

First Edition 2024



Product Catalogue

**Driven by Science
Proven by Results**



www.hallprint.com

Hallprint - quite simply the world's best external fish tags!

Since 1983 Hallprint has specialised in producing the world's best quality and best performing external 'conventional' fish tags. We have progressively innovated and added to our range of standard external tags over the years but the essential ingredients have been unchanged since the 1980s when company founder (my late father Michael) engaged with plastic technologists and fisheries scientists like myself around the world to help determine the best polymers and metal materials together with optimal manufacturing and printing processes. These efforts resulted in the production of external tags that were designed to (and now proven to) last decades underwater while remaining readable until the end. With many recaptures of fish that have been at liberty for more than 20 years and up to 29.5 years we justifiably have total confidence in the longevity and performance capabilities of our tags.

This catalogue shows the main types of tags and applicators produced by Hallprint but is by no means exhaustive. We are totally flexible in terms of our willingness to work with researchers to develop a new tag variation or in terms of varying the standard dimensions of tags shown within practical limits. Indeed it is this approach that has seen a number of new innovations over the years such as our range of external RFID tags.

More information is available on our web site www.hallprint.com including video clips and an interactive fish tag 'configurator' designed to show the correct tag location on a 'typical' finfish for 5 of our most popular finfish tag types. We always suggest practising with dead fish before attempting to tag live fish (practice tags can often be provided on request).

Hallprint also prides itself as a second generation family owned business that is not only driven by scientists and proven by results but also owned by a highly experienced and well published fisheries scientist (myself) with manufacturing operations run by an experienced technical professional (Darren Evans) who happens to be an absolute enthusiast for our products and new product development. Our support staff are also incredibly talented and experienced including Leanne Berich (administration) and Julie Langmead (production). You certainly won't get that combination anywhere else! People who actually care about your needs, understand the science and are willing to bend over backwards to help.

We are joined in North and Central America by our sole US agent Keith van den Broek, also an experienced fisheries scientist who happened to help develop our external RFID tags, and in Japan and China by our sole agent Yong Huang who has great experience in fisheries research technologies across many disciplines and has been our representative there for over 25 years.

Please feel free to contact us anytime to discuss your tagging needs through the 'Contact Us' section on our web site if you have any query at all. We would be only too pleased to respond as quickly as possible (within 2 working days) and if requested call back at a mutually convenient time to discuss your needs. For us, the customer has always come first!

- Cheers, David.

*David Hall B.Sc. Hons
Managing Director
Hallprint Pty Ltd*

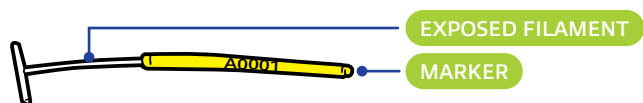
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*All Hallprint tags can be custom printed with the exception of glue-on tags and streamer tags which can only have sequential alphanumerics or numerics.

T-BAR TAGS

*Please note: Both marker length and exposed filament length can be varied by negotiation.



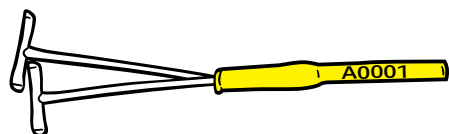
TBF Fine Anchor T-Bar Tag (~ø1.6 mm marker)
*Also available in thin (~ø1.3 mm marker)



TBA Standard Anchor T-Bar Tag (~ø1.6 mm marker)



TBAT Standard Anchor T-Bar Tag with thick marker (~ø2.3 mm marker)



DTBA Double Anchor T-Bar Tag - marker as shown



TBA-LEVO Standard Anchor T-Bar Tag With T-Bar Stopper (~ø1.6 mm marker)



TBSHD Super Heavy Duty T-Bar Tag (~ø1.6 mm marker)
*Also available with thick marker (~ø2.3 mm marker)



TBXHD Extra Heavy Duty T-Bar Tag (~ø1.6 mm marker)

FEATURES

- > Most popular external tag.
- > Suitable for a wide range of finfish and shellfish including lobster.
- > Fast application in sequential number order.
- > Available in four basic anchor sizes.
- > Marker and exposed filament length easily customised.

BODY CAVITY TAGS



IEX-NY *Anchor or marker can be standard ~ø1.6 mm or thick ~ø2.3 mm

FEATURES

- > Excellent retention rate.
- > Requires surgical approach including anaesthesia and sterilisation.



T-BAR TAG APPLICATORS

(All drawings approximate actual size on A4 print)

VP-S STANDARD ANCHOR T-BAR (TBA) APPLICATOR

Showing loaded tag clip (tags rotated 90° for illustrative purposes)

FEATURES

- > Includes vertical tag guide which can be removed.
- > Corrosion resistant.
- > Quick release button enables easy clip removal.
- > Uses plastic base stainless steel needle only (Model 411).
- > Recommended applicator for all standard anchor tags.

TAG GUIDE (REMOVABLE)

*Spare guides available.

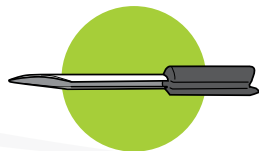
QUICK CLIP RELEASE

VP-S model only -
for removing tag clip.

QUICK NEEDLE RELEASE

All T-Bar applicator models
except 08598.

NEEDLE COVER



Applicator needle supplied
with gun. May also be
purchased separately.

Model 411

Overall length: 33 mm
Effective length: 13 mm
Outside diameter: 1.9 mm

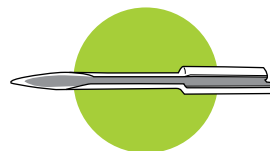


DENNISON STANDARD ANCHOR T-BAR (TBA) APPLICATOR MARK III TAG FAST MODEL 08958



FEATURES

- > Heavy duty.
- > No quick clip or needle release.
- > Heavy duty screw in needle lock.

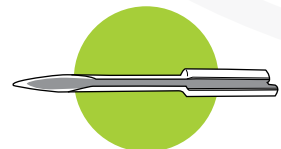


Applicator needle supplied with gun. May also be purchased separately.

ALL STEEL

Model 08913

Overall length: 35 mm
Effective length: 13 mm
Outside diameter: 2.3 mm



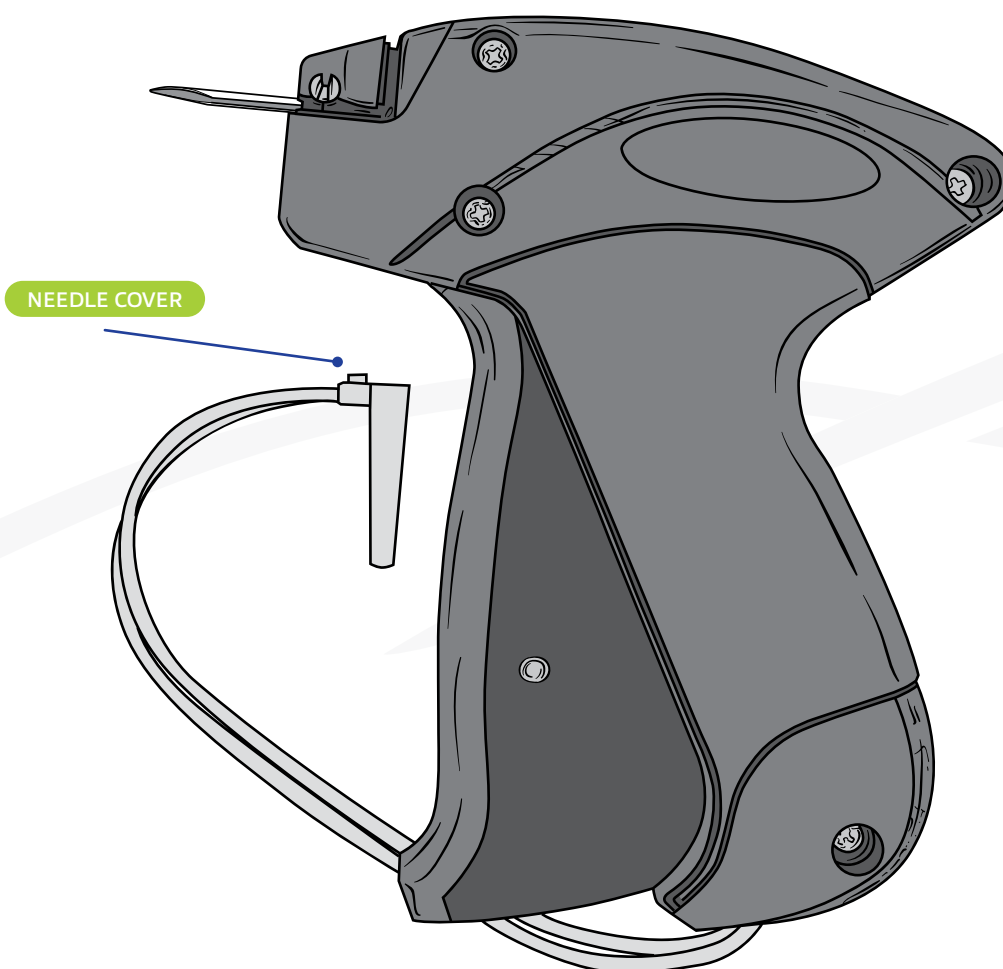
STAINLESS STEEL

Model 10693

Overall length: 35 mm
Effective length: 13 mm
Outside diameter: 2.3 mm

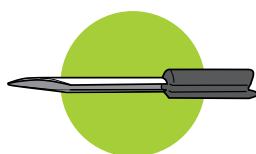


DENNISON STANDARD ANCHOR T-BAR (TBA) APPLICATOR SOFT GRIP MODEL 16000



FEATURES

- > Lightweight construction.
- > Easy grip and smooth operation.
- > No quick clip release button.

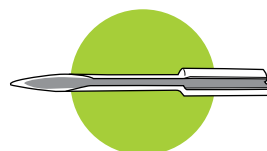


Applicator needle supplied with gun. May also be purchased separately.

PLASTIC BASE

Model 08941

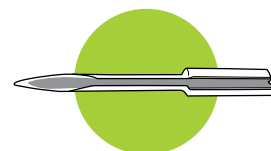
Overall length: 33 mm
Effective length: 13 mm
Outside diameter: 1.9 mm



ALL STEEL

Model 08913

Overall length: 35 mm
Effective length: 13 mm
Outside diameter: 2.3 mm



STAINLESS STEEL

Model 10693

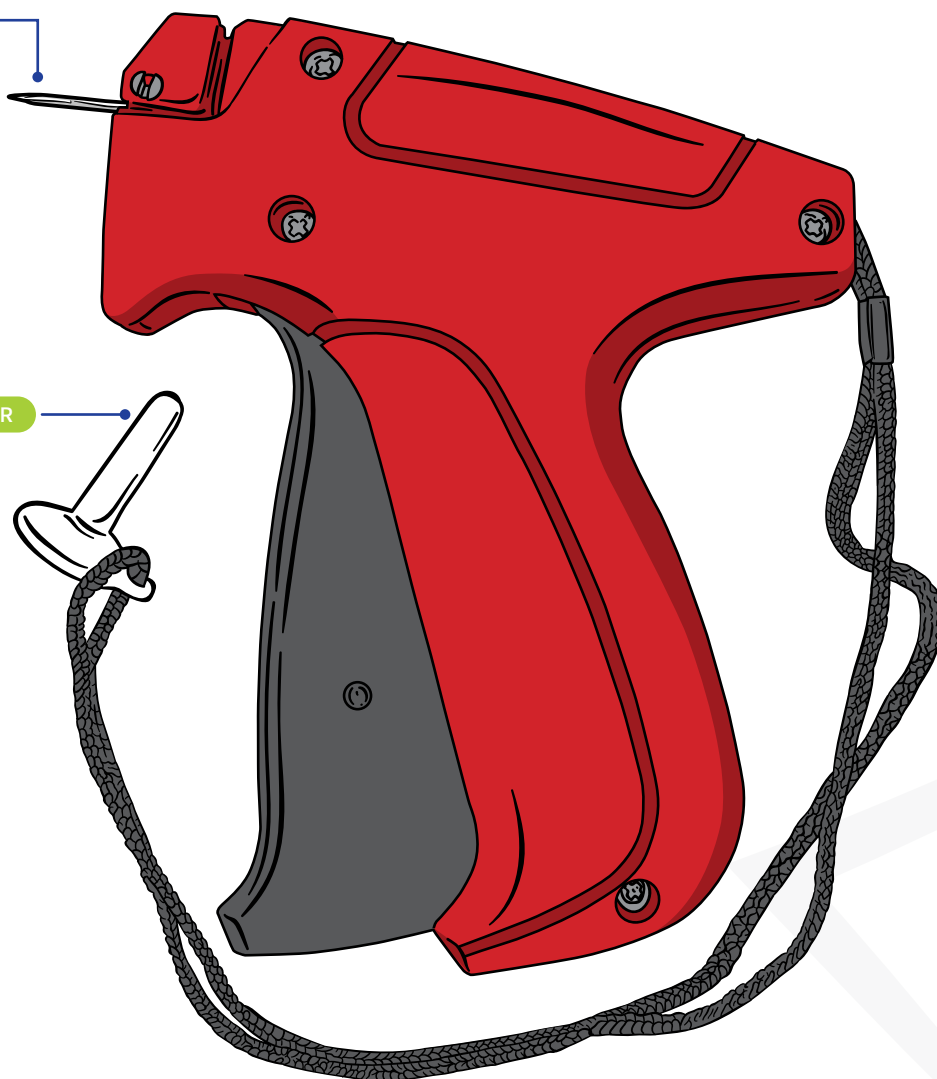
Overall length: 35 mm
Effective length: 13 mm
Outside diameter: 2.3 mm



DENNISON FINE ANCHOR T-BAR (TBF) APPLICATOR MODEL 10312

DETACHABLE NEEDLE

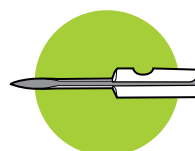
NEEDLE COVER



FEATURES

> Supplied with a plastic base needle.

