

# MSA Confined Space Entry Equipment



**XTIRPA™**



*Because every life has a **purpose...***

## MSA XTIRPA Manhole Guard System

Use for confined space vertical entry and fall protection when portable base is needed.

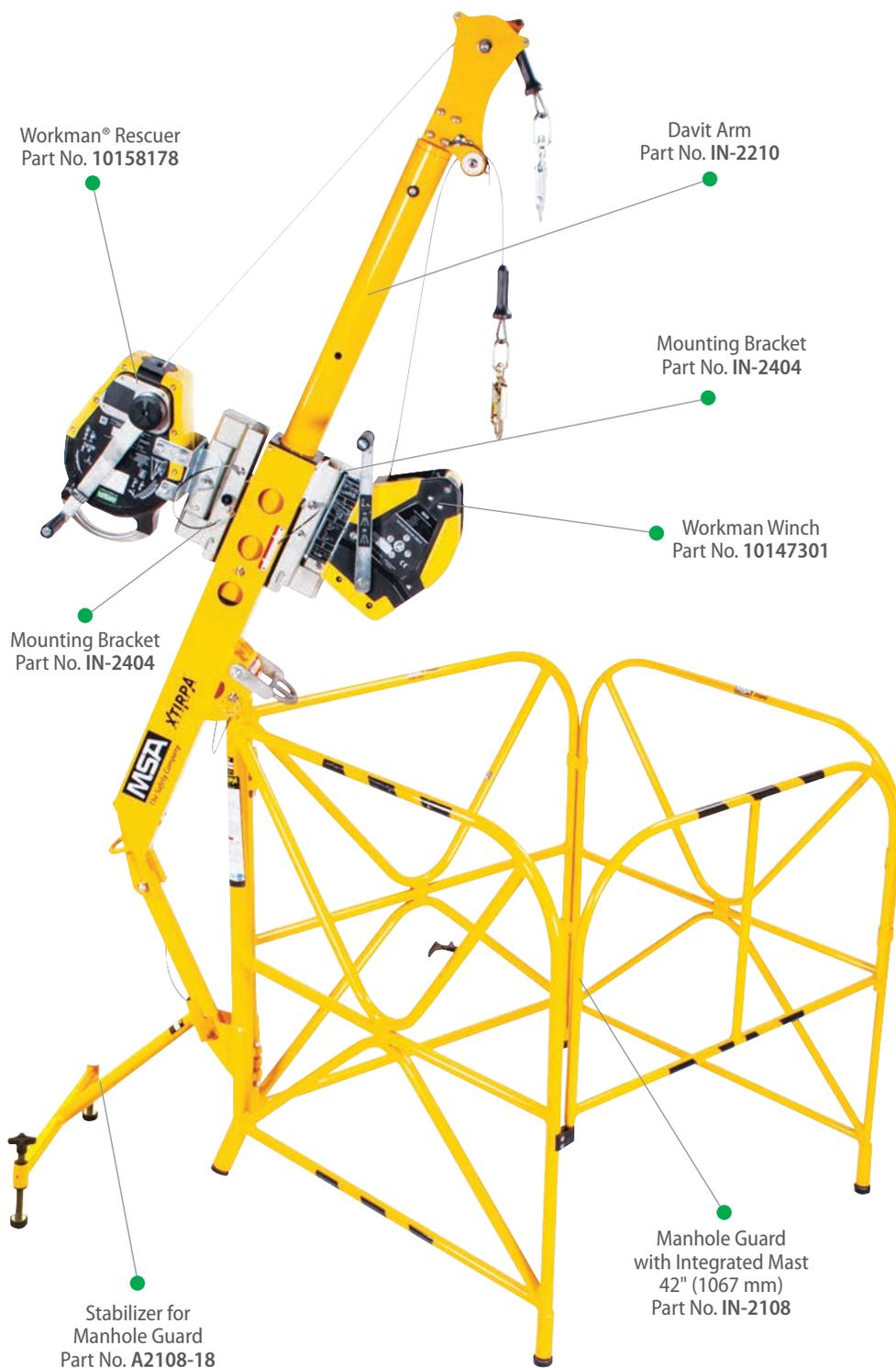
Manhole Guard Systems are portable anchorage connectors used for vertical entry into confined spaces. The Manhole Guard with Integrated Mast barricades exposed entry points while providing the necessary strength needed for fall protection, entry and retrieval applications. The Davit Arm and Manhole Guard with Integrated Mast interface allows for reduced material surrounding the confined space entry, thus reducing the presence of trip and fall hazards.

### Weight Capacity

**400 lbs. (181 kg)**  
as pictured with Workman Rescuer and Workman Winch

### Required System Components

- Davit Arm **IN-2210**
- Manhole Guard with Integrated Mast **IN-2108**  
**OR**  
Large Manhole Guard with Integrated Mast **IN-2324**
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**





# MSA Confined Space Entry Equipment

## MSA XTIRPA Adapter Base System—24" Reach

Use for confined space vertical entry and fall protection when fixed base is needed.

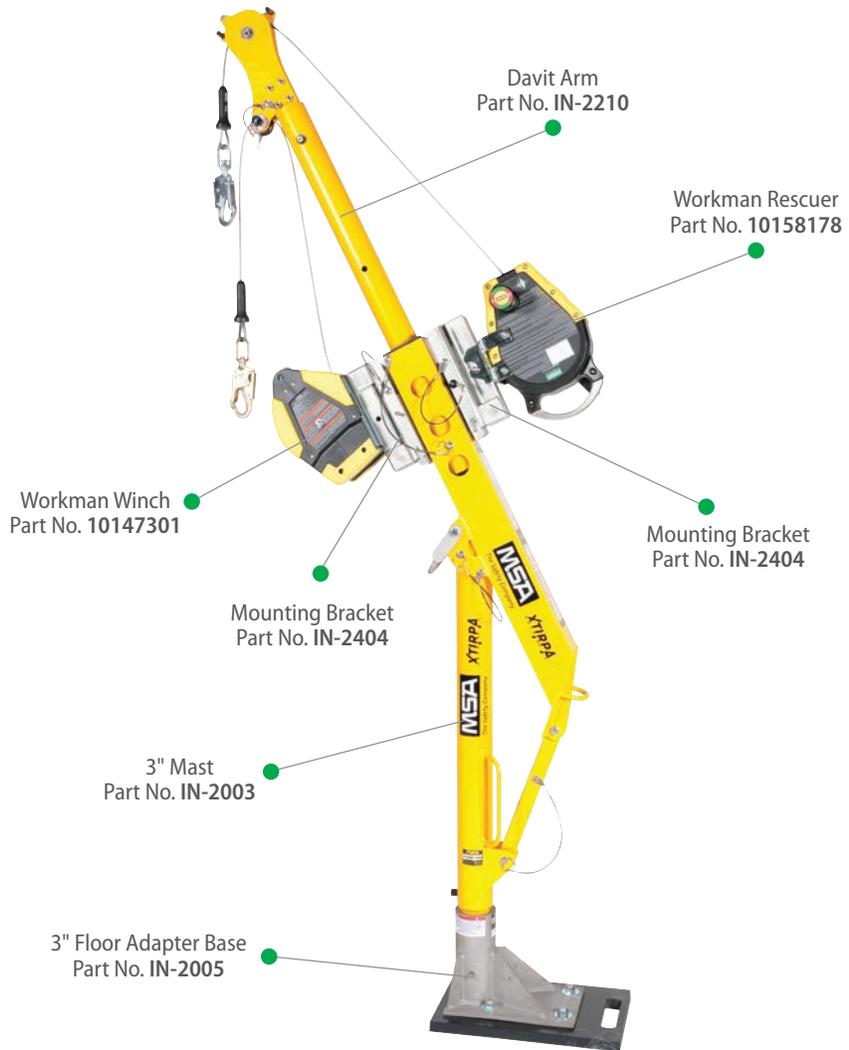
Adapter Base Systems are fixed anchorage connectors used for vertical entry into confined spaces. The adapter base is permanently affixed to an existing structure. The many different adapter base options can accommodate any work environment. This system is designed for work areas that require regular setup and teardown.

