ADVANCED TECHNOLOGY TRIGGER RELEASE SNAP SHACKLES & HARDWARE

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www.tylaska.com

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PERFORMANCE By Design

From the detailed assembly, finishing and individual testing of each unit, Tylaska shackles provide discriminating sailors with the ultimate in strength, performance and durability.

New two piece flanged pin design resists shear and cracking Der starke Scharnier-Bolzen aus präzisions-geschliffenem Edelstahl 17-4PH nimmt hohe Scherkräfte auf Axe frontal massif, usiné avec précision, résiste au cisaillement

Contoured finger trigger hole for easy operation Der Finger-gerechte Abzug

erlaubt enifache Handhabung Anneau passe-doigt profilé,

pour une ouverture aisée

Reinforced hole adds strength, reduces wear

Die Bohrung ist verstärkt und dadurch stabiler, auch gegen Abnutzung Points de pivot renforcé, pour plus de résistance et moins d'usure

Solid 316 stainless pivot pin ensures long life_ Der massive Wirbel-Zapfen aus Edelstahl 316 bedeutet langes Leben Axe de pivot massif, longue derée

Alloy bushing allows smooth swivel action

Die speziell legierte Buchse sorgt für tadellosen Wirbel-Lauf Bague en alliage, permet un pivotement facile sous tension

Solid 316 cross pin prevents nut from unscrewing

Der Sicherungs-Stift aus massivem Edelstahl 316 verhindert ein Aufdrehen der Mutter Goupille tranversale massive empêchant l'écrou de se deserrer

Threaded and pinned 17-4PH stainless nut withstands / the most severe conditions

Die Splint-gesicherte Mutter aus Edelstahl 17-4PH ist von höchster Festigkeit Gros écrou usiné conçu pour résister aux pires conditions. Frein-filet pour une sécurité renforcée

All components superpolished for maximum corrosion resistance Alle Komponenten sind hochglanz-poliert für maximalen Rostschutz Toutes les piéces subissent un polissage intensif pour une meilleure résistance à la corrosion

Smooth outside shape will not snag on sails Die glatte Form verfängt sich nicht im Segel Bras vrillé suivant des données logarithmiques, permetrant d'éviter les accrochages aux anneaux de voiles

Patented release surface allows easy opening under load yet stays locked until released

Die patentierte Auslöser-Geometrie gestattet leichtes Öffnen unter Last, schliesst aber sicher bis zur Auslösung Systéme de déclenchement breveté, permettant une ouverture aisée sous charge, tout en assurant un verrouillage efficace

Unique trigger is easy to open and close with only one hand! Der einzigartige Abzug lässt den Schäkel leicht einhändig öffnen und schliessen

Une gâchette unique est facile á ouvrir et á fermer avec une main seulement

Large flare resists snagging when dragged over decks Der grosse Wulst verhütet ein Verfangen beim Gleiten über Deck

Partie largement évasée, évite les accrochages accidentels lorsque la manille traîne sur le pont

 Extra long stroke 316 stainless spring resists corrosion
Die Feder aus Edelstahl 316 ist extra-lang und rostfrei
Long ressort amortisseur, restant souple

> Patent 5,769,475 Patent D372,855 Patent 5,904,112 Patent 6,539,885 Others Pending. MADE IN THE USA

Rear drain hole flushes out spring Die Federkammer hat ein Lenz-Loch Drain á l'arriére permettant le rinçage du ressort

Aerospace 17-4PH stainless construction for extreme strength Die konstruktion ist aus extrem starkem Raumfahrt-Edelstahl 17-4PH Contruit avec acier inoxydable aerospace 17-4PH pour force extréme

How does advanced calculus make a better shackle?

Tylaska shackles were meticulously designed and computer optimized using the latest finite element CAD software. Aerospace grade 17-4 PH stainless steel construction gives Tylaska shackles the ultimate in strength-to-weight ratios. The precision engineered U.S. made shackles are constructed to near-military specifications. Tylaska's patented mathematical curvature of the release mechanism allows the shackles to be easily opened even under tremendous loads.

From the detailed assembly, finishing and individual testing of each unit, Tylaska shackles provide discriminating sailors with the ultimate in strength, performance and durability. Many years of design and rigorous testing created a series of shackles that provide a standard of quality previously unavailable. *Photo Credit: various images provided by Quantum Sails Design Group*



Tylaska T5 Snap Shackles are perfect for small boat applications requiring high strength and low weight. They have a breaking strength of 5,000 lbs and weigh just 2.2 ounces in the standard bail configuration. Ideal for J-24s, Mumm 30s and similar boats.



SB- Actual Size



LB- Actual Size



CB- Actual Size

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SHACKLE TYPE	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	THICKNESS in (mm)	WEIGHT oz (gm)	WORK LOAD lb (kg)	BREAKING STRENGTH lb (kg)	RECOMMENDED APPLICATIONS
T5 SB	%16 (14.2)	%16 (14.2)	¹⁷ ⁄32 (13.5)	%16 (14.2)	2 ¹⁵ ⁄16 (74.6)	.31 (7.9)	2.2 (59)	2,500 (1,136)	5,000 (2,273)	20-30' Boats
T5 LB	%16 (14.2)	%16 (14.2)	¹³ ⁄16 (20.6)	⁷ ⁄/8 (22.2)	35⁄16 (84.1)	.31 (7.9)	2.8 (74)	2,500 (1,136)	5,000 (2,273)	20-30' Boats
T5 CB	%16 (14.2)	%16 (14.2)	¹⁹ ⁄ ₃₂ (15.1)	¹ ⁄2 (12.7)	31⁄4 (82.6)	.31 (7.9)	2.8 (79)	2,500 (1,136)	5,000 (2,273)	20-30' Boats



SB - Standard Bails provide ample room for attaching a line while keeping weight and overall shackle length to a minimum. Ideal for halyards and sheets.