> All steel or plastic base needles available for spares.

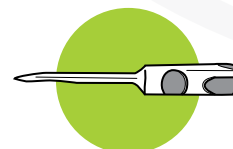


Applicator needle supplied with gun. May also be purchased separately.

PLASTIC BASE

Model 10695

Overall length: 25 mm
Effective length: 8 mm
Outside diameter: 1.3 mm



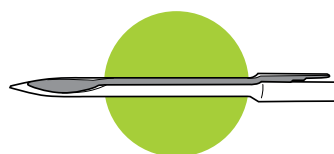
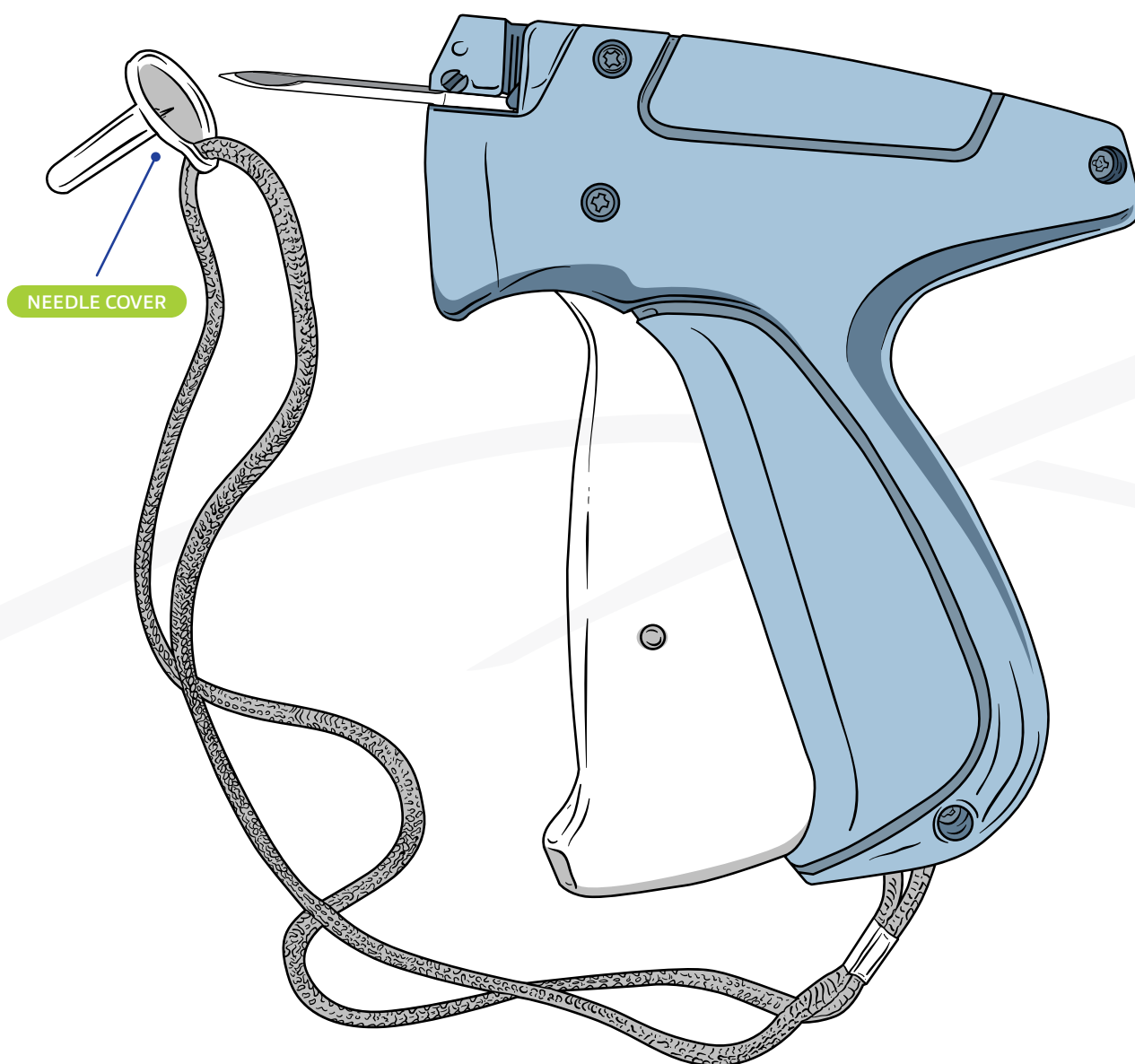
ALL STEEL

Model 10070

Overall length: 28 mm
Effective length: 9 mm
Outside diameter: 1.4 mm



DENNISON SUPER HEAVY DUTY T-BAR (TBSHD) APPLICATOR MODEL 10637



ALL STEEL

FEATURES

- > Heavy duty all steel needle.
- > Suitable if extra needle length required.

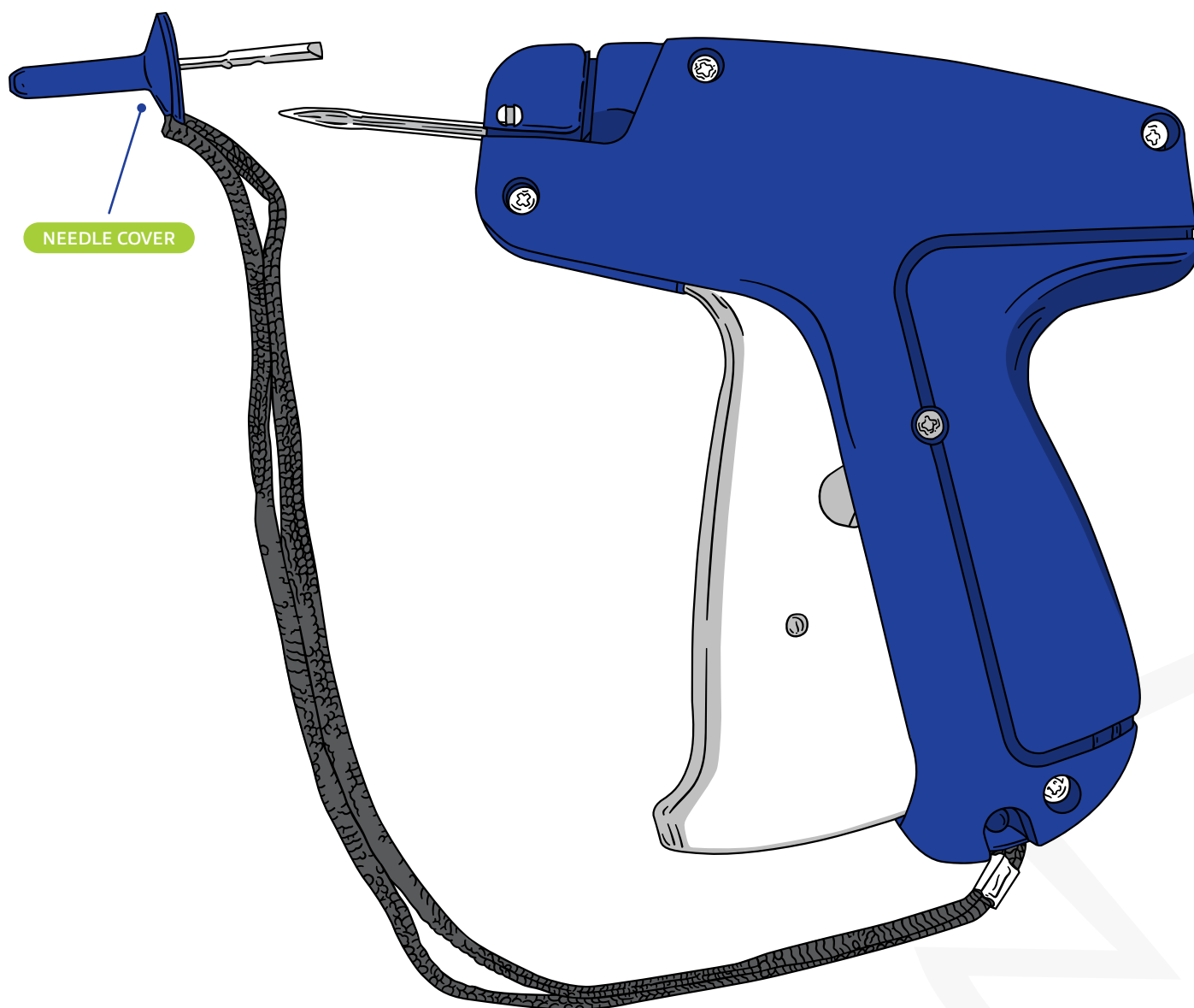
Applicator needle supplied with gun. May also be purchased separately.

Model 10643

Overall length: 44 mm
Effective length: 23 mm
Outside diameter: 2.7 mm

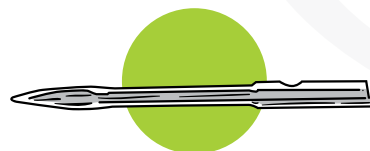


DENNISON EXTRA HEAVY DUTY T-BAR (TBXHD) APPLICATOR MODEL 10789



FEATURES

- > Solid construction.
- > Heavy duty all steel needles.
- > Largest anchor T-Bar tag.



ALL STEEL

Applicator needle supplied with gun. May also be purchased separately.

Model 10777

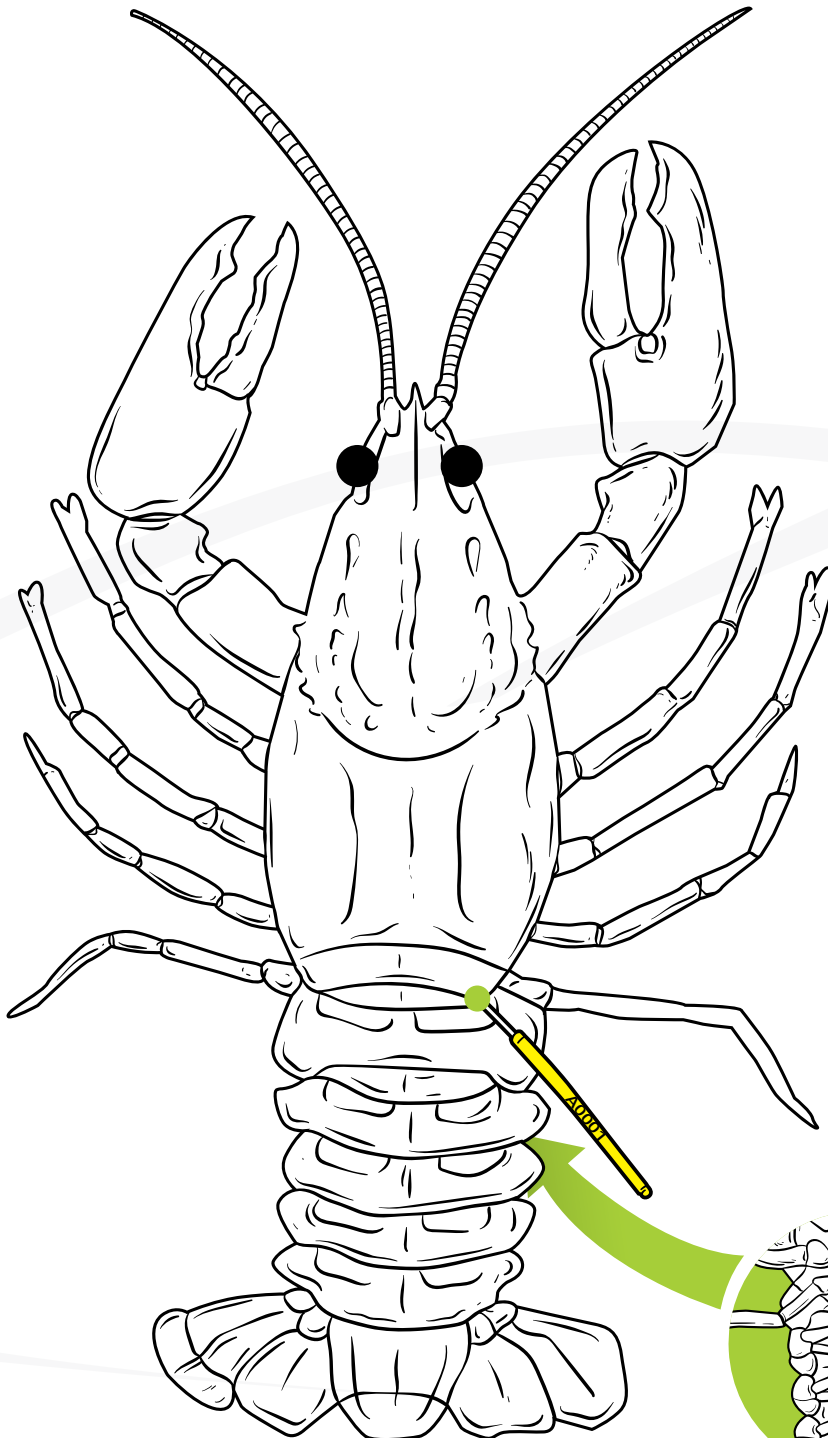
Overall length: 47 mm
Effective length: 22 mm
Outside diameter: 2.9 mm



T-BAR TAG LOCATION (LOBSTER)

TAG ENTRY LOCATION

For spiny and clawed lobsters.

