MILLER®

by Honeywell

Swivel Anchors

User Instruction Manual

Manuel D'utilisation / Manual de Instrucciones para El Usuario

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Thank You

Thank you for your purchase of Miller fall protection equipment manufactured by Honeywell Safety Products. Miller brand products are produced to meet the highest standards of quality at our ISO 9001 certified facility. Miller equipment will provide you with years of use when cared for properly.

⚠WARNING

All persons using this equipment must read, understand and follow all instructions. Failure to do so may result in serious injury or death. Do not use this equipment unless you are properly trained.

Questions?

CALL
1.800.873.5242

It is crucial that the authorized person/user of this equipment read and understand these instructions. In addition, federal law requires employers to ensure that all users are trained in the proper installation, use, inspection, and maintenance of fall protection equipment. Fall protection training should be an integral part of a comprehensive safety program.

Proper use of fall arrest systems can save lives and reduce the potential of serious injuries from a fall. The user must be aware that forces experienced during the arrest of a fall or prolonged suspension may cause bodily injury. Consult a physician if there is any question about the user's ability to use this product. Pregnant women and minor children must not use this product.

1.0 General Requirements, Warnings and Limitations

All warnings and instructions shall be provided to authorized persons/users.

All authorized persons/users must reference the regulations governing occupational safety, as well as applicable ANSI or CSA standards. Please refer to product labeling for information on specific OSHA regulations, and ANSI and CSA standards met by product.

Proper precautions should always be taken to remove any obstructions, debris, material, or other recognized hazards from the work area that could cause injuries or interfere with the operation of the system.

All equipment must be inspected before each use according to the manufacturer's instructions.

All equipment should be inspected by a qualified person on a regular basis.

To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.

Equipment must not be altered in any way. Repairs must be performed only by the manufacturer, or persons or entities authorized in writing by the manufacturer.

Any product exhibiting deformities, unusual wear, or deterioration must be immediately discarded.

Any equipment subject to a fall must be removed from service.

The authorized person/user shall have a rescue plan and the means at hand to implement it when using this equipment.

Never use fall protection equipment for purposes other than those for which it was designed. Fall protection equipment should never be used for towing or hoisting.

Equipment must not be exposed to environmental hazards and chemicals which may produce a harmful effect.

Use in a corrosive or caustic environment dictates a more frequent inspection and servicing program to ensure the integrity of the product is maintained.

Do not allow equipment to come in contact with anything that will damage it including, but not limited to, sharp, abrasive, rough or high-temperature surfaces, welding, heat sources, electrical hazards, or moving machinery.

Do not expose the equipment to any hazard which it is not designed to withstand. Consult the manufacturer in cases of doubt.

Always check for obstructions below the work area to make sure potential fall path is clear.

Allow adequate fall clearance below the work surface.

Never remove product labels, which include important warnings and information for the authorized person/user.

Fall arrest systems used with the anchorage connector must be rigged in accordance to regulatory requirements.

2.0 Purpose

The Miller swivel anchorage connectors ar designed to function as an interface between the anchorage and a fall protection, work positioning, rope access, or rescue system for the purpose of coupling the system to the anchorage. References to "anchorage connector' in this manual include and apply to the swivel anchorage connectors, used with either 5,000 lb. or 10,000 lb anchorage connectors.

3.0 Warnings and Limitations

Compliant fall protection and emergency rescue systems help prevent serious injury during fall arrest. Users and purchasers of this equipment must read and understand the User Instructions provided for correct use and care of this product. All users of this equipment must understand the instructions, operation, limitations and consequences of improper use of this equipment and be properly trained prior to use per OSHA 29 CFR 1910.66 and 1926.503 or applicable local standards. ***Misuse or failure to follow warnings and instructions may result in serious personal injury or death.***

1. The user shall be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall to a maximum of 1800 lbf/8kN.

2. Use of this product must be approved by an Engineer or other qualified person to be compatible with any and all structural & operational characteristics of the selected installation location and system to be connected to this anchorage connector.

3. The anchorage connector must be inspected prior to each use for wear, damage, and other deterioration. If defective components are found the anchorage connector must be immediately removed from service in accordance with the requirements of OSHA 29 CFR 1910.66 and 1926.502.

4. The anchorage connector should be positioned in such a way that minimizes the potential for falls and the potential fall distance during use. The complete fall protection system must be planned (including all components, calculating fall clearance, and swing fall) before using.

5. The anchorage connector is designed for single user, with a capacity up to 310 lbs (140 kg) including clothing, tools, etc.

6. The anchorage connector is designed to be used in temperatures ranging from -40ºF to +130ºF (-40°C to +54°C.

7. This anchorage connector should not be used as part of a horizontal lifeline system that has not been designed and or approved to be used with 5,000-lbf anchorage connectors.

Always work directly under the anchor point to avoid a swing-fall injury.

Ensure that the anchorage connector is at a height that will not allow a lower level to be struck should a fall occur. When selecting an anchorage point, always remember that shock absorbers will elongate when subjected to fall arrest forces. Refer to the labels and instructions provided with the connecting device to obtain the maximum elongation distance.

Anchorage requirements based on ANSI are as follows:

- **For fall arrest systems, anchorages must withstand a static load of 5,000 lbs. (22.2kN) for non-certified anchorages or two times the maximum arresting force for certified anchorages.**
- **For positioning systems, anchorages must withstand a static load of 3,000 lbs. (13.3kN) for non-certified anchorages or two times the foreseeable force for certified anchorages.**
- **For travel restraint, anchorages must withstand a static load of 1,000 lbs. (4.5kN) for non-certified anchorages or two times the foreseeable force for certified anchorages.**
- **For rescue systems, anchorages must withstand a static load of 3,000 lbs. (13.3kN) for non-certified anchorages or five-times the applied load for certified anchorages.**
- **When more than one personal fall arrest system is attached to an anchorage, the above anchorage strengths must be multiplied by the number of personal fall arrest systems attached to the anchorage.**

3.1 Compatibility Limitations

COMPATIBILITY LIMITATIONS

All anchorage connectors must only be coupled to compatible connectors. OSHA 29 CFR 1926.502 prohibits snaphooks from being engaged to certain objects unless two requirements are met: it must be a locking type snaphook, and it must be “designed for” making such a connection. “Designed for” means that the manufacturer of the snaphook specifically designed the snaphook to be used to connect to the equipment listed. The following connections must be avoided, because they can result in rollout* when a nonlocking snaphook is used:

- Direct connection of a snaphook to horizontal lifeline.
- Two (or more) snaphooks connected to one D-ring.
- Two snaphooks connected to each other.
- A snaphook connected back on its integral lanyard.
- A snaphook connected to a webbing loop or webbing lanyard.
- Improper dimensions of the D-ring, rebar, or other connection point in relation to the snaphook dimensions that would allow the snaphook keeper to be depressed by a turning motion of the snaphook.

*Rollout: A process by which a snaphook or carabiner unintentionally disengages from another connector or object to which it is coupled. (ANSI Z359.1-2007)

The anchorage connector must be compatible with the snap hook or carabiner of the connecting device and must not be capable of causing a load to be applied to the gate/ keeper.

4.0 Drop Through Anchor 5,000 lbf./22kN

Model Numbers RACDTA-5K/6FT (Drop though anchor with 4 in. (10 cm) round plate and swivel), RACDTA-5K6/6FT (Drop through anchor with 6 in. (15 cm) square plate and swivel), and RACDTA-5K12/6FT (Drop through anchor with 12 in. (30cm) square plate and swivel).

Warnings and Limitations

- Use only with Honeywell-approved personal fall arrest or restraint systems. The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system, of at least 5,000-lbf (22kN) in the absence of certification.

