



WHY KWIK-ZIP?

ABOUT KWIK-ZIP

Kwik-ZIP Casing Spacers and Centralisers were developed to solve support, grading and centralisation challenges.

Manufactured from high grade thermoplastic, kwik-ZIP products are recommended, specified and used by pipeline and civil contractors, water and gas utilities, drilling companies and international engineering firms across the world. Kwik-ZIP products are suitable for use on steel, DCL, MSCL, GRE, PVC, HDPE and other materials. They are a metal free solution.

The business is Australian based but supplies globally through specialist distributors such as Blick who can provide technical support at design and through project execution at an engineer and contractor level.

Blick distributes their products in New Zealand, Australia and throughout the Pacific.

WHY KWIK-ZIP?

The use of kwik-ZIP's modified Acetal (POM) engineering thermoplastic blend provides a significant advantages including:

- **Simplicity**
No specialist skills required to assemble. Saves a lot of time and reduces potential for mistakes.
- **Flexibility**
If a job can be designed to provide annular space of greater than 50mm you have three design options to choose from to suit all applications.
- **Reduced insertion forces**
Low coefficient of friction allows for greater run lengths and the use of lower insertion forces during installation.
- **Resilience**
Kwik-ZIP spacers and centralisers are metal free. Metallic spacers are subject to corrosion and can impart corrosive damage to the pipeline. Metallic spacers can damage the pipe.
- **Expertise**
Technical advice on the best kwik-ZIP model for your project available through Blick at design and with the contractor.

For more information, talk to us today

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WHICH SPACER DO I USE?

Selecting the most appropriate casing spacer is largely based on the intended application. You can work out which item to use based on:

1. The diameter of the pipe you are using, and;
2. The space available between the outside diameter of the pipe and the internal diameter of the hole or casing - this determines which bow height to select.

The bow height to use should always be less than the measurement of C.

GT EXAMPLE

A = 100mm inside diameter of external pipe or hole

B = 32mm bar

C = $(100 - 32) \div 2 = 68 \div 2 = 34\text{mm}$

Select the bow height that is closest size available to but less than 34.

Product Selection: GT 30-1 (30mm bow height)

HDX EXAMPLE

A = 458mm inside diameter of external pipe or hole

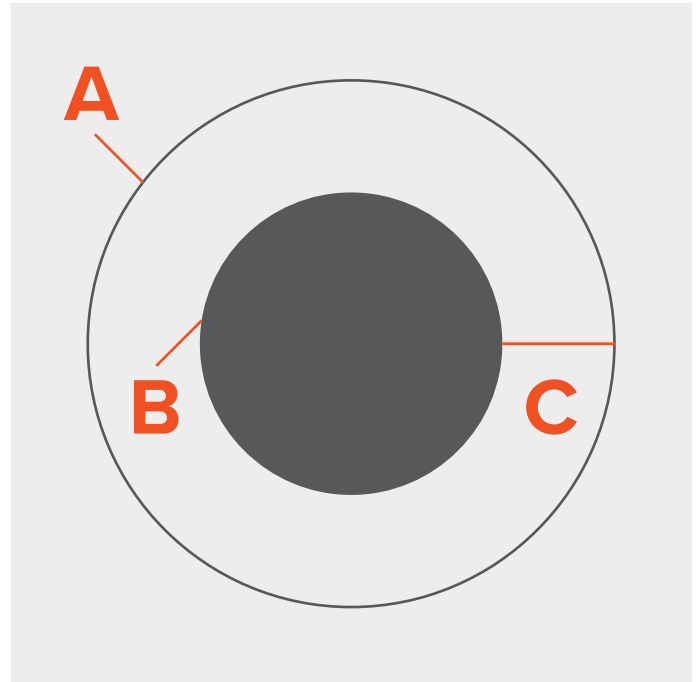
B = 355mm pipe

C = $(458 - 355) \div 2 = 103 \div 2 = 51.5\text{mm}$

Select the bow height that is closest size available to, but less than 51.5 in the selected product

Product Selection:

HDX 38 (38mm bow height) or HDXT 45 (45mm bow height)



A = Diameter of the hole

B = Outside diameter of the pipe

C = $(A - B) \div 2 = C$



Often there will be a few options that might suit. Once you've worked out your basic plan, talk to us and we can help refine the options.