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LB - Large Bails provide room for up to three additional shackles or a combination of shackles and lines. Ideal for spinnaker sheets, guys or other multi-line applications. CB - Clevis Bails do not require splicing and provide moveable attachments to rings, deck fittings, furlers, rolling furlers, etc. Ideal for many uses.

Every unit is pull tested and released under several different load conditions before shipping.

Tylaska T8 Snap Shackles are perfect for applications requiring high strength and low weight. They have a breaking strength of 8,000 lbs and weigh only 3.5 ounces in the standard bail configuration. Ideal for the 24 to 36 foot sailboat.



SB- Actual Size



LB- Actual Size



SHACKLE С THICKNESS WORK LOAD BREAKING RECOMMENDED В D Е WEIGHT A TYPE in (mm) in (mm) in (mm) in (mm) in (mm) in (mm) oz (gm) lb (kg) STRENGTH lb (kg) **APPLICATIONS** T8 SB ¹¹/₁₆ (17.5) ²¹/₃₂ (16.7) ¹⁹/₃₂ (15.1) ²¹/₃₂ (16.7) 24-36' Boats 37/16 (87.3) .39 (9.9) 3.6 (97) 4,000 (1,818) 8,000 (3,636) T8 LB ¹¹/₁₆ (17.5) ²¹/₃₂ (16.7) ³¹/₃₂ (24.6) 1 (25.4) 35% (92.1) .39 (9.9) 4.6 (116) 4,000 (1,818) 8,000 (3,636) 24-36' Boats T8 CB ¹¹/₁₆ (17.5) ²¹/₃₂ (16.7) ¹¹/₁₆ (17.4) ⁹/₁₆ (14.2) 3³/₄ (95.2) .39 (9.9) 8,000 (3,636) 4.3 (122) 4,000 (1,818) 24-36' Boats



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SB - Standard Bails provide ample room for attaching a line while keeping weight and overall shackle length to a minimum. Ideal for halyards and sheets.
LB - Large Bails provide room for up to three additional shackles or a combination of shackles and lines. Ideal for spinnaker sheets, guys or other multi-line applications.
CB - Clevis Bails do not require splicing and provide moveable attachments to rings, deck fittings, furlers, rolling furlers, etc. Ideal for many uses.

Every unit is pull tested and released under several different load conditions before shipping.



SHACKLE TYPE	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	THICKNESS in (mm)	WEIGHT oz (gm)	WORK LOAD lb (kg)	BREAKING STRENGTH lb (kg)	RECOMMENDED APPLICATIONS
T12 SB	³ ⁄4 (19.1)	²⁵ ⁄32 (19.8)	³ ⁄4 (19.1)	³ ⁄4 (19.1)	4 (101.6)	.45 (11.4)	5.8 (159)	6,000 (2,727)	12,000 (5,455)	30-45' Boats
T12 LB	³ ⁄4 (19.1)	²⁵ ⁄32 (19.8)	11⁄8 (28.6)	13/16 (30.2)	41⁄2 (114.3)	.45 (11.4)	8.0 (205)	6,000 (2,727)	12,000 (5,455)	30-45' Boats
T12 CB	³ ⁄4 (19.1)	²⁵ ⁄32 (19.8)	²⁵ ⁄ ₃₂ (19.8)	¹¹ ⁄16 (17.4)	45⁄16 (109.5)	.45 (11.4)	6.9 (195)	6,000 (2,727)	12,000 (5,455)	30-45' Boats



SB - Standard Bails provide ample room for attaching a line while keeping weight and overall shackle length to a minimum. Ideal for halyards and sheets. LB - Large Bails provide room for up to three additional shackles or a combination of

LB - Large Bails provide room for up to three additional shackles or a combination of shackles and lines. Ideal for spinnaker sheets, guys or other multi-line applications. CB - Clevis Bails do not require splicing and provide moveable attachments to rings, deck fittings, furlers, rolling furlers, etc. Ideal for many uses.

Every unit is pull tested and released under several different load conditions before shipping.



T30 SB 1¹/₄ (31.8) 1¹/₈ (28.6) 1¹/₈ (28.6) 1¹/₄ (31.8) 6³/₈ (161.9) .78 (19.8) 26.4 (636) 15,000 (6,818) 30,000 (13,636) 60-80' Boats T30 LB 11/4 (31.8) 11/8 (28.6) 127/32 (46.8) 129/32 (48.4) 73/16 (182.6) 60-80' Boats .78 (19.8) 29 (824) 15,000 (6,818) 30,000 (13,636) T30 CB 11/4 (31.8) 11/8 (28.6) 11/4 (31.8) 11/16 (27) 61³/16 (173) .78 (19.8) 30.6 (866) 15,000 (6,818) 30,000 (13,636) 60-80' Boats SB - Standard Bails | LB - Large Bails | CB - Clevis Bails



Tylaska T40 Snap Shackles are designed for massive sailboats or for towing or individual applications. With a breaking strength of 40,000 pounds, this shackle can handle sail loads on the largest of sailboats. They can be opened using either a trigger or lanyard. A lanyard allows for remote operation - ideal for towing applications. The locking pin provides extra security from accidental release.

