

# Post-Tensioning Components

**Precision-Hayes International** offers the widest selection of post-tensioning components, with over 400 types of wedges alone. Many of our components feature patented designs and our trademarks, which include SURE-LOCK® and Posi-Lock PLUS, are industry recognized. Our portfolio consists of SURE-LOCK® chucks, wedges and anchors; pocket formers and plastic accessories; nail-less systems and the Posi-Lock PLUS encapsulated anchor systems.

**Precision-Hayes International** embraces continuous improvement, investing time and resources to advance our capabilities. Recently we completed a 20,000 ft<sup>2</sup> addition to our Dallas facility which included new CNC machinery and expanded internal heat treat capabilities, solidifying the site as a world class wedge center.

The heat treat process is the critical piece of wedge manufacturing. Our expanded in-house capabilities allow us to ensure the highest standard of quality and continue to optimize our wedges for best performance. **Precision-Hayes International** is proud to be a supplier of top quality products to the industries we serve.



We offer the widest selection of wedge designs in the industry with different coatings, sizes and thread designs available, including:

- Two-part and three-part configurations
- Varying sizes, including the standard 0.5" and 0.6" sizes
- Application specific designs for lifting, bridges and mining
- Customer specific wedge designs
- Custom solutions also available



# Post-Tensioning Components

The SURE-LOCK® anchors, Posi-Lock PLUS and Posi-Lock PLUS<sup>10</sup> encapsulated anchor systems from **Precision-Hayes International** are recognized by the industry as leading brands.

The SURE-LOCK® and SURE-LOCK® II cast anchors are used in unbonded post-tensioning applications. They can also be used in other bare anchor mono-strand applications such as barrier cable installations. SURE-LOCK® is the industry standard and has been serving the industry since 1994 with a proven track record of success.

Posi-Lock PLUS and Posi-Lock PLUS<sup>10</sup> encapsulated anchor systems are market leaders for structural applications requiring corrosion protection. These systems feature an encapsulated SURE-LOCK® anchor and are designed to provide superior performance while maximizing installation ease for our customers.

The Posi-Lock PLUS<sup>10</sup> delivers enhanced sealing capability to protect against water intrusion. This advanced sealing technology has been tested and certified to 10 psi (several times higher than the PTI and ACI requirements for concrete buildings) ensuring optimal system performance. The Posi-Lock PLUS<sup>10</sup> also features a unique, active seal-lock for redundant sealing and provides a mechanical joint between the anchor tube and tendon sheath.

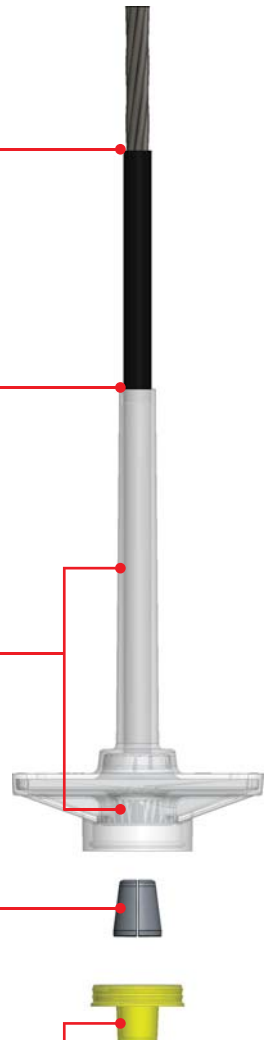
The strand is coated in grease and covered with sheathing to protect from corrosion while maintaining the ability to move independently of that sheathing.

Integrated seal between tube and sheathing ensures corrosion protection without the need for additional parts or labor.

Our patented 1 piece encapsulated design ensures superior corrosion protection, reduces labor and provides a rigid, perpendicular connection for code compliance.

SURE-LOCK® wedges provide the reliability you expect from Precision-Hayes International.

A grease cap is installed after tendon finishing is complete. It is filled with grease to offer additional protection to the anchorage zone.