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KWIK-ZIP HD SERIES

APPLICATION

A non-corroding, non-metallic heavy duty bow spring casing spacer for horizontal pipe-in-pipe (PIP) and open bore applications such as wastewater and sewer pipelines, slip lining and cased crossings.

Suitable for light to medium weight carrier pipe materials including steel, ductile, MSCL, GRE, PVC, and HDPE.

Will fit diameters from 110mm OD to greater than 1600mm OD by addition of multiple segments.

For heavy carrier pipe materials and diameters greater than 300mm in non-grouted, pressure installations the kwik-ZIP HDX or HDXT Series is recommended.

Suitable for vertical applications such as production wells, gravel packed well screens, pump torque arrestor, water well casing, coal seam methane casing, pump riser/submersible pump installation, and piling and is suitable for all pipe materials including PVC, Poly, Stainless Steel, Fibreglass and GRP.

CONSTRUCTION & FEATURES

- Made from Kwik-ZIP's modified Acetal (POM) engineering thermoplastic blend with high flexural strength, high temperature resistance, low co-efficient of friction, abrasion resistance and outstanding chemical resistance.
- Integrated rubber grip pads under collars to prevent slippage. No requirement to pre-wrap pipe.
- Load sharing bow spring system allowing heavy loads to be shared across multiple bows reducing point loading and increasing the overall load capacity of the spacer.
- The flexible bows can deflect under force to pass minor obstructions in the borehole.
- Requires only a flat blade screwdriver for installation.



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KWIK-ZIP HD SERIES

Product #	Model	Runner Height	Operating Temp (Deg °C)	Recommended for use on Pipe Diameter	Units per carton	Carton Dimensions (L x W x H)	Gross Carton Weight
1420026	HD 30	30mm	-20°C to 80°C	110mm & greater (consider the HDX or HDXT for pipe dia. greater than 300mm)	30	350mm x 330mm x 370mm	8.36 kg
1420031	HD 50	50mm	in certain applications (temperatures above 50°C may require closer intervals)		30	350mm x 330mm x 370mm	8.48 kg
1420032	HD 75	75mm			30	350mm x 330mm x 370mm	9.26 kg
1710120	HD 100	100mm			30	440mm x 330mm x 370mm	10.25 kg

SIZE TABLE

* Carrier Pipe OD (mm)	Recommended # Segments
110	2
114	2
127	2
141	2
160	2
168	3
180	3
200	3
219	3
250	4
273	4
324	**5

Please refer to the relevant product series installation guide for additional information

**For heavy weight or large diameter carrier pipes installed in the horizontal position, kwik-ZIP's heavier duty HDX or HDXT Series spacer models should be considered, especially if the pipeline annulus will not be grouted after installation.

For larger sizes please contact your Blick representative for assistance.


For pipe installed in the horizontal position, (e.g. Cased Crossings), it is recommended that the No. of bows be maximised to enable the highest load capacity per spacer.

Use the following formula to calculate the No. of segments per spacer for such pipe:

$$\text{No. of Segments} = [\text{Pipe OD (mm)} \times 3.1428] \div 180.$$

(Round the result down to nearest whole number).

Spacer intervals of 2m are generally suitable for light weight pipe up to 300mm.

 For specific advice on load, friction or wear capacities, please contact Blick to support with design at sales@blick.group or visit www.blick.group.

COMPLIANCE

- Manufactured under a certified ISO 9001 Quality Management System.
- Compliant with AS/NZS 4020:2018 Products for use in contact with drinking water.
- Compliant with lead free requirements of Section 1417 of the US Safe Water Drinking Act
- Compliant with WSAA Product Specification #324 – Casing Spacers.
- Approved by MRWA and SEQ IPAM.