### Weight Capacity

**360 lbs. (163 kg)**  
as pictured with Workman Rescuer

### Required System Components

- Davit Arm **IN-2210**
- 3" Mast **IN-2003**
- 3" Adapter Base
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**



### Ordering Information

#### Davit Arm 24" Reach



#### P/N IN-2210

24" davit arm with secondary winch adapter for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with 24" mast IN-2003 and appropriate base/system or manhole guard. IN-2108 or IN-2324. Equipped with 5,000-lb. anchor point. Unit weight: 33 lbs.

#### 3" Diameter Mast



#### P/N IN-2003

Mast for confined space fall protection and retrieval to be used in conjunction with the 24" davit arm IN-2210 and any Xtirpa System mast base or system. 45" height. Unit weight 22 lbs.

#### Mast Extension (15', 18" or 24")



**P/N IN-2044** 15" Unit weight 20 lbs.

**P/N IN-2109** 18" Unit weight 24 lbs.

**P/N IN-2045** 24" Unit weight 26 lbs.

Mast extension is constructed of painted steel and provides additional height when used with any mast base.

Ordering Information		
<b>3" Floor Adapter Base</b>		<p><b>P/N IN-2005</b> 304 stainless steel  <b>P/N IN-2106</b> Zinc-plated  <b>P/N IN-2311</b> 316 stainless steel</p> <p>Floor adapter base attaches to concrete or steel. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</p>
<b>3" Flush Floor Adapter Base</b>		<p><b>P/N IN-2006</b> 304 stainless steel  <b>P/N IN-2114</b> Zinc-plated  <b>P/N IN-2325</b> 316 stainless steel</p> <p>Floor adapter attaches to concrete or steel. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210. Bolts not included.</p>
<b>3" Fresh Concrete Floor Adapter Base</b>		<p><b>P/N IN-2007</b> 304 stainless steel  <b>P/N IN-2326</b> 316 stainless steel</p> <p>Floor adapter for use with fresh concrete floors in new construction. May help to reduce trip hazards when not in use. Use with mast IN-2003 and davit arm IN-2210.</p>
<b>3" Wall Adapter Base</b>		<p><b>P/N IN-2013</b> 304 stainless steel  <b>P/N IN-2107</b> Zinc-plated  <b>P/N IN-2327</b> 316 stainless steel</p> <p>Adapter attaches flush to concrete or steel vertical structures for minimal intrusion. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</p>
<b>3" Mural Adapter Base with 8" Offset</b>		<p><b>P/N IN-2124</b> 304 stainless steel</p> <p>Adapter attaches to concrete or steel vertical structures, provides 8" clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</p>
<b>3" Mural Adapter Base with 14" Offset</b>		<p><b>P/N IN-2067</b> 304 stainless steel  <b>P/N IN-2312</b> 316 stainless steel</p> <p>Adapter attaches to concrete or steel vertical structures, provides 14" clearance from wall. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.</p>
<b>3" Sleeve Adapter Base</b>		<p><b>P/N IN-2097</b> 304 stainless steel  <b>P/N IN-2328</b> 316 stainless steel</p> <p>Sleeve adapter provides flush mount with concrete floor. For use with universal mast IN-2003 and davit arm IN-2210. 4.2" diameter hole needed.</p>
<b>3" Barrel Adapter Base</b>		<p><b>P/N IN-2021</b> 304 stainless steel  <b>P/N IN-2129</b> Zinc-plated</p> <p>Barrel adapter attaches to walls that are maximum 3" thick. For use with universal mast IN-2003 and davit arm IN-2210. Commonly used on boats and ferries.</p>
<b>3" Barrel Adapter Base 2" to 5"</b>		<p><b>P/N IN-2315</b> Zinc-plated</p> <p>Barrel adapter attached to walls between 2" and 5" thick. Commonly used on shoring boxes.</p>
<b>3" Exterior Corner Wall Adapter Base</b>		<p><b>P/N IN-2131</b> 304 stainless steel  <b>P/N IN-2132</b> Zinc-plated</p> <p>Wall mount adapter base provides option for attaching mast adapter to exterior 90° corner wall. Bolts not included.</p>
<b>3" Interior Corner Wall Adapter Base</b>		<p><b>P/N IN-2133</b> 304 stainless steel  <b>P/N IN-2134</b> Zinc-plated</p> <p>Wall mount adapter base provides the option for attaching a mast adapter to an interior 90 degree corner wall. Bolts not included.</p>
<b>Universal Ring Adapter</b>		<p><b>P/N IN-2087</b></p> <p>Universal ring adapter is used on ceilings or walls with Pole Hoist System. Use horizontally or vertically. Bolts not included.</p>
<b>3" Center Mount Floor Adapter Base</b>		<p><b>P/N IN-2105</b> 304 stainless steel  <b>P/N IN-2137</b> Zinc-plated  <b>P/N IN-2329</b> 316 stainless steel</p> <p>Center mount floor adapter attaches to concrete or steel. Use with universal mast IN-2003 and davit arm IN-2210. Ideal when 360° movement required. Bolts not included.</p>
<b>3" H-Beam Adapter Base</b>		<p><b>P/N IN-2085</b> 304 stainless steel</p> <p>Adapter attaches to H-beam to provide anchorage point for mast IN-2003 and davit arm IN-2210. Designed for H-beam width 12" x 26". Used on suspended floors over sections of beams. Ships with bolts.</p>

