

ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES



Introduction

TapeFormers Ltd is based in the Midlands (UK), in a factory specifically designed for the manufacture of TapeFormers. We have a wide selection of laser cut and pre-machined parts so that on receipt of your order our skilled and experienced team can manufacture a TapeFormer to your specific requirements.

Our dedicated team endeavour to manufacture your TapeFormers and have them delivered to you quickly to help you meet deadlines.

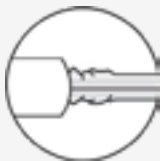
You can search through the full selection of standard TapeFormer models we manufacture in this catalogue. We also cater for individual situations should your requirements differ from our standard TapeFormer models.

Remember, TapeFormers Ltd are here to help and advise you whenever possible. For general enquiries you can contact us by telephone or email. For a free quotation please contact us with the information as in the enquiry form on page 27.

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General Information



Without a TapeFormer, folding and creasing can occur...



With TapeFormer, much less risk of folding and creasing...

USED...

To wrap shielding around a cable before final jacketing.

CAN...

Insulate all manner of cables including LAN, phone, communication and automotive cable etc.

CAN...

Fold almost all varieties of insulating tape.

ARE...

Manufactured to individual specifications and can be adapted to almost all cable making machinery.

Guarantee

All TapeFormers are manufactured on confirmation of order; we do not hold stock of TapeFormers. It is important that you check your specification/s prior to placing the order as we do not issue credit for items incorrectly ordered. All our products are manufactured to a high standard and we are totally dedicated to supplying you our customer the solution to your TapeForming requirements.

For your peace of mind we offer the following six month guarantee. We guarantee that if any TapeFormer we supply does not operate and form just as you require, we will make alterations or replace it to your total satisfaction, giving you the confidence to buy from us.

To view our Terms and Conditions please visit: www.tapeformers.com/terms-and-conditions

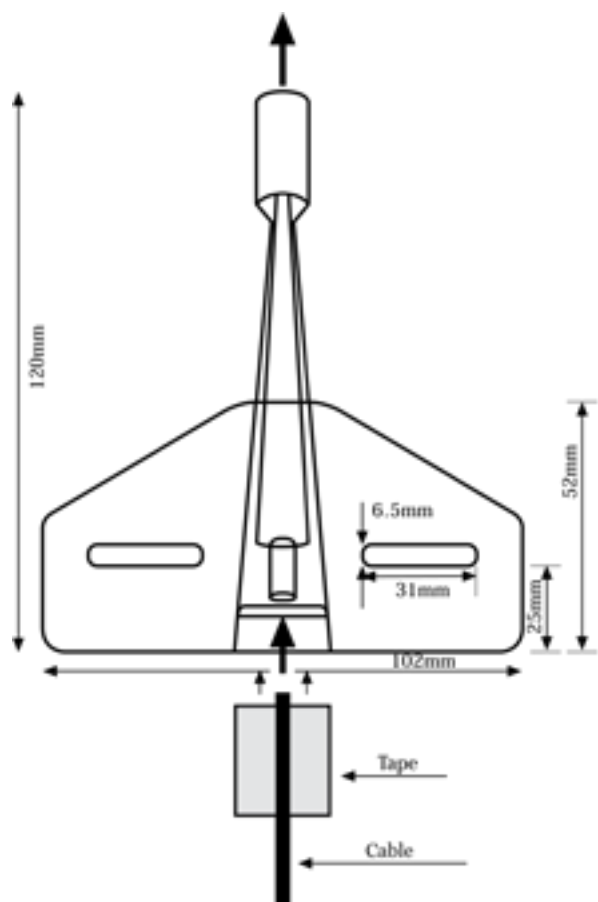
MODEL A - STANDARD RANGE

Tape widths ranging from 5mm (0.197 inch) to 20mm (0.787 inch)

Model A



Model A - Dimensions



Options Available

1 Exit Options

Standard Full Ring Exit

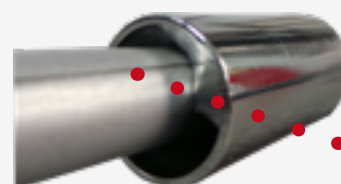


3/4 Exit Ring



Closing Exit

See page 15



No Gap

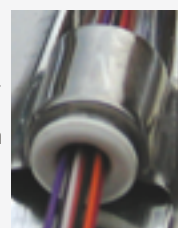
2 Cable Guide Options

Standard Short Tube Guide



Ceramic Inserts

See page 14 for information on the ceramic inserts



Full Tube Cable Guide



No Cable Guide



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



MODEL XL – EXTRA LONG RANGE

Tape widths ranging from 5mm (3/16 inch) +

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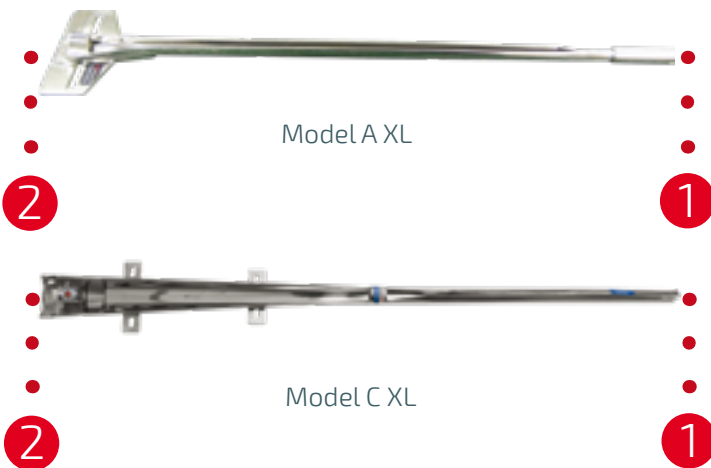
Model XL - Information

The Extra Long TapeFormer has been developed to bring the exit of the TapeFormer close to the tip inside the extruder head. The reason for having the exit close to the tip inside the extruder is so the tape is not allowed to unfold. The Model XL is manufactured to suit your application.

When ordering the Model XL please specify:

- Internal diameter of the extruder tube leading to the tip.
- The length of the tube from the entrance of the extruder to the tip.
- The distance from the TapeFormer mounting screw centres to the entrance of the extruder.

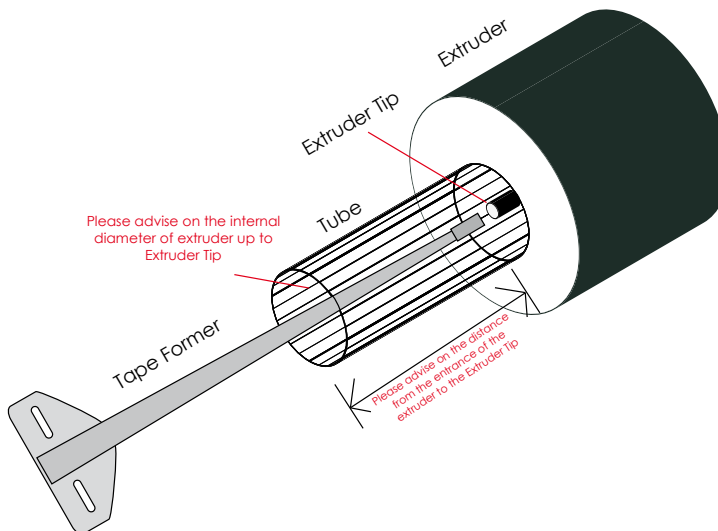
Our engineers can give you specific advice and guidance should you require.



