

**Vertigo™ Rod Hangers**

**PRODUCT DESCRIPTION**

Vertigo is an all steel threaded fastening system for suspending steel threaded rod vertically overhead in pipe hanging, fire protection, electrical conduit and cable-tray applications. Vertigo are available in three versions which can be installed in a variety of base materials including steel purlins, bar joists and beams, wood frame columns and beams, as well as concrete ceilings, beams and columns.

Steel threaded rods in 1/4", 3/8" and 1/2" diameters can be vertically suspended with Vertigo. In wood and steel base materials, Vertigo is also offered in a side mount style for lateral installation of 1/4" and 3/8" diameter steel threaded rods onto joists, columns and overhead members. For all steel and wood Vertigo fasteners, a universal Vertigo Socket Driver is recommended to provide proper installation with a screw gun or hammer drill. Concrete Vertigo fasteners should be installed with the appropriate size standard drive sockets and adjustable torque, battery powered screw gun or hammer drill.

**GENERAL APPLICATIONS AND USES**

- Hanging Pipe and Sprinkler Systems
- Lighting Systems and Overhead Utilities
- Suspended Ceilings
- Suspending Conduit and Cable Trays
- HVAC Ductwork and Strut Channels
- Mounting Security Equipment

**FEATURES AND BENEFITS**

- + One system for all rod hanging applications in steel, wood and concrete
- + Ease and speed of overhead installation
- + Lower in-place cost, when compared to beam clamps, lag bolts and dropins
- + Steel and wood Vertigo can be installed with a screw gun or hammer drill
- + Concrete Vertigo can be installed with an adjustable torque, battery powered screw gun or hammer drill
- + Side mount versions available for steel and wood Vertigo
- + The universal socket can be used for the steel and wood Vertigo

**APPROVALS AND LISTINGS**

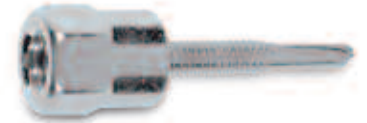
Factory Mutual Research Corporation (FM Approvals) File No. J.I 3015153  
Underwriters Laboratory (UL) File No. EX 1289 (N)

**GUIDE SPECIFICATIONS**

**CSI Divisions:** 03151-Concrete Anchoring, 05090-Metal Fastenings and 06060-Wood Connections and Fasteners. Rod Hangers shall be Vertigo anchors as supplied by Powers Fasteners, Inc., Brewster, NY.

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**Steel Vertigo**



**Wood Vertigo**



**Concrete Vertigo (Wedge-Bolt OT)**

**ANCHOR MATERIALS**

Zinc Plated Carbon Steel

**ROD/ANCHOR SIZE RANGE (TYP.)**

- 1/4" to 1/2" for Steel
- 1/4" to 1/2" for Wood
- 1/4" to 1/2" for Concrete

**SUITABLE BASE MATERIALS**

- Steel Purlins and Beams
- Wood and Timber
- Normal-weight Concrete
- Structural Lightweight Concrete
- Hollow Core Concrete Plank

**INSTALLATION SPECIFICATIONS**

**Steel Vertigo**

Point Style	#3	#5
Self Drilling Range	0.036" (20 gage) – 0.188" (3/16")	0.188" (3/16") – 0.500" (1/2")
Screw Size (UNC)	1/4-20 thread	1/4-20 thread
Root Diameter (in.)	13/64	13/64
Thread Length (in.)	1-3/16" (1-1/2" screw)	31/32" (1-1/2" screw)
Flange Thickness (in.)	1/16	1/16
Drill Speed (RPM)	500-1,500	500-1,500

Install with universal steel and wood socket.

**Wood Vertigo**

Screw Size	1/4" Thread Forming	5/16" Thread Forming
Pre-drill Diameter (in.) (if required)	1/8	1/8
Point Style	Type 17	Type 17
Root Diameter (in.)	3/16	7/32
Thread Length (in.)	Screw length less 5/16	Screw length less 5/16
Flange Thickness (in.)	1/16	1/16

Install with universal steel and wood socket.