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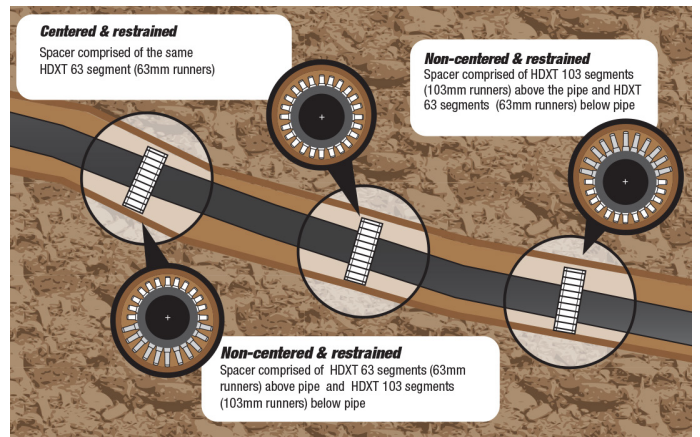
KWIK-ZIP HDX SERIES

APPLICATION

A non-corroding, non-metallic casing spacer for Pipe-in-Pipe (PIP) applications such as slip lining and cased crossings for all medium to heavy weight pipe materials including steel, DICL, MSCL, GRE, PVC and HDPE. Suitable for all diameters from 100mm to 1600mm OD and beyond by addition of multiple segments.

CONSTRUCTION & FEATURES

- Made from Kwik-ZIP's modified Acetal (POM) engineering thermoplastic blend with high flexural strength, high temperature resistance, low co-efficient of friction, abrasion resistance and outstanding chemical resistance.
- Integrated rubber grip pads under collars to prevent slippage. No requirement to pre-wrap pipe.
- Load sharing suspension system allowing heavy loads to be shared across multiple runners reducing point loading and increasing the overall load capacity of the spacer.
- Minimizes spacer weight bearing capacity and reduces point loading via a unique load sharing runner system.
- Ability to combine different runner heights in the same spacer ring to assist in bore hole grade correction.
- Larger diameters are accommodated by joining additional segments.
- Requires only a flat blade screwdriver for installation.



Product #	Model	Runner Height	Operating Temp (Deg °C)	Recommended for use on Pipe Diameter	Units per carton	Carton Dimensions (L x W x H)	Gross Carton Weight
1420027	HDX 38	38mm	-20°C to 80°C	100mm OD & greater	20	370mm x 360mm x 340mm	11 kg
1420033	HDX 65	65mm	in certain applications (temperatures above 50°C may require closer intervals)		20	370mm x 360mm x 360mm	13 kg
1420034	HDX 90	90mm			20	370mm x 360mm x 390mm	14.6 kg
1420035	HDX 125	125mm			20	370mm x 360mm x 420mm	17 kg

COMPLIANCE

- Manufactured under a certified ISO 9001 Quality Management System.
- Compliant with AS/NZS 4020:2018 Products for use in contact with drinking water.
- Compliant with lead free requirements of Section 1417 of the US Safe Water Drinking Act.
- Compliant with WSAA Product Specification #324 – Casing Spacers.
- Approved by MRWA and SEQ IPAM.

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KWIK-ZIP HDX SERIES

SIZE TABLE


* Carrier Pipe OD (mm)	Recommended # Segments	Banding
102	2	
110	2	
125	2	
140	2	
160	3	
180	3	
200	3	
225	4	
250	4	
280	5	
315	5	
355	6	
400	7	
450	8	
500	9	
560	10	
610	11	
630	11	
667	12	
711	12	
762	13	
800	14	
826	14	Yes
900	15	Yes
1000	17	Yes
1067	18	Yes
1118	19	Yes
1219	21	Yes
1321	22	Yes
1400	23	Yes
1564	25	Yes
1600	26	Yes
1668	27	Yes

Please refer to the relevant product series installation guide for additional information

* For PE Pipe refer to the nearest Carrier Pipe OD.

For pipe greater than 800mm OD, for very heavy weight pipe, or if the pipe material is slippery, it is recommended that 12mm stainless steel worm drive banding be applied over the collars.

HDX Spacers are generally suitable for heavy pipe run lengths up to 300m in good condition casings. Longer run lengths may be possible with casing lubrication, banding, and/or closer spacer intervals.

 For specific advice on load, friction or wear capacities, please contact Blick to support with design at sales@blick.group or visit www.blick.group.