Model A XL

Model C XL

Model A XL - Example Diagram



Options Available

1 Exit Options

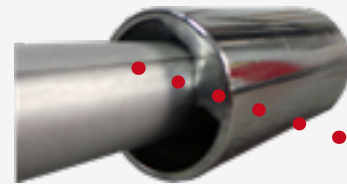
Standard Full Ring Exit



3/4 Exit Ring



Closing Exit See page 15



No Gap

2 Cable Guide Options

Standard Short Tube Guide



Ceramic Inserts
See page 14 for information on the ceramic inserts



Full Tube Cable Guide



No Cable Guide



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



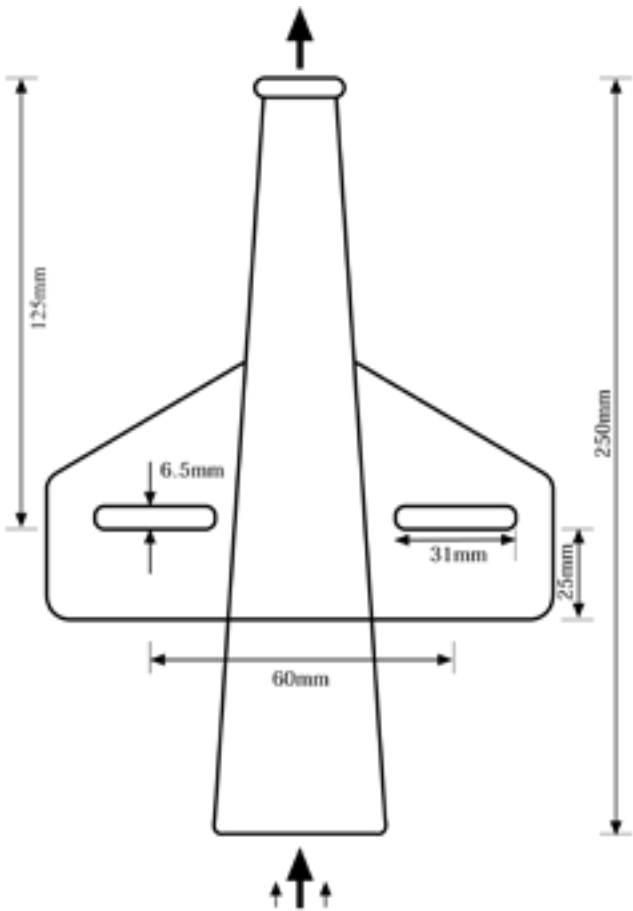
MODEL B - STANDARD RANGE

Tape widths ranging from 21mm (0.827 inch) to 35mm (1.378 inch)

Model B



Model B - Dimensions



Options Available

1 Exit Options

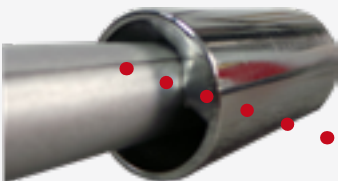
Standard Full Ring Exit



3/4 Exit Ring



Closing Exit
See page 15



No Gap

2 Cable Guide Options

Standard Short Tube Guide



Ceramic Inserts
See page 14 for information on the ceramic inserts



Full Tube Cable Guide



No Cable Guide



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



MODEL C - STANDARD RANGE

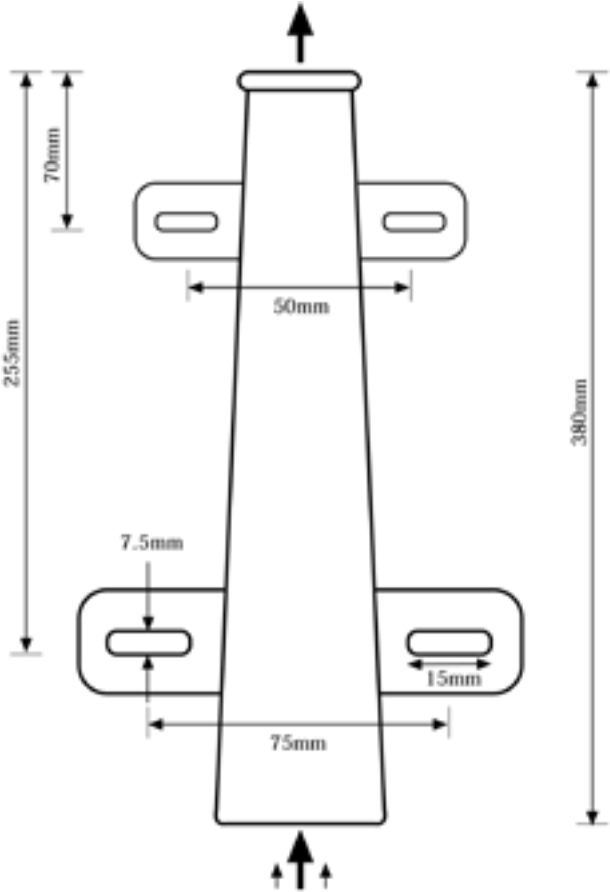
Tape widths ranging from 36mm (1.417 inch) to 50mm (1.969 inch)

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Model C



Model C - Dimensions



Options Available

1 Exit Options

Standard Full Ring Exit

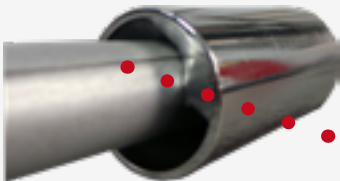


3/4 Exit Ring



Closing Exit

See page 15



No Gap

2 Cable Guide Options

Standard Short Tube Guide



Ceramic Inserts

See page 14 for information on the ceramic inserts



Full Tube Cable Guide



No Cable Guide



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



MODEL D - STANDARD RANGE

Tape widths ranging from 51mm (2 inch) to 75mm (2.953 inch)

Model D



Options Available

1 Exit Options

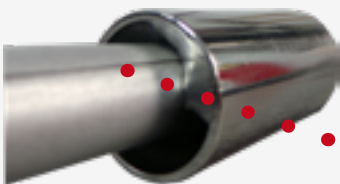
3/4 Exit Ring (Standard)