# SURE-LOCK® Chucks and Wedges

## Trusted and Recognized



### SURE-LOCK® Wedges

- We offer a full range of wedges
- All wedges are heat-treated and come with proper certifications

Other common types of wedges we produce: pulling wedges, cable-stay wedges, bridge wedges

### SURE-LOCK® Chucks

- Chuck bodies can be ordered separately or in sets with wedges
- Chuck sets and splice chucks come standard with 2-part wedges without rings unless otherwise specified
- Proper certifications are shipped with the chucks
- Splice chucks: safely connect two sections of strand
- RCB chucks: used for "In-Pocket" stressing

Custom Solutions Available



### Anchor Heads

Machined anchor heads are available in customer specified sizes and hole patterns.



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### SURE-LOCK® Anchors

Industry trusted SURE-LOCK® and SURE-LOCK® II Anchors are available.



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### Jack and Pump Systems

Jack and Pump Systems include your choice of Stressing Jack, either a ZU4 or PE55 Stressing Pump, hose, gauge and fitting.



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### ▼ SURE-LOCK® Wedges and Chuck Bodies

Strand Size (in)	2-Part Wedge	
	Item Number	Model Number
0.25	H008282*	F250SL2
0.375	H008254*	F375SL2
0.4375	H008259*	F437SL2
0.50	H008270*	F500SL21.2-1.2
0.50	H008284*	F500SL2-1.3
0.60	H008292*	F600SL2

# SURE-LOCK® Chucks and Wedges



▲ Splice chuck components




**SURE-LOCK®-  
Chucks  
and  
Wedges**

Strand Sizes:  
**0.25 to 0.60 inch**


Wedge Types:  
**2-part and 3-part**

Coating Type:  
**Unplated**

## ▼ Splice Chucks

	Strand Size	Item Number	Description	Weight
	(in)			(lbs)
	0.375	<b>H008189</b>	F6375 Splice chuck	3.5
	0.4375	<b>H008191</b>	F6437 Splice chuck	3.5
	0.50	<b>H008213</b>	F6500 Splice chuck	3.5
	0.60	<b>H008232</b>	F6600 Splice chuck	3.5

## ▼ Chuck and Wedge Sets

	Strand Size	Item Number	Description	Weight
	(in)			(lbs)
	0.25	<b>H008619</b>	F5250 Chuck set, includes F250SL2 & F8B	1.0
	0.375	<b>H008186</b>	F5375 Chuck set, includes F375SL2 & F8B	2.0
	0.4375	<b>H008190</b>	F5437 Chuck set, includes F437SL2 & F8B	2.0
	0.50	<b>H008622</b>	F5500 Chuck set, includes F500SL2-1.3 & F8B	2.0
	0.50	<b>H008202</b>	F5500R2 Chuck set, includes F500SL2R & F8B	2.0
	0.50	<b>H008203</b>	F5500R3 Chuck set, includes F500SL3R & F8B	2.0
	0.60	<b>H008223</b>	F5600 Chuck set, includes F600SL2 & F13B	2.1
	0.60	<b>H008224</b>	F5600R3 Chuck set, includes F600SL3R & F13B	2.1

2-Part Wedge w/Ring		3-Part Wedge w/Ring		Chuck Body		RCB Chuck Body		Strand Size (in)
Item Number	Model Number	Item Number	Model Number	Item Number	Model Number	Item Number	Model Number	
<b>H008279</b>	F250SL2R	–	–	<b>H008194</b>	F8B	<b>H008204</b>	FRCB	0.25
<b>H008255</b>	F375SL2R	<b>H008257</b>	F375SL3R	<b>H008194</b>	F8B	<b>H008204</b>	FRCB	0.375
<b>H008260</b>	F437SL2R	<b>H008261</b>	F437SL3R	<b>H008194</b>	F8B	<b>H008204</b>	FRCB	0.4375
<b>H008275</b>	F500SL2R	<b>H008277</b>	F500SL3R	<b>H008194</b>	F8B	<b>H008204</b>	FRCB	0.50
–	–	–	–	<b>H008194</b>	F8B	<b>H008204</b>	FRCB	0.50
<b>H008295</b>	F600SL2R	<b>H008315</b>	F600SL3R	<b>H008230</b>	F13B	–	–	0.60

# SURE-LOCK® Anchors

## Trusted and Recognized



Strand Sizes:

**0.50 and 0.60 inch**

Coating Type:

**Unplated**

### Anchor Heads

Machined anchor heads are available in customer specified sizes and hole patterns.



