" x 10" x .094"		X	X	X	X
368-15	1" x 12" x .094"		X	X	X	X

Sold in packs of 50.

This blade requires a razor blade cutting head.

Unique Blades

Part #	Dimensions (W x L x Thickness)	550	5280	6280	6280HD	Rogue
Blades With Slots						
130-S	1" x 8" x .094"		X	X	X	X
131-S	1" x 10" x .094"		X	X	X	X
Double Edge Blades						
130-D	3" x 10" x .062"	X	X	X	X	X
147-D	4" x 6" x .062"		X	X	X	X
148-D	5" x 6" x .062"			X	X	X
Increased Angle Blades						
7081	3" x 10" x .062"	X	X	X	X	X
7083	3" x 8" x .062"	X	X	X	X	X



TOOLING & ACCESSORIES

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Blade Holders						
Part #	Description	550	5280	6280	6280HD	Rogue
7280-12	12" Blade Holder				X	
7280 -6GV	6" Grooved Blade Holder				X	X
7280-10GV	10" Grooved Blade Holder				X	X
6280-505	Swivel Blade Holder	X	X	X		
6280-500	Swivel Razor Blade Holder	X	X	X		
7280-6RBH-GV	6" Grooved Razor Blade Holder				X	X
7280-10RBH-GV	10" Grooved Razor Blade Holder				X	X
7280-12RBH	12" Grooved Razor Blade Holder				X	

Angle Shanks w/Carbide Tips						
These shanks are designed to remove ceramic, wood, and thick epoxy.						
Part #	Dimensions (W x L x Thickness)	550	5280	6280	6280HD	Rogue
552	2" x 4" x .312"	X				
7281-1GV	1" x 6" x .500"				X	X
7281-12	2" x 4" x .312"				X	
7281-2GV	2" x 6" x .500", Grooved				X	X

Wood Floor Shanks						
Part #	Dimensions (W x L x Thickness)	550	5280	6280	6280HD	Rogue
7082-8GV	2.5" x 8", Grooved				X	X

Loading Ramp:

- 407484, 30" x 72"

Replacement Wheel Pin:

- 402311, 5/16 x 2-1/16 replacement wheel pin for the **6280** and **6280HD**

Self-Scoring Blades

These angled self-scoring blades work on attached cushion, vinyl back, soft to medium PVC, linoleum, carpet tiles, soft cork, and more.

Part #	Description (W x L x Thickness)	550	5280	6280	6280HD	Rogue
Bevel Up, 90 degree (for concrete sub-floor)						
6239-BU	BU Blade, Self-scoring, 90 degree 2" x 6" x .094"				X	X
6247-BU	BU Blade, Self-scoring, 90 degree 4" x 10" x .094"		X		X	X
6249-BU	BU Blade, Self-scoring, 90 degree 4" x 12" x .094"		X	X	X	
6255-BU	BU Blade, Self-scoring, 90 degree 4" x 6" x .062"		X	X	X	X
6257-BU	BU Blade, Self-scoring, 90 degree 3" x 9" x .062"	X	X		X	X
6258-BU	BU Blade, Self-scoring, 90 degree 3" x 12" x .062"		X	X	X	X
6259-BU	BU Blade, Self-scoring, 90 degree 3" x 14" x .062"			X	X	X
Bevel Up, 45 Degree Angle (for concrete sub-floor)						
6276-BU	BU Blade, Self-scoring, 45 degree 3" x 10" x .094"	X			X	X
6277-BU	BU Blade, Self-scoring, 45 degree 3" x 12" x .094"		X	X	X	X
6278-BU	BU Blade, Self-scoring, 45 degree 3" x 14" x .094"			X	X	X
Bevel Down, 90 Degree (for wood sub-floor)						
6260-BD	BD Blade, Self-scoring, 90 degree 3" x 6" x .094"				X	X
6265-BD	BD Blade, Self-scoring, 90 degree 3" x 8" x .094"				X	X
6266-BD	BD Blade, Self-scoring, 90 degree 3" x 10" x .094"				X	X
4" Tall Wings						
6256-BU	BU Blade, Self-scoring, 90 degree 4" x 6" x .062" x 4"h		X	X	X	X
6261-BU	BU Blade, Self-scoring, 90 degree 3" x 12" x .062" x 4"h			X	X	X
6262-BU	BU Blade, Self-scoring, 90 degree 4" x 6" x .094" x 4"h			X	X	X
6264-BU	BU Blade, Self-scoring, 90 degree 3" x 12" x .094" x 4"h			X	X	X