Spring Exit
See page 15



Closing Exit
See page 15



No Gap

2 Cable Guide Options

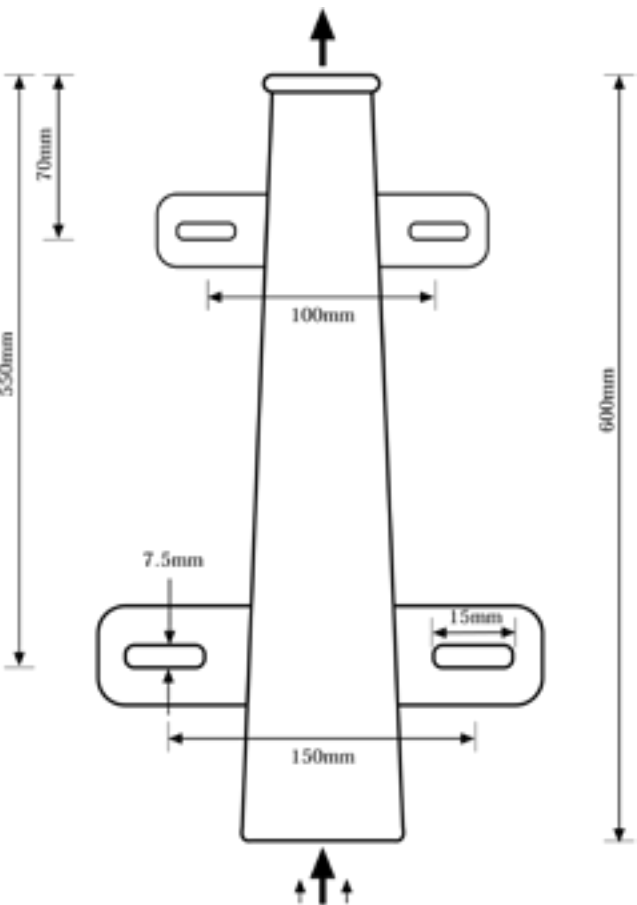
Standard Short Tube Guide



Ceramic Inserts
See page 14 for information on the ceramic inserts



Model D - Dimensions



Full Tube Cable Guide



No Cable Guide



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



MODEL E - STANDARD RANGE

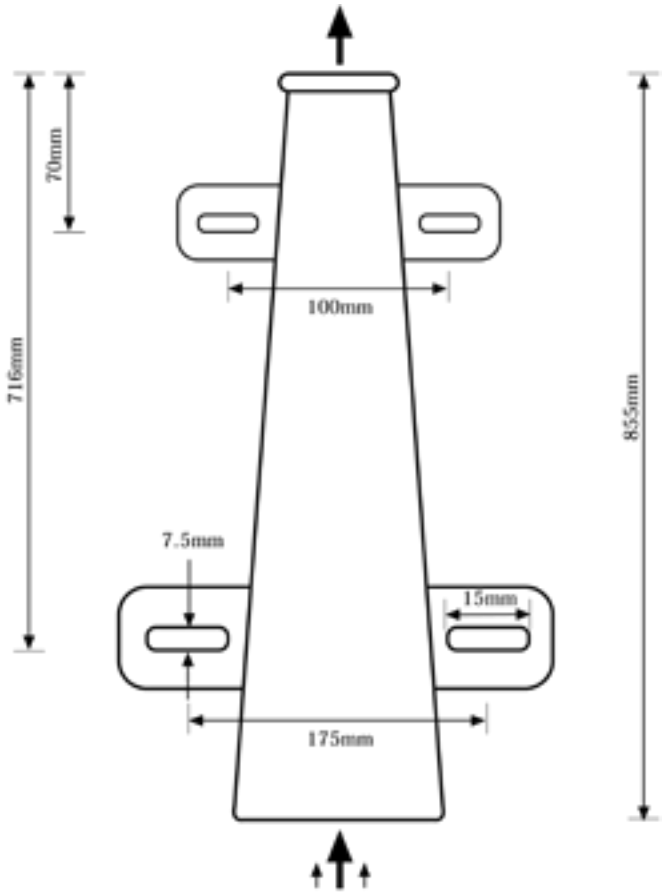
Tape widths ranging from 76mm (3 inch) to 99mm (3.898 inch)

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Model E



Model E - Dimensions



Options Available

1 Exit Options

3/4 Exit Ring (Standard)



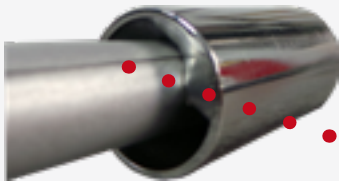
Spring Exit

See page 15



Closing Exit

See page 15



No Gap

2 Cable Guide Options

Full Tube Cable Guide



No Cable Guide (Standard)



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



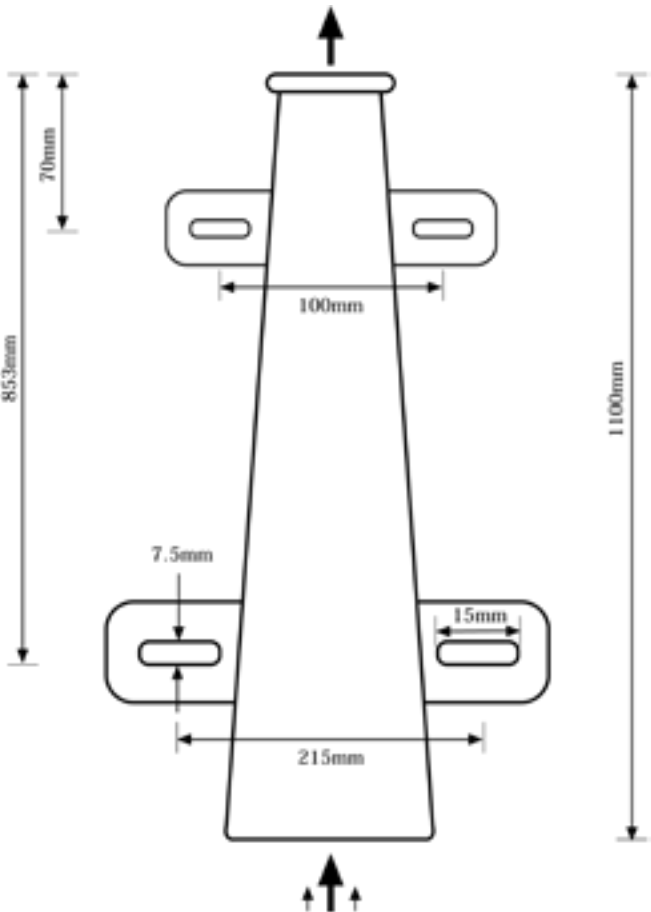
MODEL F – STANDARD RANGE

Tape widths ranging from 100mm (3.937 inch) to 130mm (5.118 inch)

Model F



Model F - Dimensions



Options Available

1 Exit Options

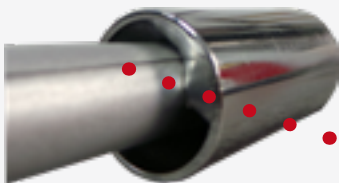
3/4 Exit Ring (Standard)



Spring Exit See page 15



Closing Exit See page 15



No Gap

2 Cable Guide Options

Full Tube Cable Guide



No Cable Guide (Standard)



No Cable Guide or Guide Plate



Friction Reduction

Low Friction Inserts

See page 14 for information on the low friction insert.



MODEL G - STANDARD RANGE

Tape widths ranging from 131mm (5.157 inch) to 180mm (7 inch) **flat entrance**. See page 13
Or from 181mm (7.1 inch) to 210mm (8.268 inch) **curved entrance**. See page 13

ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

Model G



Options Available

1 Exit Options

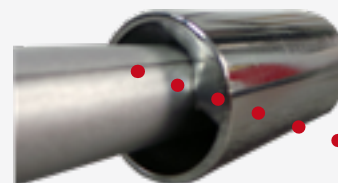
Spring Exit
(Standard)



See page 15

Closing Exit

See page 15



No Gap

3/4 Exit Ring



2 Cable Guide Options

Full Tube Cable Guide



No Cable Guide (Standard)



No Cable Guide or Guide Plate



Friction Reduction

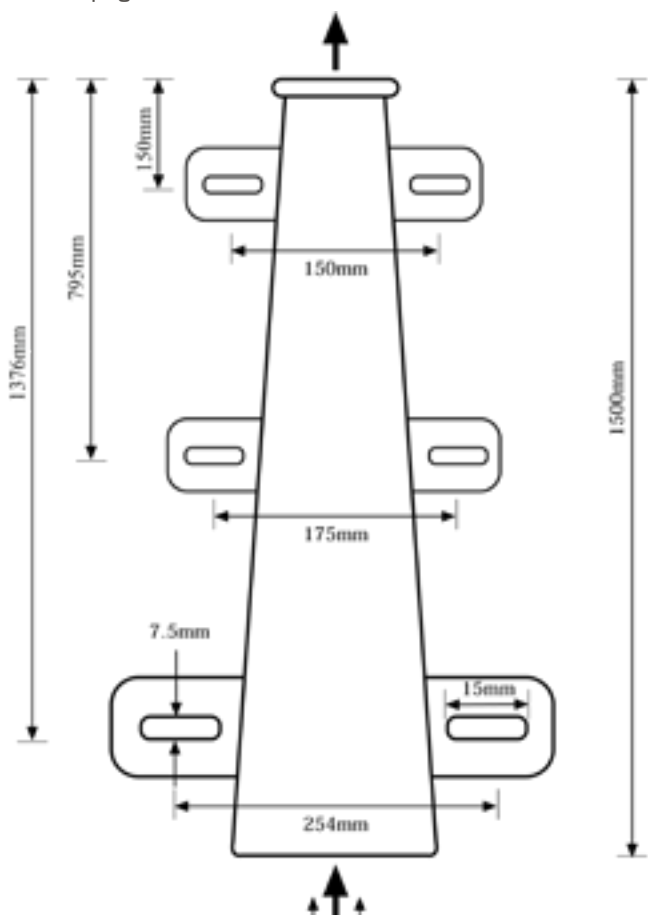
Low Friction Inserts

See page 14 for information on the low friction insert.



Model G - Dimensions

See page 13 for information on curved entrances.