# MSA Confined Space Entry Equipment

Ordering Information		
<b>3" Top Wall Adapter 90°</b>		<b>P/N IN-2117</b> 304 stainless steel Adapter provides option for attaching mast adapter to top of concrete wall at 90°. Use with universal mast IN-2003 and davit arm IN-2210. Bolts not included.
<b>Mural Wall Angular Adapter</b>		<b>P/N IN-2314</b> Wall mounted winch adapter plate for use with IN-2087 anchor and confined space pulley and carabiner.
<b>Fall Arrest and Rescue Link Adapter</b>		<b>P/N IN-2271</b> Adapter for fall arrest and rescue fits onto davit arm IN-2210 and is used with mechanical rope system in place of SRL. Used to form mechanical advantage rope system.
<b>Wire Rope Link</b>		<b>P/N IN-2400</b> Wire rope to be used with IN-2271 fall arrest and rescue link adapter.
<b>Warning Post</b>		<b>P/N IN-2161</b> Used with permanent adapter bases when installed in high traffic locations to provide visual warning. May help prevent objects from falling in base and reduce trip hazards. Fits 3" diameter hole for bases used with IN-2003 universal mast.
<b>3" Adapter Cap</b>		<b>P/N IN-2072</b> Cap for use with permanent adapter bases when mast not installed. May prevent objects from falling into adapter base. Fits 3" diameter hole for IN-2003 universal mast.
<b>3" Adapter Cap with SST Wire</b>		<b>P/N IN-2073</b> Cap with stainless steel wire for use with permanent adapter bases when mast not installed. May prevent objects from falling into adapter base. Fits 3" diameter hole for IN-2003 universal mast.
<b>Reinforcement Plates</b>		<b>P/N P2006-006</b> Reinforcement plate for adapter IN-2006 304 stainless steel <b>P/N P2105-001</b> Reinforcement plate for adapter IN-2105 304 stainless steel <b>P/N P2005-001</b> Reinforcement plate for adapter IN-2005 304 stainless steel <b>P/N P2087-004</b> Reinforcement plate for adapter IN-2087 304 stainless steel <b>P/N P2013-008</b> Reinforcement plate for adapter IN-2013 304 stainless steel
<b>Threaded Rod Kit 3/4-10 x 12"</b>		<b>P/N IN-2174</b> Kit comes with 4 12" stainless steel threaded rods for sandwich-type installation of adapters.
<b>Threaded Rod Kit 3/4-10 x 16"</b>		<b>P/N IN-2212</b> Kit comes with 4 16" stainless steel threaded rods for sandwich-type installation of adapters.
<b>Workman Rescuer</b>		<b>P/N 10158178</b> <b>Standards: ANSI Z359.14, OSHA</b> Fast, easy and intuitive fall protection with integral bi-directional retrieval capability. Stainless steel cable, 50 ft. (16m).
<b>Workman Winch</b>		<b>P/N 10147301</b> <b>Standards: ANSI Z359.14, OSHA</b> Maximum work load of 400 lbs. for personnel, 620 lbs. for materials. Includes integral RFID technology and self-locking swivel 36C snaphook. Stainless steel cable, 65 ft. (20m).
<b>Mounting Bracket (Workman)</b>		<b>P/N IN-2404</b> Mounting bracket for Workman Rescuer and Workman Winch.
<b>Dynevac II System</b>		<b>P/N 10007782</b> <b>Standards: CSA Z259.2.2, OSHA</b> Fast, easy and intuitive fall protection with integral bi-directional retrieval capability. Stainless steel cable, 50 ft. (16m).
<b>Mounting Bracket (Dynevac II System)</b>		<b>P/N IN-2151</b> Mounting bracket for Dynevac II System.

## Manhole Cover Lifter

### Ordering Information

**Ratchet Manhole Cover Lifter**



**P/N IN-2071**

Ratchet manhole cover lifter offers ergonomically safe way to lift lids with less strain. Lightweight and durable. Measures 53" height. Non-skidding tempered steel pegs, includes medium hook. 3 hook sizes available. Unit weight: 20 lbs.

**Square J Hook**

**P/N P2071-021P**

Square J hook used with ratchet manhole cover lifter IN-2071.

**Medium Square Hook**

**P/N P2071-022P**

Medium square hook used with ratchet manhole cover lifter IN-2071.

**Large J Hook**

**P/N P2071-023P**

Large J hook used with ratchet manhole cover lifter IN-2071.

## MSA XTIRPA Hitch Mount System

Use for confined space vertical entry and fall protection when portable base is needed.

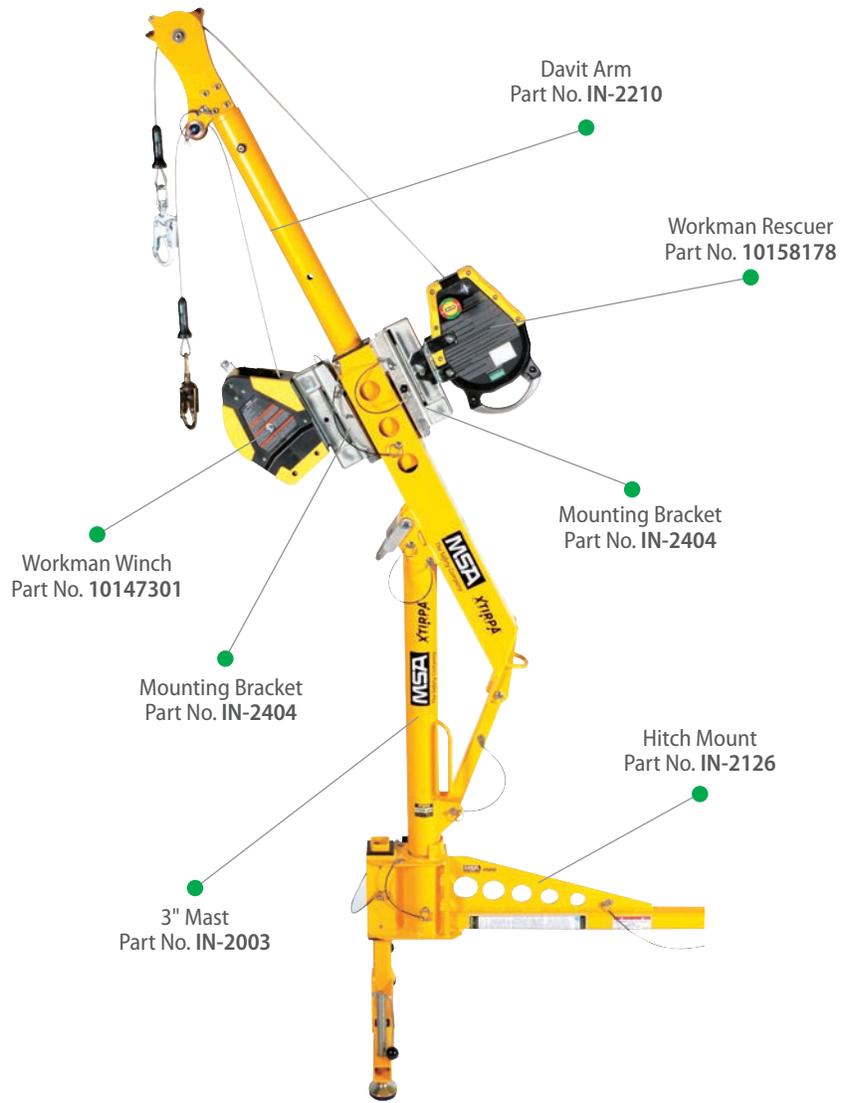
Hitch Mount Systems are portable anchorage connectors used for vertical entry into confined spaces. The hitch mount can be customized to accommodate a variety of confined space applications. The Hitch Mount System is commonly used with rescue vehicles for confined space rescue.