Tensile Strength (UTS): 5,000-lbf (22kN)
Working Load (WLL): 1,000 lbs (454kg)
Maximum Capacity: One worker, 310 lbs (140 kg)
Weight: Varies by cable length
Regulatory Compliance
ANSI Z359.1-2007, ANSI Z359.7-2011, OSHA 1910.66 , 1926.502

Installation:

1. The drop through anchor-5k drop through anchor can only be used on a horizontal surface that is above the users location.
2. Locate or create a through hole in concrete, steel or metal grating capable of withstanding a 5,000-lbf. Static load or meeting OSHA 1926.502 requirements for a safety factor of two. (Reference figure 1-A below for dimentional requirements.)
3. Place cable through the hole from top side. The label on plate should be facing up. Plate must rest flat and flush on the mounting surface.

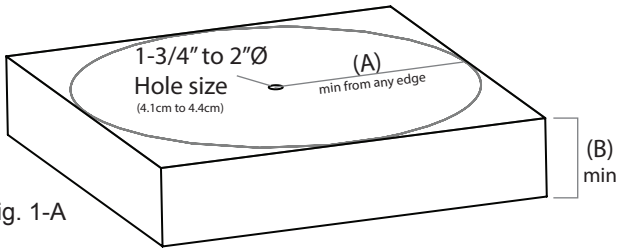


Fig. 1-A

HOLE REQUIRMENT CHART		
Material:	**(A)″ Minimum distance from edge/corner**	**(B)″ thickness**
Concrete	12″ in. (30.5 cm)	4″ in. (10 cm)
Steel	4″ in. (10 cm)	1/4″ in. (.635 cm)

5.0 Zinc-Plated Swivel Anchor 5,000 lbf./22kN

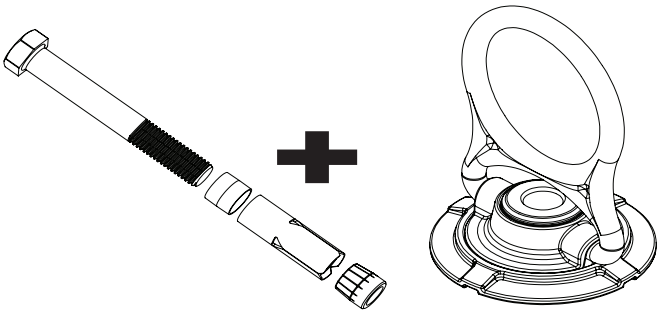
Model Numbers RACSWY050N (swivel only), RACSWY050S (swivel anchor with steel mounting hardware), and RACSWY050C (swivel anchor with concrete mounting hardware), RACSWY2SBA (Steel mounting hardware only) and RACSWY2CSA (Concrete mounting hardware only).

Warnings and Limitations

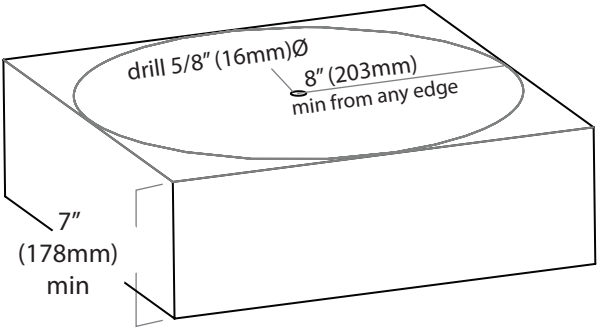
- Use only with Honeywell-approved personal fall arrest or restraint systems. The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system, of at least 5,000-lbf (22kN) in the absence of certification.
- The anchorage connector may be pulled in any direction shown in the LOADING CONDITIONS DIAGRAM (pg. 9).

Tensile Strength (UTS): 5,000-lbf (22kN)
Working Load (WLL): 1,000 lbs (454kg)
Maximum Capacity: One worker, 310 lbs (140 kg)
Weight: 1.2 lbs (544.31g)
Regulatory Compliance
ANSI Z359.1-2007, ANSI Z359.7-2011, OSHA 1910.66 , 1926.502

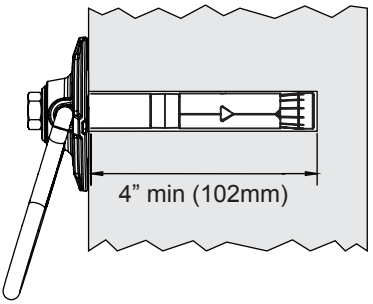
CONCRETE MOUNTING RACSWY050C:

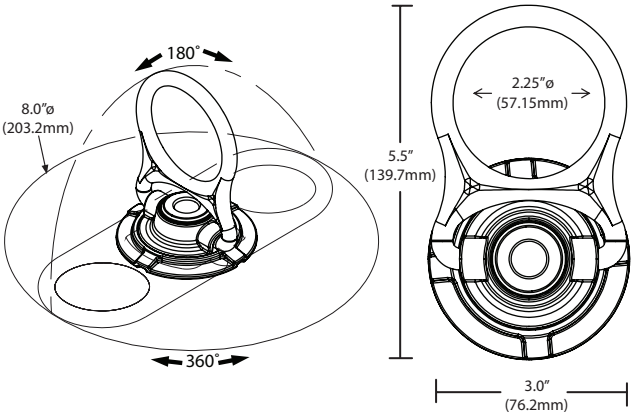


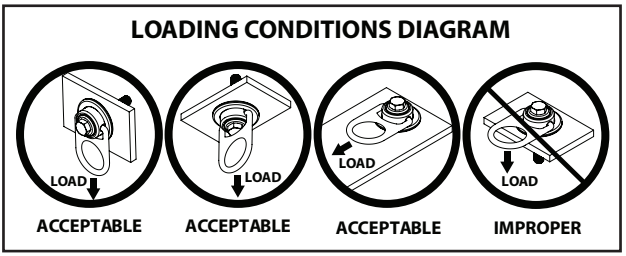
- Use a proper drill & bit for concrete. (SDS drill bit)
- Drill a 5/8” (16mm) hole no less than 4” (102mm) deep an 8” (203mm) away from any edge.
- Hole must be straight & perpendicular to surface.
- Hole must be free of debris
- Concrete strength must be at least 3000psi (20.7MPa) and no less than 7” (178mm) thick.