### SURE-LOCK® and SURE-LOCK® II Anchors

- The industry standard for unbonded monostrand castings
- Patented, proven designs for slab-on-ground applications
- Made in USA
- Compliance with prevailing business codes per ICC-ES report ESR-2381
- Compliance with Los Angeles city requirements per report RR 24938

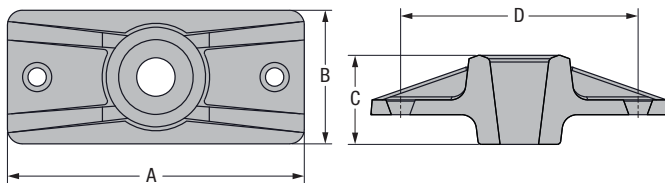
### Compatible Wedges

When determining what wedge to use in an accompanying SURE-LOCK® Anchor, wedge length and diameter play a critical role.



#### Compatible Wedges for Sure-Lock® Anchors

Anchorage	Max Strand Size (in)	Max Wedge Length (in)	Max Wedge Diameter (in)
SURE-LOCK® F5CA	0.50	1.30	1.00
SURE-LOCK® F6CA	0.60	1.60	1.12
SURE-LOCK® II F5TCA	0.50	1.20	1.00



### ▼ SELECTION CHART

Anchorage	Description	Strand Size (in)	Item Number	Dimensions (in)			
				A	B	C	D
SURE-LOCK®	F5CA Classic, Standard	0.50	<b>H005781</b>	5.00	2.25	1.50	4.00
	F6CA Classic, Standard	0.60	<b>H006720</b>	5.83	2.99	1.58	4.49
SURE-LOCK® II	F5TCA Lighter, Slimmer	0.50	<b>H006718</b>	5.00	2.25	1.30	4.00

# Pocket Formers and Accessories

## Options for Any System



Strand Sizes:

**0.50 and 0.60 inch**

Anchorage Systems:

**Bare, Encapsulated, Nail-less**

### Intersectional Chairs

**H000345** are available for 0.50" strand and are multi-directional.



### Pocket Formers

- Full range of Pocket Formers for Encapsulated, Bare and Nail-less Systems
- Available for 0.50" and 0.60" strand
- Available in various lengths and angles including 90°, 30° and 45°

	Item	Strand Size (in)	Item Number	Description	Compatible Systems			
					Encap	Bare	Threaded Anchor Nail-less System	Threaded Cap Nail-less System
0.50" STANDARD		0.50	H000403	1.5" - STANDARD		X		
		0.50	H000405	2.0" - STANDARD	X	X		
		0.50	H000409	2.25" - STANDARD	X	X		
		0.50	H000412	30° - STANDARD	X	X		
		0.50	H000415	45° - STANDARD	X	X		
		0.50	H000418	0.5" - INTERMEDIATE	X	X		
NOSELESS		0.50	H000407	2.0" - NOSELESS	X		X	
		0.50	H000411	3.0" - NOSELESS	X		X	
		0.50	H010379	30° - NOSELESS	X		X	
		0.50	H010378	45° - NOSELESS	X		X	
		0.50	H000408	2.0" - SYMETRICAL	X		X	X
		0.50	H004946	2.0" - GROUT-LOCK (NO RING)*	X		X	X
		0.50	H005835	30° GROUT-LOCK (NO RING)*	X		X	X
	0.50	H005833	45° GROUT-LOCK (NO RING)*	X		X	X	
0.60" STANDARD		0.60	H000410	2.5" - STANDARD	X	X		
		0.60	H000419	30° - STANDARD	X	X		
		0.60	H000421	0.6" - INTERMEDIATE	X	X		

\* Grout-Lock Pocket Formers with a ring are also available. Contact us for more information.