**Vertigo Couplings (Steel & Wood)**

Coupling Size and Type	1/4" Vertical	3/8" Vertical	1/2" Vertical	1/4" Side	3/8" Side
Thread Size (UNC)	1/4-20	3/8-16	1/2-13	1/4-20	3/8-16
Thread Depth (in.)	3/8	3/8	3/8	5/8 (through)	5/8 (through)
Width (flat to flat) (in.)	5/8	5/8	5/8	5/8	5/8
Height (in.)	13/16	13/16	13/16	13/16	13/16

**Concrete Vertigo (Wedge-Bolt OT)**

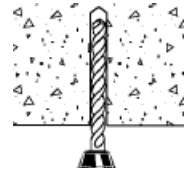
Rod Diameter/Anchor Size	1/4"	3/8"	1/2"
ANSI Drill Bit (in.)	1/4	1/4	3/8
Overall Screw Shank Length	1-1/4	1-1/2	2-3/4
Anchor Thread Length (in.)	1-1/8	1-3/8	2-1/2
Root Diameter (in.)	15/64	15/64	23/64
Coupling / Washer Height (in.)	27/64	9/16	53/64
Integral Washer O.D. (in.)	31/64	39/64	31/32
Coupling Thread Size (UNC)	1/4-20	3/8-16	1/2-13
Coupling Thread Depth (in.)	3/8	1/2	3/4
Socket Driver Size (in.)	3/8	1/2	11/16

Install with appropriate sized concrete socket.

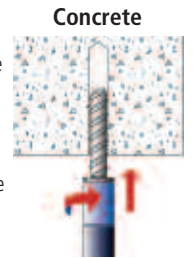
**Installation Guidelines**

When installing Vertigo fasteners, eye protection should be worn as a safety precaution.

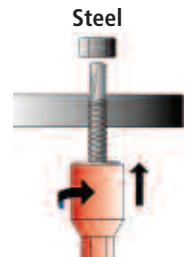
If pre-drilling is required (certain types of wood truss/wood joist and all concrete base materials), select the recommended drill bit type and diameter. For Concrete Vertigo only, drill to the appropriate embedment depth, adding at least one diameter (1/4" to 1/2") to the drilling depth to prevent the tip of the fastener from running into a dead end at the rear of the anchor hole.



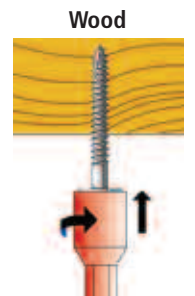
Select the appropriate socket driver for the anchor size and type to be installed and mount into chuck of installation tool. Insert the Vertigo fastener into the socket driver, and install perpendicular to the base material surface. Drive the fastener with a smooth steady motion until the coupling is firmly seated against the surface of the base material.



Thread the appropriate diameter steel threaded rod or threaded bolt into the coupling. The threaded rod or bolt should fully engage the thread length of the coupling on a vertical mount fastener. The threaded rod or threaded portion of the bolt can pass through coupling of a side mount fastener.



For UL and FM listings, Steel Vertigo should be installed with a retaining nut.



**MATERIAL SPECIFICATIONS**

**Steel and Wood Vertigo**

Component	Component Material
Screw Body	AISI 1018-1022 (Case Hardened)
Coupling	AISI 1018-1022 (Case Hardened)
Zinc Plating	ASTM B633, SC1, Type III (Fe/Zn5)

**Concrete Vertigo (Wedge-Bolt OT)**

Component	Component Material
Anchor Body	Case Hardened 10B21 Carbon Steel
Zinc Plating	ASTM B633, SC1, Type III (Fe/Zn 5)

**PERFORMANCE DATA**
**Steel Vertigo – Ultimate Tension Load Capacities when Installed in Minimum ASTM A 36 Steel (Beams) and ASTM A 572 Steel (Purlins)<sup>1,2</sup>**