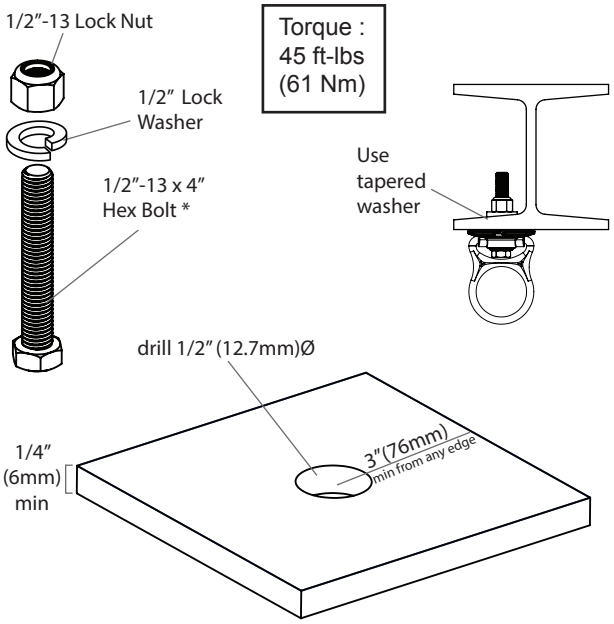
Torque:
60ft-lbs







STEEL MOUNTING

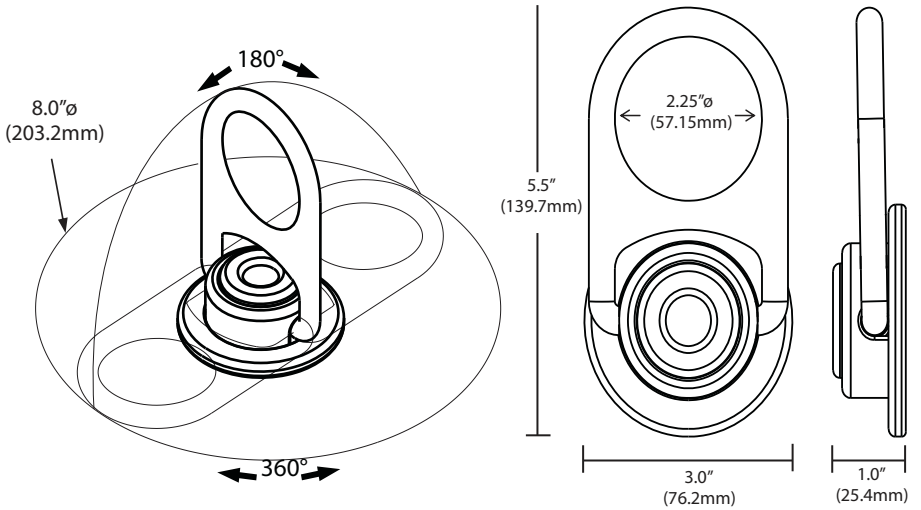


6.0 Stainless Steel Swivel Anchors 5,000 lbf/22kN

Model Numbers RACSWS100N-316 (swivel only), RACSWS100S-316 (Swivel anchor with stainless steel mounting hardware), and RACSWS100C-316 (Swivel anchor with concrete mounting hardware), RACSWS1SBA-316 (Stainless steel mounting hardware only), RACSWS-1DNC-316 (Concrete mounting hardware only), RACDNC-TOOL (Concrete bolt assembly tool) and RACSWP100N-316 (Weld Kit).

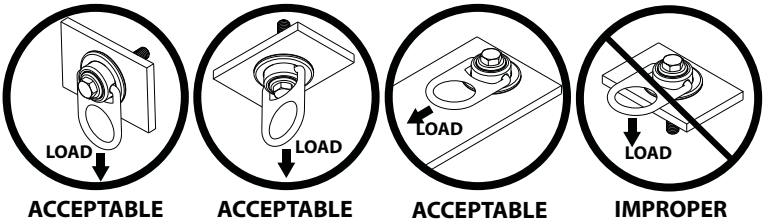
Warnings and Limitations

- Use only with Honeywell-approved personal fall arrest or restraint systems. The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system, of at least 5,000-lbf (22kN) in the absence of certification.
- The anchorage connector may be pulled in any direction shown in the LOADING CONDITIONS DIAGRAM (below)



Tensile Strength (UTS): 10,000-lbf (44kN)
Working Load (WLL): 1,000 lbs (454kg)
Maximum Capacity: One worker, 310 lbs (140 kg)
Weight: 1.2 lbs (544.3g)
Regulatory Compliance
ANSI Z359.1-2007, ANSI Z359.7-2011, OSHA 1910.66 , 1926.502

LOADING CONDITIONS DIAGRAM



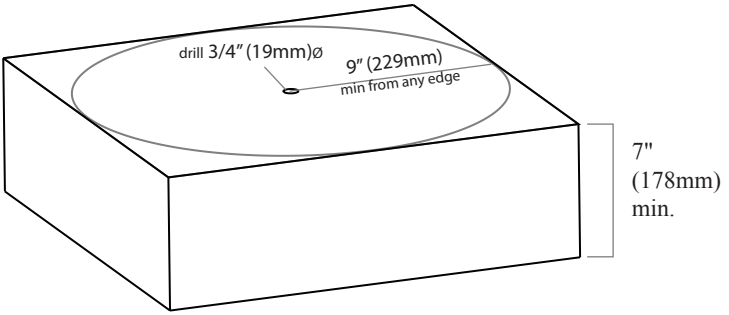
CONCRETE MOUNTING

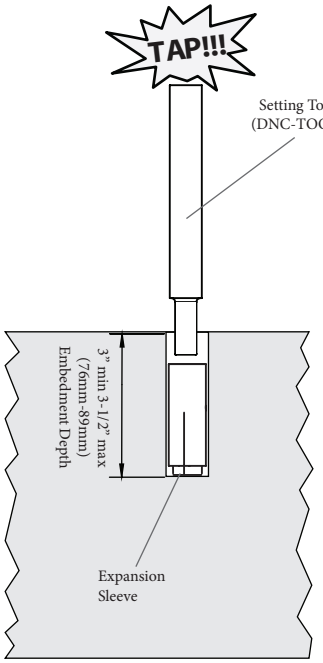
- Use a proper drill & bit for concrete. (SDS drill bit)
- Drill a 7/8" (22mm) hole no less than 3" to 3-1/2" (76mm-89mm) deep 9" (229mm) away from any edge.
- Hole must be straight & perpendicular to surface.
- Hole must be free of debris
- Concrete strength must be at least 3000psi (20.7MPa) and no less than 7" (178mm) thick.

-Drop expansion sleeve into hole.

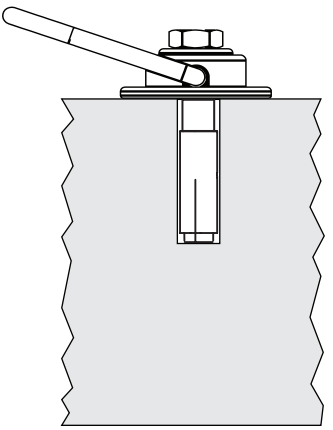
-Use the Setting Tool by placing it in the hole resting on the expansion sleeve. Tap tool until the blue inner sleeve is at the bottom of the expansion sleeve.

-Now place swivel over the hole and install the bolt provided.

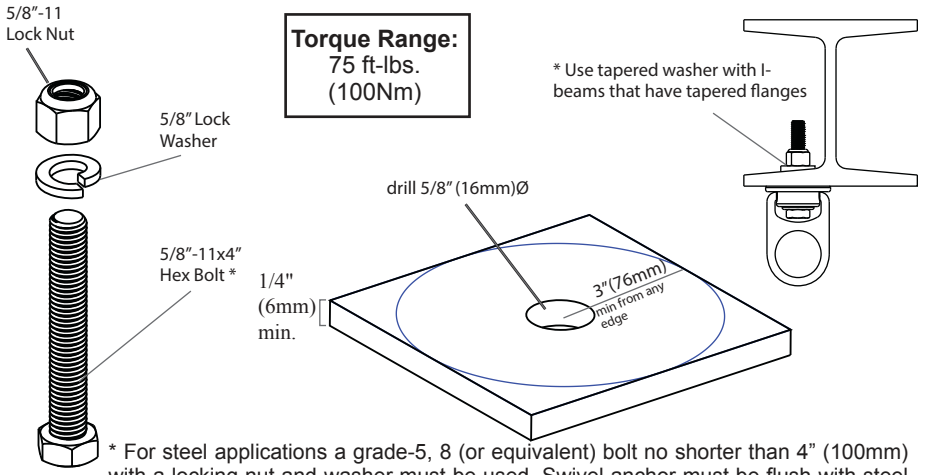




Torque Range:
30-40 ft-lbs
(22-30Nm)

