



Spars, Rigging, and Hardware for Sailboats

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Isomat Spinnaker Cars

All Isomat NG Mast Sections feature an integral Spinnaker Track (approximately 3 1/8" wide) extruded into the forward side. Isomat makes 2 different kinds of Spinnaker Cars to fit this track. Cars slide freely and are positioned on the track with the use of a line control system. Both Cars are aluminum and slide on plastic liners, which fit all NG Mast Sections*. Cars include SS shackle (towing bail) on each end for attachment of control lines. Most Masts will have one side of this track cut out (approximately 5" long) near the deck, to allow for mounting the car without unstepping the mast. If this cutout is not there you will have to cut it, or unstep the mast to install these Spinnaker Cars.

* **The Isomat [NG-105 Mast Section](#)** is the largest of this type and has maximum outside dimensions of 11" x 7 3/8" (283mm x 182mm). Cars to fit **some [NG-105](#)** sections require special liners ([NGA-52-105](#)). As the 2 different NG-105 Mast Sections are difficult to distinguish in the field, Orders for Spinnaker Cars for NG-105 Mast Sections are shipped with both sets of liners, credit will be issued for one set of liners upon return.

If in doubt about which Mast Section you have, See [Isomat Mast Specifications & Components](#). See also: [Isomat Spinnaker Cranes](#), [Spinnaker Halyard Blocks](#), [Spinnaker Poles & Parts](#), and **Other** (non-Isomat) [Spinnaker Cars](#).

Isomat Spinnaker Ring Car: NGA-50:

Isomat Spinnaker Ring Car for NG-105: NGA-50-105:

Heavy-duty Ring Car for use with spinnaker poles having standard piston or trigger, plunger ends. Aluminum Car has heavy 10mm SS ring with 1 1/2" ID cast right into it. Car length is 5 1/2" (without shackles). Includes towing shackles and liners to fit all Isomat NG Mast Sections. The [NGA-50-105](#) is identical to the [NGA-50](#), but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above. Please note that **Ring Cars are not designed for, or recommended for vertical pole stowage applications.**



NGA-50

Shackle only for Isomat Spinnaker Ring Car: NGA-50S:

Shackle only for Isomat Spinnaker Ring Car, [NGA-50](#), above.

Isomat Spinnaker Car Liners (pair): NGA-52:

Plastic Car Liners fit all Isomat Spinnaker Cars and all Isomat NG Mast Sections, *except some* of the NG-105. See [NG-105 notes](#), above. White molded plastic Liners are 4 5/8" long and come as a pair.



NGA-52

Isomat Spinnaker Car Liners for NG 105: NGA-52-105:

Plastic Car Liners fit all Isomat Spinnaker Cars and only **some** of the **NG 105*** Mast Sections. See [NG-105 notes](#), above. White molded plastic Liners are 4 5/8" long and come as a pair.

Isomat Spinnaker Toggle Car: NGA-51:***Isomat Spinnaker Toggle Car for NG-105: NGA-51-105:***

Spinnaker Toggle Car features 10mm (3/8") vertical pin with clearance for Toggles up to 1 9/16" high. Car accommodates a variety of toggles from others, for use with various pin and bell-type inboard pole ends. Car length is 5 1/2" (without shackles). Includes towing shackles and liners to fit all Isomat **NG** Mast Sections. The **NGA-51-105** is identical to the **NGA-51**, but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above.



NGA-51

Isomat Spinnaker Car - Casting only - 10mm: NGA-51C:

Spinnaker Car Casting only with 10mm hole for Toggle Pin. Casting only as used in **NGA-51**, above.

10mm Pin only for Isomat Spinnaker Toggle Car: NGA-51P:

10mm Pin only as used with standard Isomat Spinnaker Toggle Cars, **NGA-51** series. Clevis Pin is 10mm diameter x 69mm grip length.

Shackle only for Isomat Spinnaker Toggle Car: NGA-51S:

Towing Shackle only for Isomat Spinnaker-Toggle Cars, **NGA-51** series.

Isomat Spinnaker Car Liners (pair): NGA-52:

Plastic Car Liners fit all Isomat Spinnaker Cars and all Isomat NG Mast Sections, *except some* of the NG-105. See [NG-105 notes](#), above. White molded plastic Liners are 4 5/8" long and come as a pair.



NGA-52

Isomat Spinnaker Car Liners for NG 105: NGA-52-105:

Plastic Car Liners fit all Isomat Spinnaker Cars and only **some** of the **NG 105*** Mast Sections. See [NG-105 notes](#), above. White molded plastic Liners are 4 5/8" long and come as a pair.