Anchor Size/ Rod Diameter in. (mm)	Mount Direction	Screw Shank Size and Length	Minimum Steel Gage (Thickness)						
			20 0.036"	18 0.048"	16 0.060"	14 0.075"	12 0.105"	3/16" 0.187"	1/4" 0.250"
			lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)	lbs. (kN)
1/4 (6.4)	Vertical	1/4-20 x 1" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
	Vertical	1/4-20 x 1"	405 (1.8)	620 (2.8)	985 (4.4)	1,160 (5.2)	1,560 (7.0)	3,205 (14.4)	5,040 (22.7)
	Side	1/4-20 x 1" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
3/8 (9.5)	Vertical	1/4-20 x 1" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
	Side	1/4-20 x 1-1/2" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
	Vertical	1/4-20 x 1-1/2"	405 (1.8)	620 (2.8)	985 (4.4)	1,160 (5.2)	1,560 (7.0)	3,205 (14.4)	-
	Side	1/4-20 x 1-1/2"	405 (1.8)	620 (2.8)	985 (4.4)	1,160 (5.2)	1,560 (7.0)	1,965 (8.8)	-
	Vertical	1/4-20 x 2" (w/nut)	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-
1/2 (12.7)	Vertical	12-20 x 1-1/2"	495 (2.2)	710 (3.2)	920 (4.1)	1,560 (7.0)	2,050 (9.2)	3,280 (14.8)	5,040 (22.7)
	Vertical	12-2	1,550 (7.0)	1,550 (7.0)	1,775 (8.0)	1,775 (8.0)	2,050 (9.2)	3,850 (17.3)	-

1. For Steel Vertigo loaded perpendicular to threaded rod (shear) the ultimate load capacity for the anchor is 1,965 lbs in nominal 20 gage steel (0.036").
2. Steel Vertigo are recommended to be installed with the Universal Steel & Wood Nut Driver.

**Wood Vertigo – Ultimate Tension Load Capacities when Installed in Wood Base Materials (Structural Wood and Timber)<sup>1,2</sup>**

Anchor Size/ Rod Diameter in. (mm)	Mount Direction	Screw Shank Size and Length	Embedment Depth in. (mm)	Wood Member (Type)		
				Fir	Pine	Spruce
				lbs. (kN)	lbs. (kN)	lbs. (kN)
1/4 (6.4)	Side	1/4 x 1"	1 (25.4)	685 (3.1)	650 (2.9)	650 (2.9)
	Vertical	1/4 x 2"	2 (50.8)	1,510 (6.8)	1,510 (6.8)	1,510 (6.8)
3/8 (9.5)	Vertical	1/4 x 1"	1 (25.4)	685 (3.1)	650 (2.9)	650 (2.9)
	Side	1/4 x 1"	1 (25.4)	685 (3.1)	650 (2.9)	650 (2.9)
	Vertical	1/4 x 2"	2 (50.8)	1,510 (6.8)	1,510 (6.8)	1,510 (6.8)
	Side	1/4 x 2"	2 (50.8)	1,800 (8.1)	1,800 (8.1)	1,800 (8.1)
	Vertical	1/4 x 3"	3 (76.2)	2,075 (9.3)	1,510 (6.8)	1,510 (6.8)
	Vertical	1/4 x 4"	4 (101.6)	2,075 (9.3)	1,510 (6.8)	1,510 (6.8)
	Vertical	5/16" x 2-1/2"	2 1/2 (63.5)	2,670 (12.0)	3,110 (14.0)	3,110 (14.0)
	Side	3/8" x 2-1/2"	2 1/2 (63.5)	1,450 (6.5)	1,530 (6.9)	1,380 (6.2)
1/2 (12.7)	Vertical	5/16" x 2-1/2"	2 1/2 (63.5)	2,670 (12.0)	3,110 (14.0)	3,110 (14.0)

1. Truss/joist manufacturers may require pre-drilled holes with wood depending on the location of the anchor installation. Consult with the truss/joist manufacturer for details.
2. Wood Vertigo are recommended to be installed with the Universal Steel & Wood Nut Driver.