USA





SHACKLE TYPE	A in (mm)	B in (mm)	C in (mm)	D in (mm)	_	THICKNESS in (mm)	WEIGHT oz (kg)	WORK LOAD lb (kg)	BREAKING STRENGTH lb (kg)	RECOMMENDED APPLICATIONS
T40 SB	1.8 (45.7)	1.68 (42.6)	1.85 (47.1)	1.78 (45.2)	9.57 (243)	1.13 (28.6)	99.3 (2.82)	20,000 (9,090)	40,000 (18,181)	100' + Maxi Boats
T40 LB	1.8 (45.7)	1.68 (42.6)	2.87 (72.8)	2.91 (74.0)	10.8 (274)	1.13 (28.6)	137.5 (3.9)	20,000 (9,090)	40,000 (18,181)	100' + Maxi Boats
T40 CB	1.8 (45.7)	1.68 (42.6)	1.95 (49.6)	1.64 (41.8)	10.2 (258)	1.2 (29.3)	130.7 (3.7)	20,000 (9,090)	40,000 (18,181)	100' + Maxi Boats

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SB - Standard Bails provide ample room for attaching a line while keeping weight and overall shackle length to a minimum. Ideal for halyards and sheets.
LB - Large Bails provide room for up to three additional shackles or a combination of shackles and lines. Ideal for spinnaker sheets, guys or other multi-line applications.
CB - Clevis Bails do not require splicing and provide moveable attachments to rings, deck fittings, furlers, rolling furlers, etc. Ideal for many uses.

Every unit is pull tested and released under several different load conditions before shipping.





12"-304.8mm-

SHACKLE TYPE	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)	THICKNESS in (mm)	WEIGHT oz (kg)	WORK LOAD lb (kg)	BREAKING STRENGTH lb (kg)	RECOMMENDED APPLICATIONS
T50 SB	2 (50.8)	1.875(47.6)	2.063(52.4)	1.98 (50.3)	10.63 (270)	1.25 (31.7)	112.3 (3.13)	25,000 (11,364)	50,000 (22,727)	100' + Maxi Boats
T50 LB	2 (50.8)	1.875(47.6)	3.188(81)	3.24 (82.3)	12 (304.8)	1.25 (31.7)	152.7 (4.32)	25,000 (11,364)	50,000 (22,727)	100' + Maxi Boats
T50 CB	2 (50.8)	1.875(47.6)	2.17(55.1)	1.83 (46.5)	11.3 (287)	1.28 (32.5)	145.2 (4.12)	25,000 (11,364)	50,000 (22,727)	100' + Maxi Boats



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SB - Standard Bails provide ample room for attaching a line while keeping weight and overall shackle length to a minimum. Ideal for halyards and sheets.
LB - Large Bails provide room for up to three additional shackles or a combination of shackles and lines. Ideal for spinnaker sheets, guys or other multi-line applications.
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Loose Bails

Individual bails available for use as standoffs, termination fittings or in special rigging applications. All sizes and configurations available for special rigging applications





INDIVIDUAL LINKED BAILS

SWIVEL TYPE	A in (mm)	B in (mm)	WORK LOAD lb (kg)	BREAKING STRENGTH lb (kg)
T5 SB	.398 (10.1)	.625(15.9)	2,500 (1,136)	5,000 (2,273)
T5 LB	.398 (10.1)	.712 (18.1)	2,500 (1,136)	5,000 (2,273)
T5 CB	.398 (10.1)	.625(15.9)	2,500 (1,136)	5,000 (2,273)
T8 SB	.398 (10.1)	.685 (17.4)	4,000 (1,818)	8,000 (3,636)
T8 LB	.398 (10.1)	.838 (21.3)	4,000 (1,818)	8,000 (3,636)
T8 CB	.398 (10.1)	.685(17.4)	4,000 (1,818)	8,000 (3,636)
T12 SB	.476 (12.1)	.889 (22.6)	6,000 (2,727)	12,000 (5,455)
T12 LB	.476 (12.1)	.974 (24.7)	6,000 (2,727)	12,000 (5,455)
T12 CB	.476 (12.1)	.889 (22.6)	6,000 (2,727)	12,000 (5,455)
T20 SB	.638 (16.2)	1.074 (27.3)	10,000 (4,545)	20,000 (9,091)
T20 LB	.638 (16.2)	1.215 (30.9)	10,000 (4,545)	20,000 (9,091)
T20 CB	.638 (16.2)	1.074 (27.3)	10,000 (4,545)	20,000 (9,091)
T30 SB	.795 (20.2)	1.460 (37.1)	15,000 (6,818)	30,000 (13,630)
T30 LB	.795 (20.2)	1.560 (39.6)	15,000 (6,818)	30,000 (13,630)
T30 CB	.795 (20.2)	1.460 (37.1)	15,000 (6,818)	30,000 (13,630)
T40 SB	.960 (24.4)	1.671 (42.4)	20,000 (9,091)	40,000 (18,182)
T40 LB	.960 (24.4)	2.083 (52.9)	20,000 (9,091)	40,000 (18,182)
T40 CB	.960 (24.4)	1.671 (42.4)	20,000 (9,091)	40,000 (18,182)
T50 SB	1.200 (30.5)	2.433 (61.8)	25,000 (11,364)	50,000 (22,727)
T50 LB	1.200 (30.5)	3.472 (88.2)	25,000 (11,364)	50,000 (22,727)
T50 CB	1.200 (30.5)	2.433 (61.8)	25,000 (11,364)	50,000 (22,727)