### Weight Capacity

**360 lbs. (163 kg)** as pictured with Workman Rescuer

### Required System Components

- Davit Arm **IN-2210**
- 3" Mast **IN-2003**
- Hitch Mount with 24" Stabilizer **IN-2126** or Hitch Mount with 60" Stabilizer **IN-2204**
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**



### Ordering Information

#### Davit Arm 24" Reach



#### P/N IN-2210

24" davit arm with secondary winch adapter for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with 24" mast IN-2003 and appropriate base/system or manhole guard. IN-2108 or IN-2324. Equipped with 5,000-lb.. anchor point. Unit weight: 33 lbs.

#### 3" Diameter Mast



#### P/N IN-2003

Mast for confined space fall protection and retrieval to be used in conjunction with 24" davit arm IN-2210 and any Xtirpa System mast base or system. 45" height. Unit weight: 22 lbs.

#### Mast Extension (15", 18" or 24")



**P/N IN-2044** 15" Unit weight 20 lbs.

**P/N IN-2109** 18" Unit weight 24 lbs.

**P/N IN-2045** 24" Unit weight 26 lbs.

Mast extension is constructed of painted steel and provides additional height when used with any mast base.



## MSA XTIRPA Adjustable Wall Adapter System

Use for confined space vertical entry and fall protection when portable base is needed.

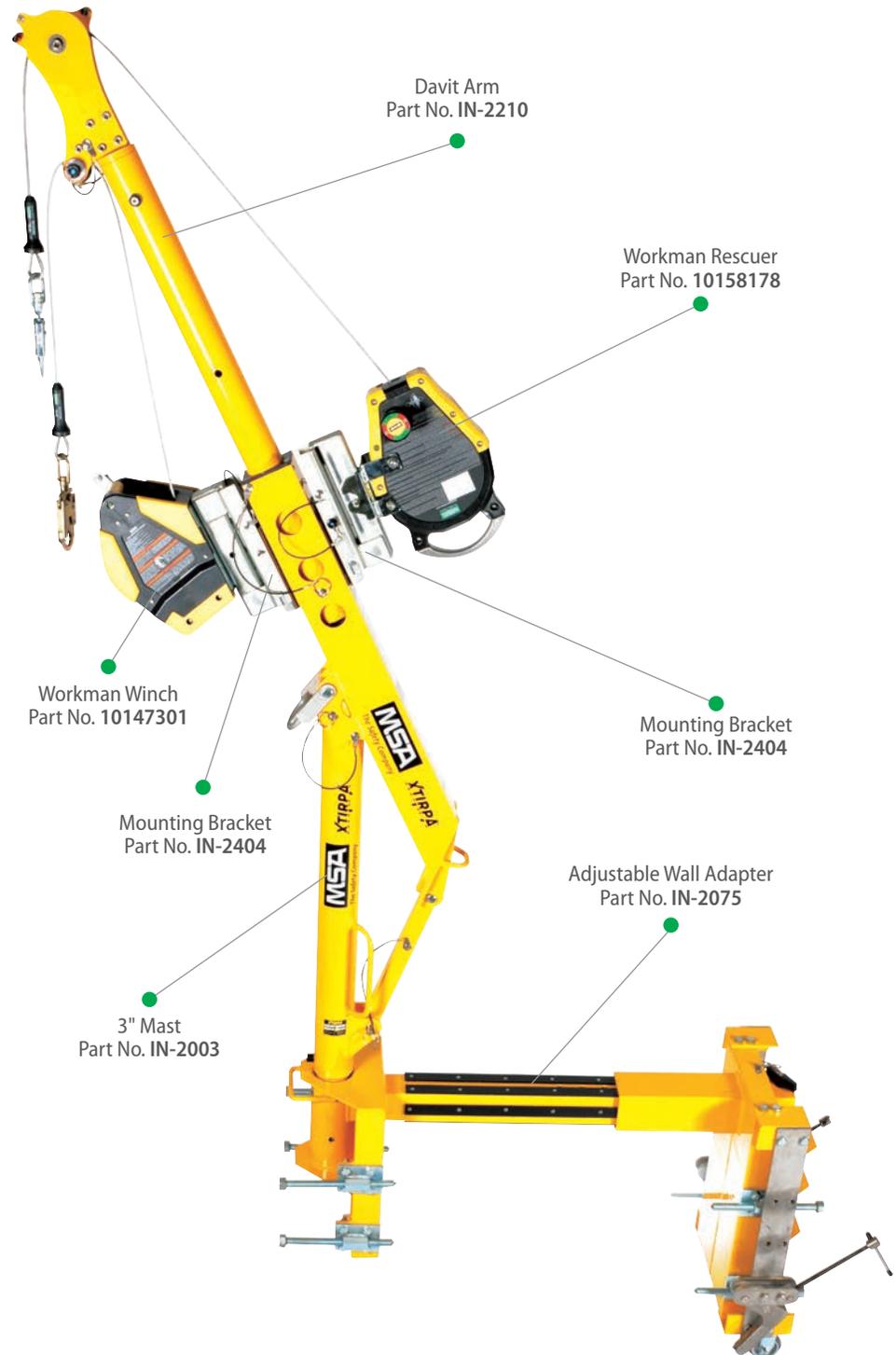
Adjustable Wall Adapter Systems are portable anchorage connectors used for vertical entry into confined spaces. The Adjustable Wall Adapters range from 6" to 45" to accommodate a wide range of confined space applications. This system is designed for frequent setup of confined space equipment.

