

# Breakaway's Norman Bickers explains how to make simple but effective rigs



As a tackle dealer for 40 years and an angler for nearly 50 years, I have been asked on countless occasions about the best beach casting rig to use. The answer is easy: anything that will reach the distance required, land on the sea bed and return to the beach in a tangle-free condition. Fish are not impressed by complicated rigs and will not ignore yours in the hope of finding something better further along the beach.

Quality bait presented in the right area is important. Fish always have preferred feeding areas depending on the food they are looking for - whether it's crabs, shrimps, bait fish or worms. All these food items collect in certain areas, so knowing what the target fish are, and

their preferred food source, should give you some idea where to cast. Fish are opportunists: food is food, and when you are hungry you don't turn down a meal. In Africa, my most productive bait has been foul-smelling squid.

Apart from catching fish it also makes sure I am not pestered by the locals. Fish are like people, and if they are hungry no decent meal is refused. With the smelly squid, the chances of finding the bait is greatly increased. Using baits with a strong scent trail on a strange beach often gives the angler an advantage.

I take a few trips to the Gulf of Mexico with Breakaway USA, where we spend hours searching for the right areas, which could be a part-covered wreck or a sand bar that produces disturbed water which confuses the bait fish. We look for bait fish being pushed to the surface by predators, which in turns attracts flocks of sea birds.

Rigs alone don't catch fish, but making a rig that casts well and presents the bait in the best possible condition is still important. How do we decide which rig to use? I make my rig bodies versatile. I don't carry a wallet full of the same rigs but with different hook sizes. If you make a rig body with adjustable crimps or stops, it is easy to add the right hook when you go fishing. I match the hook size to the bait and to the fish I expect to catch. And if I have got it all wrong, the adjustable crimps allow me to change the hook size or type in a few seconds. Another important factor is casting to the right areas. You don't want to cast three hooks into the teeth of a head wind. A single hook always casts furthest. A two-hook rig casts somewhere in between.

On an unknown beach I often set up three rigs: one hook, two hooks, and three hooks. I start by casting as hard as I can, in the same way that a golfer hits every club in his bag with the same force. It's not easy trying to control distances by using a softer cast or a softer golf swing. This is why golfers have a range of clubs. Each club hit with



Nigel Forrest (right), the designer responsible for many of Breakaway's innovative products.



Use constant casting power, and let the rigs control the distance.

maximum power reaches its own distance. Fishing rigs perform in a similar manner. When my rig catches fish, I can easily repeat the distance on the next cast.

Making rig bodies with adjustable crimps or sliding stop knots also gives me the option of changing cascade rigs from three hooks to two hooks, or even to one hook. It also gives me the option of changing the hook positions from three up, to two up and one down, and from clip-downs to flappers.

As I said earlier, I don't carry a large range of different rigs. We all have our favourites which normally come out of the wallet first. Just as a coarse match angler has his favourite float, or a fly fisherman his favourite fly, a sea angler starts the session with a favourite rig. What is the point of filling a wallet with rusting hooks on rigs that rarely see the light of day? My favourite rig is a cascade tied with an oval split ring at the top and a Fastlink at the bottom. I always use this combination, so when I pull out a rig I can easily tell the top from the bottom. I also tie a Fastlink to my leader in order to change rigs quickly. I have complete faith in the bottom Fastlink, which is safe, strong and also gives the choice of an Impact Lead, or an Imp with a regular Breakaway lead. Using adjustable crimps, I can easily adjust the trace to match either option. A Lead Lift can be added in a moment, should it be necessary.

We have tied on the Fastlink, so now we are ready to put on the bottom cascade. Although we are making the rig adjustable, I like the bottom hook length to be the shortest. In a tide, the lead grips the seabed and the hooks flow away from the lead, so a short snood lets me fish the bait closer to the lead. I also use this snood for my smallest hook because any disturbance around the lead attracts flatfish.

