## Suspension Hardware

#### **Knife Thread Insert**

- Designed as a removable thread
- Will not crush wood fiber

		Threads
Cat #	Size	per Inch
H25373/16	3/16"	24
H25371/4	1/4"	20
H25373/8	3/8"	16



### Eye Nut

(Dimensions	in	inches)	
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Cat #	Bolt Size	I.D. Eye
H367914	1/4-20	3/4 x 7/8
H367938	3/8-16	7/8 X 1 1/4
H367912	1/2-13	1 1/4 X 1 1/2



#### Tee-Nut

• Puts steel thread into wood. Ideal for use with stove bolts, machine screws or threaded rod

		Threads
Cat #	Size	per Inch
H25383/16	3/16	24
H25381/4	1/4	20
H25385/16	5/16	18
H25383/8	3/8	16



#### Threaded Rod

• Wrought steel rod with a continuous thread

		Size	Threads
Cat #	Length	Wire	per Inch
H7713610	36"	10	24
H7717210	72"	10	24
H7713614	36"	1/4	20
H7717214	72"	1/4	20
H7713638	36"	3/8	16
H7717238	72"	3/8	16
H7713612	36"	1/2	13
H7717212	72"	1/2	13
H7713658	36"	5/8	11
H7717258	72"	5/8	11
H7713634	36"	3/4	10
H7717234	72"	3/4	10
H771361	36"	1	8
H771721	72"	1	8



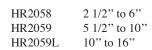
- Used for fastening a threaded rod to a ceiling
- · Made of malleable iron

Cat #	Size
HR18538	3/8"
HR18512	1/2"



### Adjustable **Beam Clamps**

	Made to	
Cat. #	Grip Flange	
HR2698	4" to 8"	
HR2798	5" to 9"	





Picture represents HR2698 and HR2798



Picture represents HR2058 - HR2059L

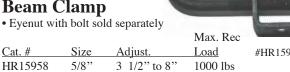


## Adjustable Rod Beam Clamp

Cat. #

HR15958L

5/8"



1000 lbs

5" to 14"

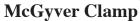


#HR15958L



• Evenut with bolt sold separately

Eyenat with boit sold separately			
			Maximum
		Flange	Recommended
Cat. #	Weight	Adjust.	Load
HRSBC1	8 lbs.	3" to 9"	1 ton
HRSBC2	10.5 lbs.	3" to 9"	2 ton



- Created in our shop by our head rigger (who very often is McGiver like), this clamp allows you to fasten a pipe as close to the iron superstructure as possible, giving you the maximum amount of pipe height.
- · Adjustable Rod Beam Clamp joined to half pipe clamp
- Can handle 1 1/4" or 1 1/2" pipe

			Max. Rec
Cat. #	Size	Adjust.	Load
HR15958MC	5/8"	3 1/2" to 8"	1000 lbs
HR15958MCL	5/8"	5" to 14"	1000 lbs

## Pipe Clamps

### **Steel Batten Clamp**

For Pipe	
Cat # Size	
HR841 1"	
HR84114 1 1/4"	
HR84112 1 1/2"	
HR842 2" (silver	C



Ultimat	e Tensil	e

	Force	Safety	Working
Cat#	(lbs.)	Factor	Load Limit
HR84	6,149	8	750 lbs.
Failure Typ	e - Pipe Pullout	Pipe Size	e Tested- 1 1/4" & 1 1/2"

## Steel Half Batten Clamp



## Aluminum Adjustable Pipe Clamp #HR2019A



- This light weight pipe clamp enables you to attach two pieces of 1 1/2" or 2" pipe at any angle because it has a pin that makes the clamp rigid or swivel.
- No free pipe end needed.
- Fits on 2" truss.

# **Half Aluminum Pipe Clamp**

#### #HR2019A1/2

- This light weight half pipe clamp with 1/2" flat head socket bolt.
- Excellent for mounting Unistrut track to truss.
- Comes with Nylock Nut.

## Cross Over Pipe Clamp

- Used to build quick, rigid structures
- Each pipe size plate is compatible with each other allowing you to attach a 1 1/4" pipe at a right angle to a 1 1/2" pipe.
- Uses 4 3/8" bolts grade 5 (supplied).

Cat #	For Pipe Size
HR2019C112	1 1/2" to 1 1/2"
HR2019C114	1 1/4" to 1 1/4"

HR2019MX Mixed one of each 1 1/2" to 1 1/4"

## Adjustable Swivel Drop Forged Pipe Clamp #HR2019F

- A heavy duty pipe clamp that
- A heavy duty pipe clamp that enables you to attach two pieces of 1 1/4" or 1 1/2" pipe at any angle
- No free pipe end needed



Ultimate Te	nsile		
	Force	Safety	Working
Cat#	(lbs.)	Factor	Load Limit
HR2019F	16,934	8	2000 lbs.
Failure Type	- Pin Connec	tor Hole	