SB - Standard Bails LB - Large Bails CB - Clevis Bails

105″ 23.01mm

> 1.187″ 3015mm

> > 3.72"

94.46mm

0.75

19.05m

Actual Size

The new Tylaska LP series pull pin shackle is Tylaska's solution to the age old problem of pull-pin shackles that flog open. Tylaska's patented design integrates a simple locking mechanism that allows the pull-pin to be secured captive. Once the shackle is attached, the pull pin can be twisted a half turn and locked in place so that it doesn't open from snagging or flogging. The LP shackle has the same basic profile and size as other existing pull-pin shackles to allow for direct replacement. The LP 12 is the first in a line of subsequent locking pull pin shackles of larger and smaller dimensions to be made by Tylaska.

P12

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The new MP2 is now the smallest shackle Tylaska produces. Weighing less than 0.5 oz (14 grams), the MP2 has a breaking strength of 2,000 lbs, and a working strength of 1,000 lbs. The MP2 has a fixed bail loop integrated into the body of the shackle for easy attachment to a line or webbing. Ideal for dingy racing or light air conditions.



0.625" 15.87mm

SHACKLE TYPE	A in (mm)	B in (mm)	C in (mm)	D in (mm)	E in (mm)		WEIGHT oz (gm)	WORK LOAD lb (kg)	BREAKING STRENGTH lb (kg)
LP12	1.05 (23.0)	1.187(30.15)	0.75(19.05)	0.625 (15.87)	3.72 (94.46)	0.563 (14.3)	4.5 (127)	6,000 (2,727)	12,000 (5,455)
MP2	0.437 (11.1)	0.563(14.3)	0.313(7.94)	0.28 (7.14)	1.375 (34.9)	0.275 (6.99)	0.5 (14)	1,000 (454)	2,000 (909)





Pull-pin in locked position

Lift and rotate pull-pin ninety degrees

Lift pull-pin until locking

Locking pir

pin clears case

Rotate pull-pin ninety degrees to allow locking pin to snap into divits

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Shackles

nked Shackles WELDED RING VERSION

Tylaska shackles are also available as a stock item joined together at the bails. This arrangement is ideal for temporarily holding the guy during a running spinnaker change or "peel" as it is sometimes called. Two Tylaska trigger shackles are then fitted to the linked bail to produce a "peeling strop" or "handcuffs" as they are often nicknamed. Other configurations available upon request including welded ring versions and individual linked bails.

STANDARD VERSION

Trip with Lanyard

SHACKLE TYPE	Т5	Т8	T12	T20	Т30
WEIGHT oz (gm)	4.5 (119)	7.3 (193)	11.7 (318)	23.8 (676)	52.9 (1,273)
WORK LOAD lb (kg)	2,500 (1,136)	4,000 (1,818)	6,000 (2,727)	10,000 (4,545)	15,000 (6,818)
BREAKING STRENGTH lb (kg)	5,000 (2,273)	8,000 (3,636)	12,000 (5,455)	20,000 (9,091)	30,000 (13,636)

TACK SHACK

Revolutionary new design actually sews into the tack of a jib in place of a sail ring! Much easier to install than normal snap shackles without the need for extensive lashing. Mounting lugs formed into sides of shackle allow it to be easily sewn into sail tack, firmly securing shackle to sail to prevent shifting and twisting that occurs with regular shackles. Standard 1" webbing fits snugly into rounded aaka Kup lugs to prevent chafing. Releasable under load. Lanyard line or webbing can be looped through trigger hole for "stoop free" easy release.



SHACKLE ITTE	NOA Sew III
A in (mm)	¹¹ ⁄16 (17.5)
B in (mm)	²¹ ⁄32 (16.7)
C in (mm)	¹³ ⁄16 (20.6)
D in (mm)	2 ¹¹ ⁄16 (68.3)
E in (mm)	21/8 (73)
WEIGHT oz (gm)	3.6 (94)
WORK LOAD lb (kg)	4,000 (1,818
BREAKING STRENGTH lb (kg)	8,000 (3,636

CUACKIE TYPE

Actual Size Patent 5,904,112

VOA Courle

- Easy to Install
- One Hand Operation
- Releasable Under Load • 8,000 lb Break Strength
- Fits Standard 1" Webbing

• Stays in Place without Shifting

03/



PRESS LOCK

As an alternative to Tylaska's J-Lock style shackle, the press lock serves the same purpose with a different design. Two opposing triggers are pressed to open the shackle. Both opposing triggers must be pressed at the same time to open the shackle which safeguards against accidental opening during flogging. Investment cast and then hipped in aerospace 17-4PH stainless, the Press Lock Junior and Senior are held to the same high standards as our snap shackles. Designed to be strong and light, yet provide easy use in those tight mark roundings, they have proven to be up to the task. Their opposing trigger mechanism is ideal for sheets and other applications requiring a fitting small enough to pass through the lead cars to make re-leading a sheet easier. They are also used for halyards, outhauls and lead changers.







The Press Lock Junior is perfect for boats 24 to 40 feet LOA and has been seen widely on the Farr 40s. The Press Lock Senior also is a tried and true veteran. Commonly found on America's Cup boats and maxi boats, these have stood the test of time. These shackles can cover boats from 40 to 80 feet LOA.