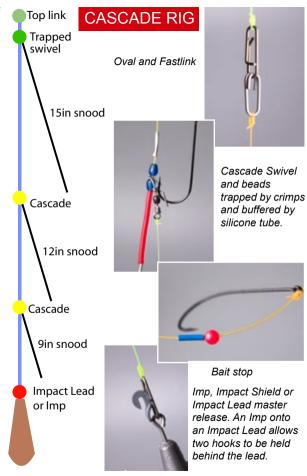
I normally make my bottom hook length about nine inches long. The next cascade needs to be about 12in above; the top swivel would normally be about 15in above the second. All these hooks will flow away from the lead and are unable to tangle with the hook above. There is no need to use a cascade at the top - a plain swivel will suffice. Finish the rig body by tying on the oval split ring. If you like to cast with a short drop, put the oval tight against the top swivel so that you don't need any other stops. If you cast with a long drop, make sure the oval is out of reach of the top hook. This

# Breakaway Rig Making Guide

will stop the "casting fairies" wrapping the trace around the oval. If this happens on the short snood it doesn't matter as much. All rigs should be tied using strong hard-wearing mono. I prefer 80lb clear Suffix for all rig bodies. I don't feel happy with bright fluorescent line, although I am sure fish are not put off. But I still prefer the stealthy approach. The stretch of the rig body during the power stroke of a cast must also be taken into account. If you are using sliding crimps, the bottom one will move down under pressure. This shows it's doing its job. Before the next cast, just push it up to the top crimp, which should not move. With fixed crimps, hook snoods of normal breaking strain will stretch during the cast thus keeping the strain on the Cascade or Imp to an acceptable level. For rigs with lighter bodies and heavy hook lengths (over 20lb) or wire, it's important to take the strain off the rig components either by using 2in of fine silicone tubing or Genie SRT springs under the Cascade Swivel.

A favourite variation is to tie a Cascade Swivel into the bottom hook length and to double the length of the trace. When released, the hook length may fish below the lead in slow tides, but in faster currents will flow back along the trace body and tangle with the other hooks. Don't let this put you off - many anglers swear by this rig as a match winner especially in slow tides. But bites are not always as quick and easy to detect as with a shorter hook length.

The cascade system was the original concept of Nigel Forrest. Because of their universal acceptance, master release clips have evolved into today's Breakaway clips that are used around the world. The Impact Shield and Impact Lead owe their existence to the original cascade rig. Their modern counterpart the Imp is one result of the gradual improvements that have taken place. Every





The principle behind cascade rigs is that each baited hook is held firmly for casting, then released cleanly by the hook below it.

All the snooded hooks are controlled by a master release clip, such as an Imp or an Impact Lead. Without the 100% certainly of instant release, cascades are useless.



cascade system relies on a 100% foolproof release. A bait clip that doesn't release, or relies on slack line that may or may not occur, is no good. Total faith in the system is a basic requirement. The only time I have a rig come back still clipped up is when I put the hook behind the line on an Impact Shield instead of in front of it. This can be put down to old age and failing eyesight, not to product malfunction.

The last important consideration is to use a bait stop. Even wound with elastic, a bait can and does move up the hook length causing line bites that are impossible to hit. Use a silicone-lined crimp or electrical crimp, or even a ledger stop with a sequin or bead in front. These will make a world of difference to your catch rate, and with adjustable stops any size bait can be accommodated. A quick fix is to squeeze on a split shot. It can be added during a fishing trip without taking off your hook. Split shot is the preferred choice of anglers after soles. The cascade is without doubt the preferred rig for match fishing when quantity takes preference over quality. With a variety of baits and distances, most fish can be caught using these rigs. But if I am pleasure fishing for quality fish, the most important rig is the single dropper rig with either a Pennell hook or wishbone. These rigs are easy to tie and popular with anglers around the world.

