Dynasafe Static Detonation Chamber (SDC)
Demilitarization Units

UXB International Inc.
www.uxb.com
Heated System

- Temperature held above auto-initiation temperature of all known explosives and propellants
- Insures COMPLETE destruction
  - In one step
  - Without dismantling
- No counter charges required
The SDC Series is Efficient

- Energy from materials being processed maintains temperature
  - Recycling credits
- No open flame or external fuel used
  - Indirect, clean electric heating
  - Minimizes resulting gasses needing treatment
  - Lower capital and operating costs
- Classified as a Static Detonation Chamber
  - SDC is not an incinerator (no open flame used)
  - Simplifies and speeds permitting
The SDC Series is Safe

- **Absolute minimum munitions handling**
  - Automated feed system
    - interlocked
    - fail safe
- **Most munitions need NO preparation**
  - NO Cutting
  - NO Opening
  - NO Fuze removal
- **Submunitions can be fed while still in racks**
The SDC Series is Safe

- Double walled main chamber
  - 300% safety margin
- Feed chambers made to take full rated detonation
- Interlocked feed chambers (2)
  - System is never open to outside during operation
The SDC Series is Clean

- Gas treatment system meets emissions requirements – Domestic and International
- Treatment of chemical fills possible
- Metal scrap ready for recycle without additional processing
The SDC Series is Quiet

- Total Containment = Quiet
  - cannot be heard 100 feet away
  - All metal frag contained and recycled
- Minimal footprint
  - Well suited for space limited facilities
  - Easy to set-up
  - Minimal maintenance
### High production rates

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>DESCRIPTION OF REJECTED AMMUNITION/EXPLOSIVE</th>
<th>ACTUAL QUANTITY DESTROYED</th>
<th>DEMIL PROCESS</th>
<th>ACTUAL SHIFTS REQUIRED</th>
<th>CALCULATED PLANT CAPACITY UNITS/SHIFT (10-HOUR SHIFT)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Cap Precussion</td>
<td>74,175</td>
<td>DIRECT FEED</td>
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<td>Proj. 155 HE</td>
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<td>CUT / FEED</td>
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<tr>
<td>35</td>
<td>Proj. 155 WP</td>
<td>990</td>
<td>DIRECT FEED</td>
<td>65</td>
<td>15</td>
</tr>
</tbody>
</table>
Available in Three Sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Largest single item (NEW)</th>
<th>Explosive capacity/hr (NEW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDC800 *</td>
<td>800gr</td>
<td>10kg</td>
</tr>
<tr>
<td>SDC1200 *</td>
<td>1200gr</td>
<td>20kg</td>
</tr>
<tr>
<td>SDC2000</td>
<td>2300gr</td>
<td>40kg</td>
</tr>
</tbody>
</table>

*Available in Mobile Configuration

- All are re-locatable
- All are available in conventional or conventional/chemical configuration

Making The World Safer
SDC units in operation around the world

- **Swedish Defence Material Administration, FMV, Sweden, SDC800**
- Delivered in January 1999
- Used for destruction of 20 mm anti-aircraft ammunition, fuzes, detonators, pyrotechnic articles, explosives, propellants etc.
SDC units in operation around the world

- **UXB International, USA, SDC1200**
- Delivered 2003
- Installed in Asia
- Used for demil of anti-personnel mines, projectiles, mortars, fuzes, detonators, grenades, bulk explosives and propellants, rockets
- High explosives (HE), smoke, illumination, white phosphorous (WP)

*Making The World Safer*
SDC units in operation around the world

- **UXB International, USA, SDC2000**
  - Installed in Asia
  - Used for demil of AP and anti-tank mines, projectiles, mortars, fuzes, detonators, grenades, bulk explosives and propellants, rockets
  - HE, smoke, illumination, WP

*Making The World Safer*
SDC units in operation around the world

- **GEKA, Germany**, SDC2000
- Delivered 2005
- Used for demil of recovered Chemical Weapons, Airbags, conventional ammunition, bulk explosives and propellants
- Achieved non-detect in treated materials

Making The World Safer
SDC 1200 Mobile Configuration

- Puts the SDC 1200 in 40 ft Sea/Land containers
  - Same destruction capacities
  - Over the road capable without special permits
  - Can operate in unimproved areas
  - Can be supplied with mobile utilities
  - Integrated off-gas treatment unit
Configuration

Feed Room

Feed Chamber
Main Chamber
Scrap Handling
Main Chamber
Feed Chamber Configuration

Feed Chamber
Operational Configuration

Making The World Safer
Gas Treatment Train

Dry scrubber Systems available
Complete Demil plant
Only needs ½ Acre for setup
Minimal Quantity/Distance (Q/D) arc (dependent on staged munition quantity)
True 5X scrap
Low life cycle operating costs