**PERFORMANCE DATA**

**Concrete Vertigo – Ultimate Load Capacities when Installed in Normal-Weight Concrete<sup>1,2</sup>**

Anchor Size/ Rod Dia.  in. (mm)	Mount Direction	Screw Shank Size and Length	ANSI Drill Bit Diameter  $d_{bit}$ in.	Embed. Depth  $h_v$ in. (mm)	Minimum Concrete Compressive Strength ( $f'_c$ )					
					2,000 psi (13.8 MPa)		4,000 psi (20.7 MPa)		6,000 psi (41.4 MPa)	
					Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)	Tension lbs. (kN)	Shear lbs. (kN)
1/4 (6.4)	Vertical	1/4" x 1 1/4"	1/4"	1-1/4 (31.8)	1,390 (6.3)	1,810 (8.1)	1,950 (8.8)	2,440 (11.0)	2,070 (9.3)	2,570 (11.6)
3/8 (9.5)	Vertical	1/4" x 1 1/2"	1/4"	1-1/2 (38.1)	1,760 (7.9)	2,580 (11.6)	2,595 (11.7)	2,640 (11.9)	2,770 (12.5)	2,700 (12.2)
1/2 (12.7)	Vertical	3/8" x 2 3/4"	3/8"	2-3/4 (69.9)	5,320 (23.9)	5,250 (23.6)	6,050 (27.2)	6,330 (28.5)	8,620 (38.8)	7,410 (33.0)

1. The values listed above are ultimate load capacities which should be reduced by a minimum safety factor of 4.0 or greater to determine the allowable working load.
2. Linear interpolation may be used to determine ultimate loads for intermediate compressive strengths.

**Concrete Vertigo – Ultimate Load Capacities when Installed Through Metal Deck into Structural Lightweight Concrete<sup>1,2,3,4,5</sup>**

Anchor Size Rod Diameter  $d$ in. (mm)	Embedment Depth  $h_v$ in. (mm)	Lightweight Concrete Over Minimum 20 Ga. Metal Deck $f'_c \geq 3,000$ psi (20.7 MPa)	
		Minimum 4 1/2" Wide Deck	
		Tension lbs. (kN)	Load at 45° lbs. (kN)
1/4 (6.4)	1-1/4 (31.8)	800 (3.6)	1,140 (5.1)
3/8 (9.5)	1-1/2 (38.1)	1,780 (8.0)	1,500 (6.8)
1/2 (12.7)	2-3/4 (69.9)	3,880 (17.5)	2,920 (13.1)

1. The values listed above are ultimate and allowable load capacities for Vertigo rod hangers installed in sand-lightweight concrete.
2. The metal deck shall be minimum No. 20 gage thick steel [(0.035-inch base metal thickness (0.89 mm)] conforming to ASTM A 653/ A 653M.
3. Allowable loads capacities are calculated using an applied safety factor of 4.0.
4. The tabulated load values are for anchors installed with a minimum flange edge distance of 1 1/2-inch.
5. Allowable loads for anchors to resist short-term loads such as earthquake or wind may be increased by 33-1/3 percent for the duration of the load where permitted by code.

**Concrete Vertigo – Ultimate Tension Load Capacities when Installed in Hollow Core Concrete Plank<sup>1,2</sup>**

Anchor Size/ Rod Dia.  in. (mm)	Mount Direction	Screw Shank Size and Length	ANSI Drill Bit Diameter  $d_{bit}$ in.	Embed. Depth  $h_v$ in. (mm)	Center of Web	Center of Core
					lbs. (kN)	lbs. (kN)
1/4 (6.4)	Vertical	1/4" x 1-1/4"	1/4"	1-1/4 (31.8)	2,775 (12.3)	1,920 (8.5)
3/8 (9.5)	Vertical	1/4" x 1-1/2"	1/4"	1-1/2 (38.1)	3,700 (16.5)	2,570 (11.4)
1/2 (12.7)	Vertical	3/8" x 2-3/4"	3/8"	2-3/4 (69.9)	8,240 (36.7)	3,480 (15.5)

1. Tabulated load values are for anchors installed in 8-inch-thick hollow core plank with minimum compressive strength of 5,000 psi at the time of installation. The 4' x 6' normal-weight concrete members features include 1-1/2" cover above and below cores and a minimum web thickness of 1-1/2".
2. Depending on fastener application and governing building code, ultimate load capacities should be reduced by a minimum safety factor to determine the allowable working load. NFPA 13 Fire Protection requirements are 5 times the weight of the liquid (water) filled pipe plus 250 lbs. Consult the engineer of record.

