

Sharpsmart

The world's safest sharps management system

CLINICALLY PROVEN



Sharpsmart

The Daniels Sharpsmart system is the world's safest and most environmentally responsible sharps management system.

Peer reviewed in four independent studies and relied on by healthcare facilities around the world, the Sharpsmart system is driven by a single objective - **To Save Lives.**

Results from the largest international study of sharps containment systems were published in 2003 in the British Journal of Hospital Infection.

These findings below showed a dramatic reduction in sharps injuries:

Collector related sharps injuries	↓	87%
Other sharps injuries	↓	26%
Total sharps injuries	↓	33%

Safety engineered devices are not enough.



The advancement of safety engineered devices has assisted in the reduction of needlestick injuries, however recent studies show that a safe sharps containment system is paramount in protecting staff and patient safety. Many sharps injuries from safety engineered devices (SED) are due to non-activation. A recent study conducted in 5 Florida healthcare facilities showed that overall, 42.5% of devices were discarded "sharp".

The audit further revealed that only 55.5% of sharps deposited into sharps collectors were Safety Engineered Devices, and of these, 21.6% of were either not activated, or partially activated.



“

In this sampling it is of concern that 12 years after U.S. SED legislation, **64.3%** of healthcare professionals placed themselves at risk by capping or discarding naked needles. Many non-activated phlebotomy devices were visibly blood-contaminated.”

TERRY GRIMMOND

Microbiologist | FASM, BAgrSc, GrDpAdEd

Sustainability

As a company we are passionate about doing business sustainably; empowering the wellbeing of our employees and their communities, driving a spirit of innovation within our culture, and making ecological choices that reduce environmental impact. Harnessing technology to drive sustainable outcomes, Daniels Health have become globally recognized for sustainable products and waste processing solutions that dramatically reduce environmental burden.

Sharpsmart Statistics

DATA EXTRACTED FROM
PEER REVIEWED, PUBLISHED STUDIES

AUTHOR: TERRY GRIMMOND

Microbiologist | FASM, BAgrSc, GrDpAdEd

- Volume of plastic eliminated annually in the United States.



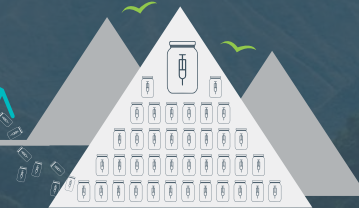
6,600lbs
PER **100** BEDS



- Weight of disposable sharps collectors eliminated from landfills each year by using reusable Sharpsmart collectors.



2,072,300 
lbs



- This is equivalent to the weight of nearly three Airbus A380's.



3 x AIRBUS
A380



- OR equivalent to the weight of 3500 male grizzly bears.



3,500 MALE
GRIZZLY
BEARS



Sharpsmart Models

Born out of 5 years of research, the engineered precision of Sharpsmart's safety-led design sets it apart as the world's first sharps collector qualified and proven to be an engineered safety device. Navigating the complexity of sharps disposal safety risks and very serious threat of blood-borne pathogens being acquired via sharps injuries, Sharpsmart is designed with thirteen unique safety features, each minimizing the disposal risk of sharp items used in human and animal medical applications.