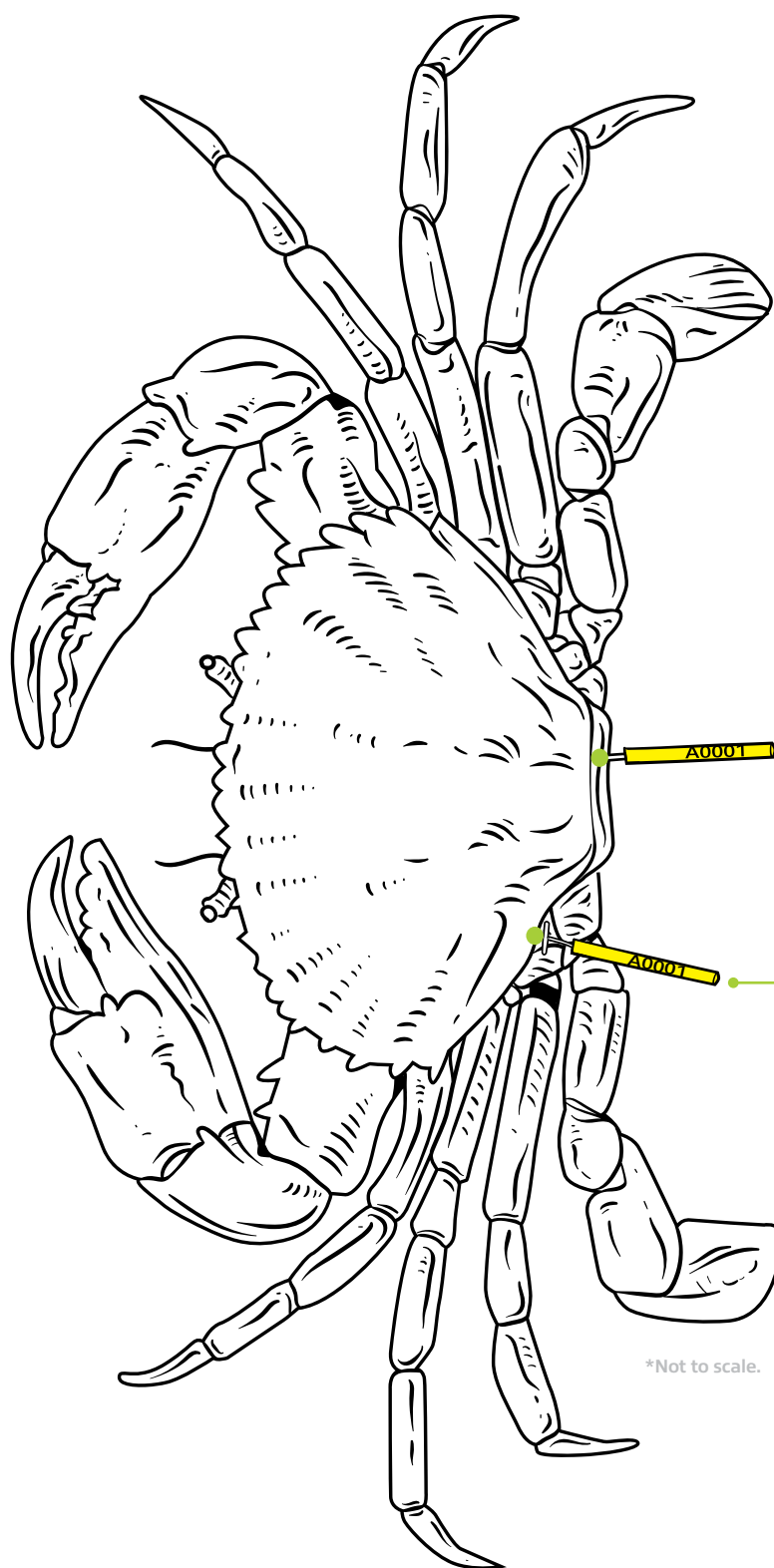


Tags are offset to one side either dorsally in musculature through moult suture line between head and tail - or applied ventrally in first or second tail segment as shown.

*Not to scale.

Ventral tagging

T-BAR TAG LOCATION (CRABS)



TAG ENTRY LOCATION

*Note: contact Hallprint for precise instructions on tag location and method especially for TBA-LEVO tags.

A. PORTUNID CRABS

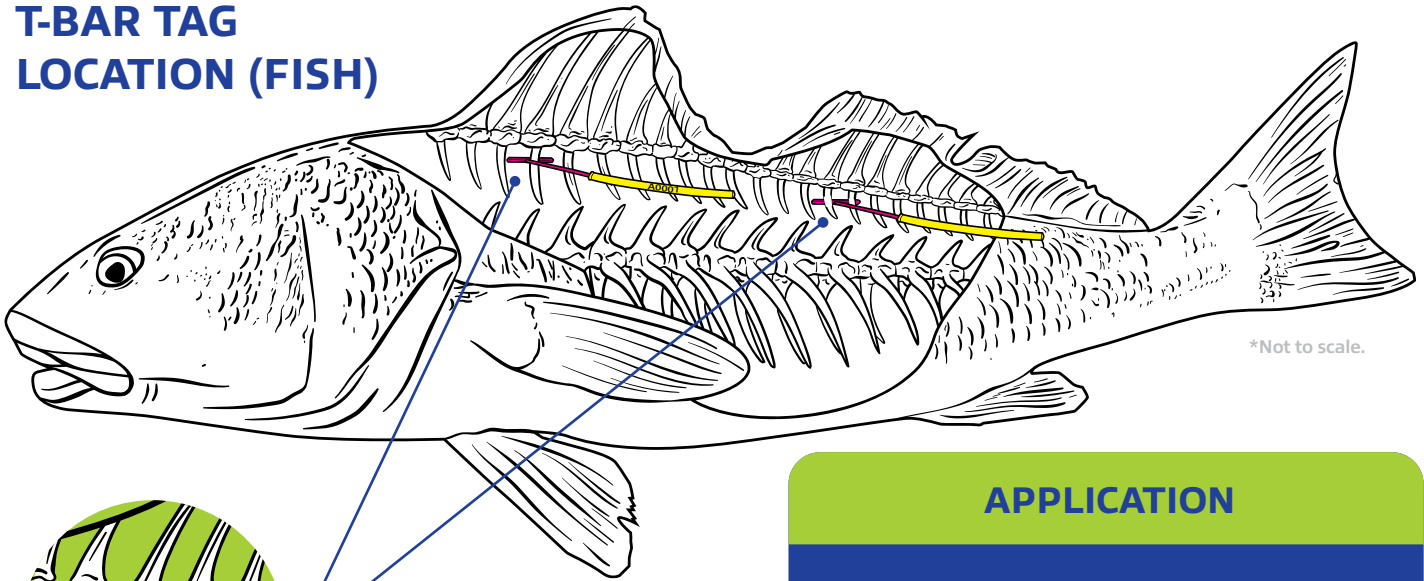
T-Bar Anchor in tail musculature (hidden). Tag entry point in moult suture line between head and tail (TBF & TBA).

B. DEEP WATER CRABS

Distal T-Anchor in brachial cavity (hidden) with proximal T-Bar stopper (shown) external to prevent tag from descending into brachial cavity (TBA-LEVO).

*Not to scale.

T-BAR TAG LOCATION (FISH)



*Not to scale.



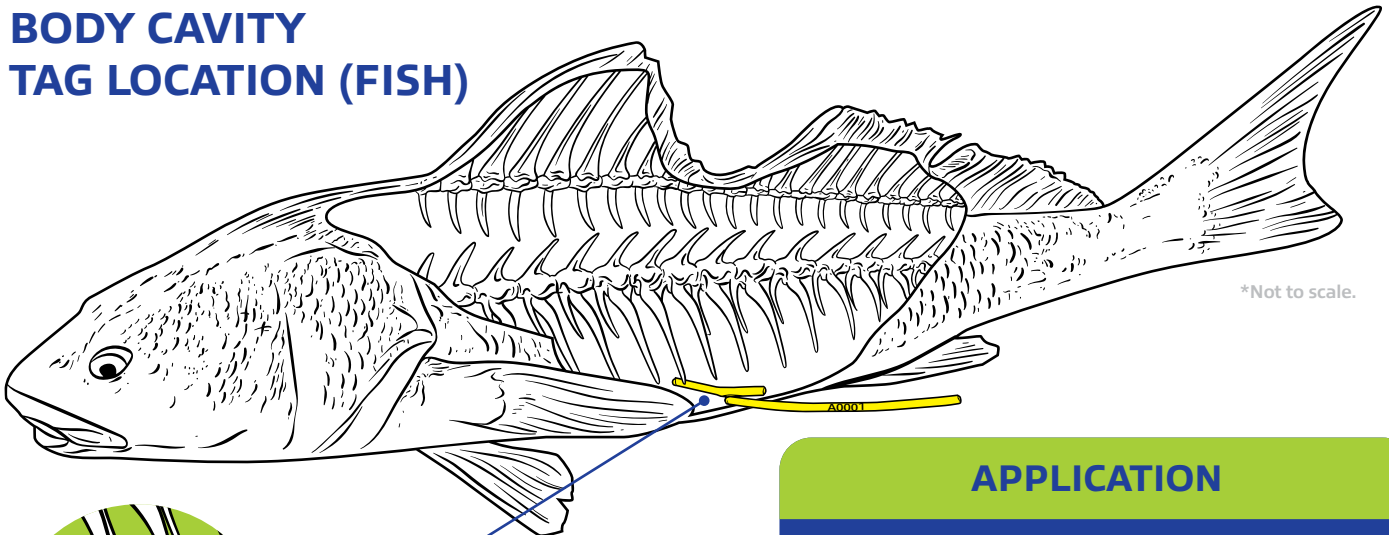
*Not to scale.

T-BAR tag can be applied to first or second dorsal pterygiophores depending on fish size etc.

APPLICATION

- > Use appropriate applicator gun & needle for fine anchor (TBF), standard anchor (TBA), super heavy duty (TBSHD) or extra heavy duty (TBXHD) tags.
- > Load clips with lowest number first – tags on clip are in sequential numbered order.
- > Read both Hallprint instructions provided as well as instructions that go with gun before use!
- > Check web site video loops and configurator for finfish tagging procedure.

BODY CAVITY TAG LOCATION (FISH)



*Not to scale.