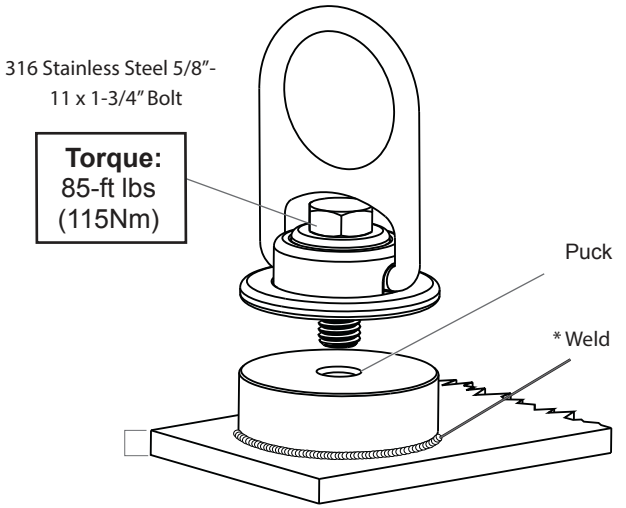


STEEL MOUNTING

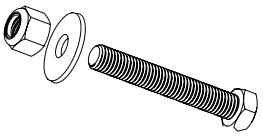
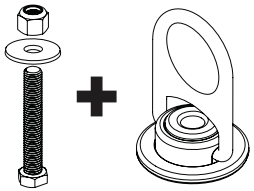
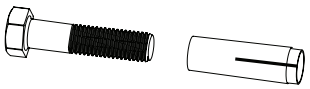
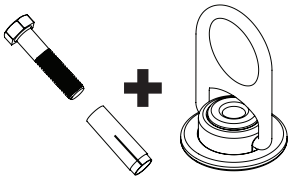
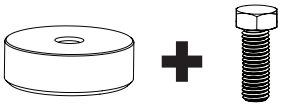
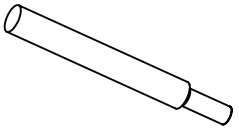


* For steel applications a grade-5, 8 (or equivalent) bolt no shorter than 4" (100mm) with a locking nut and washer must be used. Swivel anchor must be flush with steel surface. A 16mm bolt may be used in place of a 5/8"-11 for metric applications.

WELD-ON MOUNTING



* Welding procedure must be approved by a Engineer or other qualified person to be compatible with any and all structural & operational characteristics of the selected installation location.

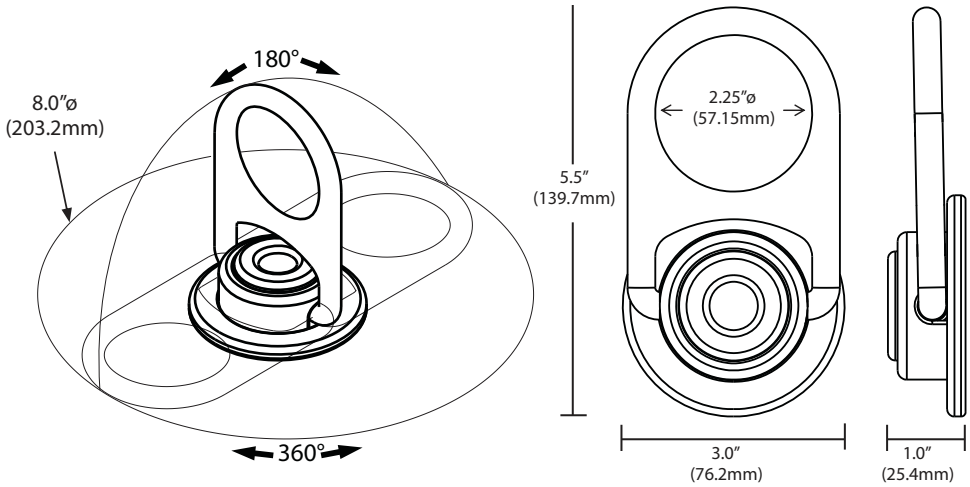
	KIT CONTENTS	PART NUMBER
METAL		**RACSWS1SBA-316** (Steel Mounting Hardware Kit)
		**RACSWS100S-316** (Swivel with Steel Mounting kit)
CONCRETE		**RACSWS1DNC-316** (Concrete Hardware Kit)
		**RACSWS100C-316** (Swivel with Concrete Mounting Kit)
ACCESSORIES		**RACSWP100N-316KIT** (Weld-on Mounting Kit)
		**RACDNC-TOOL** (Concrete Anchor Tool)

7.0 Zinc Plated Swivel Anchors 10,000 lbf/44kN

Model Numbers RACSWY100N (Swivel only), RACSWY100S (Swivel anchor with steel mounting hardware), and RACSWY100C (Swivel anchor with concrete mounting hardware), RACSWY1SBA (Steel mounting hardware only), RACSWY1CSA (Concrete mounting hardware), RACSWP100N-KIT (Weld kit) and RACSWX100N (Steel back plate).

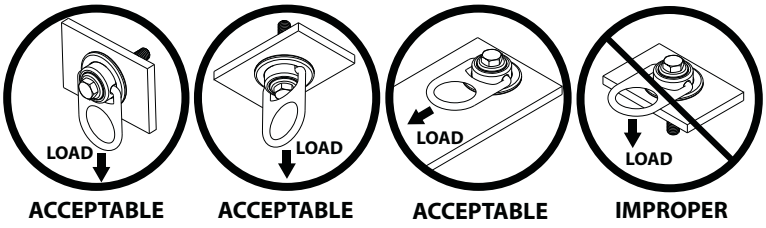
Warnings and Limitations

- Use only with Honeywell-approved personal fall arrest or restraint systems. The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system, of at least 10,000-lbf (22kN) in the absence of certification.
- The anchorage connector may be pulled in any direction shown in the LOADING CONDITIONS DIAGRAM (Pg. 15)

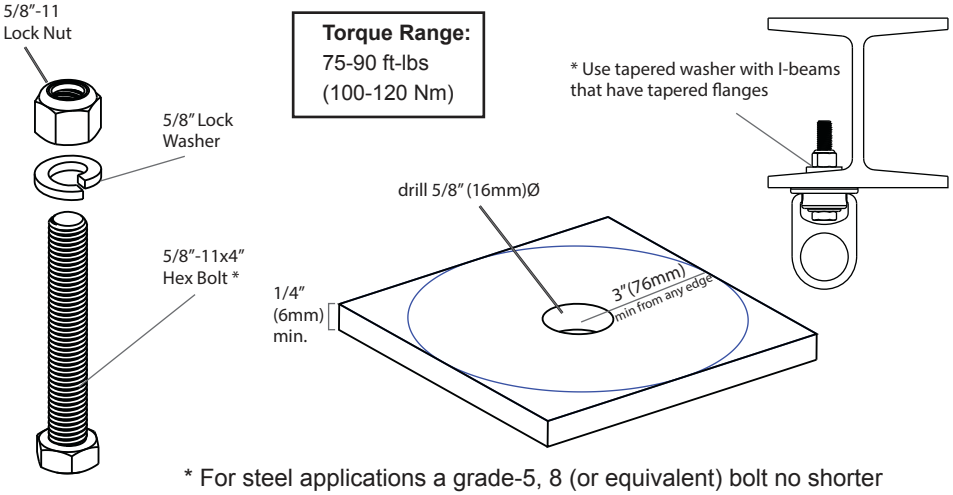


Tensile Strength (UTS): 10,000-lbf (44kN)
Working Load (WLL): 2,000 lbs (907kg)
Maximum Capacity: One worker, 310 lbs (140 kg)
Weight: 1.2 lbs (544.3g)
Regulatory Compliance
ANSI Z359.1-2007, ANSI Z359.7-2011, OSHA 1910.66, 1926.502