Once again I tie a Fastlink at the bottom and an oval at the top. The snood attachment needs only be a trapped swivel. Use moveable stops because you may need to bring the swivel down close to the lead, then take the trace line back up to the top of the rig body and into a snood release or an inverted Aeroclip. The master release can be an Impact Lead, Impact Shield or an Imp, any of which can be added at any time.

Different hook arrangements can be used with the same body. The most popular for big fish is the Pennell, which is two hooks one behind the other. I always tie the top hook with a whip-finish knot that grips the line but can still slide up or down depending on the size of baits I am using. This is especially good for whole squid baits because the squid is supported by the top hook and does not bunch onto the bottom hook. Not only does this look unnatural, but often

#### Breakaway Rig Making Guide

the hook point is masked. This simple rig with a 6ft trace attached to the rig body about 10in above the lead is a most effective design for boat fishing especially when fishing uptide. There are many ways of fishing long traces off this single swivel. One of our favourites is the tethered rig. Between the master release and the snood attachment we tie in a Relay Clip or a small hook with the point cut off. Then in the trace line we tie a small loop which goes over the clip. The hook is held tight into the master release. You can then make the rest of the trace as long as you wish.

Some anglers prefer a wishbone rig to a Pennell because of the chance that two fish will take the separate baits. A large fish will usually take both hooks anyway. To streamline this rig, both hooks can be put into a BB clip, or one into a Impact lead and the other into an Imp. To make the wishbone, fold 12in of line in half, and tie in an overhand knot. Then

tie a hook to each end. You can also vary the lengths especially if you are using the Impact Lead and Imp method.

The wishbone rig also lends itself to the tethered rig method as before. The other popular variation is the see-saw wishbone. The hook line is passed through the eye of a swivel, stops are put on to the hook line, then a hook tied to each end. The stops are fixed about 5in above the hooks, so that each hook can move until it hits the stop.

The big advantage of this range of rigs is that they can be used to catch quality fish. Normally we would use larger hook sizes and bigger baits, and so it's important that the hooks are used with a bait clip to achieve maximum distance if needed.

I hope you see how simple rig making can be. Two basic rig bodies allow about 20 variations – and that's without taking into account the different type or sizes of hooks. If we add to this range a pulley rig for rough ground fishing, and a bomber rig that takes two hooks down to an Impact Lead from a pair of trapped swivels and uses the lead's slipstream to boost

distance casting, you have just about every combination that you will ever need, But just in case you can always design a few of your own. To some anglers my approach might appear basic, but because it does what it says on the tin it's good enough for me. And if for some reason the fish don't fancy my rigs, they can go hungry.

Rig Kits - Instructions and components for making a range of rigs. Check http://www.breakaway-tackle.com for details. Also on the site: more information about our products and how to use them, plus fishing information.

Unstressed hook length

Stop

**Proper Pulley** 

Connecting the rig to the shock leader with a Proper Pulley instead of two plain swivels does away with all the problems associated with ordinary pulley rigs.



# **PULLEY RIG**

The small swivel above the hook is held by a hook-up on a soft crimp. This is crimped in two areas for security after you find the correct position. The swivel is freed when the Imp releases the baited hook.



Swivel held for casting by a hook-up as in Pic 2

Section of hook length under tension

Imp or Impact Lead (Pic 3) Bait clips such as the Imp minimise bait damage during the cast, boost distances and guarantee a clean release when the cast lands.



The pulley rig is designed to lift the sinker clear of snags on the retrieve. This used to be done with a pair of swivels to create a see-saw action within the rig so that the extra weight of a hooked fish pulls the lead up and away from the snags. Breakaway's Proper Pulley is far superior to plain swivels - stronger, more reliable and far smoother in operation. The system works even better with the addition of a Lead Lift.

An Impact Shield or Imp is essential for reaching maximum distance. Trapped just behind the lead, the bait sits in the slipstream thus reducing drag. For the bait clip to work properly on any pulley rig, the hook length must be precise. Too long and the baited hook falls out of the clip; too short, and all the casting stress is put on the clips, hooks and snoods. Non-stretch braids and wire hook lengths are a particular problem in this respect.