# Nail-less Systems

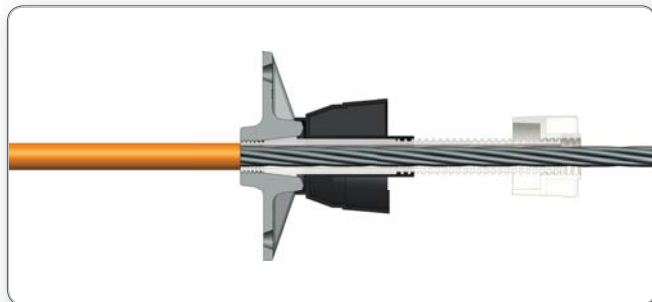
## Easier and Cleaner Installation



- Offers unique installation technique
- Innovative nut design allows installation with metal or other thin form boards
- Available for both bare and encapsulated anchorages
- 2 effective solutions:

### ▼ Threaded Anchor Nail-less System

- Features a burn ring to protect the anchorage while using a plasma torch
- Available for either a threaded bare or encapsulated anchor
  - **H000336** 0.50" Threaded Bare Anchor
  - **H000449** 0.50" Threaded Encap Anchor



Between caps and encaps, spindle is threaded.  
Encap - spindle has special cap that threaded into a mini thread in the front; don't need special anchor.

### Pocket Formers

The Pocket Formers are used at the Stressing End.

- Available in 0.50" and 0.60"
- Available in various lengths and angles



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### Posi-Lock PLUS Encapsulated Anchor System

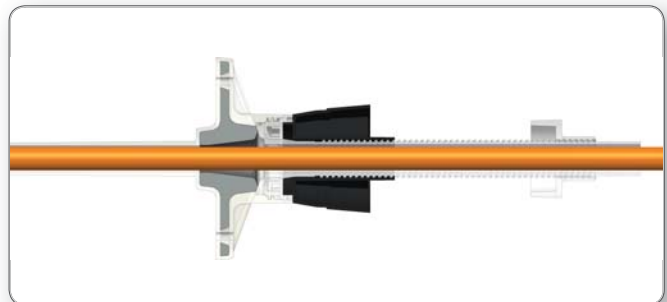
The Posi-Lock PLUS system provides an effective solution to protect all components in the system.



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### ▼ Threaded Cap Nail-less System

- Encapsulated joint provides added durability
- Features Triple-start threads for quicker and easier installation of nuts
- Available only for an encapsulated anchor with a threaded nose
  - **H000443** 0.50" Threaded Cap Encap Anchor



# Nail-less Systems

As their name implies, Nail-less Systems offer users the ability to install and use both bare and encapsulated anchorages without the need for nails. These systems are a great solution for anyone who wants precision tensioning and/or a clean, bare finish to their slabs.

These systems are more durable and harder to knock out of alignment from busy workers bumping into or stepping on them. After form removal there is also no nail exposure. This means users don't need to spend valuable time cutting or hammering nail heads, and that no unsightly rust or corrosion will develop on the slab.



## Nail-less Systems



Strand Sizes:

**0.50 inch**

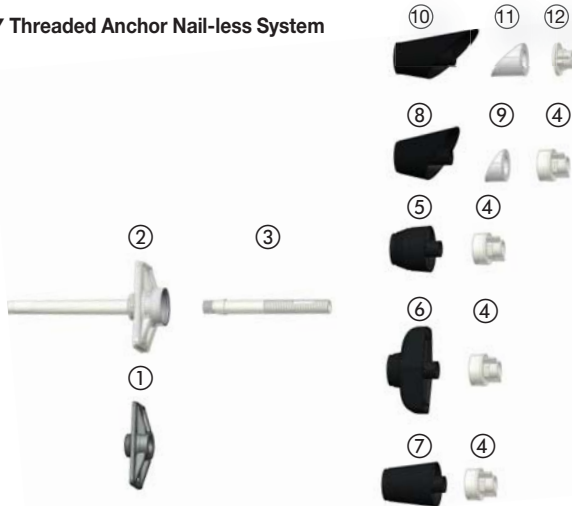
Pocket Former Size:

**2 and 3 inch**

Pocket Former Angles:

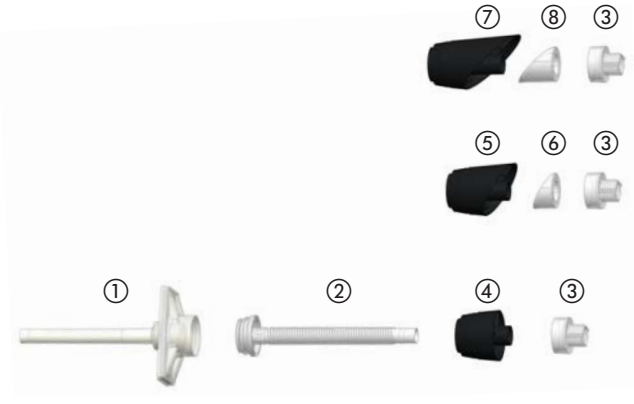
**30° and 45°**

### ▼ Threaded Anchor Nail-less System



Reference Number	Item Number	Description
1	<b>H000336</b>	0.50" Threaded Bare Anchor
2	<b>H000449</b>	0.50" Threaded Enap Anchor
3	<b>H000458</b>	Spindle
4	<b>H000459</b>	Retaining Nut
5	<b>H004946</b>	2.0" Grout-Lock Noseless Pocket Former
6	<b>H000408</b>	2.0" Symmetrical Pocket Former
7	<b>H000411</b>	3.0" Noseless Pocket Former
8	<b>H010379</b>	30° Noseless Pocket Former
9	<b>H010490</b>	30° Washer
10	<b>H010378</b>	45° Noseless Pocket Former
11	<b>H010489</b>	45° Washer
12	<b>H010525</b>	45° Retaining Nut

### ▼ Threaded Cap Nail-less System



Reference Number	Item Number	Description
1	<b>H000443</b>	0.50" Threaded Cap Encap Anchor
2	<b>H011126</b>	Triple-start Spindle
3	<b>H000426</b>	Triple-start Nut
4	<b>H004946</b>	2.0" Grout-Lock Noseless Pocket Former
5	<b>H005835</b>	30° Grout-Lock Noseless Pocket Former
6	<b>H010490</b>	30° Washer
7	<b>H005833</b>	45° Grout-Lock Noseless Pocket Former
8	<b>H010489</b>	45° Washer

### ▼ Compatible Grease Caps

Item Number	Description
<b>H007601</b>	Threaded Bare Anchor Grease Cap
<b>H000398</b>	Threaded Encap Anchor Grease Cap
<b>H000400</b>	Threaded Cap Encap Anchor Grease Cap





# Posi-Lock PLUS Encapsulated Anchor System

## High Quality, Durability and Reliability









- **Void Displacement Sleeves** are for Intermediate End and Splice Tube Assembly only. It eliminates the need for additional taping or PT Coating applications in the field
- **Unique molding process** increases strength in the nail hole area, reducing potential leakage
- **One piece anchor design** eliminates assembly in the fabrication process



Fixed End			
Item	Description	Item Number (0.50" Strand)	Item Number (0.60" Strand)
	Push Cap (Yellow with Grease)	H000396	H000376*
	Anchor	H000436	H005184

\* 0.60" Fixed End Push Cap is white, not yellow  
 Note: The wedges are sold separately.

Intermediate		
Item	Description	Item Number (0.50" Strand)
	Intermediate Assembly (Includes all parts)	H000438
	Intermediate Anchor	H000437
	Spindle Assembly	H000431
	Sleeve x 2	H000451
	O-Ring x 2	H000928
	Nut x 2	H000429

Note: For 0.60" Intermediate, please contact us.