PRESS LOCK	A in	B in	C in	WEIGHT oz	WORK LOAD	BREAKING STRENGTH	MAX LINE SIZE
Press Lock Jr	1.250	1.000	2.312	2.3	4,650	9,300 lb	3/8″
Press Lock Sr	1.250	1.375	2.750	5.8	10,000	20,000 lb	5/8″

Tylaska has revived the old and proven trigger release snap shackle from races of the past. New molds, closer tolerances and some needed design modifications have allowed the #6 to breath new life and once again sail with the best. Now called the Tylaska SP6, this is the same shackle that has had its place in every major yachting event since its creation. This light, strong and reliable shackle has been the solution on boats up to 50 ft. Made from the same durable 17-4PH stainless as before, the castings are now hipped to create a finished part similar to a forging in strength and metal consistency.



Tylaska has also revived the old #10 snap shackle and has renamed the time proven design the Tylaska SP10. From the windy waters off Sardina to the rough and trying seas for 12-Meters off of Freemantle, the #10 has been there. This shackle has been the workhorse of most major races for decades. Made from investment cast and hipped 17-4PH stainless and suitable for boats 50' to 100'.

SP10



The Tylaska SP15 Snap Shackles was driven by lower-stretch materials, in particular the loads generated by code Zero headsails. This product serves as a dependable solution to larger cruising boats in the 100'+ range.

YLASKA SO3

SP15- Actual Size



SHACKLE TYPE	A in	B in	C in	WEIGHT oz (lb)	WORK LOAD	BREAKING STRENGTH
SP6	0.625	0.688	4.125	5.5 (0.34)	6,000	12,000 lb
SP10	0.875	0.875	5.000	11.4 (0.64)	10,000	20,000 lb
SP15	1.500	1.060	6.000	21.4 (1.33)	15,000	30,000 lb

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Tylaska has made a new retrofit shackle to serve as a replacement for the old plunger style Sparcraft shackle. The Tylaska shackle follows the same basic profile dimensions of the classic Sparcraft shackle to allow for direct replacement, yet has been optimized with FEA to provide a slight increase in strength. The overall shackle is marginally longer so as to allow for a larger bail nut with a removable cross pin. This removable nut allows the option of using the shackle-head on specialized equipment. The hook pin has been improved using Tylaska's double cylinder design. Tylaska's double cylinder design is much less prone to falling apart under high wear use.

> The Tylaska SS10 Snap Shackle comes in the standard bail configuration and is a high strength positive locking plunger pin shackle. It is designed for those applications not requiring it to be released under load.

> > Actual Size

The Tylaska SS20 Snap Shackle is a larger high strength positive locking plunger pin shackle. It relies on a plunge pin for those applications that don't need the ability to be released under load. It has a breaking strength of 40,000 lbs., a working strength of 20,000 lbs. and comes in the standard bail configuration.

SHACKLE TYPE	A in	B in	C in	WEIGHT oz (lb)	WORK LOAD	BREAKING STRENGTH
SS10	0.80	1.01	4.50	25 (1.56)	10,000	20,000 lb
SS20	1.10	1.375	6.125	37 (2.25)	20,000	40,000 lb
SS40	1.75	2.17	9.67	142 (8.90)	40,000	80,000 lb

C	

The Tylaska SS40 Snap Shackle is the highest-load shackle in our line with a working strength of 40,000 pounds (18,181 kg) and a breaking strength of 80,000 pounds (36,364 kg). It relies on a massive plunger pin for those applications that don't need the ability to be released under load.



TYLASKA SHINE

Tylaska Marine Hardware has introduced a polish to easily remove rust stains from stainless steel. TYLASKA SHINE has been formulated to clean, polish, and protect stainless steel in just one application using very little paste and a soft cloth. TYLASKA SHINE is non-toxic, non-abrasive, and non-flammable. It works very well and has no bad odors. Remember, a little goes a long way.

Actual Size

These hi-tech fids are machined from solid aircraft 6061-T6 aluminum and knurled for a more secure grip. Available in three sizes and anodized in a choice of either blue or red. Front taper fits all Tylaska shackles and most other brands. Rear thru hole allows easy attachment of a lanyard or wrist leash. An indispensable tool for fast, safe release of lines under heavy load.

T50 FID

T20-T30 FID

T5-T12 FID TAPPERED



20



Fids Shown

Actual Size

New plug fids allow for remote release of trigger shackles. The fid is pushed into the trigger hole and the tapered rear of the fid allows the trigger to snap closed again and hold the fid in place. A lanyard can then be placed in either of two locations depending upon the desired location of remote release. For side release, the lanyard is attached to the blunt end and can be pulled out either by hand or by winch. For rear release, the lanyard is attached to the tapered end and pulled from behind. The fid pries upon the trigger and stays captive with the shackle. Can also be used with no lanyard and operated as a 'handle' for convenient release. The plug fid is ideal for avoiding the need to crawl out into risky locations or for single-handed or night sailing.



As the plug fid is pulled, the taper pries the trigger open. Great remote side release.





Trigger is pried open, shackle is released, and fid remains captive



Fids Shown Actual Size

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TYLASKA MARINE MYSTIC, CT USA

EYELET SNAP

PATENT PENDING

Back or Eyelet Snap Side

T20

T12

T8

The Ultimate Installation Tool for Sailmakers and Canvas Shops

The Tylaska die makes easy work of installing turn button type fasteners. The precisely-spaced dual cavities allow two buttons or eyelets to be set at once. This eliminates the uneven or creased settings caused by setting each button or eyelet individually as with a standard single cavity die. Even when setting only one button or eyelet, the heavy weight and wide profile of the Tylaska die prevents it from continuously tipping over. Plus, unlike dies made of soft aluminum, the Tylaska die is made from 4140 chrome-moly steel and is virtually indestructible. It will most likely be the last die you will ever need.