There are several ways to improve release control. For example, with the help of the hook-up (shown in Pic 2) and a normal size 6 swivel, any length of trace made from any material can be cast safely without putting any strain on the components.



### **Breakaway Lead Weights**



**Lead Lift** - Clips behind the lead and helps your rig to plane up and away from the seabed on retrieve.



The Original Breakaway Lead - the start of it all, as used around the world for 35 years by millions of anglers. Holds across the tide with the wires locked into the recesses by the nylon rollers while fishing. The wires fold back on the strike, making retrieval easier on tackle and fish. The original concept of the Breakaway Lead was the brainchild of Nigel Forrest and Ian Gillespie. Shape and performance have been updated over the years to keep up with the demands of serious angling. Awarded EMAP's Invention of the Century, and protected by Full British Patent. Also available as a long-tailed version, very popular on Europe's sandy beaches. We believe that the long-tail version may well hold better under these conditions. Colour coding: Green rollers 90g; Black 110g; Blue 130g; Yellow 150g; Red 170g; Green 190g and Black 200g.

Impact Breakaway Lead - the ultimate lead for today's match anglers. Aerodynamic design helps put your bait out to maximum distance. The wire formation keeps your baits out there - where the fish are. Uses the Impact Cone to release the hook from the integral bait clip when the lead hits the water. You can be sure that the bait will unclip properly. As the bait sinks through the water, the bait is held into the hook bend and does not slide up the trace. All good rigs should include a bait-stop just to be sure. Designed by Nigel Forrest and protected by Full British Patent and Copyright.

Colour coding: Blue top 125g; Yellow 150g; Red 170g and Green 200g.





NEW Non-toxic Weight
Will lead weights be banned
in Europe one day? If so,
our new non-toxic weight
is a viable replacement at
a reasonable cost. Besides,
some anglers may prefer
not to use lead anyway. The
first weight in the range is
100g. Designed by Nigel
Forrest and protected
by Full British Patent.



**Uptide Lead** - for fishing in fast water from boat or beach. **150g or 170g.** 

**Lead Adapter** - extra grip without more lead. Safe to cast. Can be used with spark plugs, etc.





flattie Lead - unwired for fishing over mud, etc. in slow tides for flounders and other fish tempted by a slow-moving bait. Settles in the mud rather than sinking too deeply. Hugs the bottom and slowly searches out the fish. Planes towards the surface on retrieve. FL150 (yellow top).

FL150 (yellow top). FL85 (black top).

### **Breakaway Lead Weights**

Soft-wired Lead
The latest lead in our range has soft fixed wires. It casts well and holds in strong tides.
Even with the smallest fish on it carries on fishing - increasing the chances of catching two or three fish. The

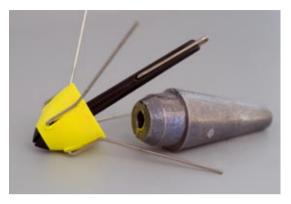
150g, 170g, 200g.

snagged.

wires will straighten if



#### Breakaway Ultra Leads



The Ultra Lead's modular construction breaks with tradition. Instead of moulding the anchor wires and tail loop into the lead body, Breakway's Nigel Forrest has perfected a modular system in which a rugged polymer stem plugs into a plain lead barrel. Using the new Ultra Sy-Stem mould, you can make the leads at home.





**Breakaway Ultra Lead (Patent)** - an updated sea fishing weight based on the conventional Breakaway design. Initially available in 150g and 170g, the Ultra lead comprises a virtually indestructable polymer nose cap, rotating stainless steel anchor wires, a rugged central stem with a metal tail loop, and a push-on lead body moulded in the shape of a streamlined barrel with a tapered bore.