LOADING CONDITIONS DIAGRAM



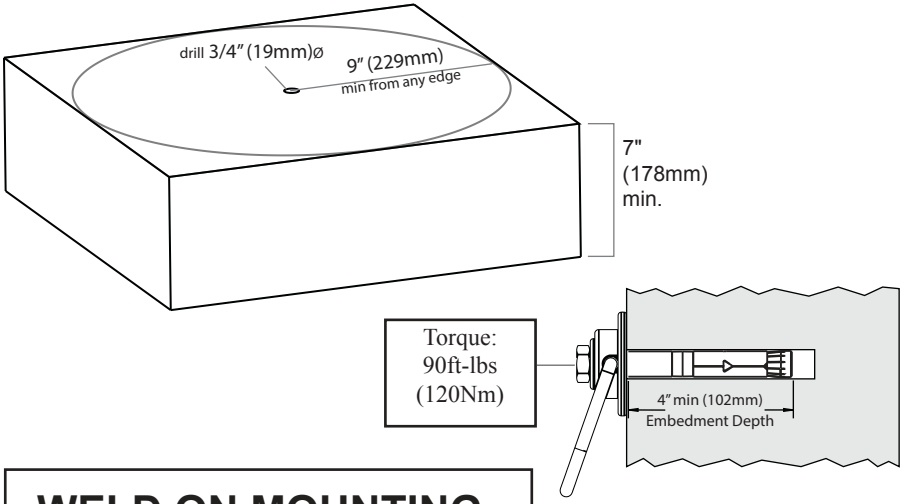
STEEL MOUNTING



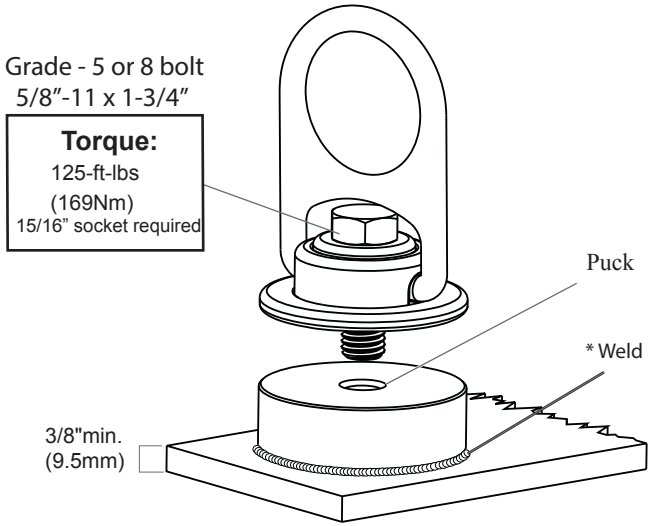
* For steel applications a grade-5, 8 (or equivalent) bolt no shorter than 4" (100mm) with a locking nut and washer must be used. Swivel anchor must be flush with steel surface. A 16mm bolt may be used in place of a 5/8"-11 for metric applications.

CONCRETE MOUNTING

- Use a proper drill & bit for concrete. (SDS drill bit)
- Drill a 3/4" (19mm) hole no less than 5" (127mm) deep 9" (229mm) away from any edge.
- Hole must be straight & perpendicular to surface.
- Hole must be free of debris
- Concrete strength must be at least 3000psi (20.7MPa) and no less than 7" (178mm) thick.

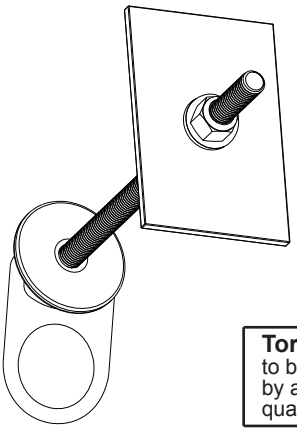


WELD ON MOUNTING



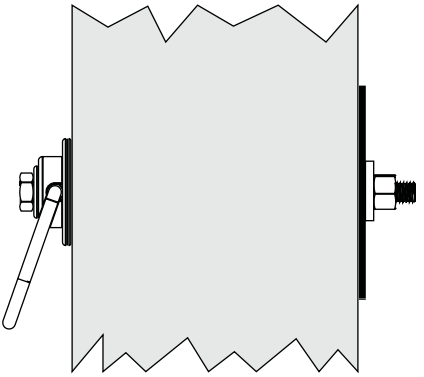
* Welding procedure must be approved by an Engineer or other qualified person to be compatible with any and all structural & operational characteristics of the selected installation location.

BACK PLATE MOUNTING

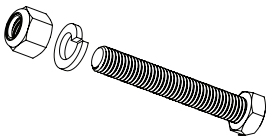
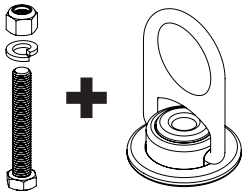
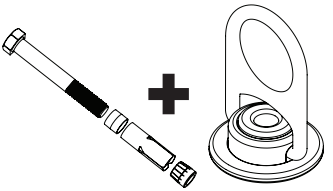
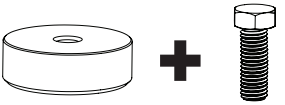
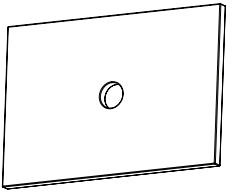


Back Plate to be used with 5/8” (16mm) bolts or all thread. Drill hole perpendicular into surface so bolt can pass freely through the substrate. Nut must be fully threaded on the bolt to insure maximum strength ratings and integrity of anchor.

Torque Range:
to be determined by an Engineer or qualified person.



* Bolt or All-thread and nut not included with Back Plate.

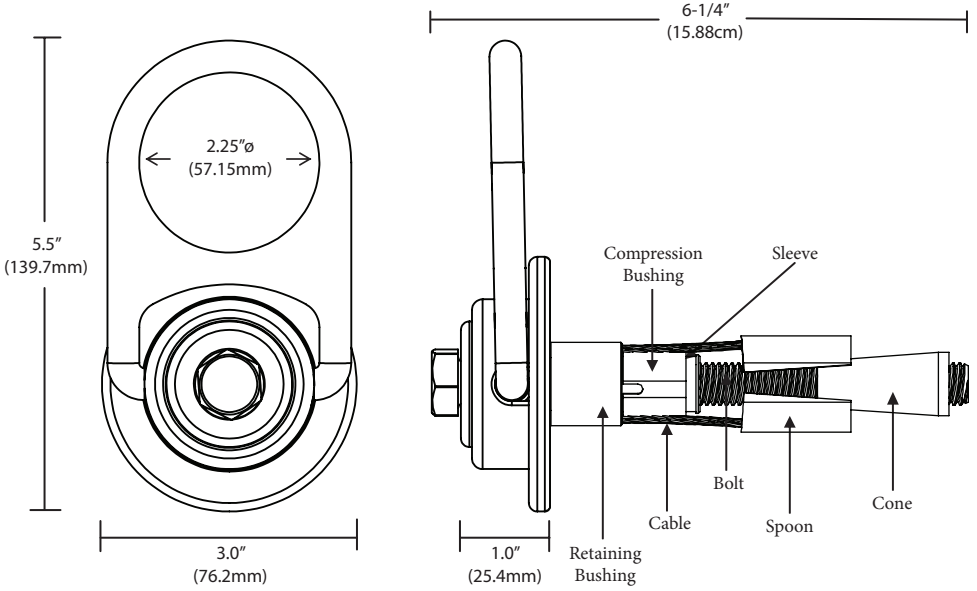
	KIT CONTENTS	PART NUMBER
METAL		**RACSWY1SBA** (Steel Mounting Hardware Kit)
		**RACSWY100S** (Swivel with Steel Mounting kit)
CONCRETE		**RACSWY1CSA** (Concrete Hardware Kit)
		**RACSWY100C** (Swivel with Concrete Mounting Kit)
ACCESSORIES		**RACSWP100N-KIT** (Weld-on Mounting Kit)
		**RACSWX100N** (Backing Plate Only)

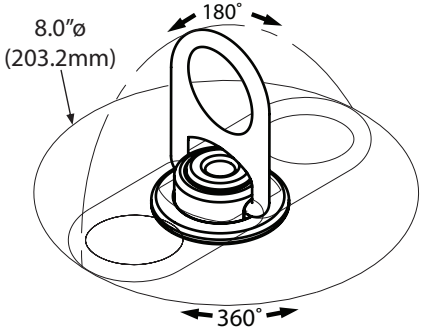
8.0 Hybrid Concrete Anchor

Model Number RACSWH100Y

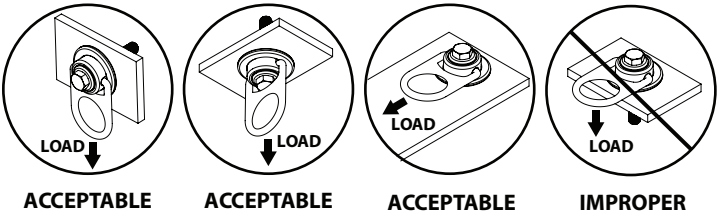
Warnings and Limitations

- Use only with Honeywell-approved personal fall arrest or restraint systems. The anchorage must have the strength capable of supporting a static load, applied in the directions permitted by the system, of at least 10,000-lbf (22kN) in the absence of certification.
- The anchorage connector may be pulled in any direction shown in the LOADING CONDITIONS DIAGRAM (Pg. 20)