Isomat Spinnaker Car w/ FC Toggle: NGA-51-FC:***Isomat Spinnaker Car w/ FC Toggle for NG-105: NGA-51-FC-105:***

Spinnaker Car is as **NGA-51**, above, but incorporates heavy-duty FC type SS toggle on a 1/2" vertical bolt for use with larger piston

and trigger pole ends. The toggle is designed to reduce the undesirable twisting of the pole end that is unavoidable with ring cars, and features a delrin bushing on the cross pin to cushion the pole end and reduce noise. **FC Toggle** is 2 1/8" wide (inside), Car is 5 1/2" long (without shackles). Includes towing shackles and liners to fit all Isomat NG Mast Sections. The **NGA-51-FC-105** is identical to the **NGA-51-FC**, but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above.



NGA-51-FC

Isomat Spinnaker Car - Casting only - 1/2": NGA-51C-8:
Spinnaker Car Casting only with 1/2" hole for Toggle Pin.
Casting only as used in **NGA-51-TS**, and **NGA-51-FC** Cars, above.

FC Toggle Ass'y for Spinnaker Car: NGA-51-FCT:
Replacement FC Toggle Assembly as used in **NGA-51-FC**, above. Heavy-duty SS **FC Toggle** has 2 1/8" wide interior clearance for use with virtually all Piston and Trigger Spinnaker Pole Ends.

Isomat Spinnaker Car w/ TS Pin: NGA-51-TS:

Isomat Spinnaker Car w/ TS Pin for NG-105: NGA-51-TS-105:
Spinnaker Car is as **NGA-51**, above, but incorporates Forespar **TS Pin** with heavy-duty SS toggle on a 1/2" vertical bolt. TS Pin (1" OD x 3 5/8" long) fits all Forespar TS type Spinnaker Pole ends, See [Spinnaker Poles & Parts](#). Car is 5 1/2" long (without shackles). Includes towing shackles and liners to fit all Isomat NG Mast Sections. The **NGA-51-TS-105** is identical to the **NGA-51-TS**, but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above.



NGA-51-TS

Isomat Spinnaker Car - Casting only - 1/2": NGA-51C-8:
Spinnaker Car Casting only with 1/2" hole for Toggle Pin.
Casting only as used in **NGA-51-TS**, and **NGA-51-FC**, above.

Forespar TS Pin & Toggle Ass'y for Spinnaker Car: For TS-PT:
Replacement Forespar **TS Pin & Toggle** Assembly fits all Forespar TS type Spinnaker Pole ends, and Spinnaker Cars with a 1/2" vertical Pin and clearance for a 1" Toggle. Stainless Steel **TS Pin** is 1" OD x 3 5/8" long, SS Toggle is 1" high with hole for a 1/2" Pin, and is 2 3/4" between Pin centers.



For TS-PT

Isomat Spinnaker Car w/ Sparcraft Pin: NGA-51-SC:
Isomat Spinnaker Car w/ Sparcraft Pin for NG-105: NGA-51-SC-105:

Spinnaker Car is as **NGA-51**, above, but incorporates **Sparcraft Bayonet Pin** with heavy-duty SS toggle on a 1/2" vertical bolt. Sparcraft Bayonet Pin (7/8" OD x 4" long, beneath head) fits all Sparcraft Bayonet type Spinnaker Pole ends, See [Spinnaker Poles & Parts](#). Car is 5 1/2" long (without shackles). Includes towing shackles and liners to fit all Isomat NG Mast Sections. The **NGA-51-SC-105** is identical to the **NGA-51-SC**, but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above.

Isomat Spinnaker Car - Casting only - 1/2": NGA-51C-8:

Spinnaker Car Casting only with 1/2" hole for Toggle Pin.
Casting only as used in **NGA-51-TS**, and **NGA-51-FC**, above.

Sparcraft Pin & Toggle - 1/2" Pin: SPC 73-13PT-2:

Replacement Sparcraft Bayonet Pin & Toggle (Type 2)
Assembly fits all Sparcraft Bayonet type Spinnaker Pole ends, and Spinnaker Cars with a 1/2" vertical Pin and clearance for a 1" Toggle. Assembly includes Sparcraft Bayonet Pin, **SPC 73-13P**, and SS Toggle **SPC 73-12T2**.

Sparcraft Bayonet Pin only: SPC 73-13P:

Replacement Sparcraft Bayonet Pin only, fits all Sparcraft Bayonet type Spinnaker Pole ends. Stainless Steel Sparcraft Bayonet Pin is 7/8" OD x 4" long (beneath head), head is 9/16" thick with hole for 1/2" pin. Unit is (maximum) 5 3/4" long.