LOAD SHARING

Using a unique “load sharing runner” system, each HDX segment maximises its weight bearing capacity by distributing the pipe load across multiple runners. This reduces point loading at any one location, boosting and optimising the overall support capacity of the spacer exponentially as pipe size increases. The “load sharing runner” system also delivers a suspension and dampening effect, reducing the transfer of potentially damaging vibration and movement from the outer casing to the carrier pipe. This may be beneficial in tectonically active regions or high traffic areas where ongoing external vibration affects the outer casing.

When used in accordance with the Installation Guide, HDX Spacers will easily handle weights equivalent to a standard Ductile Iron Cement Lined (DIDL) pipe full of fluid.

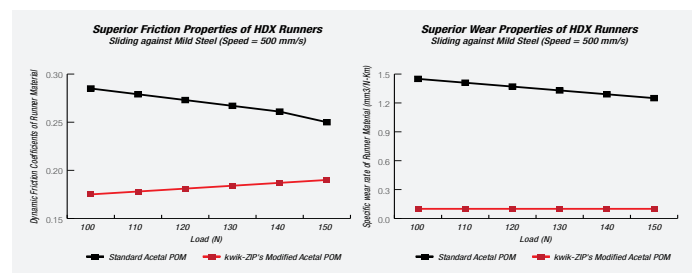
FRICITION AND WEAR CAPABILITIES

Acetal (POM) is well known as being one of the best materials for applications requiring excellent abrasion / wear resistance and a low coefficient of friction. It performs better than alternative materials such as Nylon and HDPE.

HDX Spacers are fitted with wear pads made from kwik-ZIP’s modified Acetal (POM) engineering thermoplastic blend to achieve even better abrasion resistance and a lower coefficient of friction, especially under high load conditions.

These properties allow for greater run lengths and lower insertion forces during carrier pipe installation.

The graphs below compare the dynamic coefficient of friction, and the wear rate (against carbon steel) of the material used to make the HDX wear pads verses standard Acetal (POM).



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KWIK-ZIP HDXT SERIES

APPLICATION

A non-corroding, non-metallic casing spacer for Pipe-in-Pipe (PIP) applications such as slip lining and cased crossings for all heavy weight pipe materials including steel, ductile, MSCL, GRE, PVC and HDPE. Suitable for all diameters from 300mm OD and beyond by addition of multiple segments.

CONSTRUCTION & FEATURES

- Made from Kwik-ZIP's modified Acetal (POM) engineering thermoplastic blend with high flexural strength, high temperature resistance, low co-efficient of friction, abrasion resistance and outstanding chemical resistance.
- Integrated rubber grip pads under collars to prevent slippage. No requirement to pre-wrap pipe.
- Load sharing suspension system allowing heavy loads to be shared across multiple runners reducing point loading and increasing the overall load capacity of the spacer.
- Minimizes spacer weight bearing capacity and reduces point loading via a unique load sharing runner system.
- Ability to combine different runner heights in the same spacer ring to assist in bore hole grade correction.
- Larger diameters are accommodated by joining additional segments.
- Requires only a flat blade screwdriver for installation.



Product #	Model	Runner Height	Operating Temp (Deg °C)	Recommended for use on Pipe Diameter	Units per carton	Carton Dimensions (L x W x H)	Gross Carton Weight
1710329	HDXT 43	43mm	-20°C to 80°C (HDXT Hi Load Inserts should be used for service temperatures above 50°C)	300mm OD & greater	20	640mm x 360mm x 330mm	20.2 kg
1710330	HDXT 63	63mm			20	640mm x 360mm x 375mm	22.8 kg
1710331	HDXT 103	103mm			20	640mm x 360mm x 445mm	26.2 kg
1710206	HDXT 153	153mm			20	640mm x 360mm x 570mm	31.2 kg

COMPLIANCE

- Manufactured under a certified ISO 9001 Quality Management System.
- Compliant with AS/NZS 4020:2018 Products for use in contact with drinking water.
- Compliant with lead free requirements of Section 1417 of the US Safe Water Drinking Act.
- Compliant with WSAA Product Specification # 324 – Casing Spacers.