### Weight Capacity

**360 lbs. (163 kg)** as pictured with Workman Rescuer

### Required System Components

- Davit Arm IN-2210
- 3" Mast IN-2003
- Adjustable Wall Adapter
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**





## MSA XTIRPA Manhole Collar System

Use for confined space vertical entry and fall protection when portable base is needed.

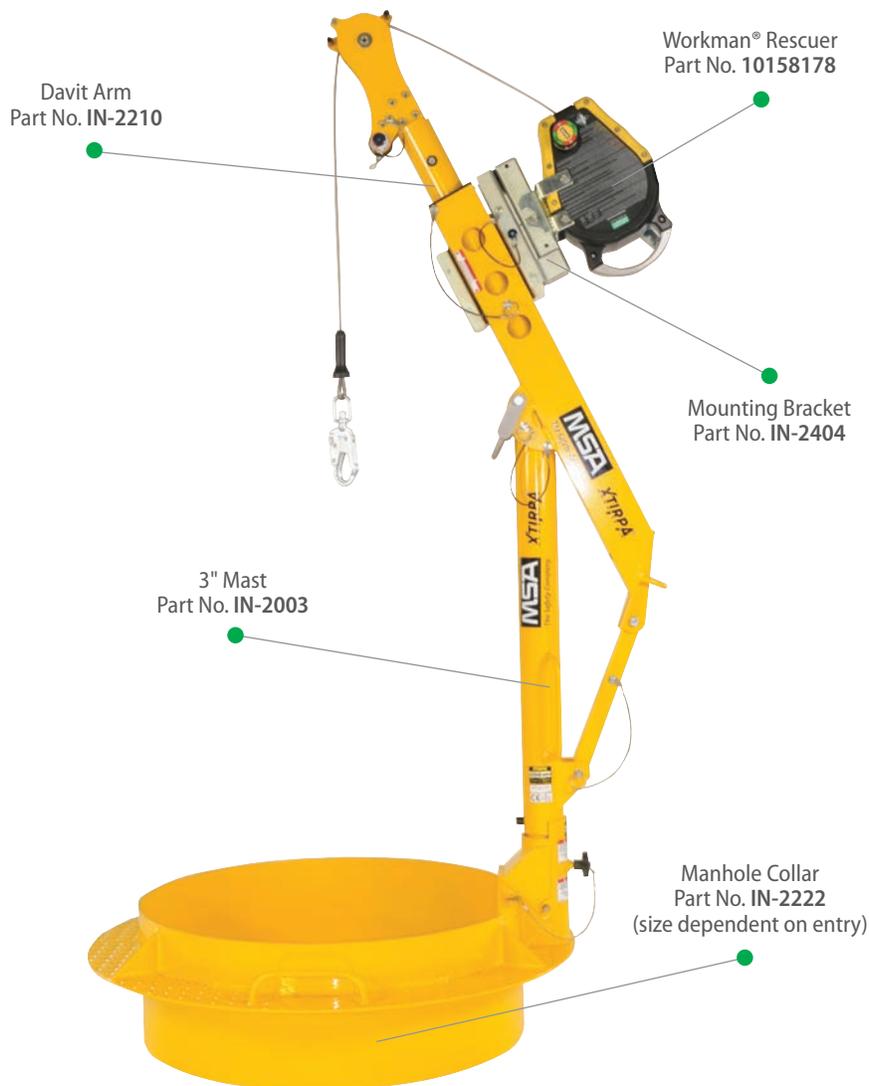
Manhole Collar Systems are portable anchorage connectors used for vertical entry into confined spaces. The Manhole Collar provides an adapter base by fitting within a manhole opening. This system is designed for frequent setup of confined space equipment over similarly-sized openings.

### Weight Capacity

**360 lbs. (163 kg)**  
as pictured with Workman Rescuer

### Required System Components

- Davit Arm **IN-2210**
- 3" Mast **IN-2003**
- Manhole Collar (size dependent upon entry)
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**



### Ordering Information

#### Davit Arm 24" Reach



#### P/N IN-2210

24" davit arm with secondary winch adapter for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with 24" mast IN-2003 and appropriate base/system or manhole guard. IN-2108 or IN-2324. Equipped with 5,000-lb. anchor point. Unit weight: 33 lbs. 67"L x 9"W x 8"H.

#### 3" Diameter Mast



#### P/N IN-2003

Mast for confined space fall protection and retrieval to be used in conjunction with 24" davit arm IN-2210 and any Xtirpa System mast base or system. 45" height. Unit weight 22 lbs.

#### Mast Extension (15', 18" or 24")



**P/N IN-2044** 15" Unit weight 20 lbs.

**P/N IN-2109** 18" Unit weight 24 lbs.

**P/N IN-2045** 24" Unit weight 26 lbs.

Mast extension is constructed of painted steel and provides additional height when used with any mast base.

**Ordering Information**

**Mast/Davit Arm**  
(18" or 9" reach)



**P/N IN-2295** 18" reach  
**P/N IN-2363** 9" reach

Low clearance integrated mast and davit arm for use in any 24" davit arm adapter bases when shorter clearance is needed. Low clearance mast and davit arm is 36" tall.

**Manhole Collar**  
(sizes are for diameter)



**P/N IN-2287** Fits 16–18"  
**P/N IN-2219** Fits 18–20"  
**P/N IN-2220** Fits 20–22"  
**P/N IN-2221** Fits 22–24"  
**P/N IN-2217** Fits 24–26"  
**P/N IN-2222** Fits 26–28"  
**P/N IN-2218** Fits 28–30"  
**P/N IN-2167** Fits 30–32"  
**P/N IN-2223** Fits 32–34"  
**P/N IN-2224** Fits 34–36"

Provides portable adapter base for confined space system by fitting within manhole opening.

**Manhole Retaining Ring**



**P/N IN-2010**

Retaining ring used to secure cone shaped safety ring IN-2009 to manhole.

**Cone Shaped Safety Ring**



**P/N IN-2009**

Cone shaped sealing safety ring used in conjunction with retaining ring IN-2010 to prevent liquids from entering confined space.

**Manhole Collar Seat**



**P/N A2217-10**

Seat can be attached to any manhole collar for added comfort when entering or working on a confined space entry point.

**Hand Rail Attachment for Mast**



**P/N IN-2282**

Adaptable hand rail for use with mast IN-2003 to provide easier entrance/exit from confined space. Unit weight 5.5 lbs.

**Ladder Adapter for Manhole Collar**



**P/N A2217-05**

Ladder adapter that attaches to any manhole collar and provides mechanism to secure ladder. Cannot be used with cone shaped safety ring IN-2009. Product comes with necessary hardware.

**Positioning Seat**



**P/N IN-2244**

Positioning seat allows for comfortable entrance/exit of confined spaces. Seat attaches to winch cable.