SIZES



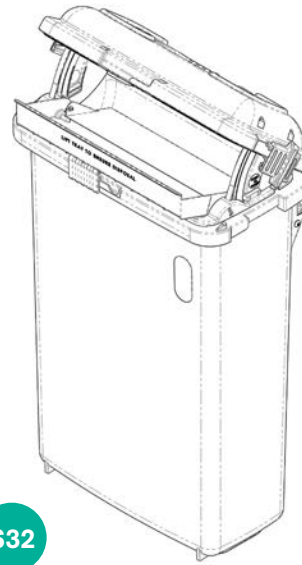
S14

HEIGHT: 11.2"
WIDTH: 15.7"
DEPTH: 8.3"
FILL CAPACITY: 1.7 gal
TOTAL CAPACITY: 3.7 gal



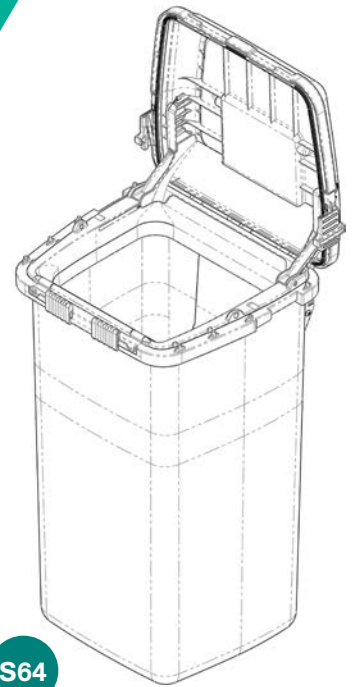
S22

HEIGHT: 17.6"
WIDTH: 15.7"
DEPTH: 8.3"
FILL CAPACITY: 3.8 gal
TOTAL CAPACITY: 5.8 gal



S32

HEIGHT: 24.3"
WIDTH: 15.7"
DEPTH: 8.3"
FILL CAPACITY: 6.2 gal
TOTAL CAPACITY: 8.5 gal



S64

HEIGHT: 28.6"
WIDTH: 15.7"
DEPTH: 13.9"
FILL CAPACITY: 12.4 gal
TOTAL CAPACITY: 16.9 gal

OPENING TYPES



REGULAR

The regular Sharpsmart collector is fitted with an engineered maximum sensitivity safety tray. The safety-tilt mechanism is activated by the weight of the waste in a single swing action, and releases away from the user to ensure safe disposal.



ACCESS PLUS

Designed for secure areas where unrestricted deposit of sharps is required, the Access Plus collector features a full opening lid without a tray to provide full access to the collector.

Waste Types

SHARPS WASTE

Purposed for the safe disposal of clinical sharps, the Biomedical Sharpsmart range is versatile to accommodate small volume waste generated in patient rooms right through to high volume or secure areas including emergency departments, intensive care units, operating rooms, laboratories, long term care homes, nursing homes and doctors offices.

Available Sizes:

REGULAR

14 22 32

ACCESS PLUS

14 22 32 64



CHEMOTHERAPY WASTE

With a range of options for public access and secure areas, the Daniels Chemotherapy range of Sharpsmart collectors are ideally suited for use in regional cancer centers and chemotherapy treatment units.

Available Sizes:

REGULAR

22

ACCESS PLUS

64



PHARMACEUTICAL WASTE

Mitigating unnecessary risk for healthcare practitioners and the public in the disposal, transport and treatment of pharmaceutical waste, the Daniels Pharmaceutical Sharpsmart collectors form part of a safeguarded waste journey that eliminates tampering, theft and misappropriation of discarded pharmaceuticals. Ideally suited for use in pharmacies, medication rooms, medication carts and medication dispensing units.

Available Sizes:

REGULAR

14 22 32

ACCESS PLUS

32 64



“

You have discovered a great engineering control device that is in the process of sweeping the nation.”

Mike Smucker

Kishwaukee Community Hospital, USA,
Environmental Services

“Since the changeover to Sharpsmart, we have seen a major reduction in sharps injuries. The Daniels collector has a built-in “¾ full” feature that prevents overfilling and is completely secure, which our old system was not. The collector is much stronger and thicker than disposables and you don’t have to assemble them. I used to get complaints weekly and sometimes daily from various departments about the old system’s collectors. I can honestly say I don’t recall ever getting a complaint about Daniels collectors. In fact I have had several compliments.”

Peter Clayton, REH. EVS

Director, Fairview Group, Minneapolis, MN.

Sharpsmart

Features & Benefits

The Sharpsmart system has been scientifically proven to be the world's safest and most environmentally responsible sharps management system.