The aggressive, fast-tapered shape means great casting performance plus better in-flight protection for baits. The short tail loop encourages foolproof operation with Imp and Impact Shield bait clips. Uprated anchor wires increase seabed anchorage - and for even more grip on shingle and grit the tips of the wires can be bent inwards a little.

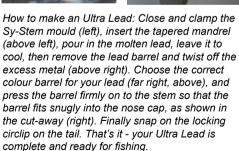
The nose recesses allow the wires' release pressure to be controlled over a wide range of tension to suit tides and fishing conditions. Release is clean and predictable even at the highest settings.

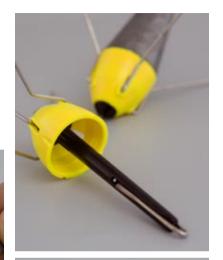
Colour coding: Yellow 150g; Red 170g.

Breakaway Ultra Sy-Stem Mould - developed and perfected by Nigel Forrest, the Sy-Stem mould quickly and easily produces 150g and 170g lead barrels for the Breakaway Ultra Lead. Compared with normal moulds, this is a huge step forward in DIY lead production. And there's more great news for fishermen around the world - the mould and Ultra polymer nose cap modules are far cheaper to ship than made-up leads. Each mould comes with ten nose caps. Spare caps available in red (170g) and yellow (150g).











#### Adjustable Crimp Kit





Crimp is tough, reliable and adjustable

Kit includes 20 metal sleeves, 20 soft rubber inserts and the special Breakaway Crimping Tool



The system is unique because it applies pressure along the length of the metal tube. Pressure can be set precisely, and the crimp will not damage the line beneath. Even crimped at maximum pressure, it can still be adjusted up or down the line

Breakaway Adjustable Crimps and Adjustable Crimp Kit - Metal crimps are so useful that fishermen have used them for years despite their drawbacks. Plain metal crimps are hard to adjust accurately. Too loose, they slip out of position. Nipped too hard, some may weaken the line.

Our metal crimps are lined with soft rubber to protect the line and to allow tension to be set so precisely that the crimp can be made fixed or sliding. They're easy to use: pull the rubber into the metal tube, trim off the excess rubber, slide into position on your trace, then crimp at the desired pressure with the Breakaway Crimp Tool. The crimp remains adjustable even at maximum tension, but it stays fixed while you're fishing.

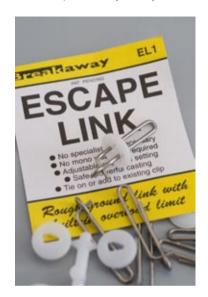
The crimping tool is unique because it applies pressure along the crimp (axially) not across (radially) as ordinary pliers and crimping tools do. This allows the pressure to be much more controllable over a wider range. In combination with Breakaway's own crimps, the tool ensures that the trace line will not be crushed and weakened.

Available as a complete kit. Extra crimps and sleeves sold separately.



**Proper Pulley** - At last, the answer to smoother, safer and more efficient pulley rigs (see page 7). The line runs freely through a tough slider which has a radiused internal block. Connection to the leader is by a rugged stainless steel Twinlink. When you hook a fish and the snood comes under pressure, the lead rises towards the Proper Pulley out of harm's way. **10 per pack.** 

**Escape Link** - the lead link that makes rotten bottoms obsolete. Locked down, the link allows safe, powerful casting. The safety catch comes off when the lead hits the sea, leaving the Escape Link set to disengage and release the lead if the rig becomes snagged. **6 per pack.** 





Breakaway Easy Slider - a long term favourite with beach and boat anglers alike. Most booms create a bend in the line which makes them "stick" under pressure. The Easy Slider has a wide, curved internal path for the line, creating much less friction. Wear on the line is minimal. Bite detection is better. And the boom works more smoothly when there's a fish on the line. Tackle up just as you would with an ordinary boom. The Easy Slider can be used with or without its plug-in extension. Made from durable low-friction material, the slider attaches to the lead using a rugged stainless steel clip. Supplied in packs of two.