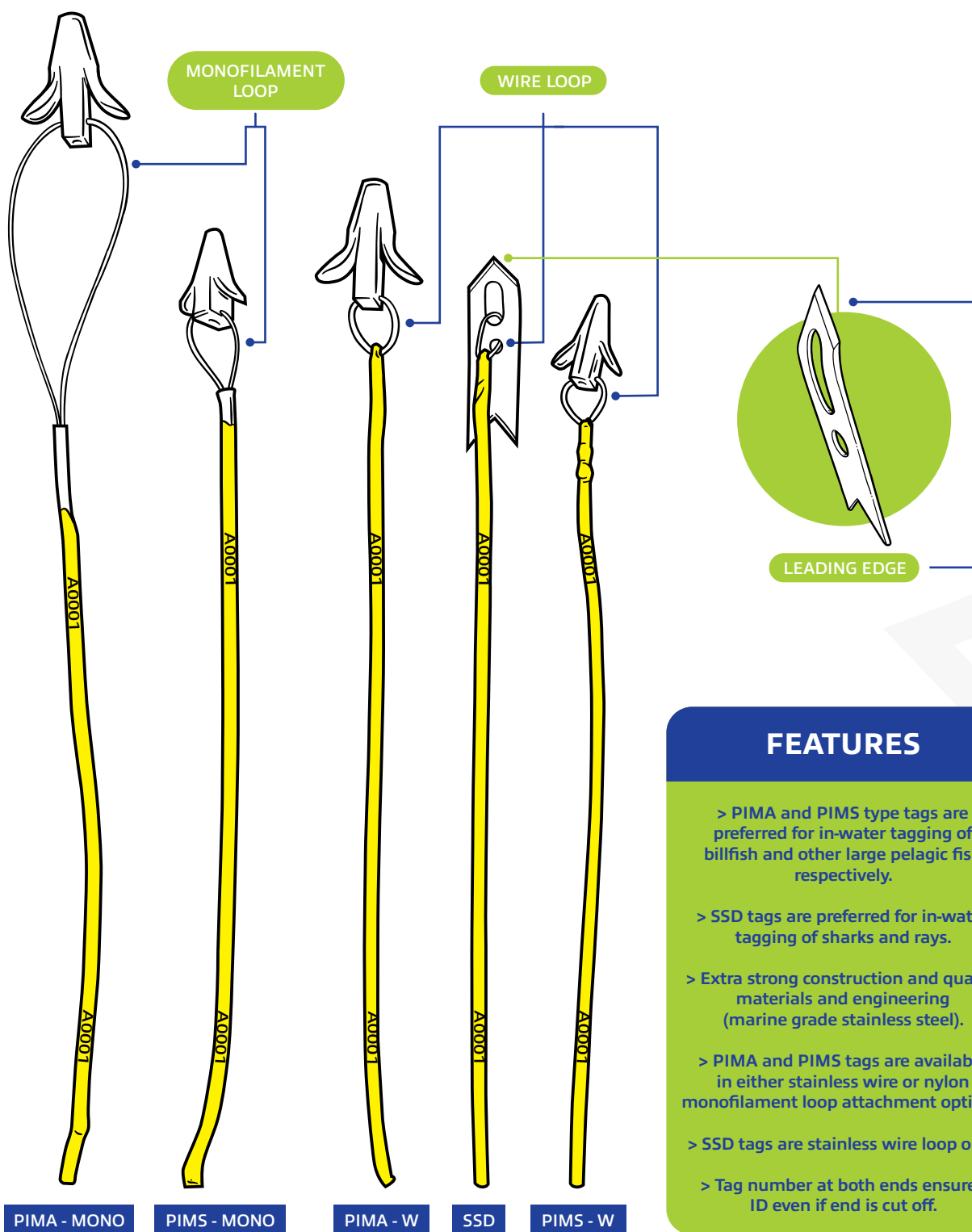
*Not to scale.

APPLICATION

- > Follow instructions carefully including correct use of anaesthetic and antibiotics.
- > Use sharp, shallow scalpel tip to produce 2 mm incision in body wall prior to tag application.
- > Note this is a surgical procedure so not recommended for volunteer or amateur tagging.
- > Take great care not to damage internal organs.

GAMEFISH & SHARK TAGS (INTRA-MUSCULAR-PIM SERIES & SSD)

*PIMA-W, PIMS-W and SSD models can have wire through part, half or all of the marker length as required.



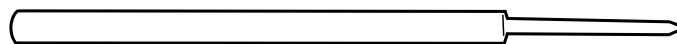
FEATURES

- > PIMA and PIMS type tags are preferred for in-water tagging of billfish and other large pelagic fish respectively.
- > SSD tags are preferred for in-water tagging of sharks and rays.
- > Extra strong construction and quality materials and engineering (marine grade stainless steel).
- > PIMA and PIMS tags are available in either stainless wire or nylon monofilament loop attachment options.
- > SSD tags are stainless wire loop only.
- > Tag number at both ends ensures ID even if end is cut off.

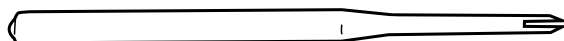


SHARK AND GAMEFISH APPLICATOR TIPS

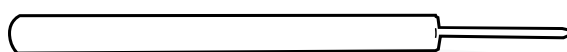
***Please note:** These are attached to tagging poles for in-water tagging of large fish as per instructions provided.



PIMA



SSD



PIMS

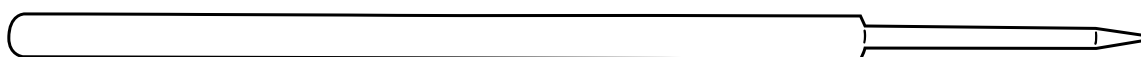
FEATURES

> All applicator tips shown are made from either 304 grade or 316 (marine grade) stainless steel.

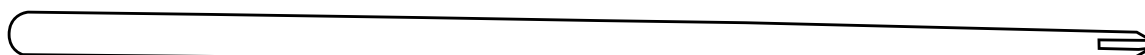
***Please note:** There are many 'after market' applicator tips and tagging poles available for these tags. Please check with Hallprint before purchasing.

TETHER DART HEAD APPLICATOR TIPS

***Please note:** These are attached to tagging poles for in-water tagging with PSat tags etc.



XL PIM-DOM

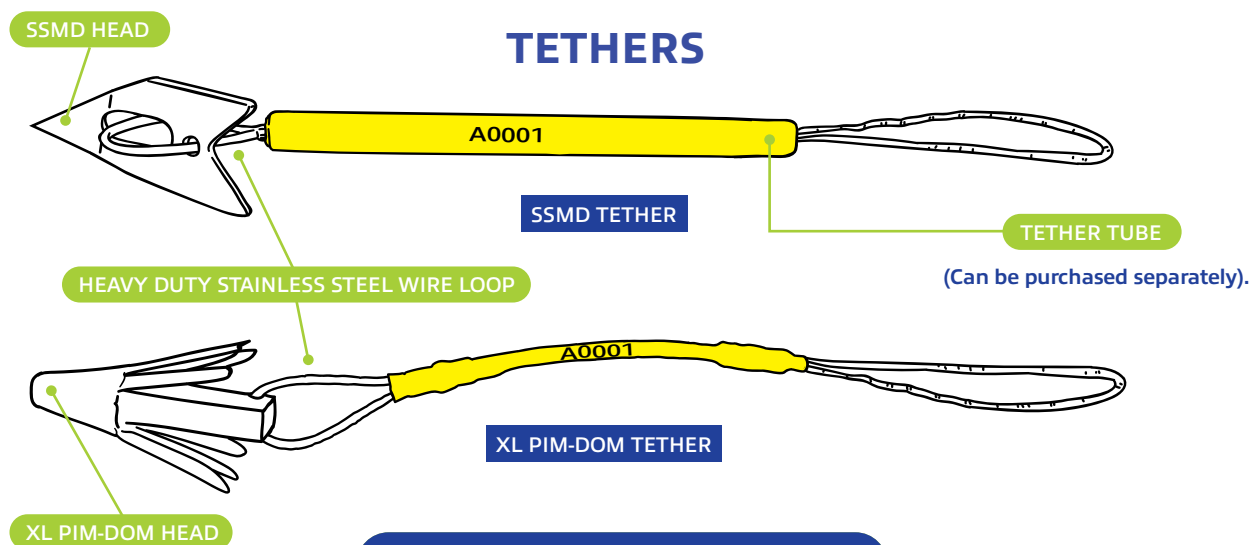


SSMD / SSLD / SSXLD



SATELLITE / ARCHIVAL TAG TETHER SYSTEMS

*Please note: These are custom made for use with electronic tags e.g. PSat, radio and acoustic.



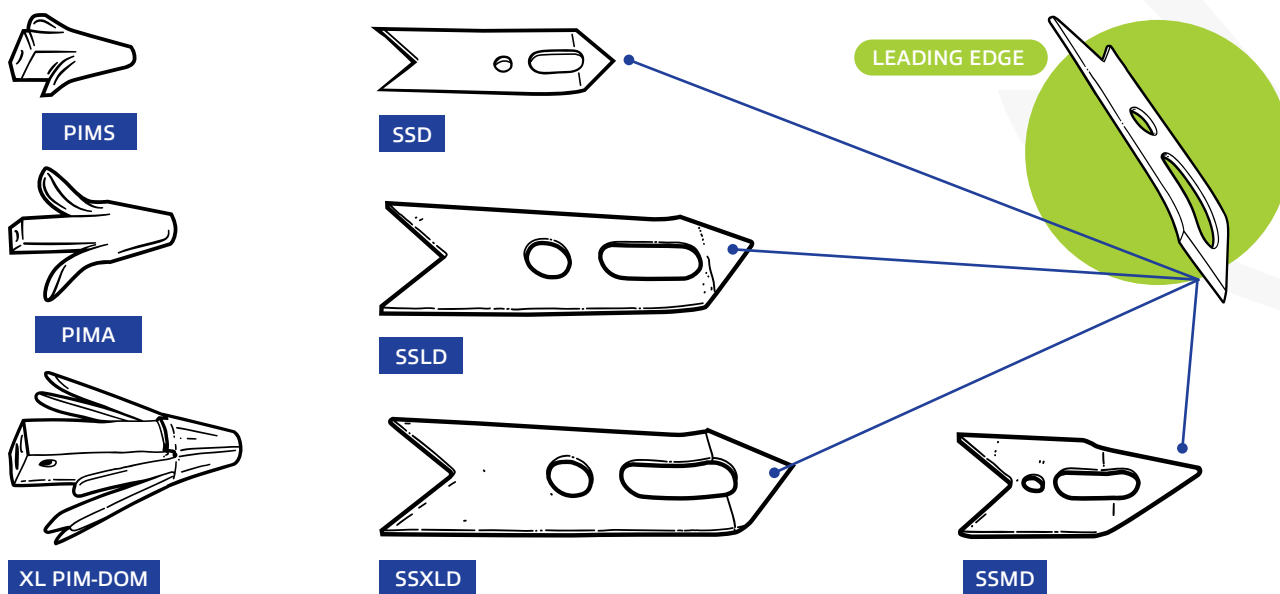
FEATURES

> See below for all stainless steel dart head tether options.

> Printed tether tube as shown on SSMD tether above is an option on all tethers.

TETHER DART HEADS

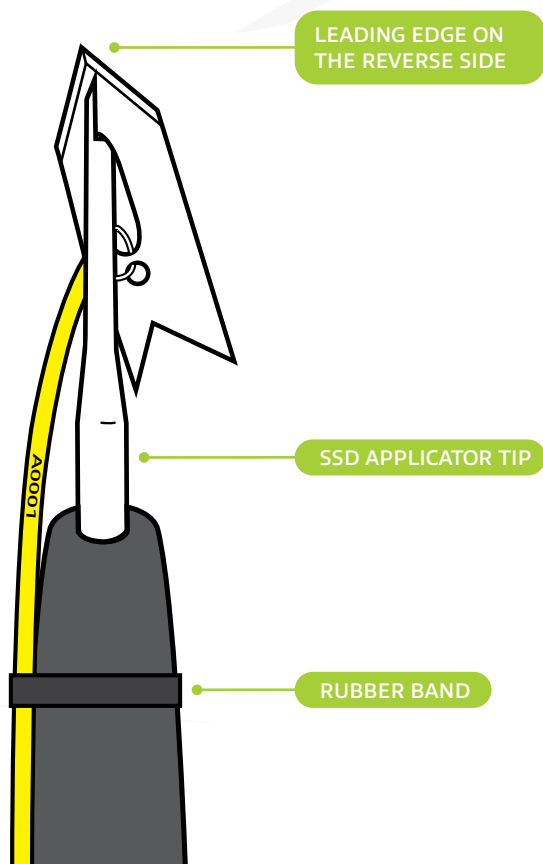
*Please note: These can be purchased separately or as part of tether shown above.



SHARK AND GAMEFISH TAG LOCATION (SHARK - SSD TAG)



CORRECTLY LOADED SSD TAG



APPLICATION

> Applicator tips are attached to poles and passed through tag heads to load securely with the dart tip leading edge slightly exposed as shown.