Tape widths ranging from 181mm (7.1 inch) to 250mm (9.84 inch) **flat entrance**. See page 13

Tape widths ranging from 181mm (7.1 inch) to 250mm (9.84 inch) **flat entrance**. See page 13

Options Available



3/4 Exit Ring



See page 15

2 Cable Guide Options

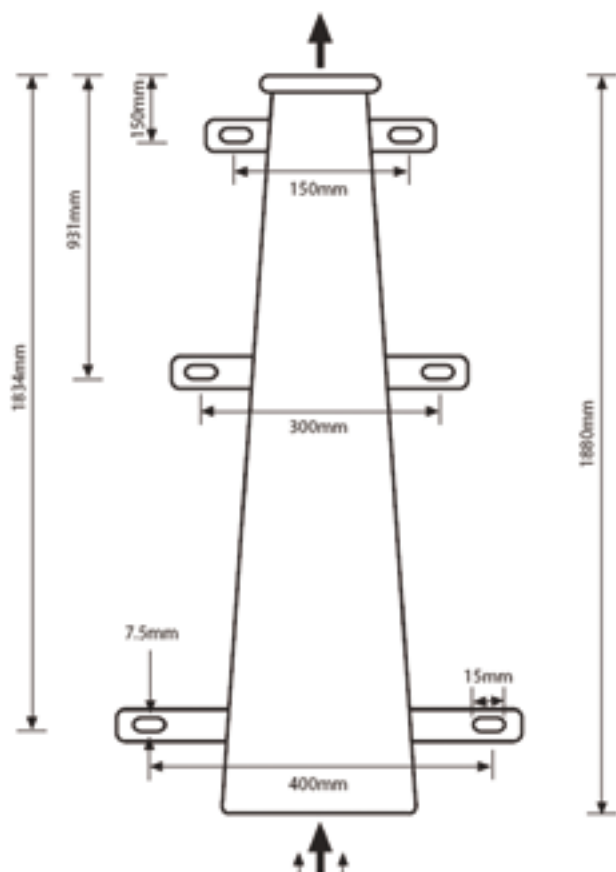


No Cable Guide or Guide Plate



Friction Reduction

See page 14 for information on the low friction insert.



MODEL H PLUS - STANDARD RANGE

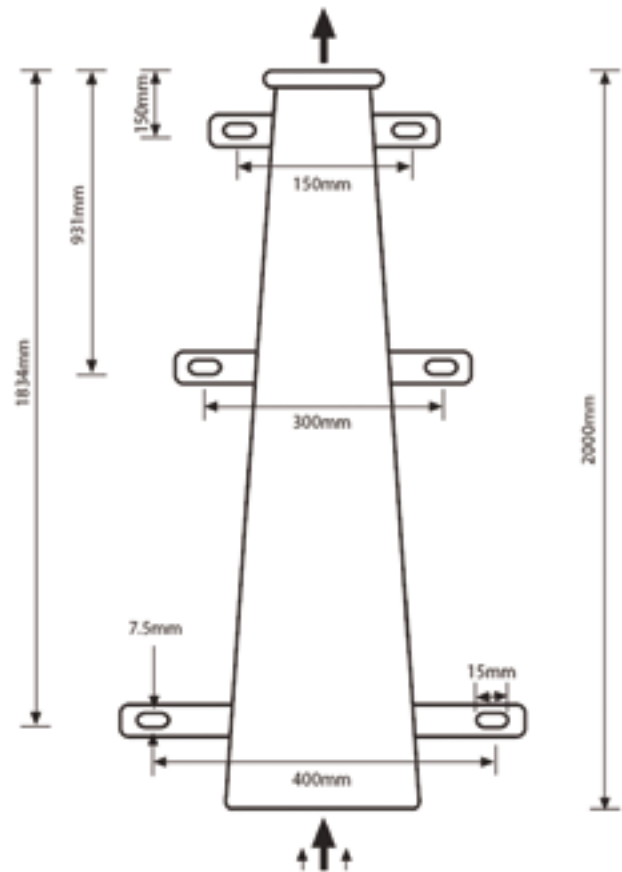
Tape widths ranging from 251mm (9.84 inch) to 480mm (18.898 inch) **curved entrance**. See page 13

Model H Plus



Model H Plus - Dimensions

See page 13 for information on curved entrances.



Options Available

1 Exit Options

Spring Exit
(Standard)



See page 15

3/4 Exit Ring



2 Cable Guide Options

Full Tube Cable Guide



No Cable Guide (Standard)



No Cable
Guide or
Guide Plate



Friction Reduction

Low Friction Inserts

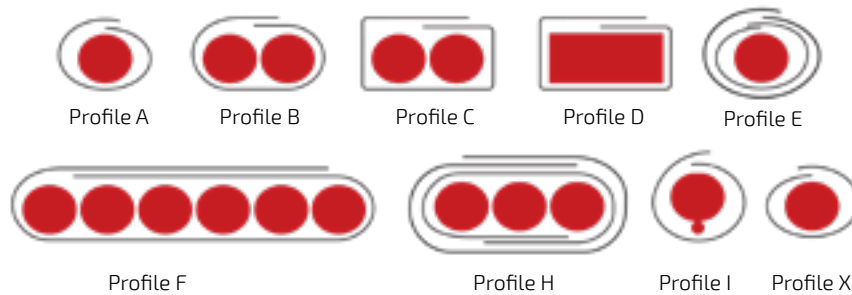
See page 14 for information on the
low friction insert.



FORMING PROFILES

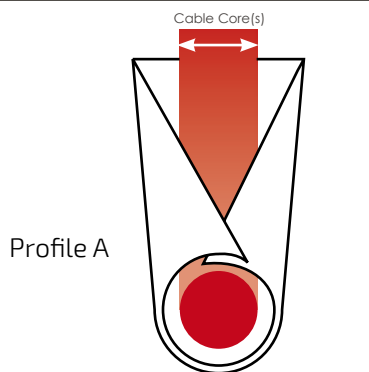
TapeForming Profiles to suit any application

Examples of Forming Profiles (Other Forming Profiles Available Upon Request)



This is Standard Overlap Wrap Directions

Cable and Tape entrance



Profile A

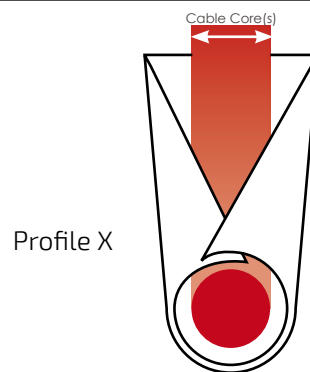
Exit of TapeFormer,
Wrap direction advice:
cabling line direction right to left.

Takeup

Operator

Payoff

Cable and Tape entrance



Profile X

Exit of TapeFormer,
Wrap direction advice:
cabling line direction left to right.

Payoff

Operator

Takeup

TAPEFORMER WITH CURVED ENTRANCE

TapeForming Profiles to suit any application

Flat entrance TapeFormer



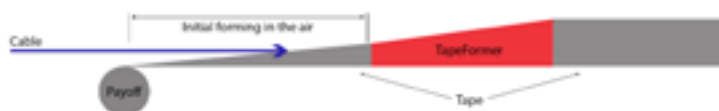
The standard flat entrance TapeFormer takes the tape from flat all the way to the formed shape.

Curved entrance TapeFormer



When it is not possible or desirable to make the TapeFormer long enough to start from the tape being flat, we can use a TapeFormer with a curved entrance. This means the initial forming of the tape is done in the air between the payoffs and the entrance of the TapeFormer. This initial forming can be aided by a pre former if necessary. It is important that there is enough space given so the tape is allowed to form in its natural length as forcing it to form in a shorter length will cause problems.

Example of the setup for a curved entrance TapeFormer



REPLACEABLE LOW FRICTION INSERT

Friction Reduction System - Extending Life and Reliability

ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

How it Works

- The low friction insert provides a very low friction barrier between the tape passing through the TapeFormer and the stainless steel.
- Available on all TapeFormers as they are manufactured with more clearance to accept the low friction insert.
- Most effective on tape thickness 0.2mm and thicker.
- Useful when the tape is used metal facing outwards.