LCAVITY

TYLASKA MARINE

MYSTIC, CT USA

BUTTON SNAP PATENT PENDING

Front or Button Snap Side

CONE FIDS

The cone fid allows for remote release of the Tylaska trigger shackles. A lanyard is placed thru the center hole. The double cone fids come with a retaining screw to lock the lanyard in place. The single cone fids have a recessed area to accommodate a knot.

Both fids hang from the trigger area. When the lanyard is pulled, the fids engage the trigger, releasing the shackle. The double cone fid is designed to go thru the trigger area & separate from the shackle. The single cone fid is designed to stay in the trigger area & remain with the shackle. These fids are ideal for avoiding the need to crawl out into risky locations, for single handed or night sailing.

	Length	Hole Diameter	Line Size	
Double Cone Fid 8		0.202″	3/16"	
Double Cone Fid 12		0.242″	15/64"	
Double Cone Fid 20		0.238″	15/16"	
Single Cone Fid 5	0.93″	0.205″	3/16"	
Single Cone Fid 8	1.35″	0.248″	15/64"	
Single Cone Fid 12	1.75″	0.28″	1/4″	
Single Cone Fid 20	2.22″	0.307″	5/16"	







photos by Annapolis Performance Sailing

REACHING STRUT INBOARD END

RSIB – This item consists of two cast alloy bases to be mounted on both sides of the mast, and one toggle assembly with a quick release pin. This allows the pins to be removed and to jibe the fitting to the other side.

REACHING STRUT OUTBOARD END

RSOB – These cast alloy bodies with high-quality delrin sheaves are designed to handle the high-compression loads from a spinnaker afterguy. This one size fitting fits yachts from 30 to 80 feet LOA. Custom machined versions are available on a quotation basis. Standard diameter is 2.75 inches (70mm)"

SPINNAKER POLE PINS & TOGGLES

These bayonet pins are used to attach the spinnaker pole to the mast. The pin inserts into the Grand Prix and CR4 inboard ends. The pins are machined of high strength 17-4 PH stainless steel, and the toggles are investment cast of the same high strength material.

The toggles are available in 1/2" and 5/8". Custom hole sizes are available for the vertical pin. Commonly used for Harken cars and others, these pins are seen on yachts from 30 to 180 feet LOA.



Bayonet Stud Pin	BTA
Stainless Toggle – bushed to 1/2"	T-1/2
Stainless Toggle – bushed to 5/8"	T-5/8
Bayonet Toggle Assembly w/1/2" Clevis	BTA-1/2
Bayonet Toggle Assembly w/5/8" Clevis	BTA-5/8
Aluminum Stud Pin	ASP

65

Item #

Inboard-Grandprix 3 & 4

To handle the highest compression loads, Tylaska Hardware offers a machined inboard spinnaker pole end – the Grand Prix. Machined of high strength aluminum alloy with a stainless steel load bearing collar and pin, these fittings meet the highest demands. The fitting interiors are hollowed out to further reduce weight. They have the beauty of hard coat anodized black for our customers where aesthetics is of high importance. Recent refinements lowered the pin's profile to avoid snagging the jib sheets during tacks.

Offered in 3" and 4" sizes. Custom machine diameters are also available. This fitting can provide the solution for yachts from 30 to 80 feet LOA.

	А	В
Grandprix 3	2.75″	2.835″
Grandprix 4	2.75″	3.800″
CR4 (Stubbie 4.0)	3.20″	3.800″
CR4.5 (Stubbie 4.5)	3.20″	4.300″



Inboard-Stubbie

The CR4 – affectionately known as the "stubbie" inboard end – is cast aluminum with hard coat anodizing and a stainless steel pin. This fitting is available for 4" pole fittings and, like the Intrepid II. Custom adapters or sizes are available; provide dimensions and Tylaska Hardware will provide a quote to suit. This fitting is found on boats from 30 to 80 feet LOA.

Outboard Intrepid II

Tylaska has revived the proven and very durable Intrepid II spinnaker pole ends. Molds have been reworked, tolerances brought back to specs and problems repaired to make the Intrepid II pole ends even better than the original.

This fitting's life began as a design for the 12-Meter Intrepid. This simple and efficient design has under-gone refinements and is still competing at the highest levels. It is the standard pole end for the IACC yachts. From maxi boats, 50 footers and the elegant Nautor's Swans, the Intrepid II has done the job. Its unique trigger and latch mechanism serves as a reliable trusted friend at the front of the boat.

Its A356 aluminum body and investment cast 17-4 PH components make the pole end very rugged and strong. All investment cast parts are then hipped at several thousand atmospheres of pressure to produce a casting similar in strength and consistency to a forging. Made for boats from 50 feet and up, Tylaska Hardware offers a base 4" diameter with custom adapters available. Contact Tylaska Hardware and we'll be happy to quote a price.







Intrepid II XD

Tylaska Marine Hardware is pleased to introduce the new Intrepid II XD and Grand Prix XD square pole ends designed for use with rectangular profile carbon fiber spinnaker poles. It has the same locking mechanism as the original but with a smaller and lighter aluminum body. The inboard end weighs only 24 oz versus 48 oz for the Grand Prix 4 or 32 oz for the Grand Prix 3. The outboard pole end weighs only 50 ounces versus 65 ounces for the original Intrepid II.