# Rig Making Components

Round beads - most rigs use beads. either as shock absorbers to cover knots, or as stops for multi-hook cascades. Here are the most popular sizes on a handy wheel. Tip: it's easier to thread the bead before removing it from the wheel.

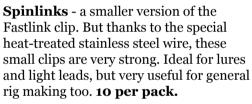


Twinlinks - for joining metal objects and for quick-change rig or lead clips. The best clip for Impact Leads and Lead Lifts. Useful for slide-down rigs and back leads for carp fishing. Stainless steel. Safe and strong.

10 per pack.



**Teardrop beads** - 96 beads made from shatterproof polycarbonate in two sizes. Large for Impact Shield release, running ledger buffers and heavy duty swivel rigs. Small for trapped swivels and cascade rigs. **Red, Blue, Green, Yellow, Clear or Black.** 





Oval Splits - tough, inexpensive split rings for the top and bottom of quick-change rigs. Safe for the most powerful of casters. Made from stainless steel.

10 per pack.



**The Imp** is a neat little bait clip that fits into a Fastlink, and can easily be added or removed from rigs whilst fishing. Since its introduction the Imp has found fame in the USA, Australia and South Africa, and because of this we have made it even stronger to cope with 50lb hook lengths and wire snoods. Imps were perfected by Nigel Forrest from an original idea by Nick Meyer of Breakaway USA, and are protected by a Full British Patent. Imps can be used alone, as the master clip for a cascade rig, or in combination with an Impact Lead. Imps are also protected by European Registered Design.

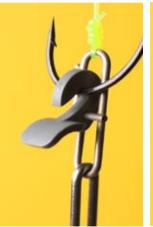


# Supplied in packs of 10 or 100.



#### How to use Imps:

Open the Fastlink wire slightly, and slide on the Imp clip (top right). The job is easier if the Fastlink is held open with a coin or similar Make sure that the Imp goes on the right way up. Adjust the hook snood length so the hook bend sits snugly within the Imp (near right) ready for casting. When the rig hits the sea, the Imp flips upwards and ejects the baited hook.





NOTE: The Fastlink itself can be used either way up. In some conditions it is better to use it with the outside leg downwards as then it won't pick up weed or hook into old tackle lost on the seabed.

# Rig Making Components



**Impact Shields** - Breakaway Impact Shields are one of the biggest advances in trace technology. It's a neat foolproof system which ensures almost 100% certainty of clean release. No more wondering whether the hook on the seabed is still trapped in the bait clip. The hook is thrown clear. It does not disengage by luck. You don't rely on leader slackness to disconnect the hook, as with ordinary wire or plastic clips. When set, the hook should be tight into the Shield. Use only enough rubber tube to stop the Impact Shield from slipping because of wind resistance. Designed by Nigel Forrest and protected by Full British Patent and Copyright.

Red or Black in packets of 4, 10 or 100.

#### **Fastlinks**

Very popular quickchange rig link or lead link. Safe and strong enough for the most powerful of casters. Add an Imp, and the Fastlink becomes a small streamlined bait clip or rotten bottom release.

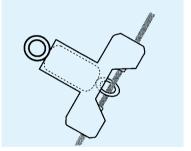
10 per packet.



More fishing & product information at http://www.breakaway-tackle.com



**Relay Clips** - the original clips for cascade rigs. Still popular with rig makers as intermediate bait clips and cascade clips. Use an Impact Shield or Impact Lead as the master release.

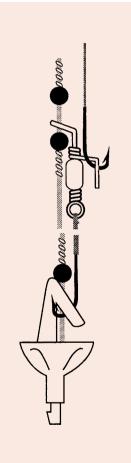


Swivel Tees - the modern 3-way swivels. Prevent snoods twisting and tangling. Crimp into place. 10 tees and swivels per pack. Clear or Grev.