Benefits include:

- Greatly reduced friction of the tape passing through the TapeFormer.
- When using metalised tape scoring is prevented because there is no longer a metal to metal contact.
- Low friction insert is replaceable once worn.
- Reduced breakages of the tape due to friction.

Low Friction Insert



CERAMIC INSERT

Reducing wear on the cable guide - Extending Life and Reliability

How it Works

- The purpose of the ceramic insert is to reduce wear of the initial cable guide.
- Useful when the cable is bare metal or covered with a braiding.
- Available on models A to D.

Benefits include:

- Longer cable guide life.

Ceramic Insert



SPRING EXIT OPTION

How it Works

- The Spring exit option is available on Model D, E, F, G, H, H Plus.

Spring exit features:

- Ability to adjust the exit diameter of the TapeFormer by small amounts.
- Adjustment of the spring pressure.

Benefits include:

- A constant pressure is applied to the cable maintaining a tight wrap.
- The Spring allows for small changes in the cable diameter while maintaining a good tape wrap.

Spring Exit



CLOSING EXIT OPTION

How it Works

- The top overlap is closed down resulting in no gap.

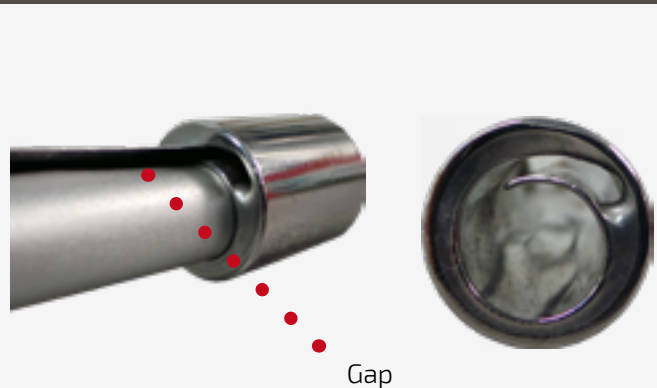
Benefits include:

- Tightly wrapped tape.
- Less likely to require closing dies.
- Possibility to use narrower tapes.

Closed Exit



Showing the difference - This is the Standard Exit

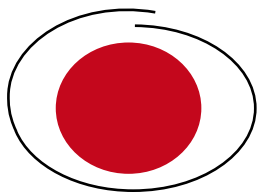


SHORT TAPEFORMERS

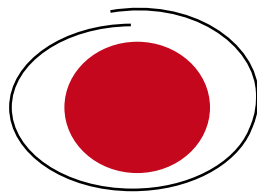
ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

How it Works

- For large tape widths, recommended 400mm +.
- Exit options are 3/4 ring exit or spring exit.
- Possible profiles are A or X.
- Curved entrance see page 13.
- Various mounting bracket designs are possible.



Profile A

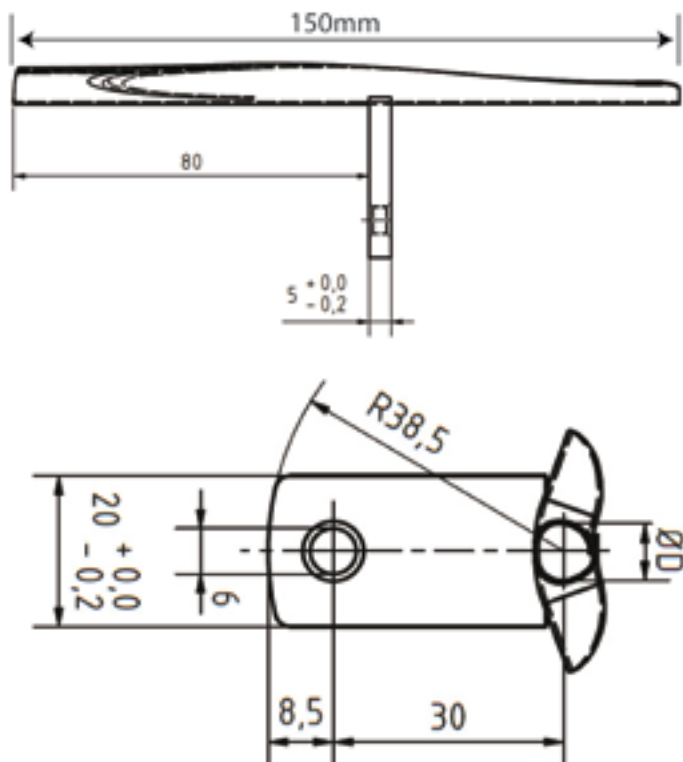


Profile X

Short TapeFormer



SNAP RUN TAPEFORMERS

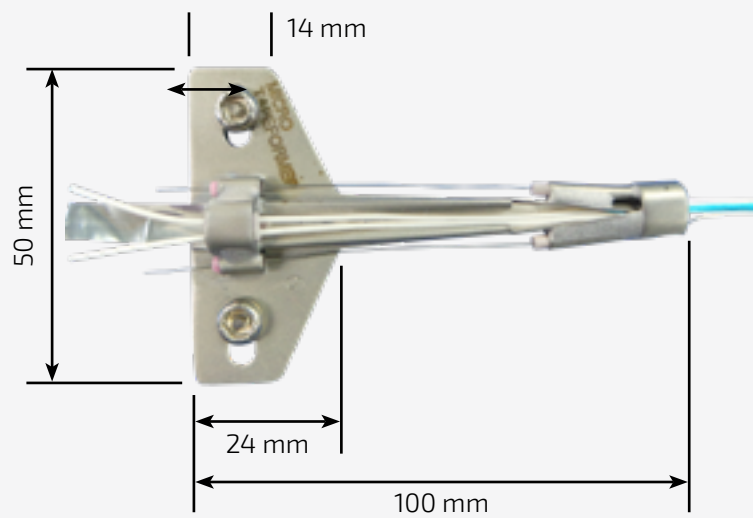


Snap Run TapeFormer



How it Works

MINIMUM Tape width 4.5mm (0.177 inch)
Cable diameters 0.6mm up to 3mm
MINIMUM Cable size 1.2mm x 0.6mm



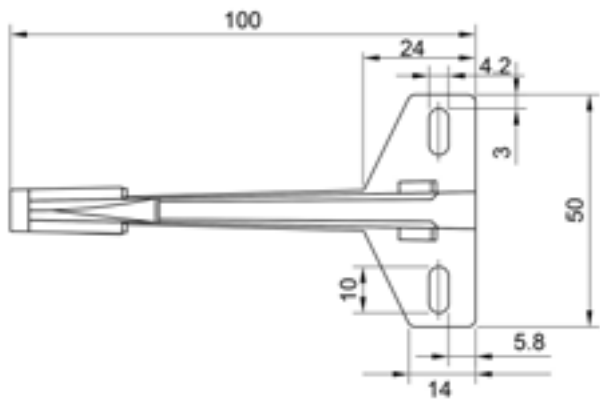
Micro Tapeformers recommended Tape width for 2 x cores	
Individual core diameter mm	Tape width mm
2 x 0.60	4.5
2 x 0.70	5.0
2 x 0.80	6.0
2 x 0.90	7.0
2 x 1.00	8.0
2 x 1.10	8.5 / 9
2 x 1.20	9.0
2 x 1.30	10.0
1.35	10.0
2 x 1.36	11.0
2 x 1.4 /1.42	11/11.5/12
2 x 1.50	11.5/12

MICRO TAPEFORMERS

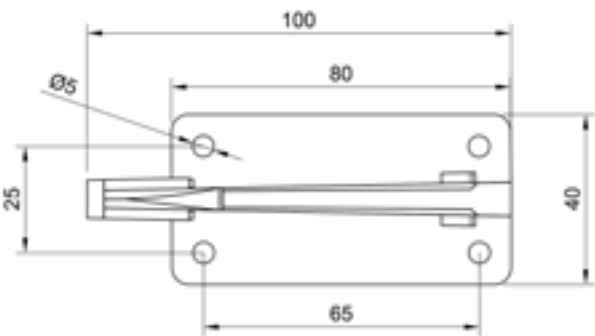
ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

Bracket Types

Bracket Type A



Bracket Type B

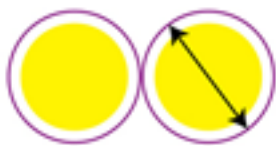


Entrance Cable Guide Design

Option 1:

Cable Design 1:

Seperate insulated cables



Diameter of each insulated cable

If a central guide is required normally it is two seperate stainless steel tubes:

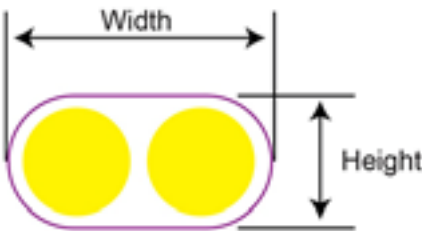


Single insulated cable entrance

Option 2:

Cable Design 2:

Bonded insulated cables



If a central guide is required it is an oval stainless steel tube:



Bonded insulated cable entrance

MICRO TAPEFORMERS

Insulated Cable and Drain Wire Guide Design

Option 1: No Drain Wire



The No Drain Wire former allows for just the longitudinally wrapping of your wire.