With over 5 years of research invested into its design and engineering, the Sharpsmart collector is manufactured to precise tolerances to ensure that all safety mechanisms are functional on each and every collector. In its design and proven studies the Sharpsmart is more than just a sharps collector, it is an engineered safety device which eliminates risk of collector-related sharps injury and minimizes the impact on our environment.

Peer reviewed and documented in numerous publications globally, the Sharpsmart system has proven greater reduction in sharps injuries than any other sharps containment system in the world.



WIDE OPENING

The optimal access geometry of the lid opening with a wide aperture for large/awkward sharps minimizes disposal-related injuries and restricts hand access to the contained waste.



CHECK CONTENTS LEVEL

A clearview window identifies the fill level of the collector; a feature unique to Daniels Sharpsmart collectors.



ELIMINATES OVERFILLING

Once the collector is full, the in-built safety tray is activated into an upright closed position to restrict access and overfilling.



MAXIMUM STRENGTH HARDENED PLASTIC

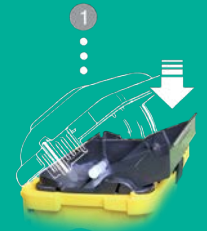
The medical grade hardened plastic casing of the Sharpsmart collector is completely impenetrable by contained sharps. The Sharpsmart collector has been test-proven to an amazing 500 cycles proving its durability, sterility and re-usability.



Safe disposal in a single action:

The Sharpsmart collector has been strategically engineered to minimize risk by enabling single-action sharps disposal:

- ▶ The maximum sensitivity safety tray is activated by the weight of the waste with a single swing action.



- ▶ The safety-tilt mechanism releases the waste safely into the collector away from the user.



- ▶ When static or in motion, the swing-action safety tray effectively conceals the aperture of the collector to ensure no hands ever come into contact with contaminated sharps.



- ▶ The gravity balanced mechanism of the tray resets to an open safe-disposal position after each use until the collector is full.



CANNOT BE REOPENED

Side locks are tamper proof when engaged. This safety feature prevents unauthorized access to the collector contents.



NO LEAKS

A liquid seal fixed around the rim of the collector lid eliminates leakage of bodily fluids during transport. Collector leakage is a common hazard in sharps collectors that are not equipped with a leakproof seal.

Sharpsmart

Circle of Safety



SMART, SAFE DELIVERY SYSTEM

Sharpsmart collectors arrive preassembled, thereby eliminating:

- Waste from cardboard packaging
- Container assembly time
- Sharps injuries caused by incorrectly assembled container



SHARPS COLLECTORS WHERE YOU NEED THEM

Daniels waste specialists will advise on the best systems for your facility, incorporating:

- Collector sizes and locations to optimize changeover frequency
- Purpose designed interchangeable brackets, trolleys and storage solutions to maximize logistical efficiencies and enable point-of-use disposal
- Education, support and training of staff



PROTECTING STAFF AND PATIENTS

The Sharpsmart patented swing-action safety tray:

- Provides a 11.8" wide unhindered opening to allow large sharps to be deposited without force
- Eliminates hand access to discarded sharps
- Eliminates overfilling by defaulting to a closed position once sharps volume reaches the fill line
- In secure areas, including operating rooms and laboratories, where bulky sharps are used or rapid deposition is required, Daniels Access Plus Sharpsmart range optimizes volume, efficiency and safety requirements



ECO-FRIENDLY

Environmentally friendly detergent is used during the six stage robotic washing process. The Daniels automated washline does not require harmful chemicals to achieve its high degree of microbiological efficacy.