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KWIK-ZIP HDXT SERIES

SIZE TABLE

* Carrier Pipe OD (mm)	Recommended # Segments	Banding
300	3	
315	3	
355	3	
400	4	
450	4	
500	5	
560	5	
610	6	
660	6	
711	7	
762	7	
800	8	
826	8	
900	8	
914	8	
1000	9	
1067	10	Yes
1118	10	Yes
1219	11	Yes
1321	12	Yes
1400	13	Yes
1564	14	Yes
1600	15	Yes
1668	16	Yes
1800	17	Yes
1900	18	Yes
2000	19	Yes
2200	20	Yes
2500	23	Yes
3000	27	Yes

Contact Blick for carrier pipe diameters greater than 3000mm OD

* For PE Pipe refer to the nearest Carrier Pipe OD.

For pipe greater than 1000mm OD, or if the pipe material is slippery, it is recommended that 12mm stainless steel worm drive banding be considered for application over the collars.

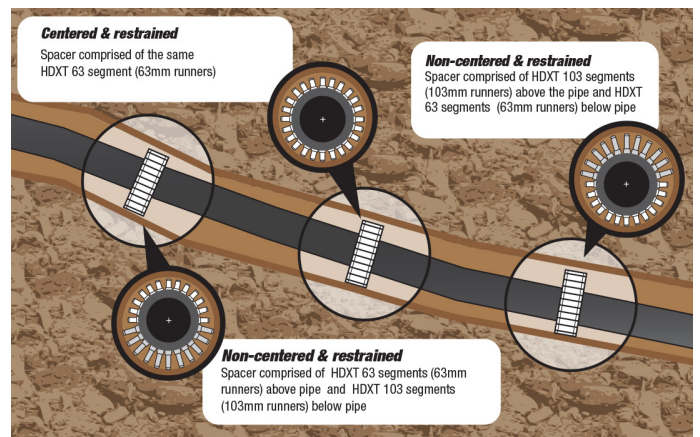
HDXT Spacers are generally suitable for heavy pipe run lengths up to 300m in good condition casings. Longer run lengths may be possible with casing lubrication, banding, and/or closer spacer intervals.

You can also use HDXT Load Inserts to boost the load capacity for heavy loads.

LOAD SHARING

Using a unique “load sharing runner” system, each HDXT segment maximises its weight bearing capacity by distributing the pipe load across multiple runners. This reduces point loading at any one location, boosting and optimising the overall support capacity of the spacer exponentially as pipe size increases. The “load sharing runner” system also delivers a suspension and dampening effect, reducing the transfer of potentially damaging vibration and movement from the outer casing to the carrier pipe. This may be beneficial in tectonically active regions or high traffic areas where ongoing external vibration affects the outer casing.

When used in accordance with the Installation Guide, HDXT Spacers will easily handle weights equivalent to a standard Ductile Iron Cement Lined (DIDL) pipe full of fluid.



FRICITION AND WEAR CAPABILITIES

HDXT Spacers are fitted with wear pads made from kwik-ZIP’s engineered thermoplastic blend to achieve superior abrasion resistance and a low coefficient of friction, especially under high load conditions.

These properties allow for greater run lengths and lower insertion forces during carrier pipe installation.



For specific advice on load, friction or wear capacities, please contact Blick to support with design at sales@blick.group or visit www.blick.group.