Single insulated cable entrance



Bonded insulated cable entrance



Option 2: Single Inside Drain Wire



The single inside drain wire former allows for a single uninsulated cable to be ran with your insulated cables inside of the tape. This is designed to be used with two single insulated cables or a dual insulated cable



Single insulated cable entrance



Bonded insulated cable entrance

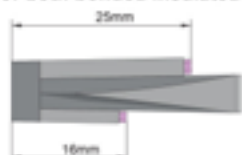
The uninsulated cable will always be underneath the insulated cables



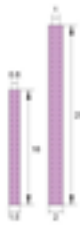
Option 3: Dual Outside Drain Wires



The dual outside drain wire former allows for two uninsulated cables to be guided all the way down the length of the former. With low friction ceramics on the entrance and exit for a lasting former. This can be configured for both bonded insulated and single insulated cables



The 16x1.5x0.8mm guide gives more control on the exit but is more prone to dust collection, if this is likely to be an issue, then the 25x2x1mm guide should be requested.



Single insulated cable entrance



Bonded insulated cable entrance



Option 4: Single Inside and Dual Outside



We can do a combination of a dual and single uninsulated cable former. This allows the former to be used in either configuration



Option 5: No Guides



Option 6: Dual Outside Drain Wires, No Guides



No Cable guide entrance

MICRO TAPEFORMERS

ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

Exit Option

All Microformers are designed and manufactured in Profile A only (cable and line direction right to left).

We offer two exit types, Elliptical and Rectangular.

If you are unsure which you would like to use, our engineers would suggest elliptical as this has proven to give a more reliable and better wrap.

Elliptical Exit



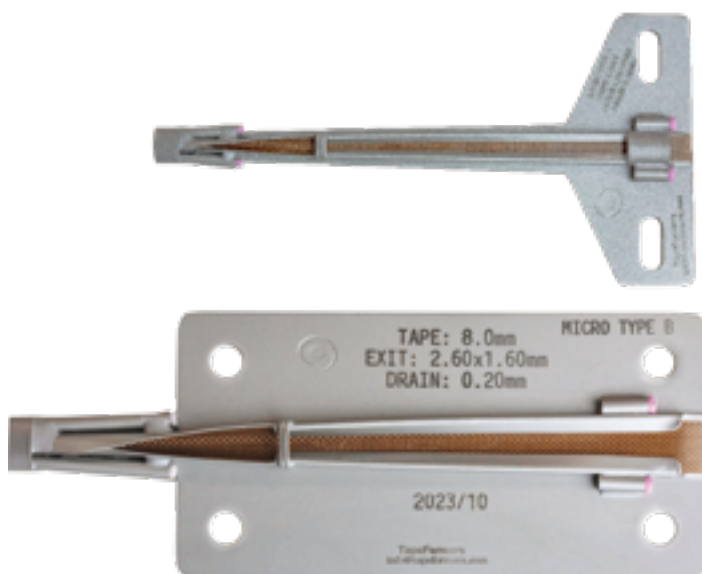
Rectangular Exit



Low Friction Inserts

In addition to standard formers, we have some features that can be added to the formers.

A low friction insert strip can be included. This is a user replaceable consumable.



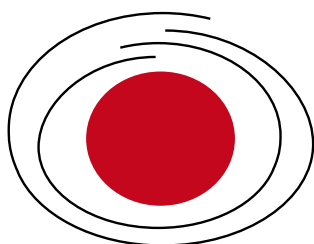
PROFILE E DOUBLEWRAP TAPEFORMER

How it Works

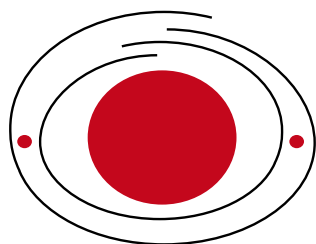
- Applies two tapes in one process.
- If required, a drain wire can be introduced between the tapes.
- Profile E is possible with tape widths from 5mm up to 280mm. Please enquire about larger tape widths.

Tape Profiles

Profile E

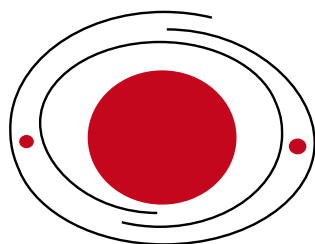


Profile E(1)

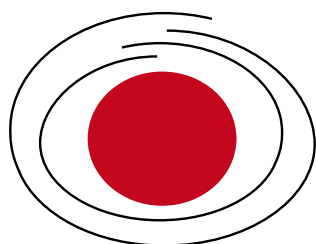


With drain wire
(Drain wire can only be positioned in
the 9 o'clock or 3 o'clock position)

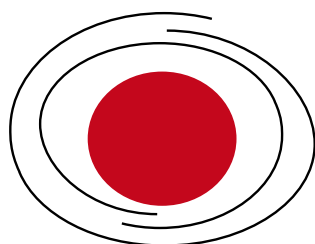
Profile E(2)



With drain wire
(Drain wire can only be positioned in
the 9 o'clock or 3 o'clock position)

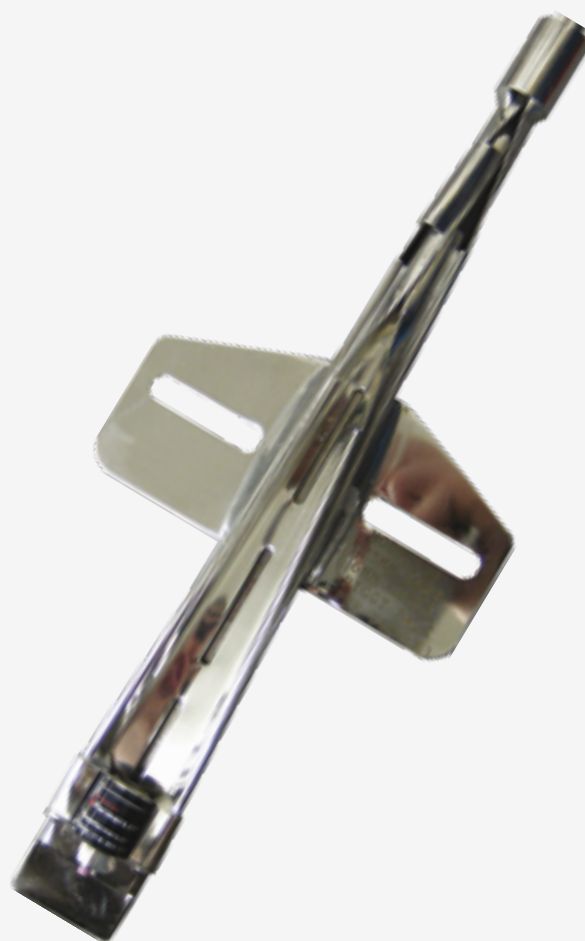


Without drain wire



Without drain wire

Profile E



Profile E Entrance

Profile E(1)



Profile E(2)



Profile E Options

Ceramic Inserts

See page 14 for further information on the ceramic inserts.