SAFER WHEN FULL

When full, the safety tray swings into an upright position to prevent overfilling and risk of sharps injury from protruding sharps. Added safety features of the SharpSmart collector include:

- Unique tamper-proof locks
- Side locks which, once engaged, prevent the collector from being re-opened manually
- Leakproof seals prevent risk of leakage during movement

NO RISKS IN TRANSIT

Daniels ensures the highest standards of safety and service even after full SharpSmart collectors have been removed from your premises:

- Purpose-built bulk delivery carts enable efficient handling of SharpSmart collectors within your facility
- Purpose-built bulk transporters transport SharpSmart collectors from your facility to ensure that they are kept permanently upright and elevated from the ground to avoid damage, contamination and spillage
- SharpSmart collectors meet United Nations PG2 certification standards for the transport of Dangerous Goods

QUALITY CONTROL CHECKS BEFORE THE CYCLE STARTS

Rigorous quality checks are carried out on each SharpSmart collector before they are returned to service. These include:

- Washsmart robotic cleaning process which has been tested to prove a 10⁶ log reduction in bacterial load
- Manual cleanliness checks
- Manual functionality checks

Daniels Health Theatre Solutions



▲
S32 Access Plus collector
mounted on a Cartsmart trolley

Sharpsmart Access Plus

Designed for secure areas where unrestricted deposit of sharps is required, the Access Plus collector features a fully opening lid without a tray to provide full access to the collector.*

The Access Plus collector comes in 4 sizes:

- **S14**
11.2" (H) x 15.7" (W) x 8.3" (D),
Fill Capacity 1.7 Gallons, Total Capacity 3.7 Gallons
- **S22**
17.6" (H) x 15.7" (W) x 8.3" (D),
Fill Capacity 3.8 Gallons, Total Capacity 5.8 Gallons
- **S32**
24.3" (H) x 15.7" (W) x 8.3" (D),
Fill Capacity 6.2 Gallons, Total Capacity 8.5 Gallons
- **S64**
28.6" (H) x 15.7" (W) x 13.9" (D),
Fill Capacity 12.4 Gallons, Total Capacity 16.9 Gallons



* It is the recommendation of Daniels Health that Access Plus collectors are only used in controlled areas.



Point of use accessibility

▲ S64 mounted on an Accesssmart trolley with an S22 Sharpsmart bracketed on the side.

Meeting industry demand for a larger receptacle sharps collector for surgical devices, the S64 deviates from the slimline design of the Sharpsmart Access Plus collectors to incorporate a wider aperture and taller vertical drop for longer bulkier instruments and volumetric sharps waste. Used in conjunction, the Daniels Accesssmart foot-pedal trolley enables easy maneuverability in tight spaces, point-of-use accessibility and hands-free operation.

Recommended as a total theatre solution, the S64 with an S22 Sharpsmart mounted on the side of an Accesssmart trolley provides point-of-use sharps segregation. With medical devices and longer laparoscopic and surgical instruments deposited into the S64, the S22 captures smaller needles and finer syringes with the added protection of a counter-balanced safety tray and a no-hands access safety mechanism.





Versatile Design



Mounting Bracket



Peg System

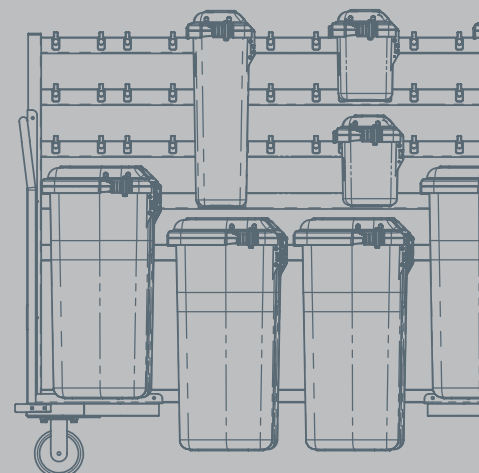


Rail Locks

Position. Storage. Movement.

Engineered to optimize space, overcome logistical challenges, and enable point-of-use disposal, the Daniels suite of clinical products and accessories are designed to form an end-to-end waste management solution, providing safe and seamless transition between different work environments and applications.

Designed for 100% versatility, all Daniels products and accessories are formed around three unique mounting systems which enable uninterrupted transition of collectors throughout patient environments and between utility rooms and a hospital's loading dock. The Daniels peg system, mounting bracket and rail-locks, all designed for interchangeability, ensure Sharpsmart collectors are always elevated and secure whilst facilitating efficient movement of single or multiple collectors. Engineered to mitigate risk in all secure and non-secure patient environments, the Daniels range of accessories ensure safety is maintained at every stage of the waste journey.