**PERFORMANCE DATA**
**Steel Vertigo – Ultimate Load Capacities for Factory Mutual (FM Global) and Underwriter’s Laboratories (UL) Listings<sup>1</sup>**

Catalog Number	Anchor Size/ Rod Dia.	Mount Direction	Screw Shank Size and Length	Point Style	Maximum Pipe Size	UL	UL	FM	FM
						Minimum Steel Thickness	Test Load	Minimum Steel Thickness	Test Load
						in. (mm)	lbs. (kN)	in. (mm)	lbs. (kN)
7158	3/8 (9.5)	Vertical	1/4-20 x 1"	#3	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7184		Side	1/4-20 x 1"	#3	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7160		Vertical	1/4-20 x 1-1/2"	#3	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7186		Side	1/4-20 x 1-1/2"	#3	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7154		Vertical	12-20 x 1-1/2"	#5	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7188		Side	1/4-20 x 2"	#3	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7201		Side	12-20 x 1-1/2"	#5	4 (101.6)	0.060 (1.5)	1,500 (6.8)	0.096 (2.4)	1,475 (6.6)
7161		1/2 (12.7)	Vertical	12-20 x 1-1/2"	#5	8 (203.2)	0.250 (6.4)	4,050 (18.2)	0.250 (6.4)

1. Steel Vertigo anchors are recommended to be installed with the Universal Steel & Wood Nut Driver. For UL and FM listings, Steel Vertigo must be installed with a retaining nut.

**Wood Vertigo – Ultimate Load Capacities for Factory Mutual (FM Global) and Underwriter’s Laboratories (UL) Listings<sup>1</sup>**

Catalog Number	Anchor Size/ Rod Dia.	Mount Direction	Screw Shank Size and Length	Embedment Depth	UL	UL	FM	FM	
					Maximum Pipe Size	Test Load	Maximum Pipe Size	Test Load	
						in. (mm)	lbs. (kN)	in. (mm)	lbs. (kN)
7165	3/8 (9.5)	Vertical	1/4 x 2"	2 (50.8)	3 (76.2)	1,050 (4.7)	-	-	
7170		Side	1/4 x 2"	2 (50.8)	3 (76.2)	1,050 (4.7)	-	-	
7167		Vertical	1/4 x 3"	3 (76.2)	3 (76.2)	1,050 (4.7)	-	-	
7169		Vertical	1/4 x 4"	4 (101.6)	3 (76.2)	1,050 (4.7)	-	-	
7162		Vertical	5/16" x 2-1/2"	2 1/2 (63.5)	4 (101.6)	1,500 (6.8)	4 (101.6)	1,475 (6.6)	
7156		Vertical	5/16" x 2-1/2"	2 1/2 (63.5)	4 (101.6)	1,500 (6.8)	-	-	
		Side	5/16" x 2-1/2"	2 1/2 (63.5)	4 (101.6)	1,500 (6.8)	-	-	

1. Wood Vertigo anchors are recommended to be installed with the Universal Steel & Wood Nut Driver. No pre-drilling was done in the wood base materials.

**Concrete Vertigo – Ultimate Load Capacities for Factory Mutual (FM Global) Listings<sup>1</sup>**

Catalog Number	Anchor Size/ Rod Dia.	Mount Direction	Screw Shank Size and Length	ANSI	Embedment Depth	FM	FM Test Load
				Drill Bit Diameter		Maximum Pipe Size	
				<i>d<sub>bit</sub></i> in.	in. (mm)	in. (mm)	lbs. (kN)
7173	3/8 (9.5)	Vertical	1/4" x 1-1/2"	1/4"	1-1/2 (38.1)	4 (101.6)	1,475 (6.6)
7175	1/2 (12.7)	Vertical	3/8" x 2-3/4"	3/8"	2-3/4 (69.9)	8 (203.2)	3,800 (17.1)

1. Tabulated load values are for anchors installed in 8 inch thick hollow core plank with minimum compressive strength of 4,000 psi at the time of installation. The 4' x 6' normal-weight concrete members features include 1-1/2" cover above and below cores and a minimum web thickness of 1-1/2".