A

CLEVIS PIN Ball-Lock

INSERTION



Guide clevis pin into clevis with hand while applying pressure to front button with a fid, screw driver or any pointed object.



Once button is sufficiently depressed, the clevis pin will slip into place.



Once in place, the ballbearings will snap into a locked position and hold the clevis pin captive.



Tylaska Marine Hardware's new patented ball-lock clevis pins provide a direct replacement for standard clevis pins. Unlike traditional ball lock pins, the Tylaska ball lock clevis pin has no bulky handle and has a release button on both ends. This revolutionary pin eliminates the need for sharp cotter pins, bulky snap rings, and messy rigging tape, providing a smooth, snagfree connection that is easy to assemble and disassemble. The clevis pins are constructed out of a hardened and electro-polished 17-4 stainless steel alloy, which allows for comparable strength to standard 316 stainless steel clevis pins.

CLE

REMOVAL







Apply pressure to rear button on opposite end of clevis pin with a fid, screw driver or other pointed tool.

Push pin through until balls are released.

The pin will slip free.

Tylaska's ball-lock clevis pins utilize three ball bearings at the end of the pin to hold the clevis pin captive. In their at-rest state, the ball bearings are locked in a protruded position, holding the pin captive in the same way a cotter pin would. Depressing a button recessed in the head of the pin permits the ball bearings to drop into the pin, allowing the pin to be easily inserted into a clevis. A second button on the opposite end of the pin can be used in the same fashion for easy removal and allows the use of a hammer and punch to dislodge the pin if it is ever corroded or stuck. A standard fid or other spike can also be used to depress the buttons. The buttons use stiff springs to ensure that the pins will not easily dislodge themselves under heavy flogging or shock. The release buttons are also recessed to ensure that the pins resist accidental release when bumped or struck by other objects.

Available in a variety of standard sizes, these clevis pins are completely interchangeable with standard clevis pins. They are ideal for any clevis pin application where snap rings and cotter pins pose a hazard to crew and equipment and where quick removal may be necessary.

	Nominal Diameter	Grip Length	A in (mm)	B in (mm)	C in (mm)	D in (mm)	Part Number
	5/16"	9/16″	0.563 (14.3)	0.821 (21.1)		0.311 (7.9)	BL313-563
		11/16″	0.688 (17.5)	0.946 (24.3)			BL313-688
		3/4"	0.75 (19.1)	1.008 (25.9)	0.432 (11.0)		BL313-750
A		1"	1.00 (25.4)	1.258 (32.2)			BL313-1000
		1 1/4"	1.25 (31.8)	1.508 (38.6)			BL313-1250
C		5/8″	0.625 (15.9)	0.904 (23.0)		0.373 (9.5)	BL375-625
	3/8″	13/16″	0.813 (20.7)	1.092 (27.7)			BL375-813
		1″	1.00 (25.4)	1.279 (32.5)	0.495 (12.6)		BL375-1000
Don't see the pin		1 1/4"	1.25 (31.8)	1.529 (38.8)			BL375-1250
size you need listed?		1 1/2"	1.50 (38.1)	1.779 (45.2)			BL375-1500
Call or check our	1/2"	3/4″	0.75 (19.1)	1.127 (28.6)		0.497 (12.6)	BL500-750
website to inquire about other standard imperial, metric or custom sizes.		1″	1.00 (25.4)	1.377 (35.0)	0.620 (15.7)		BL500-1000
		1 1/4"	1.25 (31.8)	1.627 (41.3)	0.620 (15.7)		BL500-1250
		1 1/2"	1.50 (31.8)	1.877 (47.7)			BL500-1500
	5/8″	1″	1.00 (25.4)	1.441 (36.6)		0.622 (15.8)	BL625-1000
		1 1/4"	1.25 (31.8)	1.691 (43.0)	0.745 (10.0)		BL625-1250
		1 1/2"	1.50 (38.1)	1.941 (49.3)	0.745 (18.9)		BL625-1500
		1 3/4"	1.75 (44.5)	2.191 (55.7)			BL625-1750

SPOOL Shackles

This revolutionary, patented, shackle from Tylaska replaces the age-old knot! Unlike a conventional knot, the Tylaska Spool Shackle™ will not jam up and remains easy to fasten and unfasten even after loading up to the tensile strength of the line.

The S-Series Tylaska Spool Shackle™ is machined from high-strength aluminum. The P4 version of the Tylaska Spool Shackle™ is made of high-impact polycarbonate. Both versions have an exceptional strength-to-weight ratio. The key is that the line itself supplies the strength while the shackle simply redirects the force. The ease of unfastening after loading is equally amazing. Based upon the concept of "breaking the back" of a bowline knot, the line can be rolled back and taken off even after it becomes "stiff as a wire" from tension.

The Tylaska Spool Shackle[™] works with both conventional and hi-tech lines. All that is needed is a looped end. This can be a pre-spliced loop, yet-to-be spliced loop, or simply an overhand knot loop. A retaining pin allows for the shackle to be removed or transferred to other lines. An optional "O" ring slides over the line to provide a secondary "lock" against loosening during the most severe flogging situations.