Partner with us in saving lives.

THE COST OF A NEEDLESTICK INJURY

Sharps injuries not only incur substantial financial implications for medical institutions, they also impose a huge emotional burden on healthcare workers and families.

“

For 26 years, I was a staff nurse and loved my practice. But one day, I was stuck with a needle protruding from a sharps collector. I didn't know it then, but my life was changed forever that day. A few months later, I learned that the fatigue, weight loss and other symptoms I was experiencing were due to exposure to bloodborne pathogens from that needlestick. In the beginning I didn't know if I'd survive or what my life would be like. I had to leave bedside nursing. One thing I was sure of is that my injury was preventable, and I didn't want to see this happen to anyone else.”

KAREN DALEY

PhD, MPH, RN, FAAN

President, American Nurses Association

Since their introduction in 2000, it is estimated that Sharpsmarts have saved more than **50,000** healthcare workers from sustaining a sharps injury. With the average cost of a sharps injury being \$6,000 USD, the total estimated costs saved is **\$300million.**

Sharpsmart Mounting Options

The Daniels suite of bracketing and transportation accessories have been engineered to achieve maximum versatility, optimize space, and overcome logistical challenges within clinical environments. Designed with a small footprint to fit into space-restrictive areas, the Daniels trolleys and floorstands are fitted with a standard mounting bracket which gives optimum flexibility for point-of-use disposal and efficient movement of collectors.

ORDER CODE

1028000000

STANDARD CRADLE

Easy to install design simply hooks over rail on trolley to allow Sharpsmart collectors to face inwards or outwards. Rugged, non-rust stainless steel construction.

Compatibility: S14, S22 Regular and Access Plus sizes



1027000000

MOUNTED CRADLE

Identical concept and design as Standard Cradle, but with additional mounting plate to attach cradle to a wide variety of trolley designs.

Compatibility: S14, S22 Regular and Access Plus sizes



4005007000

STANDARD WALL BRACKET

Universal bracket enabling wall mounting of Sharpsmart range. Bracket kit comes with screws and hole-plugs. For wall mounting of Access Plus Sharpsmarts, see Access Plus bracket.

Compatibility: S14, S22 and S32 Regular sizes



4000207000

WALL BRACKET - ACCESS PLUS

Designed for wall mounting of the Sharpsmart Access Plus range to allow 90-degree lid opening.

Compatibility: S14, S22, S32 Access Plus sizes



4008507000

Left Side Lock

4008607000

Right Side Lock

SHARPSMART LOCKING WALL BRACKET

For use in areas where secure, key lock mounting of Sharpsmart collectors is required.

Compatibility: S14, S22 and S32 Regular sizes



4000100000

LOCKING MOUNTSMART

Designed for versatile inward or outward mounting of Sharpsmart collectors to allow 90-degree lid opening.

Compatibility: S14, S22, S32 Regular and Access Plus sizes



4010000000

BENCH BRACKET FOR SHARPSMART S14

Provides secure stabilization of S14 collectors on a benchtop.

Compatibility: S14 Sharpsmart Regular and Access Plus sizes



4010100000

BENCH BRACKET FOR SHARPSMART S22

Provides secure stabilization of S22 collectors on a benchtop.

Compatibility: S22 Sharpsmart Regular and Access Plus sizes



5806000000

S-SERIES FLOOR STAND

Designed for stable floor mounting. Stainless steel and plastic construction is tough and easy to clean.

Compatibility: S14, S22 and S32 Regular and Access Plus sizes



6424007000

64 SERIES FLOOR STAND

Designed for stable floor mounting. Stainless steel and plastic construction is tough and easy to clean.

Compatibility: 64 Series Access Plus only



Sharpsmart Storage & Logistics

6005019001 **MRI CARTSMART**

Designed for use in MRI suites and any applications which require non-magnetized equipment. This product has an MR Conditional Rating.