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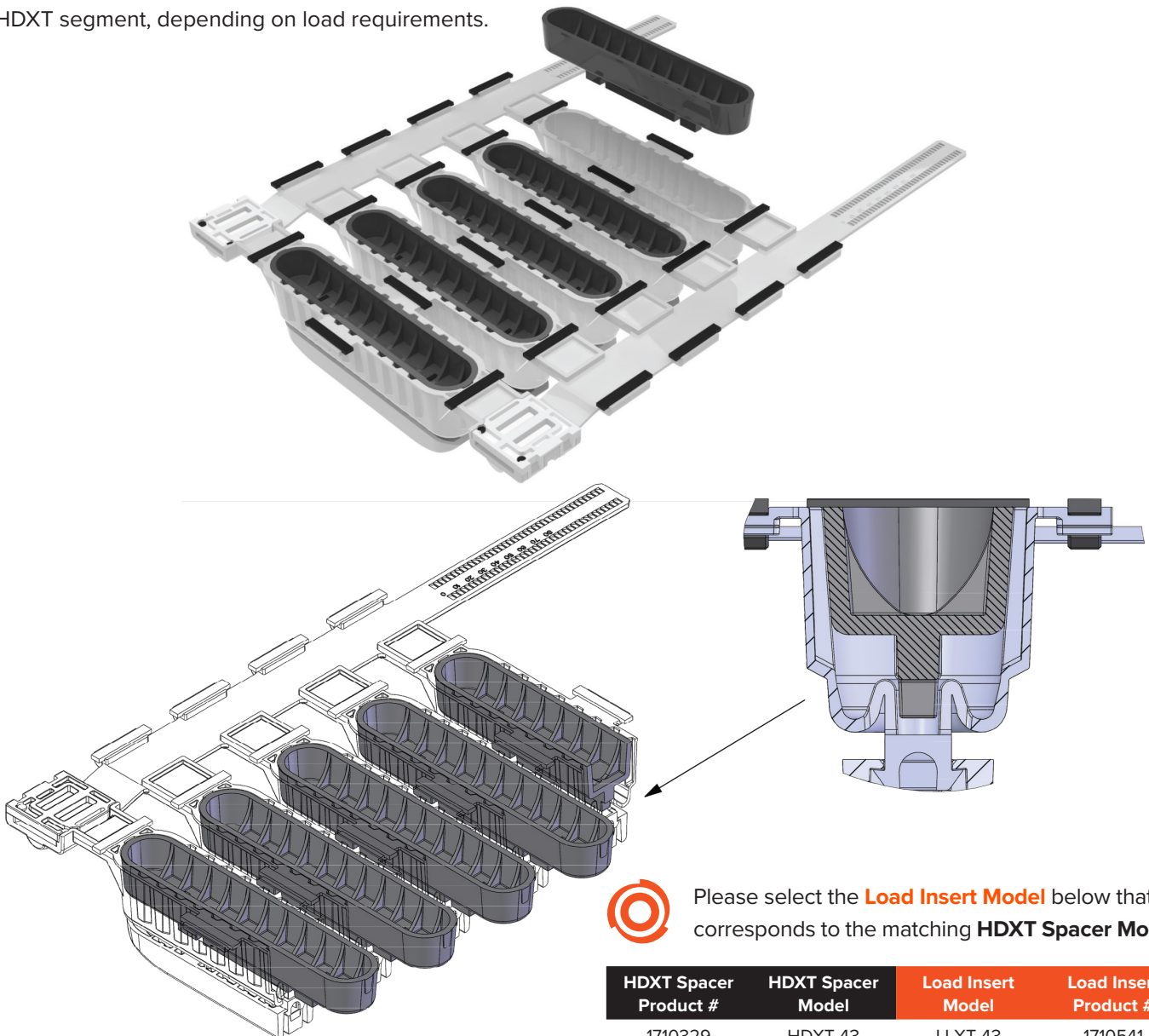
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HDXT LOAD INSERT INSTALLATION

- HDXT Load Inserts are designed to boost the load capacity of the HDXT Spacer System if required for very heavy applications.
- They also allow HDXT spacers to continue to carry heavy loads at elevated temperatures.
- HDXT Load Inserts can be used in either in every runner, or just in the centre and outer runners on each HDXT segment, depending on load requirements.

- Align load insert as shown with the cavity on the underside of the runner.
- Press firmly into place until flush with the runner.
- Please contact Blick for further information.



Please select the **Load Insert Model** below that corresponds to the matching **HDXT Spacer Model**.

HDXT Spacer Product #	HDXT Spacer Model	Load Insert Model	Load Insert Product #
1710329	HDXT 43	LI-XT 43	1710541
1710330	HDXT 63	LI-XT 63	1710542
1710331	HDXT 103	LI-XT 103	1710543
1710206	HDXT 153	LI-XT 153	1710540

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KWIK-ZIP 155 SERIES

APPLICATION

A metal free bow spring centraliser for applications such as gravel packed screens, water well casing, monitor wells, drop pipe, and pump installation plus Ground Engineering related applications such as piles, soil nails, anchors and sheathing installations. This model will fit casing and sheathing diameters from 58mm OD to in excess of 180mm OD, and is available in three bow heights of 20mm, 30mm, and 50mm.