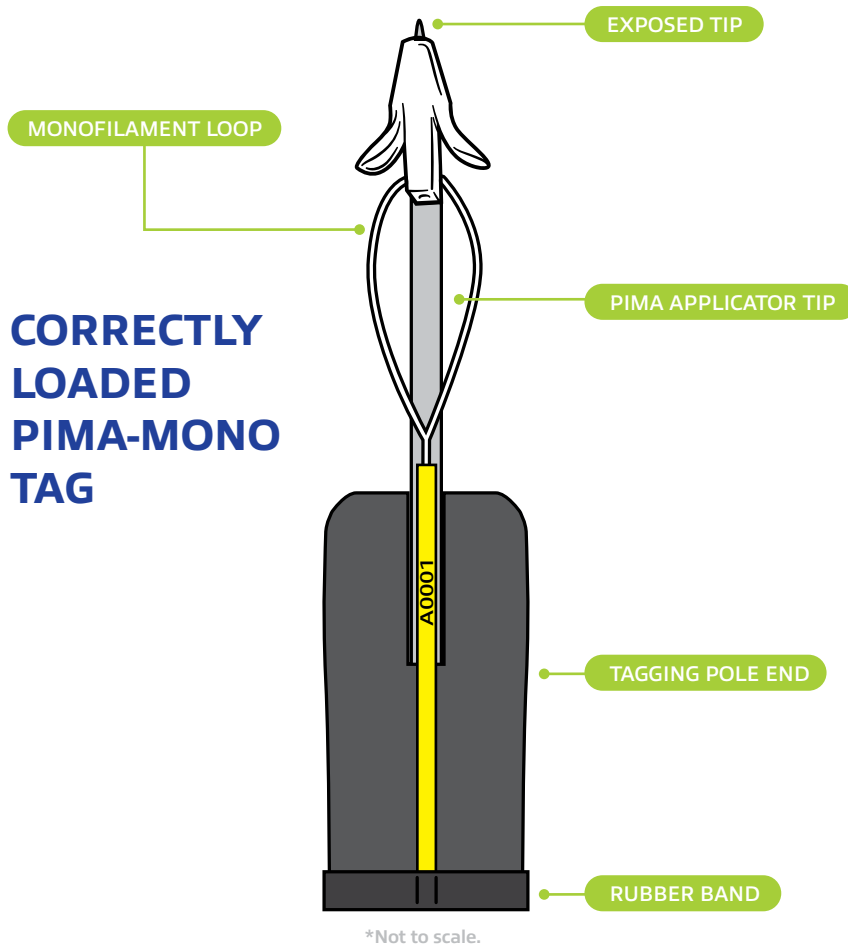
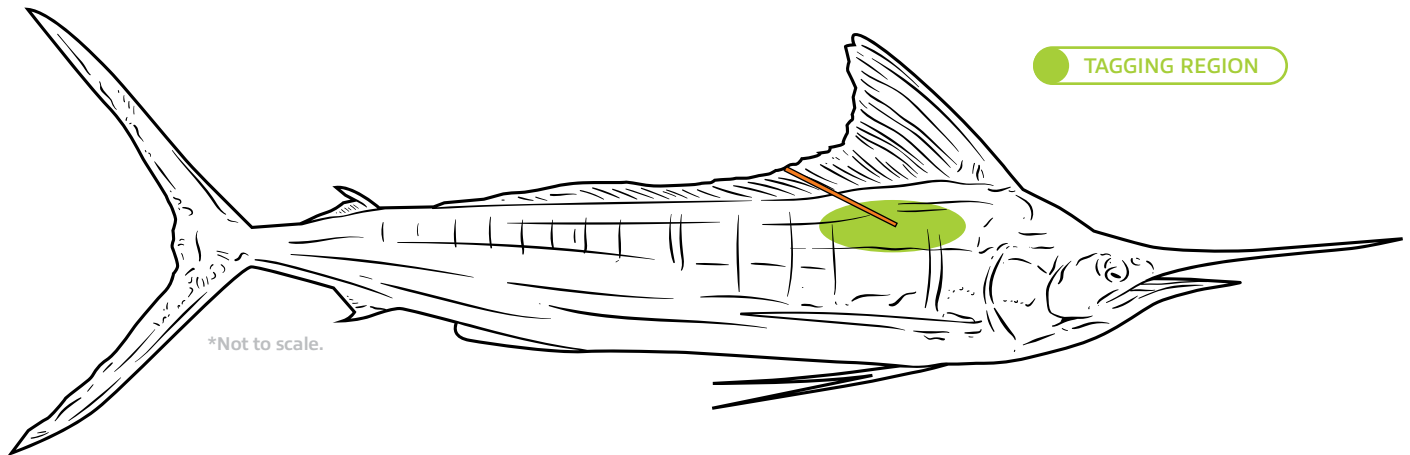
> Tags should be loaded and held in place prior to tagging with a rubber band as shown.

> For SSD tags the bevelled edge does the pre-cutting of the skin.

> Use only SSD tags on shark species for in-water tagging due to tough skin.

> This tag location is also used on smaller sharks for PDA/PDAT tags.

SHARK AND GAMEFISH TAG LOCATION (BILLFISH & PELAGICS - PIM SERIES)



CORRECTLY LOADED PIMA-MONO TAG

APPLICATION

> Applicator tips are attached to poles and passed through tag heads to load securely with the applicator tip slightly exposed as shown.

> Tags should be loaded and held in place prior to tagging with a rubber band as shown.

> PIM series tags are generally preferred for in-water tagging of most game fish species excluding sharks and rays.

PLASTIC TIPPED DART TAGS (PD SERIES)



PDAT Large Plastic Tipped Dart Tag - Thicker Marker (~Ø2.3 mm marker)



PDA Large Plastic Tipped Dart Tag - Standard Marker (~Ø1.6 mm marker)



PDS Small Plastic Tipped Dart Tag (~Ø1.6 mm marker)



PDL Small Plastic Tipped Dart Tag (Elongated Barb) (~Ø1.6 mm marker)



PDW Small Plastic Tipped Dart Tag (Wide Barb) (~Ø1.6 mm marker)



PDXL Extra Small Plastic Tipped Dart Tag (Elongated Barb) (~Ø1.3 mm marker)



PDX Extra Small Plastic Tipped Dart Tag (~Ø1.3 mm marker)

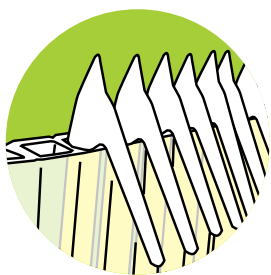
FEATURES

- > All tags can be produced over a range of lengths from 30mm to 160mm.
- > Best performing external tag for medium to large finfish and small sharks and rays.
- > Robust dart heads designed to lock easily behind pterygiophores.
- > Fully protected marker can ensure tags remain readable for decades.
- > Unbeatable design and engineering around single moulded construction with no glue.
- > Performance proven by leading scientists working on major tagging programs for decades!
- > Tag number at both ends except PDX ensures ID even if end is cut.

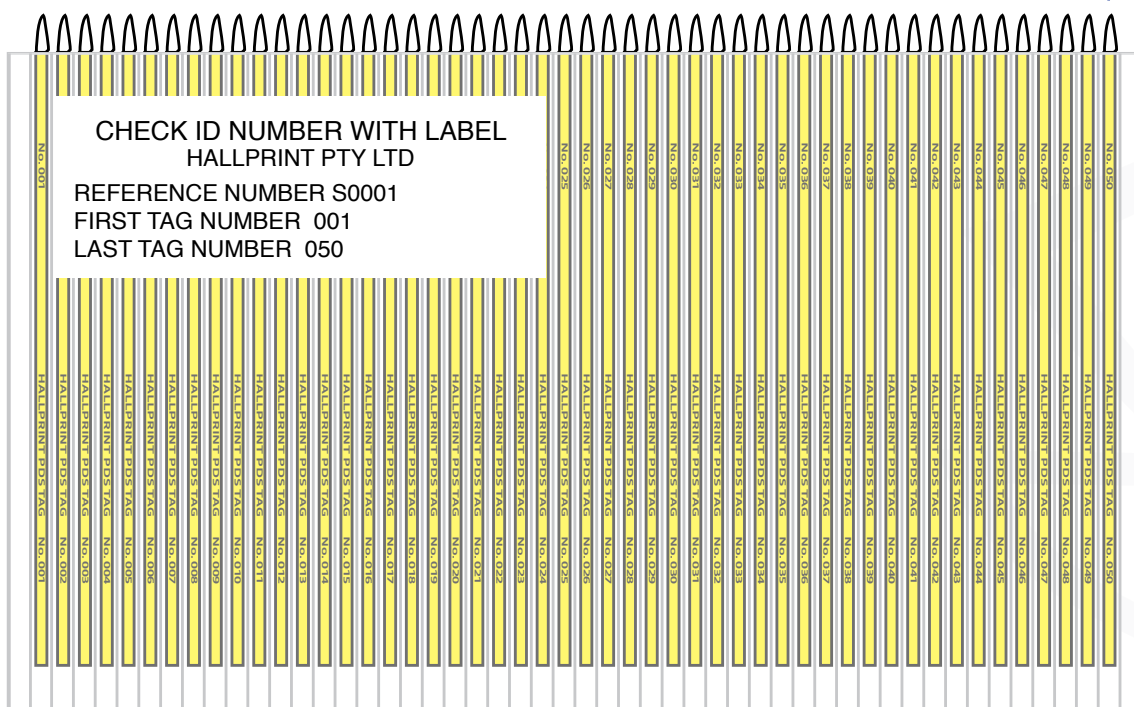


PLASTIC TIPPED DART TAGS (AS SUPPLIED)

*Plastic Tipped Dart Tags supplied in corflute sheet in lots of 50 in sequential order for easy field application.



*Not to scale.



PDS TAG • SHEET OF 50 TAGS



PLASTIC TIPPED DART HEAD APPLICATORS

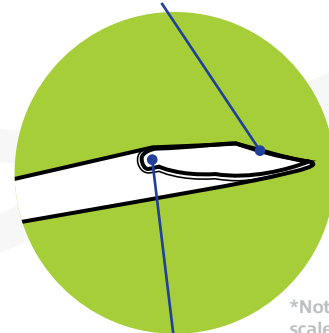
*Please note: Avoid using applicator needles not purchased from Hallprint as these may result in broken tag heads.

FEATURES

- > Needles can be supplied 'naked' or with fixed or retractable handles.
- > All made with marine grade stainless steel.
- > Sharp dual angle and bevelled tip designed to cradle tag and 'lift' flesh for easy insertion and minimal entry wound.

*Note: PDXL applicator has a longer 'point' than PDX applicator (not shown).

DUAL ANGLE BEVELLED EDGE

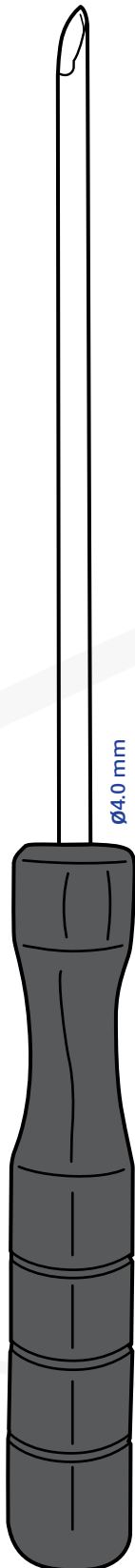


*Not to scale.

ROUNDED NOTCH

(Note: smooth edge to protect dart head.)