- Ideal for Halyards, Genoa Sheets, etc.
- Tremendous Strength
- Flog-Proof

S3

S5

S8

- Easy to Fasten and Unfasten
- Will Not Jam Up









All Spool Shackles Shown Actual Size

Patent Pending





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Shackles

FIXED THIMBLE STYLE

Tylaska's halyard shackles have the highest strength-to-weight ratio of any existing halyard shackle on the market. A captive 17-4PH stainless pin makes for trouble-free operation. The all-metal machined line thimble allows for use as a 2-1 purchase without the wear or melting that occurs with plastic molded thimbles. Lines can also be permanently spliced for a fixed halyard. WORK LOAD 2,500 lb (1,136 kg) BREAKING STRENGTH 5,000 lb (2,273 kg) WEIGHT 1.4 oz (36.9 gm) LINE SIZE ⁵/16" (8 mm)

H8

ASKA

LASKA

ASKA

- J

H5

WORK LOAD 4,000 lb (1,818 kg) BREAKING STRENGTH 8,000 lb (3,636 kg) WEIGHT 3,1 oz (87.7 gm) LINE SIZE ³/8"- ¹/2" (10-12 mm)

H12

WORK LOAD 6,000 lb (2,727 kg) BREAKING STRENGTH 12,000 lb (5,455 kg) WEIGHT 4.8 oz (127.8 gm) LINE SIZE ⁷/16"- ¹/2" (12 mm)

-D

G

WORK LOAD 10,000 lb (4,545 kg) BREAKING STRENGTH 20,000 lb (9,091 kg) WEIGHT 10.6 oz (272.7 gm) LINE SIZE ¹/2" - ⁵/8" (16 mm)

31

All Halyard Shackles Shown Actual Size

SHACKLE TYPE - in (mm)	H5	H8	H12	H20	2:1 H5	2:1 H8	2:1 H12	2:1 H20
A - OVERALL LENGTH	2.57 (65.3)	3.15 (80.0)	3.76 (76.2)	4.84 (122.9)	2.93 (74.4)	3.32 (84.3)	4.08 (103.6)	5.25 (133.4)
B - OVERALL WIDTH	1 (25.4)	1.315 (33.4)	1.505 (38.2)	1.833 (46.5)	1 (25.4)	1.315 (33.4)	1.505 (38.2)	1.833 (46.5)
C - EAR THICKNESS	.183 (4.6)	.281 (7.1)	.313 (8)	.416 (10.6)	.183 (4.6)	.281 (7.1)	.313 (8)	.416 (10.6)
D - OVERALL THROAT LENGTH	1.40 (35.6)	1.50 (38.1)	2.00 (50.8)	2.50 (63.5)	1.40 (35.6)	1.50 (38.1)	2.00 (50.8)	2.50 (63.5)
E - EFFECTIVE THROAT LENGTH	.91 (23.1)	.85 (21.6)	1.20 (30.5)	1.44 (36.6)	.91 (23.1)	.85 (21.6)	1.20 (30.5)	1.44 (36.6)
F - INSIDE THROAT WIDTH	.64 (16.1)	.76 (19.3)	.88 (22.4)	1 (25.4)	.64 (16.1)	.76 (19.3)	.88 (22.4)	1 (25.4)
G - THIMBLE GROOVE WIDTH	.375 (9.5)	.56 (14.2)	.563 (14.3)	.75 (19.1)	.51 (13.0)	.63 (16.0)	.72 (18.3)	.88 (22.4)
H - OVERALL EAR HEIGHT	.75 (19.1)	1.00 (25.4)	1.19 (30.1)	1.58 (40.1)	.75 (19.1)	1.00 (25.4)	1.19 (30.1)	1.58 (40.1)
I - OVERALL THIMBLE HEIGHT	.75 (19.1)	1.06 (26.9)	1.125 (28.6)	1.499 (38.1)	.99 (25.1)	1.24 (31.5)	1.44 (36.6)	1.80 (45.7)
J - PIN MINIMUM DIAMETER	.26 (6.6)	.32 (8.1)	.375 (9.5)	.5 (12.7)	.26 (6.6)	.32 (8.1)	.375 (9.5)	.5 (12.7)

Pai

TRUE 2:1 SHEAVED SHACKLES

Using a high strength composite sleave bearing, Tylaska has created true 2-1 halyard shackles capable of handling the full rated load of the shackle. The size was made to fit standard sail headboards without adding any unnecessary weight. Strength was optimized by computer and then verified by numerous "make and break" destructive tests.

2:1 H5

WORK LOAD 2,500lb (1,136kg) BREAKING STRENGTH 5,000lb (2,273kg) WEIGHT 2.3 oz (65.2 gm) LINE SIZE 7/16" (10 mm) Shackles 2:1

2:1 H8

WORK LOAD 4,000 lb (1,818 kg) BREAKING STRENGTH 8,000 lb (3,636 kg) WEIGHT 3.9 oz (110.6 gm) LINE SIZE ⁹/16" (14 mm)

2:1 H12

WORK LOAD 6,000 lb (2,727 kg) BREAKING STRENGTH 12,000 lb (5,455 kg) WEIGHT 6.3 oz (178.6 gm) LINE SIZE ⁵/8" (16 mm)

2:1 H20

WORK LOAD 10,000 lb (4,545 kg) BREAKING STRENGTH 20,000 lb (9,091 kg) WEIGHT 13.3 oz (377.0 gm) LINE SIZE ⁷/8" (22 mm)

2-1 arrangement provides tighter halyard tension 90° 2:1 Halyard Split 2:1 Halyard

Tylaska MARINE HARDWARE DIVISION OF VECTOR ENGINEERING, INC.

BREITLING

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