**Workman Rescuer**



**P/N 10158178**

**Standards: ANSI Z359.14, OSHA**

Fast, easy and intuitive fall protection with integral bi-directional retrieval capability. Stainless steel cable, 50 ft. (16m).

**Workman Winch**



**P/N 10147301**

**Standards: ANSI Z359.14, OSHA**

Maximum work load of 400 lbs. for personnel, 620 lbs. for materials. Includes integral RFID technology and self-locking swivel 36C snaphook. Stainless steel cable, 65 ft. (20m).

**Mounting Bracket (Workman)**



**P/N IN-2404**

Mounting bracket for Workman Rescuer and Workman Winch.

**Dynevac II System**



**P/N 10007782**

**Standards: CSA Z259.2.2, OSHA**

Fast, easy and intuitive fall protection with integral bi-directional retrieval capability. Stainless steel cable, 50 ft. (16m).

**Mounting Bracket (Dynevac II System)**



**P/N IN-2151**

Mounting bracket for Dynevac II System.

## MSA XTIRPA Adapter Base System—30"– 48" Reach

Use for confined space vertical entry and fall protection when fixed base is needed.

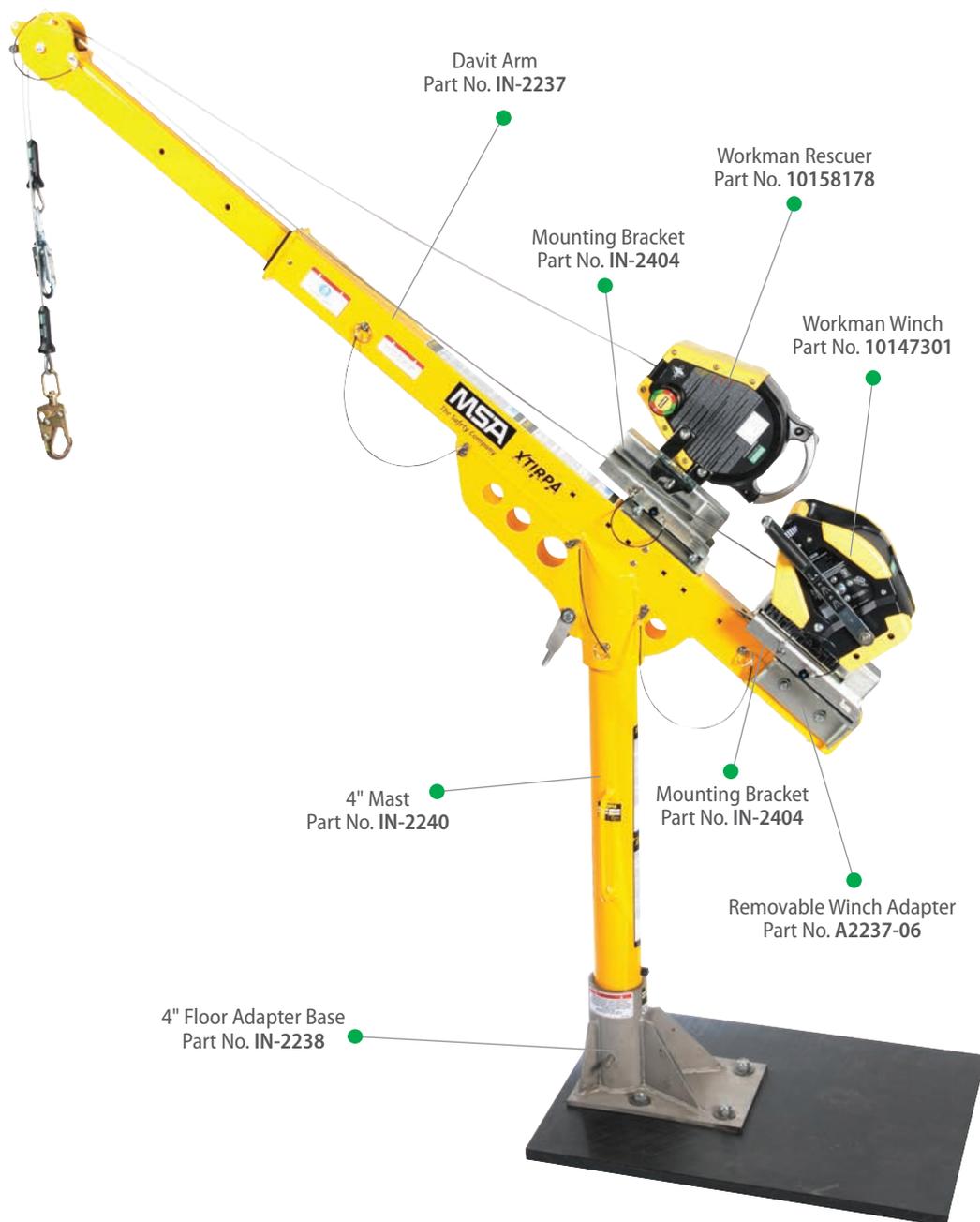
Adapter Base Systems are fixed anchorage connectors used for vertical entry into confined spaces. The adapter base is permanently affixed to an existing structure. The many different adapter base options can accommodate any work environment. This system is designed for work areas that require regular setup and teardown.

### Weight Capacity

**360 lbs. (163 kg)** as pictured with Workman Rescuer

### Required System Components

- Davit Arm **IN-2237**
- 4" Mast with 42" Height **IN-2240** or 4" Mast with 60" Height **IN-2313**
- 4" Adapter Base
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**





## MSA XTIRPA Pole Hoist System

Use for confined space vertical/horizontal entry and fall protection when portable base is needed.