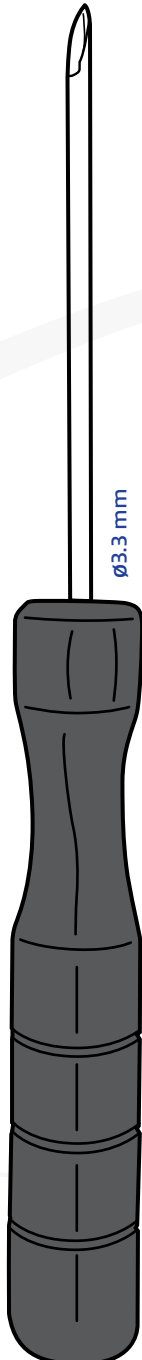
WITH HANDLE



ø4.0 mm

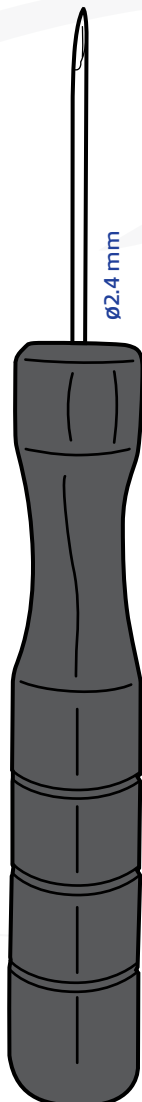
PDA/PDAT

ø3.3 mm



PDS/PDL/PDW

ø2.4 mm



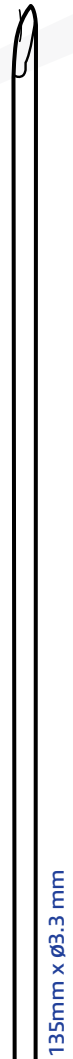
PDX/PDXL *

WITHOUT HANDLE



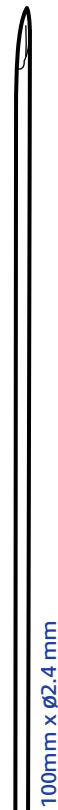
160mm x ø4.0 mm

PDA/PDAT



135mm x ø3.3 mm

PDS / L / W



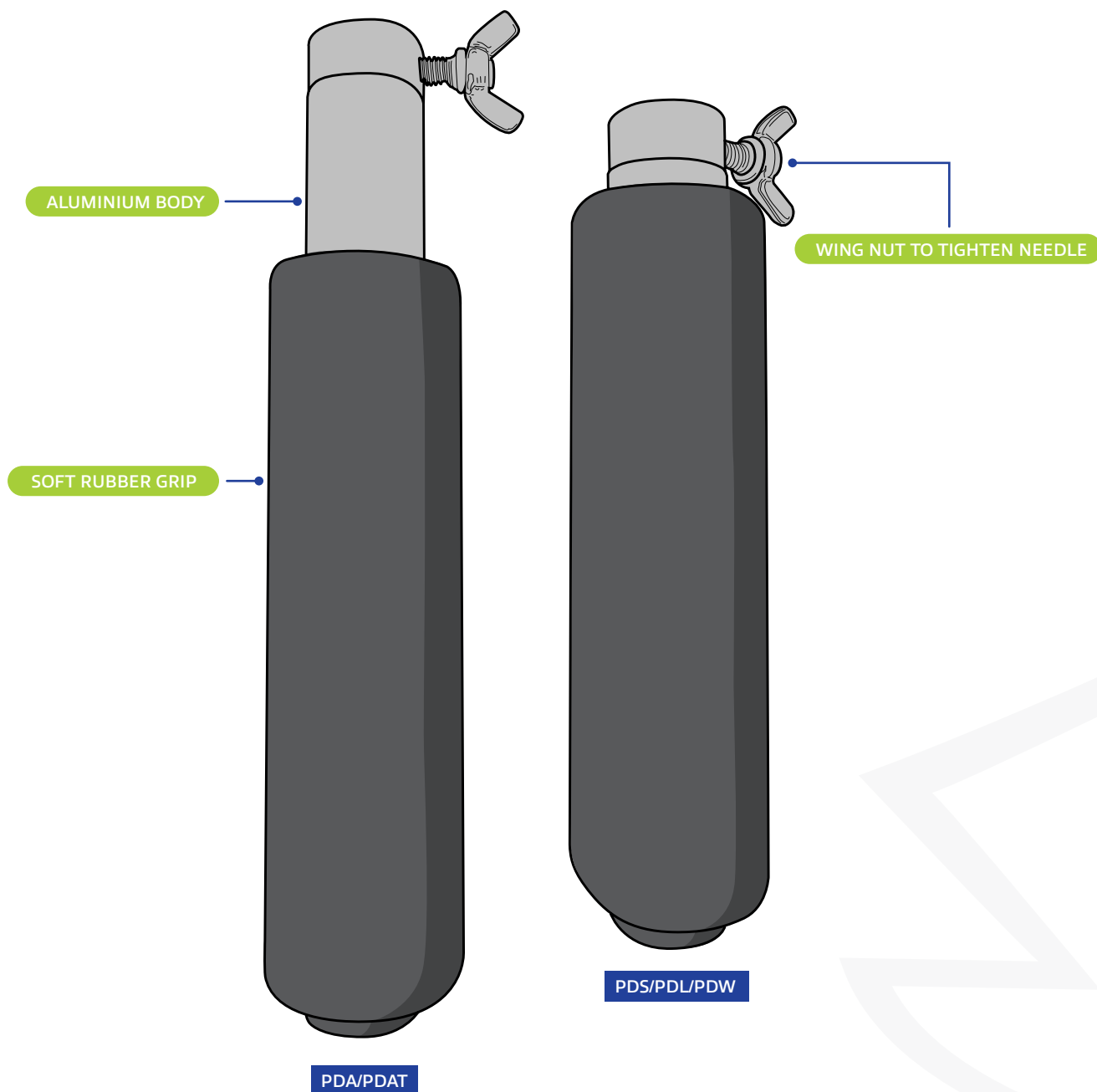
100mm x ø2.4 mm

PDX / L *

*Please note: Only our custom made applicator needles should be used with our Tags. Failure to do so may void any warranty claims on the Tags.



RETRACTABLE HANDLES FOR PLASTIC TIPPED DART TAG APPLICATOR NEEDLES

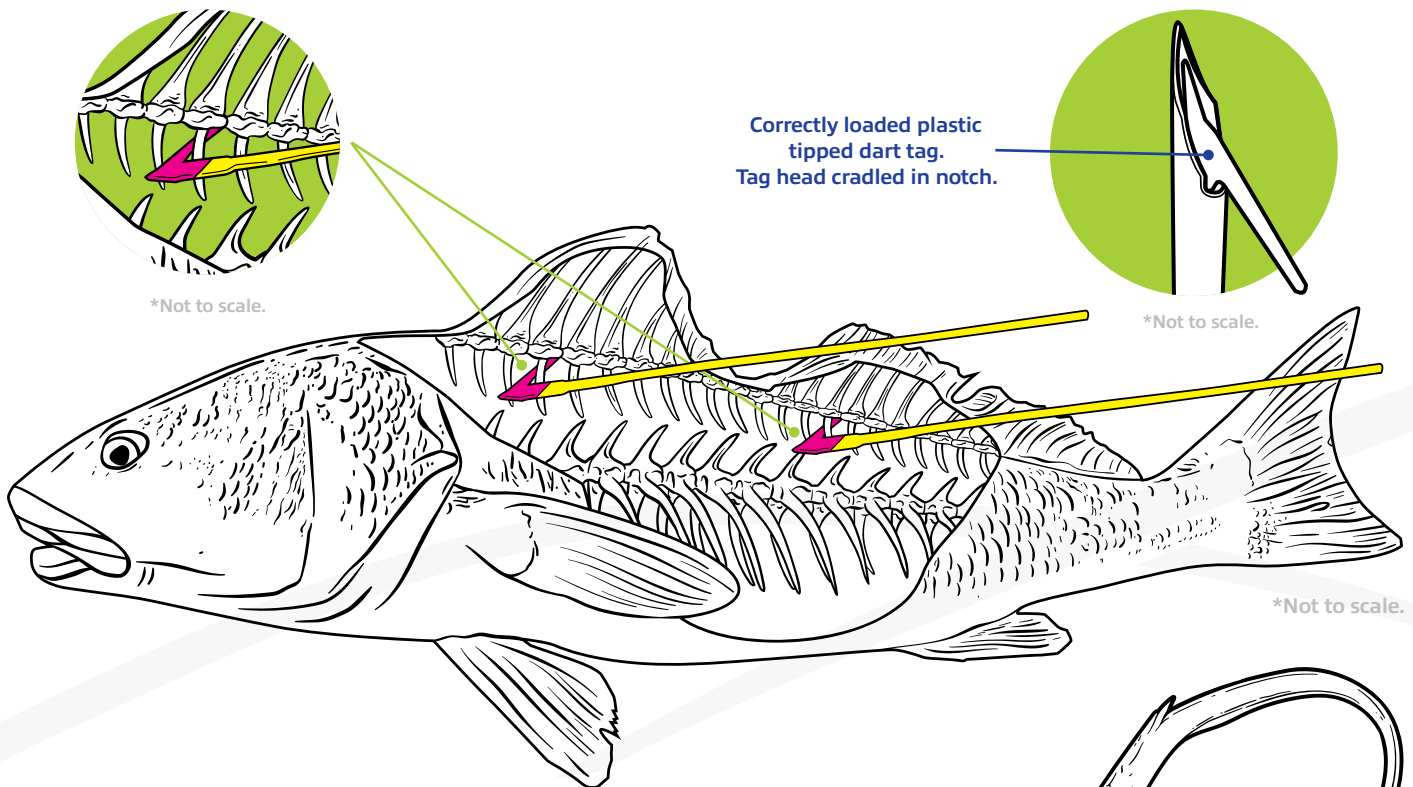


FEATURES

- > Applicator needle can be retracted into handle to change effective length.
- > Needle can be reversed when not in use to improve safety and protect needle point.
- > Easy grip and ergonomic soft rubber handle.

PLASTIC TIPPED DART TAG LOCATION (FISH & RAYS)

*Please note: Can be applied through either first or second dorsal fin pterygiophores as shown.