Cascade Swivels - the most popular and sure way to make cascade rigs. Strong and easy to use. Just lock into position on the rig with teardrop beads and crimps. If necessary, nip the swivel eye a little to make sure it does not drop over very small beads and crimps. Often used in conjunction with an Impact Lead, Imp or Impact Shield master clip. When using very heavy hook lengths, tie rigs with sliding stop-knots or silicone-lined crimps. Or put a small piece of silicone tube under the cascade to allow for lack of stretch in the snood material.

Packets of 10 or 100.



#### How cascades work:

Each hook controls and releases the hook above it. In this example, which is a 2-hook rig, the bottom hook is secured by an Impact Shield. The Cascade Swivel at the top of the snood controls the upper hook. Both clips release automatically in a cascade.





Cascade Clips - an alternative to Cascade Swivels. Supplied as separate swivels and clips. Can be used as intermediates in dropdown bottom hook rigs.

Packets of 10 clips and swivels.

#### Cannons and Coasters



**Nylon Coasters** - these handy reel clips are non-corroding, super tough and fully adjustable. Will fit the largest diameter rod handles.



**Breakaway Cannon** - for accuracy and distance the most important element of your cast is to hold down the line until the power stroke is complete. This is not always easy, and can be painful without some mechanical device. Breakaway's Cannon, an original concept by Mr. Alfred Priestley, is mounted on the rod in line with the rod rings and as directly over the spool as the design of the rod handle, reel and fittings allow. Attach the Cannon with insulating tape, and adjust until you are happy with its position. Before you cast, check that the reel's clutch is tight. If big fish are expected, winding the leader three times around the Cannon allows you to cast with a light drag setting.

Breakaway Saddle Clamps - the most advanced coasters available. The contoured body gives more room to grip, plus protection for your fingers. The reel is held securely by the tough steel straps. When using coasters on shrink-tubed butts, put a piece of rubber - Whopper Dropper catapult elastic, for example - over the reel foot for excellent stability without overtightening the coasters. The rubber strip can be extended over the spool for thumb protection and firm control during the cast - perfect for casting heavy leads and for fishing in bad weather. Protected by Registered Design.

Four sizes: 25mm closes to 22mm; 27mm closes to 24mm; 30mm to 26mm; 33mm closes to 29mm.





Breakaway Seat Box Conversion - for years, anglers have stuggled along shingle beaches with boxes slung across one shoulder, either slipping and sliding or slowly strangling the owner. Once you have arrived at your peg, at best you have an uncomfortable seat to sit on. Breakaway's Backrest Conversion fits Shakespeare boxes. The smaller Beta box is best for most people, but the conversion fits the larger model as well. The bigger the box, the more you fill it and the heavier it gets. But those long walks will be a pleasure once you have fitted the carrying harness, which holds the box in the middle of your back and distributes the weight evenly, leaving your hands free to carry fish and tackle. The Breakaway conversion, awarded EMAP's Invention of the Year, is easy to fit and comes with full instructions and a template.

Accessory kit (left) - gives more room in your box. There's a lead tray with Impact Lead holders and clips for shock leader, etc. Reels are strapped out of the way under the box lid. The Cam Lock keeps your box closed when carrying - this item only fits if the backrest is used. (Leads, etc. not included.)







#### **Neoprene Reel Case**

- fits most CT-size reels. Keeps your reel clean and protects it from knocks. Velcro closure.

Breakway also supply a wide range of rig items and accessories such as rolling swivels and bait elastic. Check our website for new items.





**The Unirest** (left) is adapted from the nylon coaster clip, using the same endless thread system. As you turn the head, the strap tightens around rails, etc. It's a durable rest used by many charter skippers. Use only enough thread for the job. Save the rest for future trips.

**The Boat & Pier Rest** (right) is another tough, lightweight rest that straps on with locking rubber strips. It can be put on and taken off in seconds, and adjusts to almost any diameter rail. Soft inserts protect the rod from scratches.



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