Sharpsmart

The world’s safest sharps management system

CLINICALLY PROVEN
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”.

Safety engineered devices are not enough.

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, GrOpAdEd

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:

<table>
<thead>
<tr>
<th>Collector related sharps injuries</th>
<th>87%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other sharps injuries</td>
<td>26%</td>
</tr>
<tr>
<td>Total sharps injuries</td>
<td>33%</td>
</tr>
</tbody>
</table>

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.

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: **6,600 lbs**
- Weight of disposable sharps collectors eliminated from landfills each year by using reusable Sharpsmart collectors: **2,072,300 lbs**
- OR equivalent to the weight of 3500 male grizzly bears:
- OR equivalent to the weight of nearly three Airbus A380’s:
- This is equivalent to the weight of nearly three Airbus A380’s:

6,600 lbs PER 100 BEDS

2,072,300 lbs

3 x AIRBUS A380

3,500 MALE GRIZZLY BEARS
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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Fill Capacity</th>
<th>Total Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S14</td>
<td>11.2&quot;</td>
<td>15.7&quot;</td>
<td>8.3&quot;</td>
<td>1.7 gal</td>
<td>3.7 gal</td>
</tr>
<tr>
<td>S22</td>
<td>17.6&quot;</td>
<td>15.7&quot;</td>
<td>8.3&quot;</td>
<td>3.8 gal</td>
<td>5.8 gal</td>
</tr>
<tr>
<td>S32</td>
<td>24.3&quot;</td>
<td>15.7&quot;</td>
<td>8.3&quot;</td>
<td>6.2 gal</td>
<td>8.5 gal</td>
</tr>
<tr>
<td>S64</td>
<td>28.6&quot;</td>
<td>15.7&quot;</td>
<td>13.9&quot;</td>
<td>12.4 gal</td>
<td>16.9 gal</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>REGULAR</th>
<th>ACCESS PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>64</td>
<td>64</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>REGULAR</th>
<th>ACCESS PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>64</td>
<td>64</td>
</tr>
</tbody>
</table>

**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:

<table>
<thead>
<tr>
<th>REGULAR</th>
<th>ACCESS PLUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>64</td>
<td>64</td>
</tr>
</tbody>
</table>

"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.
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.

**Sharpsmart Features & Benefits**

**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.
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 a 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 10^6 log reduction in bacterial load
- Manual cleanliness checks
- Manual functionality checks
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.
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 Accessmart 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.
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 $300 million.
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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>1028000000</td>
<td>STANDARD CRADLE</td>
<td>S14, S22 Regular and Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1027000000</td>
<td>MOUNTED CRADLE</td>
<td>S14, S22 Regular and Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>Identical concept and design as Standard Cradle, but with additional mounting plate to attach cradle to a wide variety of trolley designs.</td>
<td></td>
</tr>
<tr>
<td>4005007000</td>
<td>STANDARD WALL BRACKET</td>
<td>S14, S22 and S32 Regular sizes</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>4000207000</td>
<td>WALL BRACKET - ACCESS PLUS</td>
<td>S14, S22, S32 Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>Designed for wall mounting of the Sharpsmart Access Plus range to allow 90-degree lid opening.</td>
<td></td>
</tr>
<tr>
<td>4008507000</td>
<td>SHARPSMART LOCKING WALL BRACKET</td>
<td>S14, S22 and S32 Regular sizes</td>
</tr>
<tr>
<td>Left Side Lock</td>
<td>For use in areas where secure, key lock mounting of Sharpsmart collectors is required.</td>
<td></td>
</tr>
<tr>
<td>4008607000</td>
<td>Right Side Lock</td>
<td></td>
</tr>
<tr>
<td>4000100000</td>
<td>LOCKING MOUNTSMART</td>
<td>S14, S22, S32 Regular and Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>Designed for versatile inward or outward mounting of Sharpsmart collectors to allow 90-degree lid opening.</td>
<td></td>
</tr>
<tr>
<td>4010000000</td>
<td>BENCH BRACKET FOR SHARPSMART S14</td>
<td>S14 Sharpsmart Regular and Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>Provides secure stabilization of S14 collectors on a benchtop.</td>
<td></td>
</tr>
<tr>
<td>4010100000</td>
<td>BENCH BRACKET FOR SHARPSMART S22</td>
<td>S22 Sharpsmart Regular and Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>Provides secure stabilization of S22 collectors on a benchtop.</td>
<td></td>
</tr>
<tr>
<td>5806000000</td>
<td>S-SERIES FLOOR STAND</td>
<td>S14, S22 and S32 Regular and Access Plus sizes</td>
</tr>
<tr>
<td></td>
<td>Designed for stable floor mounting. Stainless steel and plastic construction is tough and easy to clean.</td>
<td></td>
</tr>
<tr>
<td>6424000700</td>
<td>64 SERIES FLOOR STAND</td>
<td>64 Series Access Plus only</td>
</tr>
<tr>
<td></td>
<td>Designed for stable floor mounting. Stainless steel and plastic construction is tough and easy to clean.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Compatibility: 64 Series Access Plus only</td>
<td></td>
</tr>
</tbody>
</table>
**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
- **S-Series Side Bracket Compatibility:** S14, S22 regular only

---

**4004806000 WALLSMART STORAGE SYSTEM**
- 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.
- **Panel size:** 70.9” (H) | Two width sizes are available: 29.5” & 44.1”
- **Compatibility:** All Sharpsmart Regular and Access Plus sizes

---

**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

---

**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

www.danielshealth.com | usa@danielshealth.com | 888 952 2655

The Sharpsmart system is protected by patent # US 6250465 B1