LOADING CONDITIONS DIAGRAM

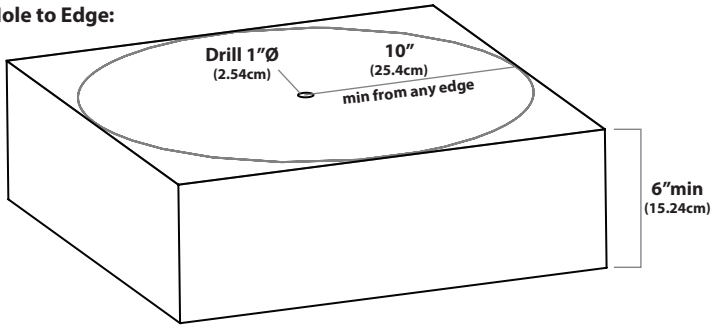


Tensile Strength (UTS): 10,000-lbf (44kN)
Working Load (WLL): 1.000 lbs (454kg)
Maximum Capacity: One worker, 310 lbs (140kg)
Weight: 2.0-lbs (949g)
Regulatory Compliance: ANSI Z359.1-2007, ANSI Z359.7-2011, OSHA 1910.66 , 1926.502

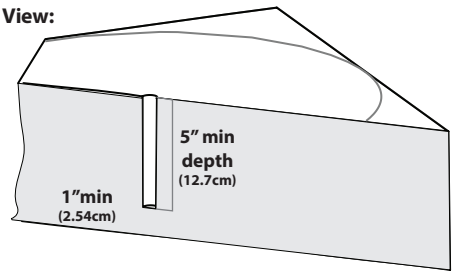
DRILLING :

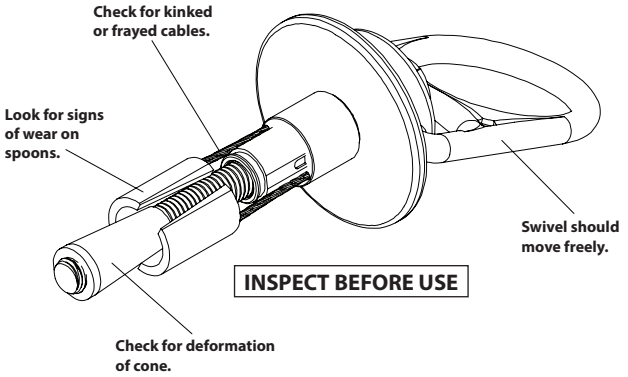
1. Use a hammer drill (SDS), drill a 1" (25mm) diameter hole at least 5" (127mm) deep. The drilled hole must be straight and perpendicular to the surface. Make sure the hole is of uniform diameter and free of peaks and valleys on the inner wall. See diagram below.
2. Blow hole clean with compressed air.
3. Refer to the diagram below for hole location and requirements.
4. Always inspect the hole carefully when reusing a previously drilled hole.

Hole to Edge:



Section View:

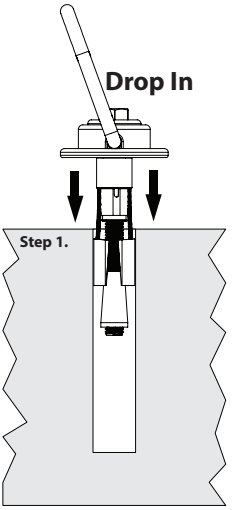


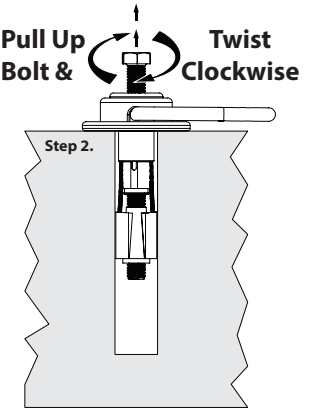


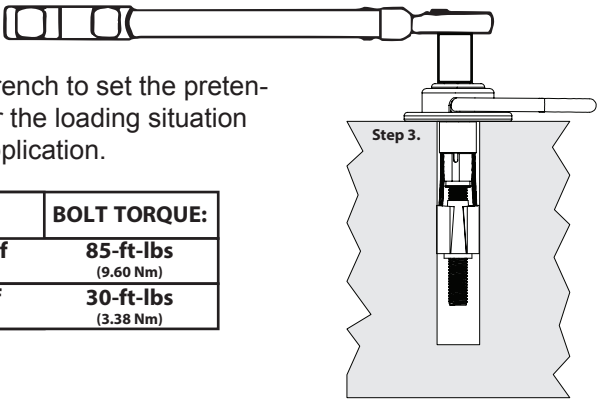
INSTALLATION:

1. Before installing make sure the cone is below the spoons. Insert the anchor into hole so the base plate rest flat on the concrete surface.

2. Pull up on the bolt while holding swivel flush with the concrete. Tighten the bolt by turning it clockwise by hand until bolt is fastened flush to swivel.





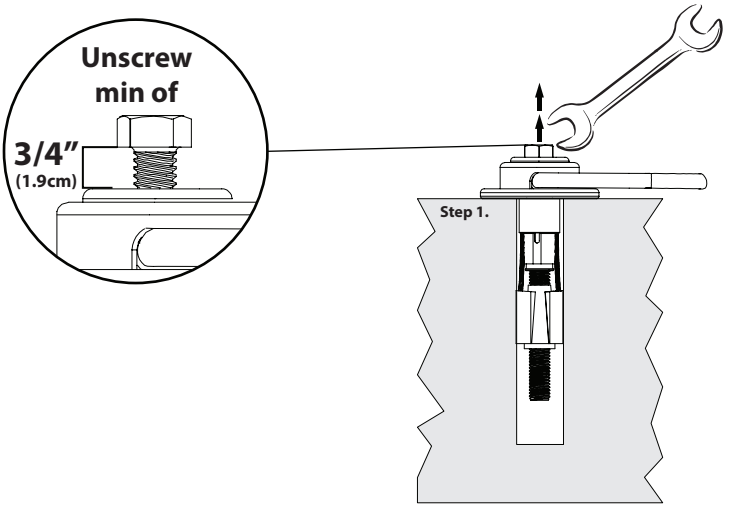


3. Use a torque wrench to set the pretension on the bolt for the loading situation required for the application.

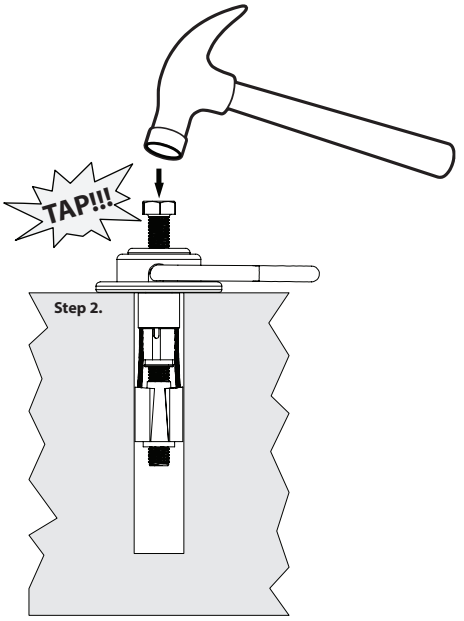
LOAD:	BOLT TORQUE:
10,000-lbf (44 kN)	85-ft-lbs (9.60 Nm)
5,000-lbf (22 kN)	30-ft-lbs (3.38 Nm)

REMOVAL:

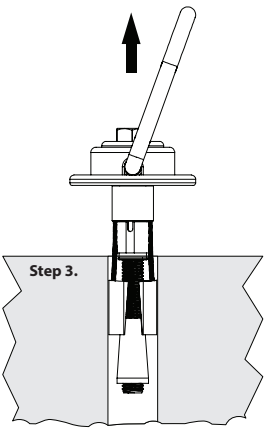
1. Loosen bolt so that at least 3/4" (1.9cm) of threads are exposed.