## Adjustable Rigid Drop Forged Pipe Clamp #HR2019FNS

- A heavy duty pipe clamp that enables you to attach two pieces of 1 1/4" or 1 1/2" pipe at a right angle
- No free pipe end needed



Ultimate 7	Tensile		
	Force	Safety	Working
Cat#	(lbs.)	Factor	Load Limit
HR2019F	NS 17,153	8	2125 lbs.
Failure Typ	e - Pin Connect	tor Hole	

## Adjustable Half Pipe Clamp

#### #HR2019F1/2

- Allows you to use a 1/2" bolt through the center of pipe ranging from 1 1/2" to 2"
- No free pipe end needed.
- Fits on 1 1/4 or 1 1/2" pipe

## Rota-Lock Pipe Clamp

• Used to build quick, rigid structures



		Inside	Outside	
Cat #	Size	Diameter	Diameter	Weight
HR2072114	1 1/4" x 1 1/4"	1.380"	1.660"	1.11 lbs
HR2072112	1 1/2" x 1 1/2"	1.610"	1.900"	1.26 lbs

Ultimate Tensile				
	Force	Safety	Working	
Cat#	(lbs.)	Factor	Load Limit	
HR2072	31,073	10	3000 lbs.	
Failure Type - Bend near weld				

## Pipes & Pipe Sleeves

#### **Pipe End Safety Cap**

- Avoid brian damage with these handy thick vinyl end caps
- Makes the end of a pipe batten visible

<u>Cat. #</u>	Size
HRSC	1 1/2"



#### Trimming Chain

- Used to connect the pipe batten and hanging iron to the flat
- Height can be varied by removing or doubling up on chain links

Cat. #	Length	Description
HR206524	24"	Snap & Ring
HR206530	30"	Snap & Ring
HR206536	36"	Snap & Ring



#### **Pipe Batten**

- Standard black pipe length 21 feet long (can be sleeved together to make longer battens)
- Pipe is sold by inside pipe diameter...not outside.
   Understand this and you will always order the correct pipe size!
   Use pipe section below to help determine the outside diameter but use the inside diameter when ordering.

#### Schedule 40 - Standard Pipe Batten

	Inside Pipe	Outside Pipe	Wall	Weight
Cat #	Diameter	Diameter	Thickness	per foot
HBP1/2	1/2"	.840"	.109"	.8510
HBP3/4	3/4"	1.050"	.113"	1.131
HBP1	1"	1.315"	.133"	1.679
HBP11/4	1 1/4"	1.660"	.140"	2.273
HBP11/2	1 1/2"	1.900"	.145"	2.718
HBP2	2"	2.375	.154"	3.653

#### Schedule 80 - Heavy Duty Pipe Batten

	Inside Pipe	Outside Pipe	Wall	Weight
Cat #	Diameter	Diameter	Thickness	per foot
HBP8011/4	1 1/4"	1.660"	.191"	2.997
HBP8011/2	1 1/2"	1.900"	.200"	3.631

#### **Speed-Rail Pipe**

- Standard aluminum pipe length 20 feet long (can be sleeved together to make longer battens)
- Pipe is sold by inside pipe diameter...not outside.
  Understand this and you will always order the correct pipe size!
  Use pipe sections listed here to help determine the outside diameter but use the inside diameter when ordering.

#### Schedule 40 - Standard

	Inside Pipe	Outside Pipe	Wall	Weight
Cat #	Diameter	Diameter	Thickness	per foot
SRP34	3/4"	1.050"	.113"	1.131
SRP1	1"	1.315"	.133"	1.679
SRP11/4	1 1/4"	1.660"	.140"	2.273
SRP11/2	1 1/2"	1.900"	.145"	2.718
SRP2	2"	2.375	.154"	3.653

#### Schedule 80 - Heavy Duty

	Inside Pipe	Outside Pipe	Wall	Weight
Cat #	Diameter	Diameter	Thickness	per foot
SRP8011/4	1 1/4"	1.660"	.191"	2.997
SRP8011/2	1 1/2"	1.900"	.200"	3.631

### **Pipe Batten Sleeves**





- Inside sleeve splice 18"
- Assemble pipe sections to achieve the desired batten length
- Pipe not included, must drill your own holes.

#### Inside Pipe

Cat #	Diameter	Schedule
HR84011/4	1 1/4"	40
HR84011/2	1 1/2"	40
HR84011/280	1 1/2"	80

#### 12" Modern Pipe Sleeves

- Faster and stronger way to sleeve pipes together
- Contains 4 tightening set screws

Cat. #	Size
GPME010-2019	1"
GPME010-2024	1 1/4
GPME010-2030	1 1/2



## **Mutual fabricates** custom pipe lengths & custom threading. Contact a sales representative for 2" I.P.S. pricing. (2.375 O.D.) 1/2" I.P.S. (.840 O.D.) 1 1/2" I.P.S. (1.900 O.D.) 3/4" I.P.S. (1.050 O.D.) 1 1/4" I.P.S. 1" I.P.S. (1.660 O.D.) (1.315 O.D.)