CONSTRUCTION & FEATURES

- Made from Kwik-ZIP's modified Acetal (POM) engineering thermoplastic blend with high flexural strength, high temperature resistance, low co-efficient of friction, abrasion resistance and outstanding chemical resistance.
- Flexible bow able to deflect to handle tight annulus settings.
- The flexible bows can deflect under force to pass minor obstructions in the borehole.
- Larger diameters are accommodated by joining additional segments.
- A 155 Series setting tool is required for assembly.

COMPLIANCE

- Manufactured under a certified ISO 9001 Quality Management System.
- Compliant with AS/NZS 4020:2018 Products for use in contact with drinking water.
- Compliant with lead free requirements of Section 1417 of the US Safe Water Drinking Act
- Compliant with WSAA roduct Specification #324 - Casing Spacers.



SIZE TABLE

Outside diameter of casing (mm)	Recommended # Segments
60	2
70	2
80	2
90	3
100	3
110	3
120	3
130	3
140	3
150	4
160	4
170	4
180	4

Please refer to the relevant product series Installation Guide for additional information.



For specific advice on load, friction or wear capacities, please contact Blick to support with design at sales@blick.group or visit www.blick.group.

Product #	Model	Runner Height	Operating Temp (Deg °C)	Recommended for use on Pipe Diameter	Units per carton	Carton Dimensions (L x W x H)	Gross Carton Weight
1420002	155 HT-C	20mm	-20°C to 80°C	58mm OD - 180mm OD	30	290mm x 230mm x 230mm	1.7 kg
1710606	155 HT-D	30mm	in certain applications (temperatures above 50°C may require closer intervals)		30	290mm x 230mm x 230mm	1.7 kg
1420001	155 HT-E	50mm			30	290mm x 230mm x 230mm	1.7 kg
1420006	155 Series Setting Tool	-	-	-	1	485mm x 150mm x 58mm	1.5 kg

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KWIK-ZIP GT SERIES

APPLICATION

A metal free bow spring centraliser for applications such as soil nails, rock bolts, anchors, sheathing, small diameter drop pipe, down hole cameras, geophysical tools and other data collection devices.

Adjustable diameters to fit 16mm to 65mm OD and four models to suit ID-OD combinations.

CONSTRUCTION & FEATURES

- Made from Kwik-ZIP's modified Acetal (POM) engineering thermoplastic blend with high flexural strength, high temperature resistance, low co-efficient of friction, abrasion resistance and outstanding chemical resistance.
- Curved and wide bow profile for easy insertion.
- Simple integrated cable tie method of assembly. No special tool required for installation.
- The flexible bows can deflect under force to pass minor obstructions in the borehole.
- Larger diameters are accommodated by joining additional segments.




COMPLIANCE

- Manufactured under a certified ISO 9001 Quality Management System.
- Compliant with AS/NZS 4020:2018 Products for use in contact with drinking water.
- Compliant with lead free requirements of Section 1417 of the US Safe Water Drinking Act.

SIZE TABLE

Carrier Pipe OD (mm)	Recommended # Segments
16mm - 29mm	2
29mm - 46mm	3
46mm - 65mm	4
Over 65mm	Use 155 HT Series

Product #	Model	Runner Height	Operating Temp (Deg °C)	Recommended for use on Pipe Diameter	Units per carton	Carton Dimensions (L x W x H)	Gross Carton Weight
1420010	GT 10-1	10mm	-20°C to 80°C in certain applications (temperatures above 50°C may require closer intervals)	16mm OD - 65mm OD	100	265mm x 140mm x 210mm	1.45 kg
1420011	GT 20-1	20mm			100	288mm x 184mm x 178mm	1.67 kg
1420016	GT 30-1	30mm			100	339mm x 184mm x 218mm	2 kg
1420021	GT 40-1	40mm			100	358mm x 184mm x 260mm	2.69 kg

 For specific advice on load, friction or wear capacities, please contact Blick to support with design at sales@blick.group or visit www.blick.group.

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SUPPLIER CONTACT

Blick are the regional distributor of kwik-ZIP casing spacers & centralisers in New Zealand and the Pacific Islands.

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