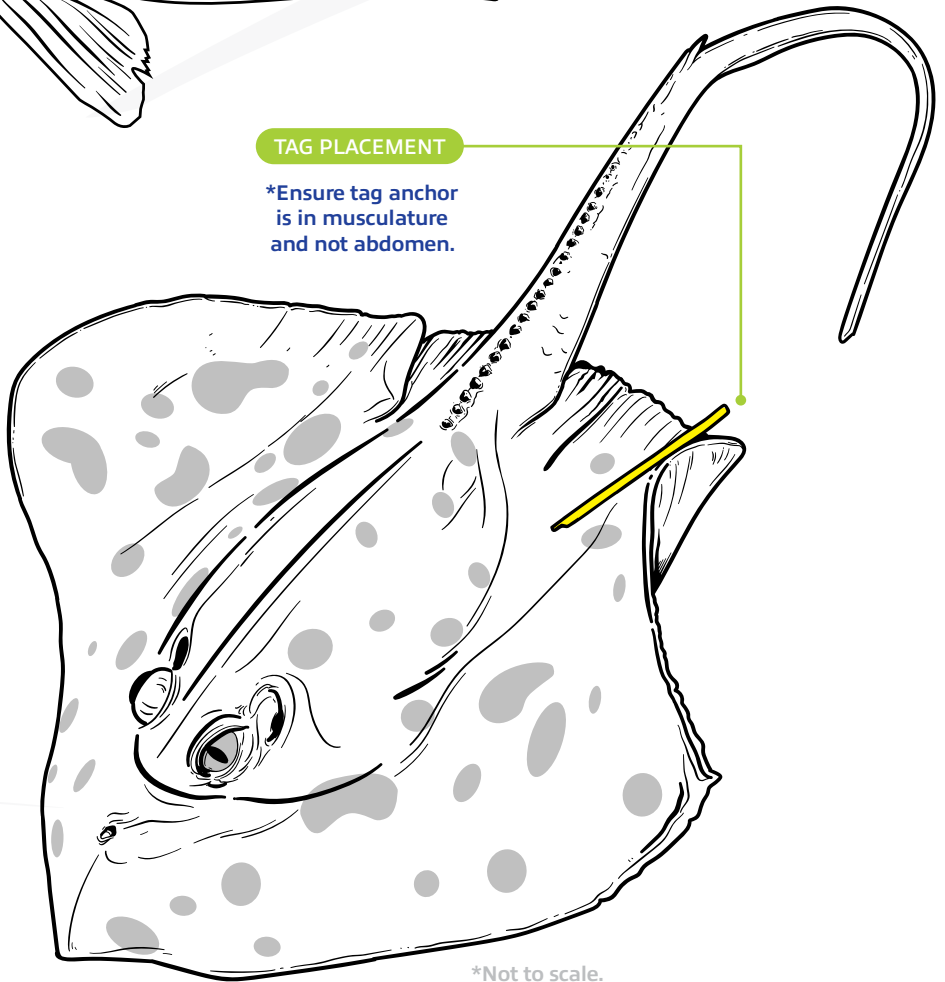


APPLICATION

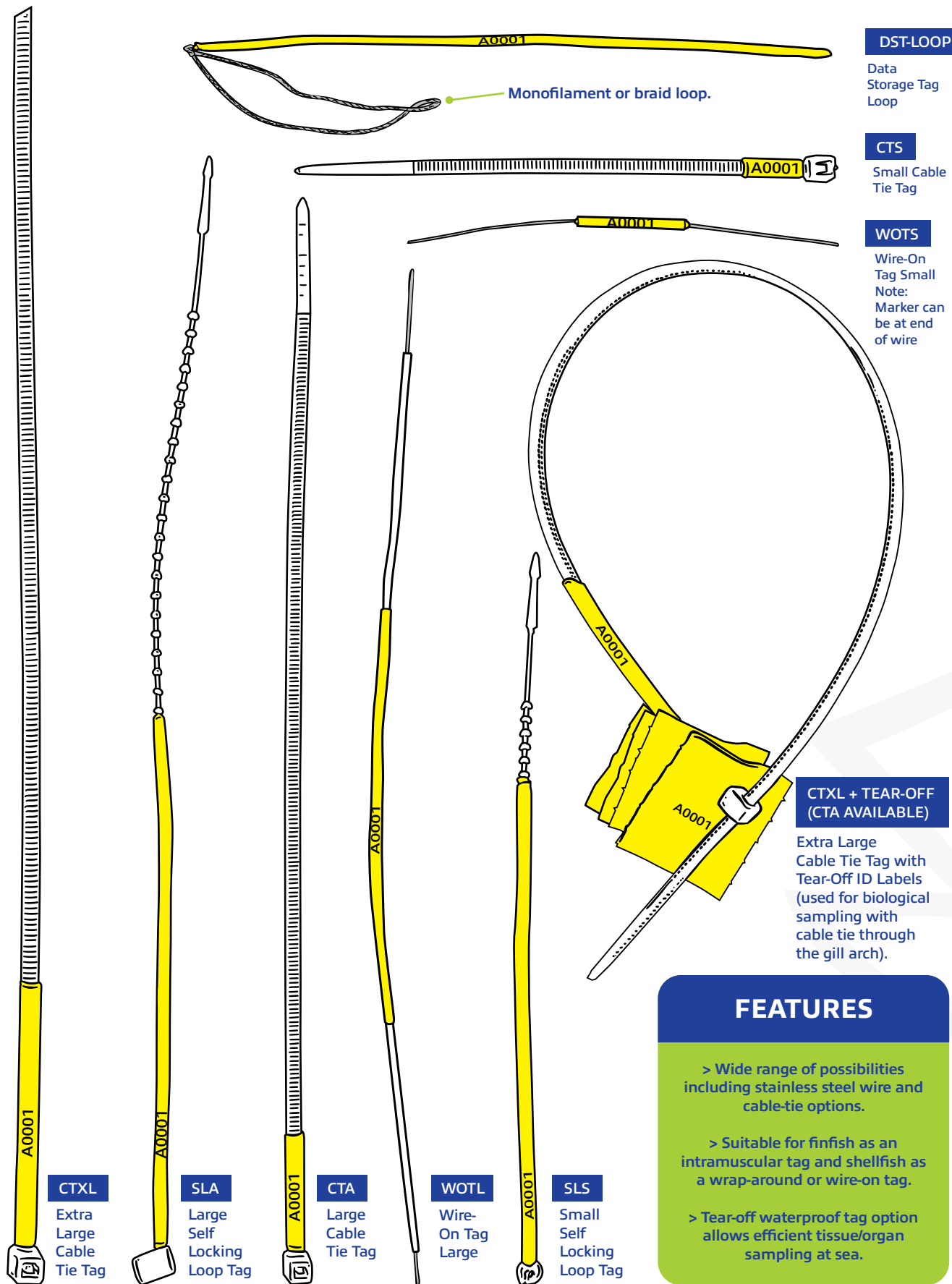
- > Specialist finfish tag used extensively on major tagging programs but also suited to smaller sharks and rays.
- > Only use applicator needles supplied by Hallprint or otherwise discuss.
- > Retractable handles are recommended.
- > Ensure correct needle is used with each tag type (PDX, PDXL, PDS/PDL/PDW, PDA/PDAT).
- > Discuss with Hallprint optimal tag head and tag length for your species and needs.
- > Follow Hallprint tagging instructions provided.
- > Not suitable for in-water tagging.
- > Ensure tag is fully recessed in needle before tagging.

TAG PLACEMENT

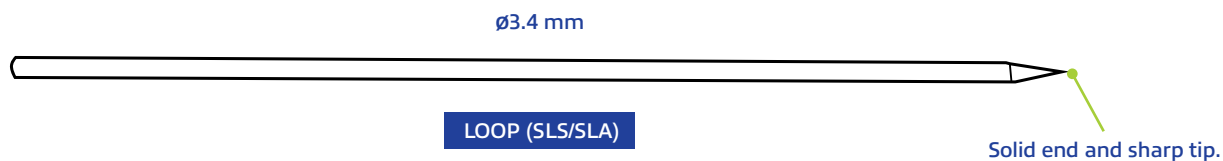
*Ensure tag anchor is in musculature and not abdomen.



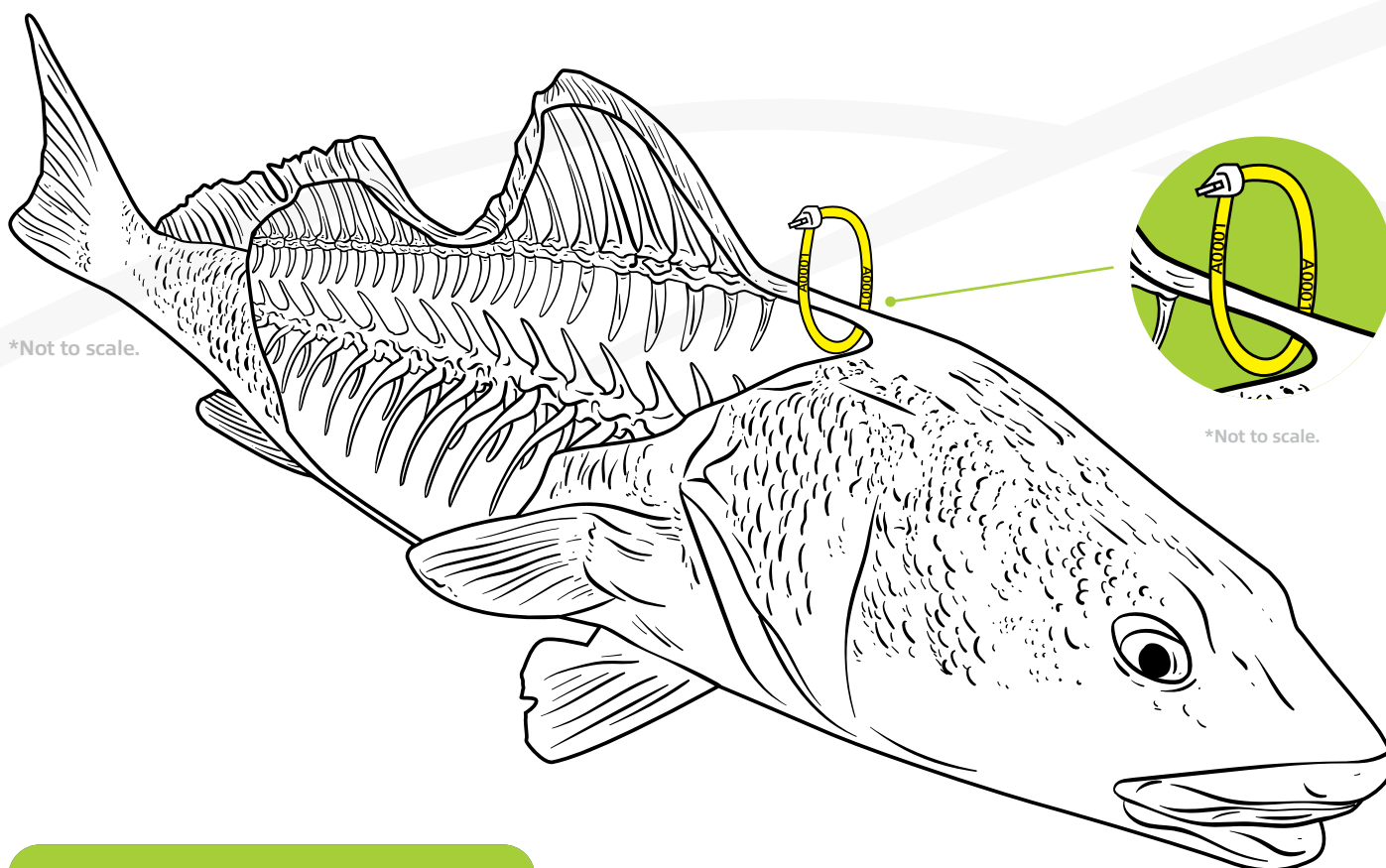
SELF LOCKING TAGS



SELF LOCKING TAG (SLS/SLA) APPLICATOR



SELF LOCKING TAG (SLS/SLA) LOCATION (FISH)



APPLICATION

- > Suitable as a permanent intramuscular tag on finfish or an inter-moult tag for crustaceans.
- > For finfish use specialised applicator needles from Hallprint.
- > Has a wide variety of forms and applications including with tear-off labels for tissue & organ sampling as shown in previous section.

POLYETHYLENE STREAMER TAGS (PST SERIES)

FEATURES LOCKING FLAP

*Tags shown include a 58mm needle. Optional 38mm needles are also available.

**Note that tags are provided in folded cards in sequential number order (25 per card) as standard although they can also be purchased in sequential number lots of 50 in plastic bags at a reduced cost.



PST12P



PST13P



PST13S



PST7P

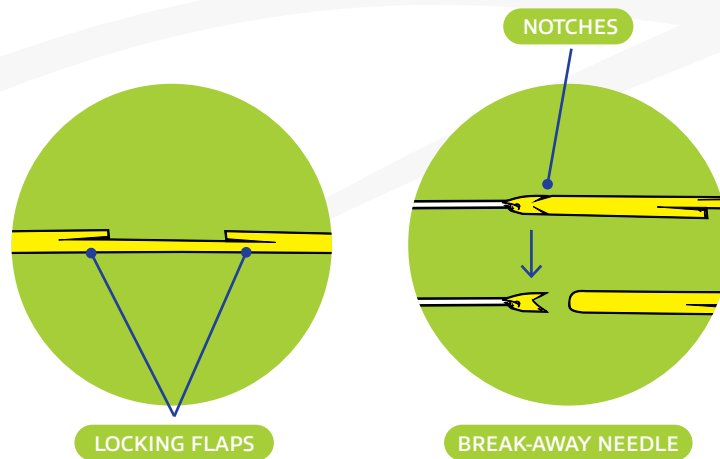
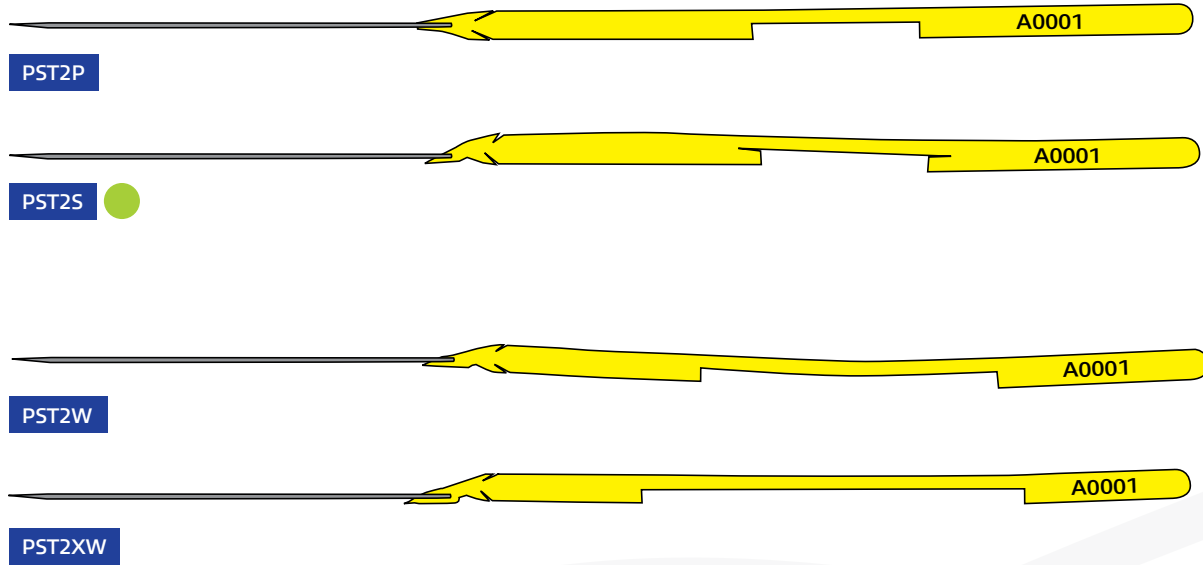