2. Use a hammer to tap down bolt and disengage cone from the spoons.



3. Pull the anchor from the hole.



4.0 Inspection and Maintenance

Inspection

Miller Anchorage Connectors are designed for today's rugged work environments. To maintain their service life and high performance, all components should be inspected frequently. **Anchorage connectors must be visually inspected by the user before each use and inspected by a Competent Person on a regular basis.**

Inspect product for any of the following: bent, cracked, distorted, worn, malfunctioning or damaged parts; loose fasteners or missing parts/components; deterioration; deformation; corrosion; signs that indicate the product has been subjected to a fall arrest; or any other indications of damage/problems that may affect the integrity and operation of the product. If in doubt, contact the manufacturer.

Devices that do not pass inspection or have been subjected to fall arresting forces must be removed from service.

Cleaning and Storage

Basic care of all Miller Fall Protection equipment will prolong the life of the unit and will contribute toward the performance of its vital safety function. Periodically clean the device to remove any dirt, paint, corrosives, contaminants, or other materials that may have accumulated. When not in use, store in a clean, dry area, free of exposure to furmes or corrosive elements.

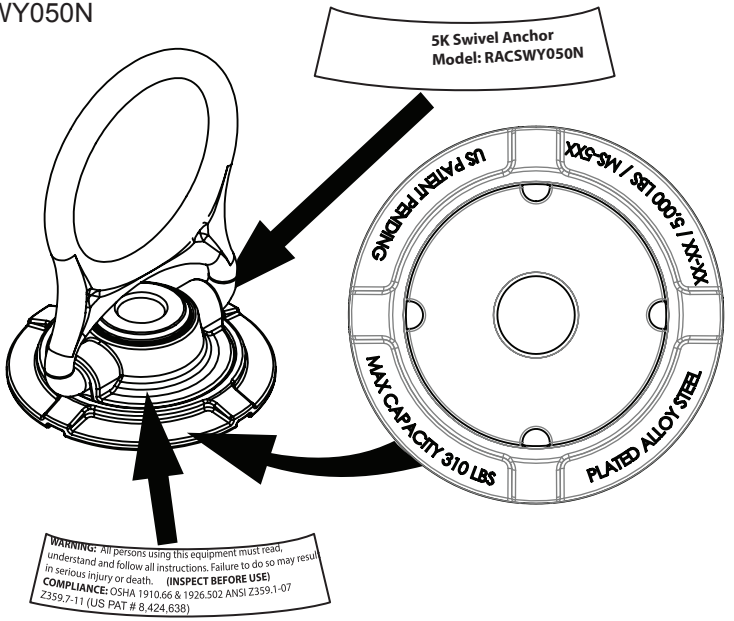
Servicing

Servicing of Miller fall protection equipment must only be carried out by Honeywell Safety Products or persons or entities authorized in writing by Honeywell. A record log of all servicing and inspection dates for this device must be maintained. Only original Honeywell replacement parts are approved for use in this device. Non-repairable devices that do not pass inspection must be disposed of in a manner to prevent inadvertent further use. Contact Honeywell Technical Service at 800.873.5242 if you have any questions.

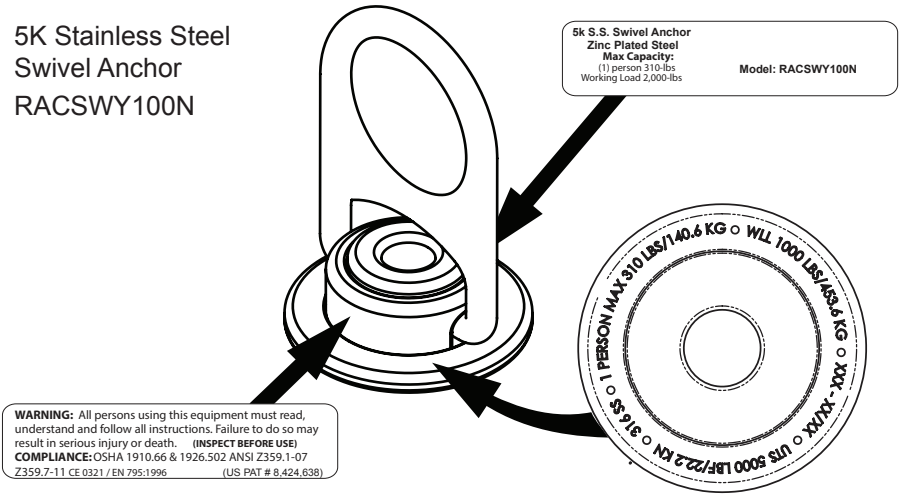
Product Labels
Étiquettes de Produit
Etiquetas del Producto

LABEL LOCATIONS

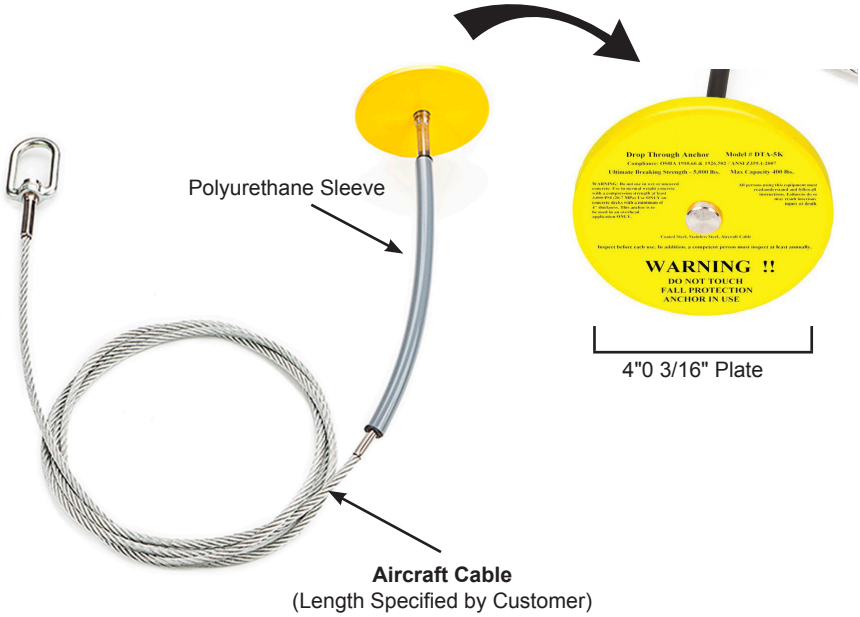
5K Swivel AnchorRAC-SWY050N



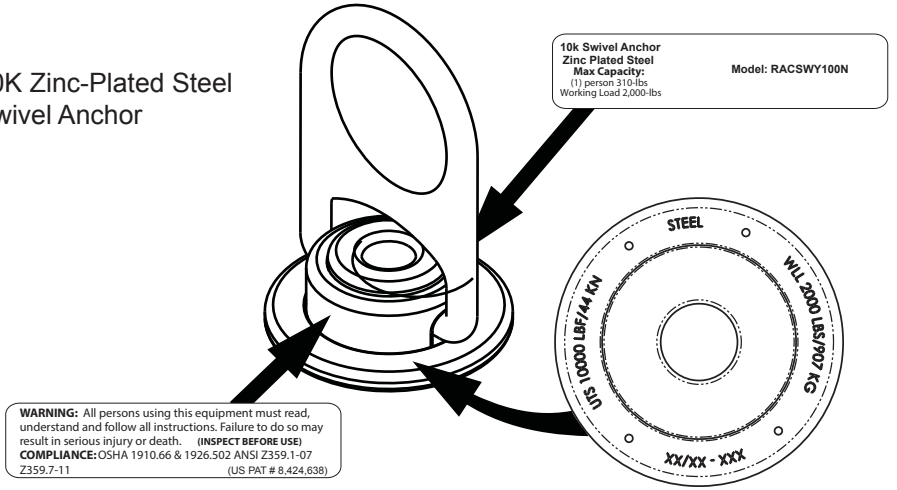
5K Stainless Steel Swivel Anchor
RACSWY100N