Compatibility: All Sharpsmart Regular and Access Plus sizes



6000100000 **CARTSMART 1**

Enables convenient, mobile, off the floor mounting of Sharpsmarts. Plastic construction is lightweight and easy to clean.

Compatibility: All Sharpsmart Regular and Access Plus sizes



6006500000 **SOFT CLOSE ACCESSMART**

Designed for optimized ward movement with an odor-reduction mechanism, this foot-pedal operated trolley can also be fitted with a side mounting bracket to hold Sharpsmart S14 and S22 regular collectors.

Accessmart Trolley Compatibility: 64 Series collectors

4001916000 **S-Series Side Bracket Compatibility:** S14, S22 regular only



4004806000 **WALLSMART STORAGE SYSTEM**

29.5" wide

Unique hook system that enables Sharpsmart collectors to be wall mounted for efficient storage within hospitals. Modular system of panels can be arranged to suit different sized walls and storage areas.

4002806000

44.1" wide

Panel size: 70.9" (H) | Two width sizes are available: 29.5" & 44.1"

Compatibility: All Sharpsmart Regular and Access Plus sizes

The 29.5" wide can hold: 15 x S14; or 12 x S22; or 9 x S32; or 4 x 64-Series collectors, or a combination of various sizes. The 44.1" wide can hold: 25 x S14, or 20 x S22; or 15 x S32; or 6 x 64-Series collectors, or a combination of various sizes.



4017700000 **WALLSMART MINI**

A wall mounted system for holding up to 3 Sharpsmart collectors.

Standard panel size: 6" (H) x 1.5" (W)

Compatibility: All Sharpsmart Regular and Access Plus sizes



6001606002 **SMALL INTERNAL DELIVERY CART**

Custom made delivery cart with rubber buffers and brakes for movement of Sharpsmarts within a healthcare facility. Holds 40 x S14; or 20 x S22 plus 10 x S14; or 20 x S32, or a combination of various sizes.

S-Series Cart Compatibility: S14, S22, S32 Regular and Access Plus Sizes



6002400000 **SMALL 64 INTERNAL DELIVERY CART**

Added compatibility with 64 series collectors only.

6001606001 **LARGE INTERNAL DELIVERY CART**

Custom made delivery cart with rubber buffers and brakes for movement of Sharpsmarts within a healthcare facility. Holds 80 x S14; or 48 x S22 plus 8 x S14; or 32 x S32 plus 8 x S22; or 16 x S14, or a combination of various sizes.

S-Series Cart Compatibility: S14, S22, S32 Regular and Access Plus Sizes



6001900000 **LARGE 64 SERIES INTERNAL DELIVERY CART**

Added compatibility with 64 series collectors.

4001705000 **ADAPTER BRACKET**

The 64 series adapter bracket is designed to mount onto the horizontal bars of the delivery cart to facilitate transport of the S64 (and other 64 series) collectors. Each bracket mounts two S64 collectors.

Compatibility: 64 Series Accessplus only

Daniels Health. A paradigm shift in healthcare waste management.

Established in 1986, Daniels Health has been shaping and redefining safe waste practices for over three decades. A family owned business, Daniels was born out of a passion for minimizing the risks exposed to healthcare professionals from unsafe sharps handling practices, and this passionate aspiration remains a cornerstone of the company's practices thirty years on. Today over 125,000 services are fulfilled annually across the United States, enabled by local and experienced support. From small practices to large medical facilities, our scaleable business model ensures that every customer receives:

- ▶ Leadership, advocacy and innovation for safer hospital waste practices
- ▶ Products that benchmark the highest standards of staff and patient safety
- ▶ Environmentally conscious transport and treatment alternatives
- ▶ Solutions that ensure minimum disruption to patient care and medical proceedings
- ▶ Timely scheduled services with reliable service technicians
- ▶ A client relationship that is authentic, trustworthy and empowering



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The **Sharpsmart** system is protected by patent # **US 6250465 B1**