PST7S



PST4S



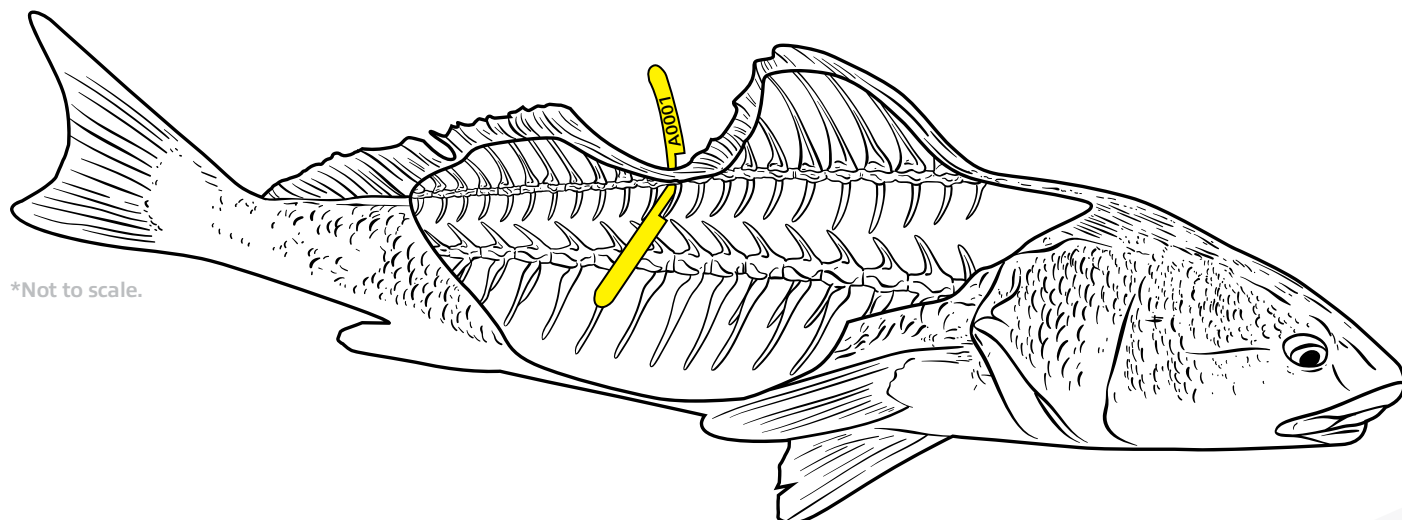


FEATURES

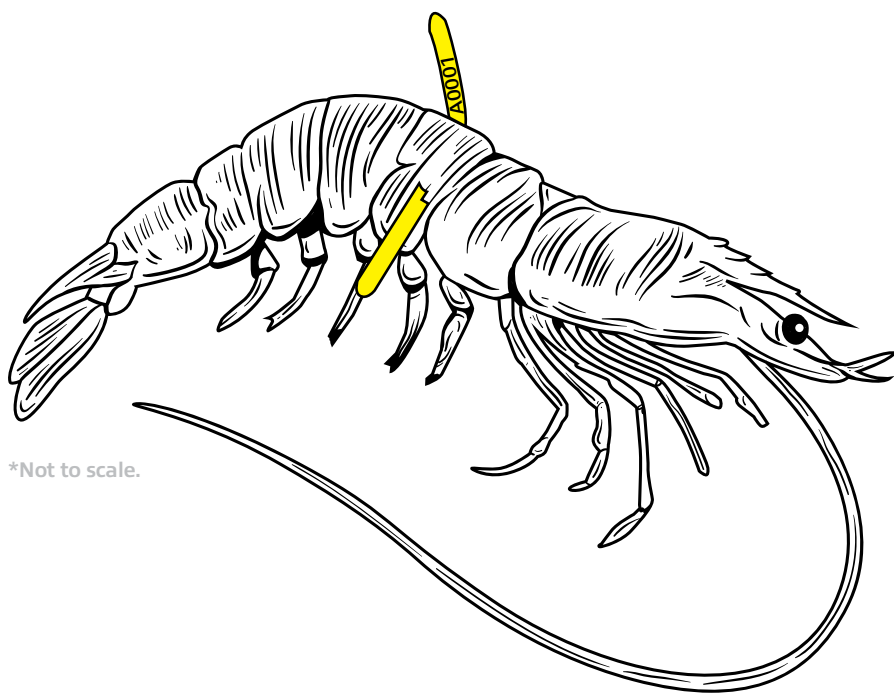
- > Ideal for small and delicate shellfish and finfish.
- > Size can be customised for an extra fee.
- > Flexible but strong polyethylene with permanent ID number marking.
- > Smaller sizes very popular for shrimps etc.
- > Needle is glued to tag end which enables easy and neat break-away from needle with pre-cut notches.
- > Streamlined assembly with applicator needle minimises tagging wound.
- > Locking flaps can improve longer term retention rates.



POLYETHYLENE STREAMER TAG LOCATION



*Not to scale.

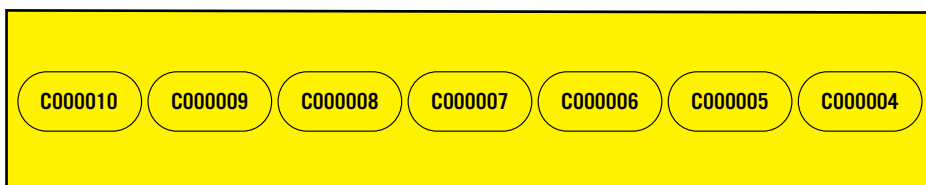


*Not to scale.

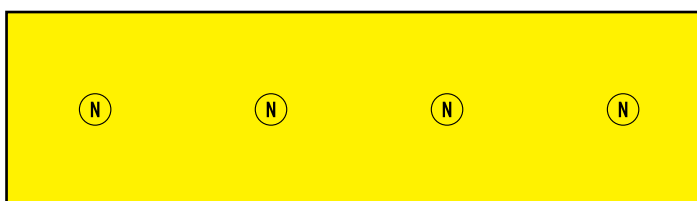
APPLICATION

- > Suitable for smaller delicate animals such as shrimp or small fish.
- > Often used for short term movement or population studies (even on larger fish) where a long-term mark is not required or even desired.
- > Follow instructions provided and/or check out web site video loops and configurator.

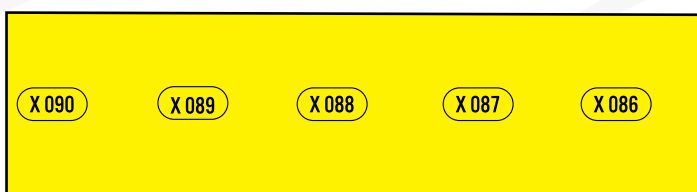
GLUE-ON SHELLFISH TAGS (FPN SERIES)



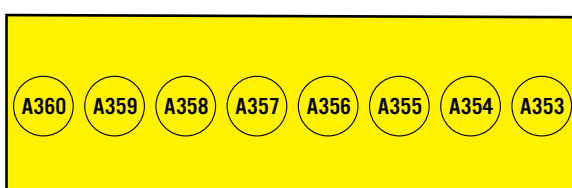
FPN 16X8



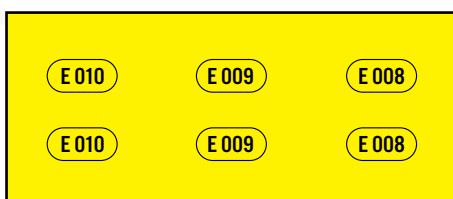
FPN 4C *Can only be printed with a single digit/character



FPN 8X4



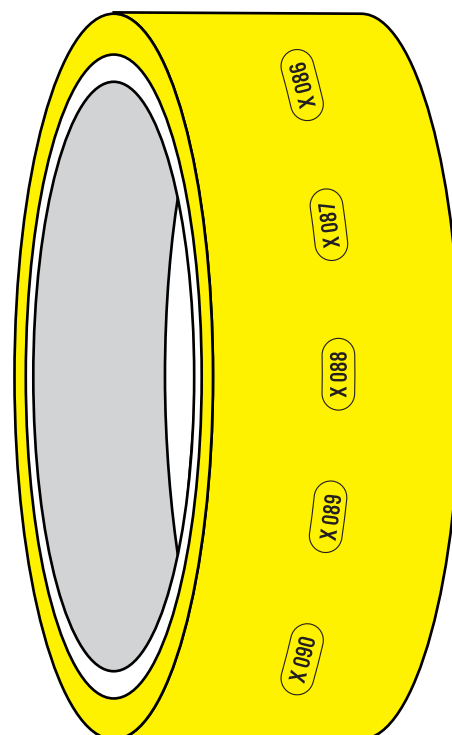
FPN 8C



FPN 8X4 PAIRS *For double tagging. Only available for FPN 8X4

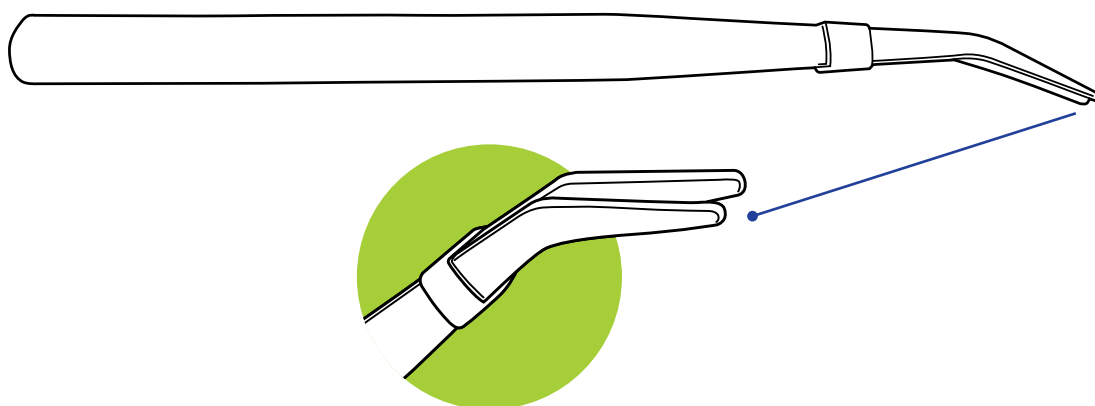
FEATURES

- > Available in rolls of 500 or 1000.
- > Superb retention rate.
- > Flexible low density polyethylene conforms to shellfish surface.
- > Easily removed in numerical order.
- > Material produced to enable optimal adhesion using superglue.
- > Permanent printing that leaves an impression in the material to ensure long term readability.

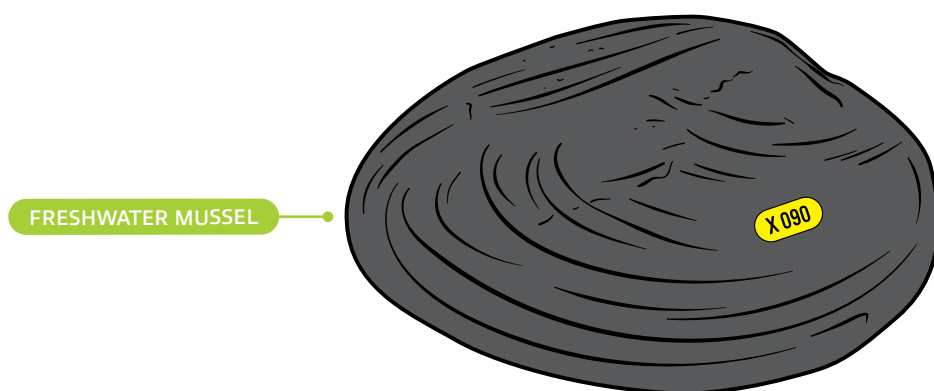


FPN 8X4 ROLL

BENT END FORCEPS (FOR APPLYING GLUE-ON SHELLFISH TAGS)



GLUE-ON SHELLFISH TAGS LOCATION



APPLICATION

- > Apply using super-glue (cyanoacrylate) from local supplier.
- > Flexible polyethylene conforms to shell surface.
- > Tags are specially treated to ensure maximum adhesion.
- > Shell surface need only be superficially dry.
- > Follow instructions provided carefully.



EXTERNAL RFID PIT TAGS (PIT SERIES)

*Please note: other external PIT options available on request and most tag lengths can be varied by negotiation.

 DENOTES PIT TAG POSITION



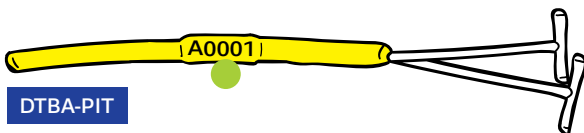
SLEEVE-PIT



HOOK-PIT



TBAT-PIT



DTBA-PIT



CTA-PIT



PDAT-PIT

FEATURES

- > Enables PIT tags to be used externally.
- > Provides extra surety for food safety.
- > Enables dual function of external ID and auto detection.
- > Available in many forms including as shown.
- > Enables fast, non-surgical application of PIT tags.

APPLICATION

- > Suitable where low frequency RFID (134.2 khz) and/or high frequency NFC (13.56 mhz) tag number reading is required or desired.
- > Allows RFID tagged fish to have external tag visibility.
- > Ensures food safety aspects for RFID tagged fish.
- > Available in a wide variety of forms including as shown (consult Hallprint).
- > Increasingly a cost-effective option against either conventional only tags or injectable PIT tags.





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