**Wedges**  
 The SURE-LOCK® Wedges are used at Fixed End, Intermediate and Stressing End. Available in 0.50" and 0.60", 2-part.



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**Pocket Formers**  
 The Pocket Formers are used at the Stressing End.

- Available in 0.50" and 0.60"
- Available in various lengths and angles



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# Posi-Lock PLUS Encapsulated Anchor System

Encapsulated post-tensioning systems offer a simple and extremely effective method to protect all components within the PT system.



Extensive testing, design and production processes are used to make certain the components perform as designed, time after time.

That being said, proper installation of the encapsulated components plays a key role in the proper performance of the system.

This includes proper finishing of the tendon and installation of the Grease Cap and Pocket Grouting.

**Posi-Lock PLUS**



Strand Sizes:

**0.50 and 0.60 inch**






Wedge Type:



**2-part**

Coating Type:

**Encapsulated**



Splice Tube Assembly		
Item	Description	Item Number (0.50" Strand)
	Splice Tube Assembly* (Includes all parts)	H005792
	Splice Tube	H005481
	Splice VDS Sleeve (Standard = 30")	H005478
	O-Ring × 2	H000928
	Nut × 2	H000429

Stressing End			
Item	Description	Item Number (0.50" Strand)	Item Number (0.60" Strand)
	Anchor	H000445	H005186
	Push Cap (White with Grease)	H000398	H000378

\*Splice Tube Assembly is recommended to replace tape and grease.  
Note: For 0.60" Splice Tube Assembly, please contact us.

# Posi-Lock PLUS<sup>10</sup> Encapsulated Anchor System

## Enhanced Sealing Capability to Resist Corrosion and Ensure System Performance



- Void Displacement Sleeves are for Intermediate End and Splice Tube Assembly only. It eliminates the need for additional taping or PT Coating applications in the field
- Unique molding process increases strength in the nail hole area, reducing potential leakage
- One piece anchor design eliminates assembly in the fabrication process

### Additional Features to Posi-Lock PLUS:

- Seal-Lock feature provides mechanical joint between anchor tube and tendon sheath and also an "energized" seal, and requires no installation tools (patent pending)
- All sealed joints on the Posi-Lock PLUS<sup>10</sup> are designed, tested and certified to 10 psi (several times higher than the PTI and ACI requirements for concrete buildings)



Fixed End		
Item	Description	Item Number
	0.50" Push Cap (Yellow with Grease)	H000396
	0.50" Anchor	H005684
	0.50" Seal (Blue)	H005448
	0.50" Nut (Yellow)	H005447

Note: The wedges are sold separately.

Intermediate		
Item	Description	Item Number
	0.50" Intermediate Assembly (Includes all parts below)	H000438
	0.50" Intermediate Anchor	H000437
	0.50" Spindle Assembly	H000431
	0.50" Sleeve x 2	H000451
	0.50" O-Ring x 2	H000928
	0.50" Nut x 2	H000429

# Posi-Lock PLUS<sup>10</sup> Encapsulated Anchor System

## Hydrostatic Testing

All Posi-Lock PLUS<sup>10</sup> products are designed and tested to surpass hydrostatic performance. **Precision-Hayes International** has invested heavily in its capabilities to perform this testing, to insure the Encapsulated System will perform in your application.



## Posi-Lock PLUS<sup>10</sup>



Strand Sizes:

**0.50 inch**






Wedge Type:





**2-part**

Coating Type:

**Encapsulated**



Splice Tube Assembly		
Item	Description	Item Number
	0.50" Splice Tube Assembly* (Includes all parts below)	H005792
	0.50" Splice Tube	H005481
	0.50" Splice VDS Sleeve (Standard = 30")	H005478
	0.50" O-Ring x 2	H000928
	0.50" Nut x 2	H000429

Stressing End		
Item	Description	Item Number
	0.50" Anchor	H005696
	0.50" Push Cap (White with Grease)	H000398
	0.50" Seal (Blue)	H005448
	0.50" Nut (Yellow)	H005447

\*Splice Tube Assembly is recommended to replace tape and grease.