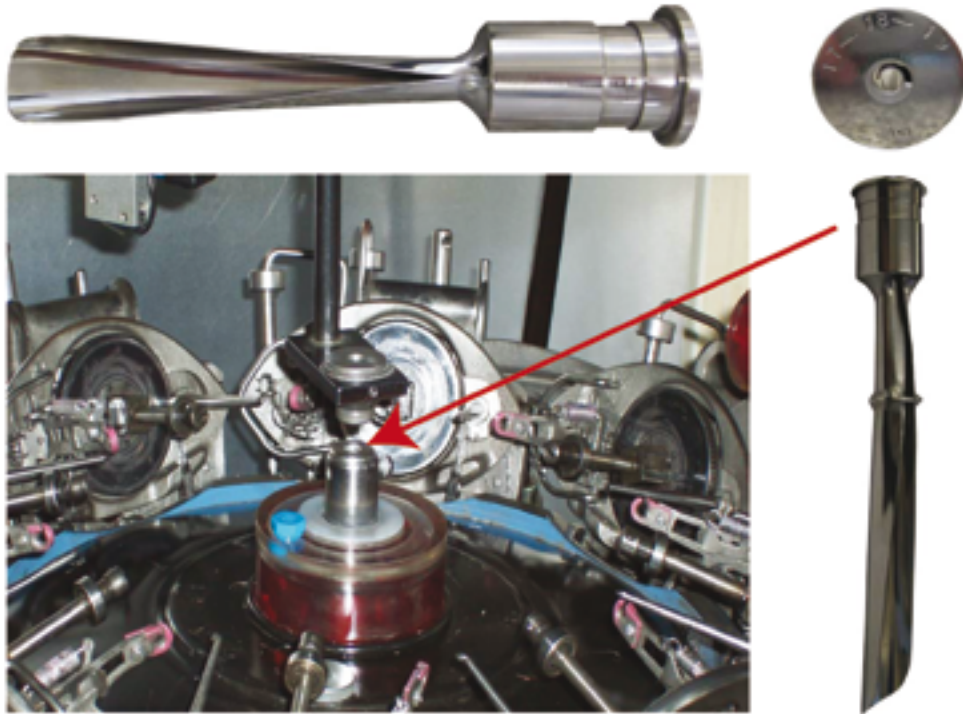
BRAIDING MACHINE TAPEFORMERS

The Solution for Braided Cable

ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

How it Works

Benefits include



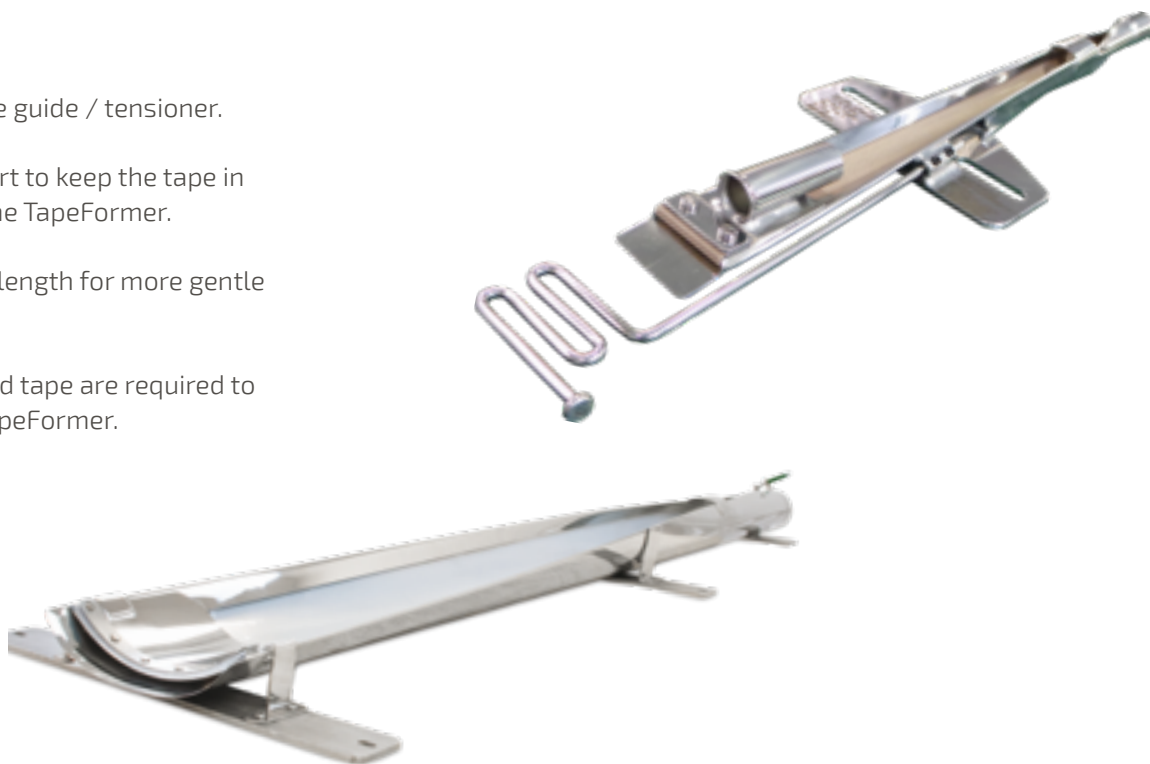
- Very accurate forming of the tape.
- Quick load times.
- Reduced tape breakages.
- Almost no tension is required on the tape.



FLEECE TAPE TAPEFORMERS

This TapeFormer has been designed for delicate tapes for example fleece.

- Pre TapeFormer tape guide / tensioner.
- Top low friction insert to keep the tape in shape throughout the TapeFormer.
- Longer TapeFormer length for more gentle tape forming.
- Samples of cable and tape are required to manufacture this TapeFormer.



LAN TWIST TAPEFORMERS

How it Works

Lan Twist TapeFormer

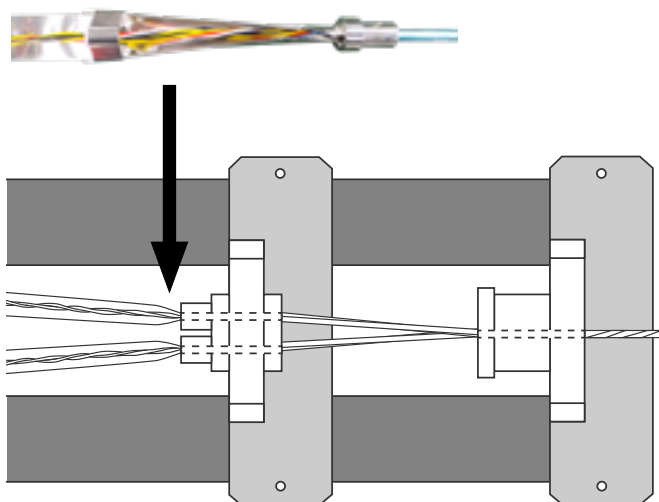
- TapeFormer designed to be mounted in a holder. Uses the closing exit to make a tight wrap of the tape around the individual bunches prior to twisting.

Benefits include:

- Guaranteed tape overlap direction.
- Better tape control.
- Tight tape form around the cable.
- Greatly reduced friction.

Tape wrap direction advice:

- Cable Z Lay = Profile A
- Cable S Lay = Profile X



USA BUILDING WIRE TAPEFORMER



Designed specially for forming paper tapes around the ground wire and then the cores and ground wire in a single TapeFormer.

How it Works

Based upon our TapeFormers Model C and D dimensions, allowing complete longitudinal paper tape wrapping during the manufacture of building wire.

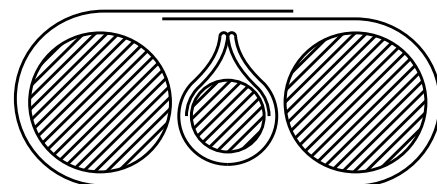
The design consists of two TapeFormers fitted together with a ceramic guide to accommodate the copper ground wire insertion.