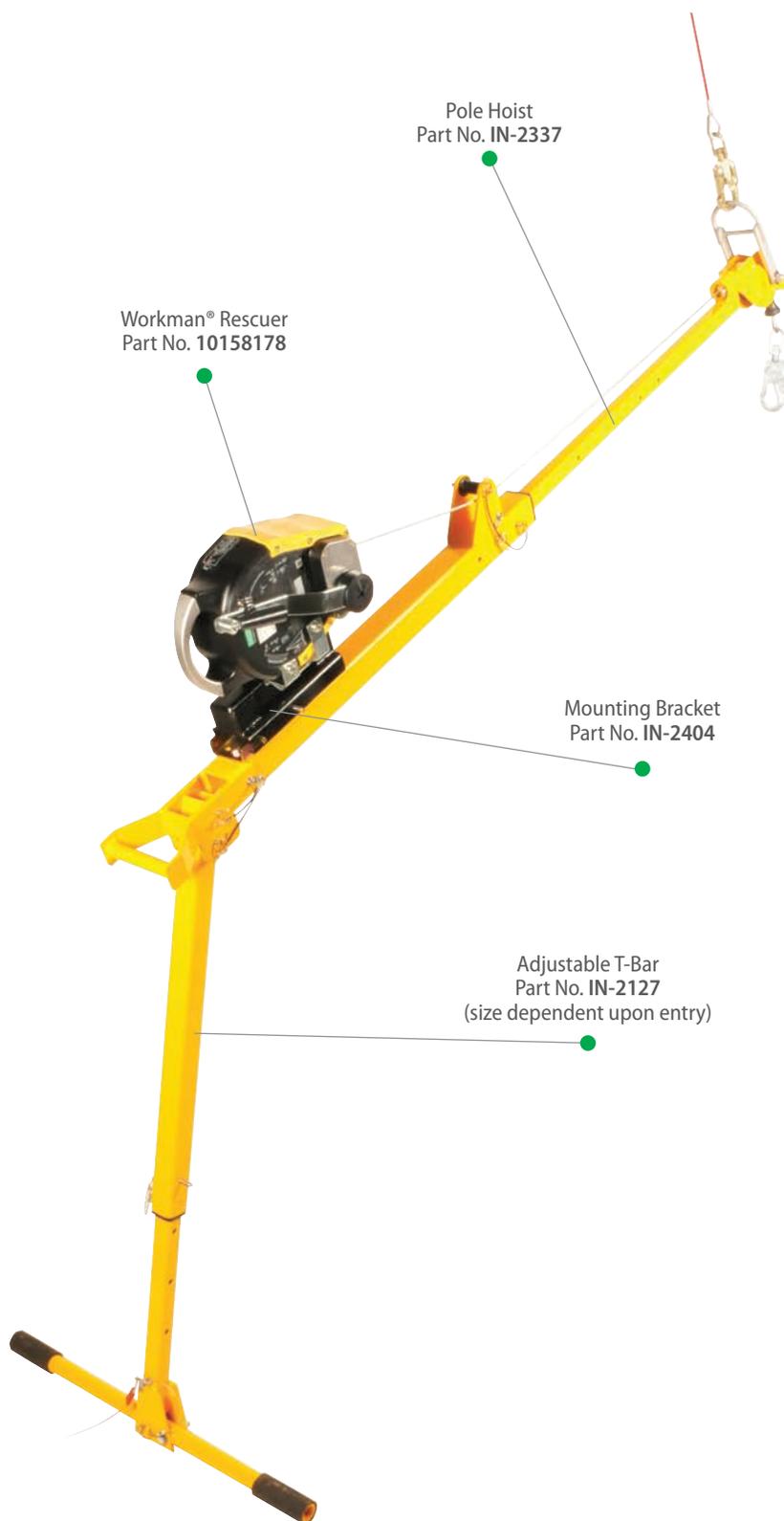
Pole Hoist Systems are portable anchorage connectors used for vertical and horizontal entry into confined spaces. When attached to an anchor point, the Pole Hoist provides retrieval and fall protection when limited overhead clearance is present. The Pole Hoist can also be configured for horizontal entry applications such as lifting, lowering and fall protection.

### Weight Capacity

**360 lbs. (163 kg)**  
as pictured with  
Workman Rescuer

### Required System Components

- 48"-72" Pole Hoist **IN-2337** or 57"-102" Pole Hoist **IN-2338**
- Adjustable T-Bar (size dependent upon entry)
- Anchorage Connector
- Rescuer SRL such as **10158178** and corresponding attachment bracket such as **IN-2404**





## MSA XTIRPA Counter Weight System

Use for confined space vertical entry and fall protection when portable base is needed.

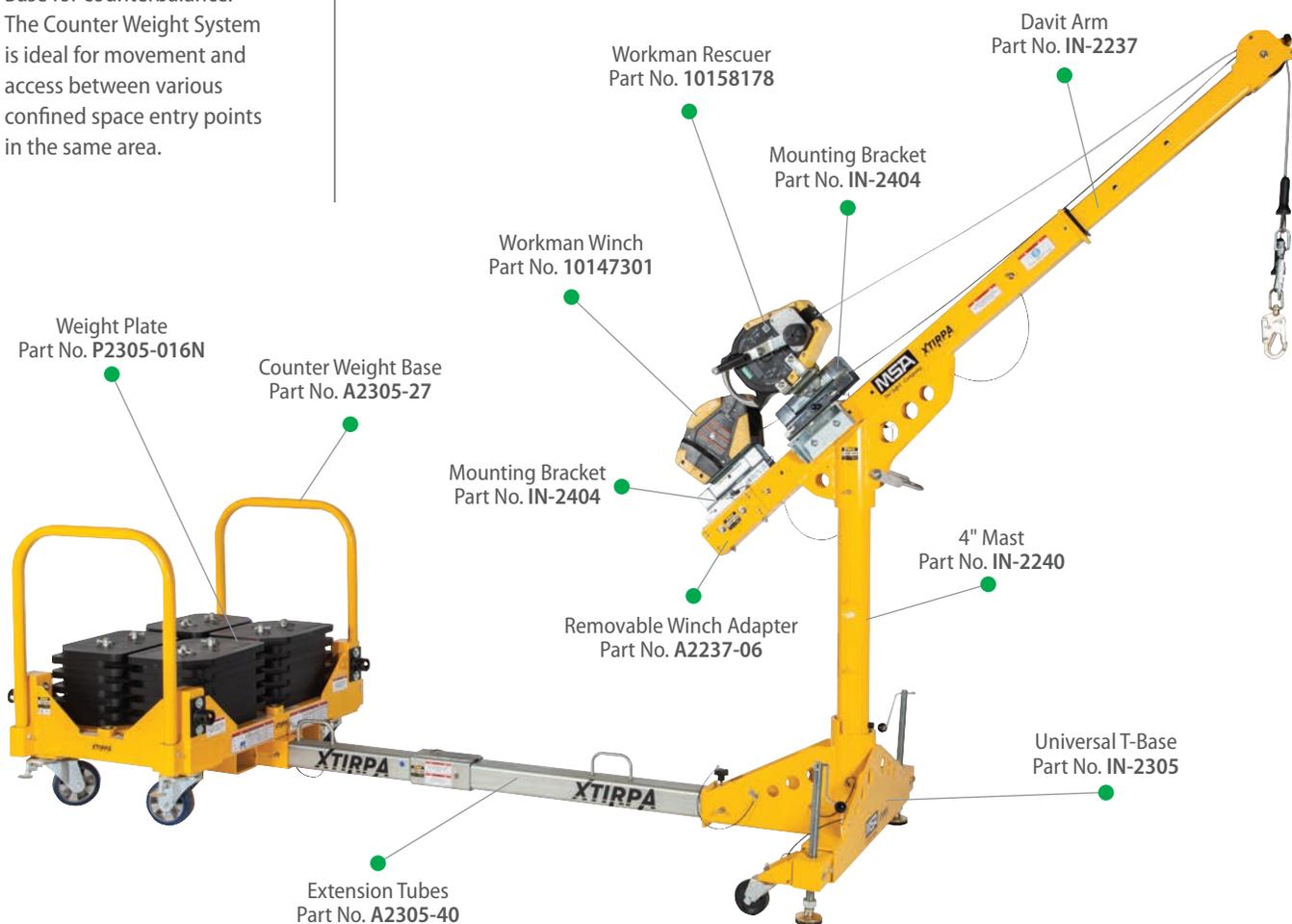
Counter Weight Systems are portable anchorage connectors used for vertical entry into confined spaces. The Counter Weight System is to be used with the Counter Weight Base for counterbalance. The Counter Weight System is ideal for movement and access between various confined space entry points in the same area.