Isomat Spinnaker Car w/ Metric Small Bell: NGA-51-BS:

Isomat Spinnaker Car w/ Metric Small Bell for NG-105: NGA-51-BS-105:

Spinnaker Car is as **NGA-51**, above, but incorporates a **Small Barbarossa/Harken Bell** fitting with toggle. For use with spinnaker poles using appropriate Francespar or Barbarossa/Harken inboard ends. Please note that car must be mounted as pictured, with the Bell Trigger up. Otherwise Trigger will hit on Car and end will release before pole is parallel to mast. Bell fitting is 51mm (2") ID, and approximately 2 9/16" (66mm) OD. Includes towing shackles and liners to fit all Isomat NG Mast Sections. The **NGA-51-BS-105** is identical to the **NGA-51-BS**, but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above. See also, Replacement [Metric Bell Fittings](#).



Inboard Pole End to fit Metric Small Bell - 50mm: EFM-50-BS:

Inboard Pole End to fit Metric Small Bell - 60mm: EFM-60-BS:

Inboard Pole End to fit Metric Small Bell - 70mm: EFM-70-BS:

Inboard Pole End to fit Metric Small Bell - 80mm: EFM-80-BS:

Inboard Pole End to fit Metric **Small** Bell Fitting is available to fit Spinnaker Poles with 50, 60, 70, or 80mm Outside Diameter tube. Inboard End OD is approximately 1 3/4" (45mm). For details and related fittings, See [Spinnaker Poles & Parts](#).



EFM-60-BS

Isomat Spinnaker Car w/ Metric Large Bell Fitting: NGA-51-BL:
Isomat Spinnaker Car w/ Metric Large Bell for NG-105: NGA-51-BL-105:

Spinnaker Car is as *NGA-51*, above, but incorporates a **Large** Francespar or Barbarossa/Harken Bell fitting with toggle. For use with spinnaker poles using appropriate Francespar or Barbarossa/Harken inboard ends. Please note that car must be mounted as pictured, with the Bell Trigger up. Otherwise Trigger will hit on Car and end will release before pole is parallel to mast. Bell fitting is 66mm (2 9/16") ID, and approximately 3 1/4" (82mm) OD. Car length is 5 1/2" (without shackles). Includes towing shackles and liners to fit all Isomat NG Mast Sections. The *NGA-51-BL-105* is identical to the *NGA-51-BL*, but is shipped with two (2) sets of liners, to fit the 2 variations of the NG-105 Mast Section. Credit will be issued for one set of liners upon return. See [NG-105 notes](#), above. See also, Replacement [Metric Bell Fittings](#).



NGA-51BL

Inboard Pole End to fit Metric Large Bell - 70mm: EFM-70-BL:
Inboard Pole End to fit Metric Large Bell - 80mm: EFM-80-BL:
Inboard Pole End to fit Metric Large Bell - 100mm: EFM-100-BL:

Inboard Pole End to fit Metric Large Bell Fitting is available to fit Spinnaker Poles with 70, 80, or 100mm Outside Diameter tube. Inboard End OD is approximately 2 1/16" (52mm). Units are compatible with both Francespar and Barbarossa/Harken Bell fittings. For details and related fittings, See [Spinnaker Poles & Parts](#).



EFM-80-BL

Spinnaker Car Line Control Kits

All Isomat Spinnaker Cars require a Line Control system to hold the Car in position. A variety of Spinnaker Car Line Control Kits are listed below.

Spinnaker Car Line Control Kit - External: NGA-55E:

Spinnaker Car Line Control Kit for external control line is rigged with one cheekblock near the base of the mast, and one above the maximum desired car height. Single control line is attached to the shackle on the upper end of the car, runs through the upper cheekblock, down past 2 cleats (facing in opposite directions), through the lower cheekblock, and is tied off to the shackle on the bottom of the car. Kit includes 2 cheek blocks, 2 clam cleats, all fasteners, and a 3/8" Samson control line with an eye splice in one end, long enough to allow up to 14 feet of Car travel. Mounting requires drilling and tapping 12 holes.

**NGA-55E*****Spinnaker Car Line Control Kit - Internal: NGA-56I:***

Spinnaker Car Line Control Kit for internal control line is rigged with one exit block on the forward centerline near the base of the mast, and one above the maximum desired car height. Single control line is attached to the shackle on the upper end of the car, runs through the upper exit block, down inside the mast, through the lower exit block, and is tied off to the shackle on the bottom of the car. Two clam cleats mount above the lower exit block (facing in opposite directions) to lock car in position. Kit includes 2 exit blocks (*NGA-25*), 2 clam cleats, all fasteners, and a 3/8" Samson control line with an eye splice in one end, long enough to allow up to 14 feet of Car travel. Mounting requires cutting 2 slots for exit blocks, and drilling and tapping 8 holes.

**NGA-56I**

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