A version is available to form tape around just the ground wire and can include guides for the insulated cores.

Information required for manufacture

- Insulated core diameter each core.
- Ground wire diameter.
- Tape width ground wire: Normally 0.875" (22mm) for all ground wire diameters.
- Tape width assembly - please visit our dedicated USA Building Wire TapeFormer pages on our website.
- Tape thickness.

Tape Profile



USA BUILDING WIRE TAPEFORMER

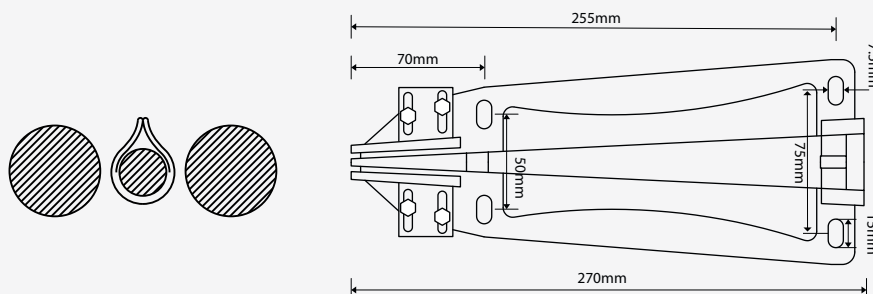


Designed specially for forming paper tapes around the ground wire and then the cores and ground wire in a single TapeFormer.

Model C Building wire TapeFormer: Ground wrap only



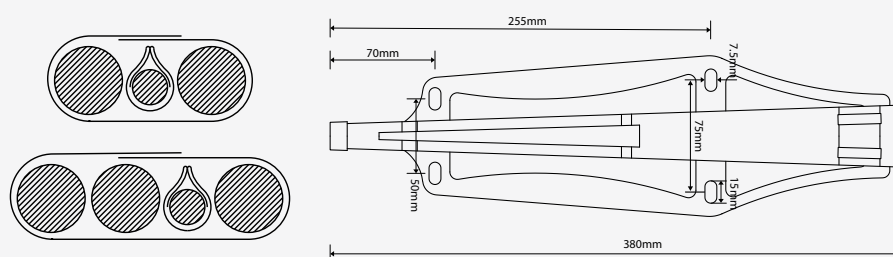
Profile



Model C Building wire TapeFormer: Outer tape widths up to 45mm (1.77")



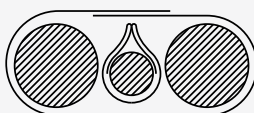
Profile



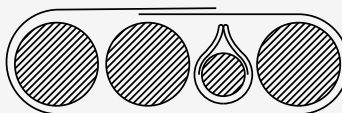
Model D Building wire TapeFormer: Outer tape widths 45mm + (1.77"+)



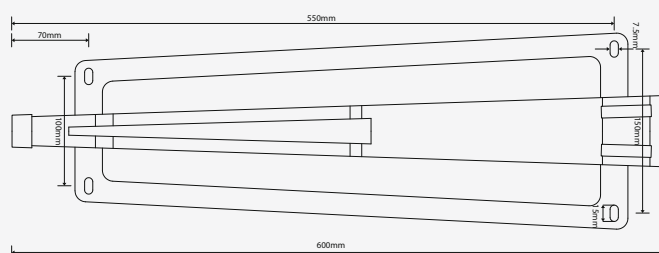
Popular Profiles



2 insulated cores 1 ground wire



3 insulated cores 1 ground wire



SPECIAL TAPEFORMER

Creating a TapeFormer to your Specific Requirements

ESSENTIAL TOOL TO LONGITUDINALLY FORM TAPES

If you have an application that will require a special design of a TapeFormer, we can develop this or replicate your existing TapeFormer design. Please contact us for more information.

Due to the nature of special TapeFormers we cannot guarantee perfect success. Any alterations or reworks will be charged for on a case by case basis.

Please email us info@tapeformers.com

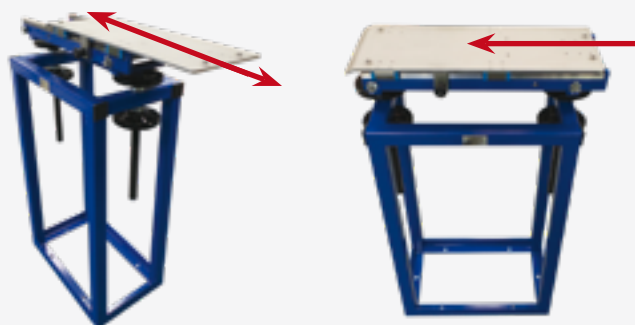


ADJUSTABLE TAPEFORMER MOUNTING BENCH

Small TapeFormer Mounting Bench

Suitable for Models A, B, C and D

The top of the mounting bench slides backwards to allow loading of the TapeFormer and forwards to allow the TapeFormer exit to be close to the extruder head.

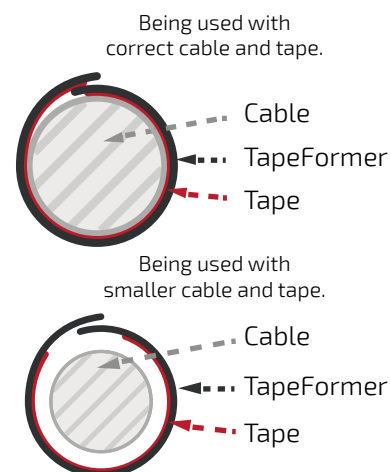


TAPEFORMER TOLERANCE

A TapeFormer exit is a fixed dimension and it is designed to be used with the cable diameter, tape width and tape thickness it has been manufactured for.

A jam will occur if a TapeFormer is used with a larger cable diameter, tape width and tape thickness than it was manufactured for, so this is not possible.

In some cases, it is possible to use a TapeFormer with a smaller cable diameter, tape width and tape thickness when used with a tape closing device e.g. a die. We cannot give guidance on how much smaller the cable and tape can be, tests need to be made to decide what is acceptable. The pictures on the right give an idea of what happens when a TapeFormer is being used with the correct size cable and tape, and a smaller cable and tape. We cannot guarantee the performance of a TapeFormer that is being used with a smaller cable and tape that it was manufactured for.



TAPEFORMER ENQUIRY FORM

Key Information for TapeFormer Models

- TapeFormers are manufactured as fixed sizes so each cable and tape combination will require a separate TapeFormer.
- The size of the TapeFormer is decided by the tape width and is shown as Models in our range.
- Tape width is decided by the cable circumference plus the required overlap.

In order to make a quotation we require the following information for each TapeFormer, please visit our website to complete a Product Enquiry Form

1. Tape Width:



2. Tape Thickness:

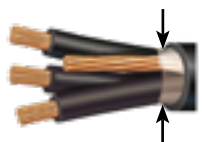


3. Is there a splice (joint) made in the tape that is to pass through the TapeFormer?

If yes what is its thickness at this point?

4. Cable diameter before tape application? or exit diameter?

Cable diameter before tape application.



or

TapeFormer exit diameter.



Please specify which dimension you are giving us.

5. Profile.

If not shown on our profiles page or website please send a picture or make a drawing.

6. TapeFormer type:

Standard Model
Model Extra Long
Short TapeFormers
Snap Run TapeFormer
Micro TapeFormer – please see our website
Profile E Double wrap TapeFormer
Braiding Machine TapeFormer
Fleece TapeFormer
LAN Twist TapeFormer
USA Building Wire TapeFormer
Special TapeFormer

7. Cable Guide options:

Ceramic Insert Models A to D
Short Tube Guide Models A to D
Full Tube Guide
No Cable Guide
No Cable Guide or Plate

8. Exit Options:

Closing Exit
Spring Exit Model D to H Plus Version
¾ Ring Exit
Full Exit Ring

9. Friction Reduction insert.

10. Customer Details:

Name:
Position:
Company:
Telephone:
Email:

FAQ: www.tapeformers.com/faq

Terms and conditions: www.tapeformers.com/terms-and-conditions

TapeFormers

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Visit our
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our brochure