### Weight Capacity

360 lbs. (163 kg) as pictured with Workman® Rescuer

### Required System Components

- Davit Arm IN-2237
- 4" Mast with 42" Height IN-2240, or 4" Mast with 60" Height IN-2313
- T-Base Extension 72" A2305-16
- Universal T-Base for 4" Mast IN-2305
- 50 lb. Weight Plates P2305-016N (Qty: 40)
- Rescuer SRL such as 10158178 and corresponding attachment bracket such as IN-2404





## MSA XTIRPA H-Base Davit System

Use for person-aperture (manhole) and confined space entry and retrieval applications where fixed anchors are not available.

This three-piece base system was designed to be used in conjunction with the davit arm IN-2210 and the mast IN-2003 that are common to the three davit systems. The portable lower base comes with adjustable feet and wheels to fit most standard confined spaces entry points. It offers a solution for the entry, rescue and positioning of personnel. The combination of davit arm and mast allows the operator to pivot the system for easier and safer rescue. Durable and versatile, the system has a capacity of 164kg and has a safety factor of 10:1 and meets or exceeds CSA, ANSI, OSHA, CSST, CE and AS/NZS Standards.

A free-standing system is ideal when you need to move and access various confined spaces entry points in the same area. The portable lower base allows for adjustment to accommodate width and length of most standard confined spaces, offering a solution for the entry, rescue and positioning of personnel. The system pivots for an easier and safer rescue and is rated to 164kg.

### Weight Capacity

**360 lbs. (163 kg)**

### Required System Components

- Davit Arm **IN-2237**
- 3" Mast **IN-2003**
- H-Base, 50",IX, **IN-2118**
- Rescuer SRL such as **10158178** and corresponding attachment
- bracket such as **IN-2404**



Ordering Information

**Davit Arm 24" Reach**



**P/N IN-2210**

24" davit arm with secondary winch adapter for fall protection and retrieval facilitates access to confined spaces. Used in conjunction with 24" mast IN-2003 and appropriate base/system or manhole guard. IN-2108 or IN-2324. Equipped with 5,000-lb. anchor point. Unit weight: 33 lbs. 67"L x 9"W x 8"H.

**3" Diameter Mast**



**P/N IN-2003**

Mast for confined space fall protection and retrieval to be used in conjunction with 24" davit arm IN-2210 and any Xtirpa System mast base or system. 45" height. Unit weight 22 lbs.

**Workman Rescuer**



**P/N 10158178**

**Standards: ANSI Z359.14, OSHA**

Fast, easy and intuitive fall protection with integral bi-directional retrieval capability. Stainless steel cable, 50 ft. (16m). Unit weight: 34 lbs.

**Workman Winch**



**P/N 10147301**

**Standards: ANSI Z359.14, OSHA**

Maximum work load of 400 lbs. for personnel, 620 lbs. for materials. Includes integral RFID technology and self-locking swivel 36C snaphook. Stainless steel cable, 65 ft. (20m). Unit weight: 30 lbs.

**Mounting Bracket (Workman)**



**P/N IN-2404**

Mounting bracket for Workman Rescuer and Workman Winch.

**Dynevac II System**



**P/N 10007782**

**Standards: CSA Z259.2.2, OSHA**

Fast, easy and intuitive fall protection with an integral bi-directional retrieval capability. Stainless steel cable, 50' (16m).

**Mounting Bracket (Dynevac II System)**



**P/N IN-2151**

Mounting bracket for Dynevac II System.

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



**ID 2300-110-MC / August 2016**

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**MSA Singapore**

MSA S.E Asia Pte Ltd  
35 Marsiling Industrial Estate Road 3,  
#04-01, Singapore 739257.  
Phone: +65 6350 4500  
Fax: +65 6350 4505  
Email: [msa.singapore@MSAsafety.com](mailto:msa.singapore@MSAsafety.com)

**MSA Malaysia**

No.5, Jalan P4/8A, Crest Hill Industrial Park  
Bandar Teknologi Kajang, Semenyih  
43500 Selangor  
Malaysia  
Phone: +603 8724 8208/9208  
Fax: +603 8724 2208

**MSA Philippines**

Unit 2309 Jollibee Plaza  
Condominium Building  
F, Ortigas Jr. Road, Ortigas Center  
Pasig City  
Philippines  
Phone: +63 9209 742 191

**MSA Indonesia**

Kompleks Multiguna Kemayoran No 1-K  
Jl. Rajawali Selatan Raya Block C5 No. 2  
Jakarta Utara 14410  
Indonesia  
Phone: +62 21 6409 000  
Fax: +62 21 641 2831  
Email: [msa.indonesia@MSAsafety.com](mailto:msa.indonesia@MSAsafety.com)

**MSA (Thailand) Ltd.**

28th Floor Suntower Bldg. B, No. 2801  
123 Vibhavadi-Rangsit Rd., Chompon  
Chatuchak, Bangkok 10900  
Thailand  
Phone: +66 2617 8211  
Fax: +66 2617 8214  
Email: [msa.thailand@MSAsafety.com](mailto:msa.thailand@MSAsafety.com)

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**ID 2300-110-MC / August 2016**

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**MSA Australia**

11 Columbia Way  
Norwest Business Park BAULKHAM  
HILLS NSW 2153 PO Box 7325  
BAULKHAM HILLS NSW 2153

Phone: 61 2 9688 0333  
Customer Service: 1300 728 672  
Fax: 61 2 9896 1835  
E-mail: [aus.customerservice@MSAsafety.com](mailto:aus.customerservice@MSAsafety.com)

**MSA New Zealand**

Customer Service: 0800 441 335  
E-mail: [nz.customerservice@MSAsafety.com](mailto:nz.customerservice@MSAsafety.com)