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TROUBLESHOOTING & RESOURCES

At National, we have a large library of resources to help you maintain and troubleshoot your machines. We try to make it as simple as possible for you to make adjustments in the field so that you can continue your work uninterrupted. Visit some of the links below to get started, and explore more on our YouTube channel.

Troubleshooting and **replacing wheel motors** in walk-behind floor scrapers, specifically the 5280, 6280, and 6280HD models.

- The video provides a step-by-step guide to identifying issues with wheel motors
- Demonstrates the replacement process to ensure optimal machine performance.



Walk-behind not going anywhere? **Make sure that your wheel pins are in.** Putting your wheel pins in place allows the machine to have the drive that it needs to get into the work that you're performing.

- Taking the pins out, it allows the wheels to be freemoving and helps for easier transport.



Replace your Walk-Behind Hydraulic Filter to keep your hydraulic fluid clean, and your machine running its best.

- This video applies to the 5280, 6280 Commander, and 6280HD Gladiator Self-Propelled Walk-Behind Floor Scrapers.





TROUBLESHOOTING & RESOURCES

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6280 Commander vs. 6280HD Gladiator – What's the Difference?

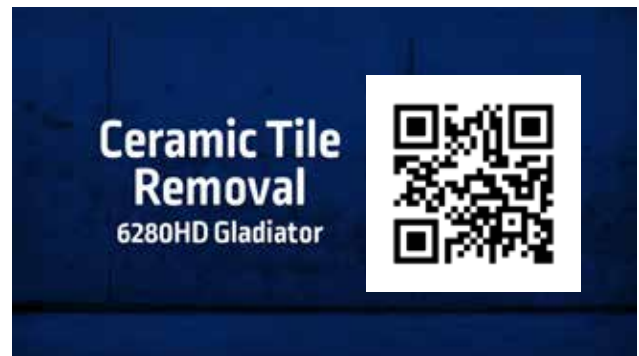
At first glance, they might look nearly identical—and they even share a name. But there are key differences that set them apart.

- Break down the pros and cons of each machine
- Highlighting what makes them unique
- Helping you decide which is the right fit for you.



Watch real-time problem solving in action as we tackle **ceramic tile removal** using the 6280HD Gladiator.

- This video walks you through the process and introduces helpful tooling options to make the job easier.
- Featured in this demo is the 7281-2 Angle Shank with Carbide Tip—an ideal choice for tough removal tasks like this.



A floor scraper is **a great way to take up left over thin set.**

- In this video Dave Bigham, National's Director of Global Training, shares an industry trick he learned many years ago and offers some tips for removing thin set with the 6280HD Gladiator.





RESOURCES

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Visit our YouTube channel & website for more resources.



Congratulations! You've made it through the guide—well done! By now, you should feel confident in your understanding of walk-behind scrapers and equipped with the knowledge you need to make informed decisions about your equipment. From selecting the right machine for the job to properly maintaining and troubleshooting, you've covered the essentials to keep your scraper running smoothly and your flooring removal projects on track.

At National Flooring Equipment, we built this guide with you in mind—your success is our priority. We want you to feel empowered, whether it's your first time using a walk-behind scraper or you're looking to take your skills to the next level. Keep this guide handy and refer back to it whenever you need a refresher or troubleshooting tip.

If you find yourself facing any challenges or have more specific questions, don't hesitate to explore our extensive online video library for detailed demonstrations. Our customer service team is also just a phone call away and ready to assist with any inquiries or support you may need.

Thank you for choosing National Flooring Equipment. We are committed to helping you keep your projects moving forward with confidence, efficiency, and top-notch equipment.

For more materials, resources, and expert support, be sure to visit:



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