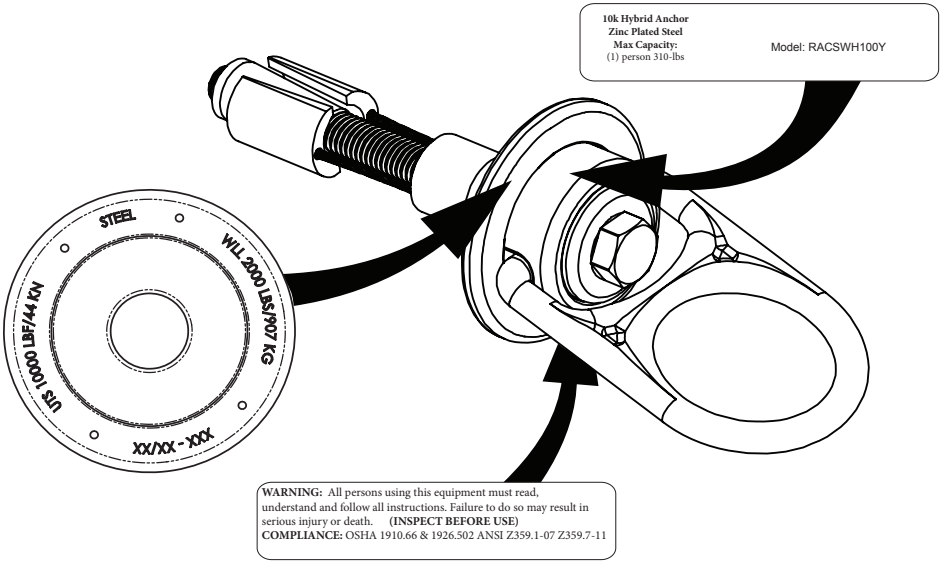
5K Drop-Through Swivel Anchor
RACDTA-5K/



10K Zinc-Plated Steel Swivel Anchor



10K Swivel Hybrid Anchor



Inspection and Maintenance Log
Registre D'inspection et D'entretien
Registro de Inspección y Mantenimiento

DATE OF MANUFACTURE:_____
DATE DE FABRICATION / FECHA DE FABRICACIÓN

MODEL NUMBER:_____
NUMÉRO DE MODÈLE / NÚM. DE MODELO

DATE PURCHASED:_____
DATE D'ACHAT / FECHA DE COMPRA

INSPECTION DATE **DATE D'INSPECTION** **FECHA DE INSPECCIÓN**	**INSPECTION ITEMS NOTED** **POINTS NOTÉS LORS DE L'INSPECTION** **PUNTOS DE INSPECCIÓN RELEVANTES**	**CORRECTIVE ACTION** **ACTION CORRECTIVE** **MEDIDA CORRECTIVA**	**MAINTENANCE PERFORMED** **ENTRETIEN EFFECTUÉ** **MANTENIMIENTO REALIZADO**
Approved by: Approuvé par: Aprobado por:			
Approved by: Approuvé par: Aprobado por:			
Approved by: Approuvé par: Aprobado por:			
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MILLER® FALL PROTECTION PRODUCTS

TOTAL SATISFACTION ASSURANCE

At Honeywell Safety Products and its predecessors, we have been providing quality Miller brand fall protection equipment to millions of workers worldwide since 1945.

LIMITED LIFETIME WARRANTY

BACKED BY OVER 65 YEARS IN THE FALL PROTECTION BUSINESS

We sincerely believe that our fall protection equipment is the best in the world.
Our products endure rigorous tests to ensure that the fall protection equipment you trust is manufactured to the highest standards. Miller fall protection products are tested to withstand normal wear and tear, but are not indestructible and can be damaged by misuse.
Our Limited Lifetime Warranty does not apply to normal wear and tear or abusive treatment of the product.

In the unlikely event that you should discover defects in either workmanship or materials, under our Limited Lifetime Warranty, we will repair or replace the product at our expense.
If a replacement is necessary and your product is no longer available, a comparable product will be substituted.
Should a product issue surface, contact us at 800.873.5242.

Manufacturing specifications are subject to change without notice.

PRODUITS MILLER® FALL PROTECTION

ASSURANCE DE SATISFACTION TOTALE

Honeywell Safety Products et ses prédécesseurs offrent les équipements antichute de marque Miller de qualité à des millions de travailleurs dans le monde entier depuis 1945.

GARANTIE LIMITÉE À VIE

ASSURÉE GRÂCE À PLUS DE 65 ANS PASSÉS DANS LE DOMAINE DE LA PROTECTION CONTRE LES CHUTES

Nous croyons sincèrement que notre équipement de protection contre les chutes est le meilleur au monde. Nos produits sont soumis à des tests rigoureux, afin d'assurer que les équipements de protection contre les chutes dans lesquels vous avez confiance sont fabriqués selon les normes les plus exigeantes.
Les produits de protection contre les chutes Miller sont soumis à des essais pour vérifier qu'ils résistent à une usure normale; ils ne sont cependant pas indestructibles et peuvent s'endommager en cas de mauvaise utilisation. Notre garantie limitée à vie ne s'applique pas à l'usure normale ou à un usage abusif du produit.

Dans le cas peu probable où vous découvririez des défauts, soit de fabrication, soit de matériau, dans le cadre de notre garantie à vie, nous réparerons ou remplacerons le produit à nos frais.
En cas de remplacement, si votre produit n'est plus offert, vous recevrez un produit comparable.
En cas de problème sur un produit, nous contacter au 800-873-5242.

Les caractéristiques de fabrication peuvent être modifiées sans préavis.

PRODUCTOS ANTICAÍDAS MILLER®

GARANTÍA DE SATISFACCIÓN TOTAL

En Honeywell Safety Products y sus predecesores, hemos estado brindando la calidad de la marca Miller en equipos de protección de caída a millones de trabajadores alrededor del mundo desde 1945.

GARANTÍA LIMITADA DE POR VIDA

NOS RESPALDAN MÁS DE 65 AÑOS EN LA FABRICACIÓN DE EQUIPO ANTICAÍDAS

Sinceramente creemos que su equipo de protección contra caídas es el mejor del mundo. Nuestros productos resisten rigurosas pruebas para garantizar que el equipo de protección contra caídas en el que usted confía está fabricado de conformidad con las normas más elevadas. Los productos anticaídas Miller son sometidos a pruebas para que resistan el desgaste normal, pero no son indestructibles y su incorrecta utilización puede dañarlos.
Nuestra Garantía limitada de por vida no se aplica al desgaste normal ni al maltrato del producto.

En el poco probable caso de que usted descubriera defectos de mano de obra o materiales, por nuestra Garantía limitada de por vida, repararemos o sustituiremos el producto por cuenta nuestra. Si un reemplazo es necesario y nuestro producto ya no está disponible, se lo sustituiremos por otro comparable.
En caso de que surja un problema con el producto, contáctenos al 800.873.5242.

Las especificaciones de fabricación están sujetas a modificaciones sin previo aviso.

MILLER®

by Honeywell

Toll Free: 800.873.5242
Fax: 800.892.4078

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