**ORDERING INFORMATION**

**Steel Vertical Hanger (#3 for Purlins, #5 for Beams)**

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Self Drilling Range	Std. Box	Std. Ctn.
7155	1/4"	1/4-20 x 1"	#3	0.036" (20 gage) to 0.188" (3/16")	100	500
7157	3/8"	1/4-20 x 2"	#3		100	500
7158	3/8"	1/4-20 x 1" (w/nut)	#3		100	500
7159	3/8"	1/4-20 x 1-1/2"	#3		100	500
7160	3/8"	1/4-20 x 1-1/2" (w/nut)	#3	0.188" (3/16") to 0.500" (1/2")	100	500
7152	1/4"	12-20 x 1-1/2"	#5		100	500
7154	3/8"	12-20 x 1-1/2" (w/nut)	#5		100	500
7161	1/2"	12-20 x 1-1/2" (w/nut)	#5		100	500



**Steel Side Hanger (#3 for Purlins, #5 for Beams)**

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Self Drilling Range	Std. Box	Std. Ctn.
7183	1/4"	1/4-20 x 1"	#3	0.036" (20 gage) to 0.188" (3/16")	100	500
7184	3/8"	1/4-20 x 1" (w/nut)	#3		100	500
7186	3/8"	1/4-20 x 1-1/2"	#3		100	500
7188	3/8"	1/4-20 x 2" (w/nut)	#3		100	500
7200	1/4"	12-20 x 1-1/2"	#5	0.188" (3/16") to 0.500" (1/2")	100	500
7201	3/8"	12-20 x 1-1/2" (w/nut)	#5		100	100



**Wood Vertical Hanger**

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Pre-Drill Diameter (If Required)	Std. Box	Std. Ctn.
7163	1/4"	1/4" x 2"	Type 17	1/8"	100	500
7203	3/8"	1/4" x 1"	Type 17		100	500
7165	3/8"	1/4" x 2"	Type 17		100	500
7167	3/8"	1/4" x 3"	Type 17		100	500
7169	3/8"	1/4" x 4"	Type 17		100	500
7162	3/8"	5/16" x 2-1/2"	Type 17		100	500
7164	1/2"	5/16" x 2-1/2"	Type 17		100	500



**Wood Side Hanger**

Cat. No.	Rod Dia.	Screw Shank Size and Length	Point Style	Pre-Drill Diameter (If Required)	Std. Box	Std. Ctn.
7185	1/4"	1/4" x 1"	Type 17	1/8"	100	500
7205	3/8"	1/4" x 1"	Type 17		100	500
7170	3/8"	1/4" x 2"	Type 17		100	500
7156	3/8"	5/16" x 2-1/2"	Type 17		100	500



**Concrete Vertical Hanger**

Cat. No.	Rod Dia.	Screw Shank Size and Length	Thread Style	Pre-Drill Diameter	Std. Box	Std. Ctn.
7171	1/4"	1/4" x 1-1/4"	Wedge-Bolt OT	1/4" ANSI	100	500
7173	3/8"	1/4" x 1-1/2"	Wedge-Bolt OT	1/4" ANSI	100	500
7175	1/2"	3/8" x 2-3/4"	Wedge-Bolt OT	3/8" ANSI	50	250



For side mount concrete applications use Catalog Number 7185 and 7170 with a 1/4" ANSI drill bit.

**Drive Sockets and Pole Tool**

Cat. No.	Description	RPM	Std. Box	Std. Ctn.
7166	6'-12' Pole Tool (includes three Jaw Chuck)	N/A	1	1
7187	Universal Steel & Wood Socket (Red)	500 to 1500 RPM	5	25
7195	1/4" Concrete Socket (Blue)	-	5	25
7197	3/8" Concrete Socket (Blue)	-	5	25



**Concrete Vertigo Installation Accessories**

Cat. No.	Description	Maximum Bit Length	Std. Box	Wt./Each
5864	1/4" and 3/8" Concrete Drive Sockets (Blue) Universal Steel & Wood Socket (Red) Sleeve Assembly (same as Cat# 5874)	6"	1	3/4
5874	Sleeve Assembly	6"	1	-
Cat. No.	Description	Usable Length	Std. Tube	Wt./10
5860	1/4" x 4-1/2" Straight Shank Drill Bit	3"	5	1/2
5866	Hex Shank SDS Drill Bit/Straight Shank Drill Bit	4"	1	1/2

