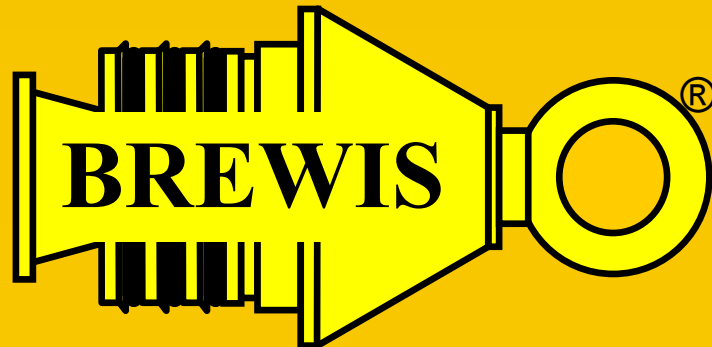


Brewis Engineering Limited

Design and Manufacture



+44 (0)1373 468864

Handlemaker Road Marston Trading Estate Frome BA11 4RW

www.brewisengineering.co.uk

Metric

Solving Trenchless Technology Problems since 1984

About us

Brewis Engineering Limited was founded in 1984 by Rod Brewis and became a Limited Company in 2003.

Our roots have always been in the Trenchless Technology Industry and we have a long track record of designing, developing and manufacturing innovative products.

We are an ISO9001 registered company operating from modern premises in Frome, Somerset, about 10 miles south of Bath.

Our machine shop is well equipped with modern CNC machine tools and complementary manual machines for low volume and prototype work. We also have extensive test facilities.

Visit our website for more information

www.brewisengineering.co.uk



Contacts



Rod Brewis
Managing Director



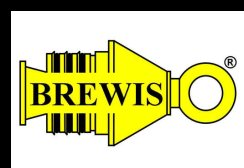
Paula Fitch
Commercial Director



Mike Rudd
Operations Director

Brewis Engineering Limited
Handlemaker Road
Marston Trading Estate
Frome Somerset UK BA11 4RW

☎ +44 (0) 1373 468864
☎ +44 (0) 1373 468865
sales@brewisengineering.co.uk
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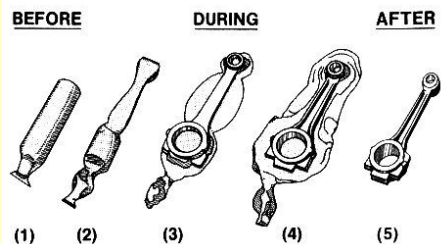
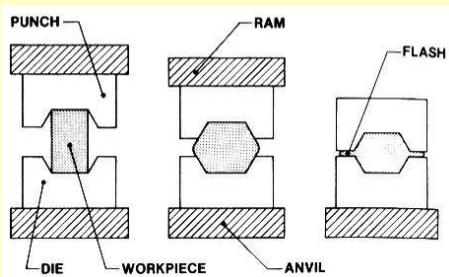
EYEBOLTS



Drop Forging Process

During the forging process a piece of red hot steel is hammered between two dies to make the eyebolt. The resulting part is very strong and tough.

Brewis eyebolts are made from high tensile alloy steel of a much higher specification than commercially produced catalogue parts.



The eyebolts fitted in Brewis Standard Towing Heads are forged from a single piece of **high tensile alloy steel**. This gives them incredible strength.

Forging tools are expensive, to keep costs down most of our competitors use an eye nut with a length of studding welded in. In our experience they are more prone to stretching, bending or breaking.

Having invested so much time and money in getting to the pull in stage why take a risk with an inferior towing head?

Brewis eyebolts are manufactured specially for us in the UK. They are far superior to off the shelf eyebolts.

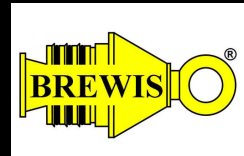


Comparison between Brewis Eyebolts and BS529 Part1 1944 Long Shank Collared Eyebolts

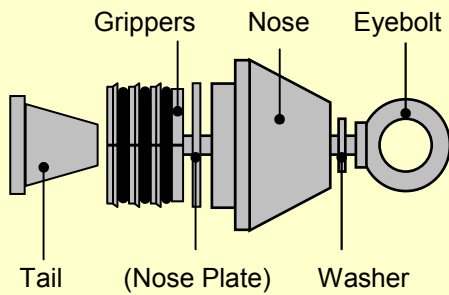
Size	Brewis (Breaking Load)	BS529 Pt1 (Breaking Load)
3/8"	45kN (4.6 Tonne)	1 Tonne
1/2"	71kN (7.25 Tonne)	2.5 Tonne
3/4"	189kN (19.28 Tonne)	7 Tonne
1"	295kN (30.1 Tonne)	13.75 Tonne
1 1/2"	707kN (72.1 Tonne)	

Brewis Engineering Limited
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Marston Trading Estate
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STANDARD TOWING HEAD



The **Standard Towing Head** is a simple device that attaches to the end of a piece of pipe to allow it to be pulled.

It is designed for use with polyethylene pipe of wall thickness between *SDR11 & SDR 17.6. (Other materials and wall thicknesses can also be accommodated upon request.)

It is operated by simply inserting it into the pipe and turning the eyebolt. The turning action draws a cone into four toothed segments which are forced into the wall of the pipe. The harder the eye is pulled the harder the pipe is gripped. The grip is so good that it is possible to stretch the pipe!



Eyebolts








The eyebolt is the critical component. Brewis towing heads are fitted with a specially forged, single piece, high tensile steel eyebolt. This has superior strength when compared with a welded eyebolt used by other manufacturers.

Why take the risk with inferior copies?



*Standard Diameter to wall thickness Ratio

The **Standard Towing Head** provides a quick, simple and highly effective way to attach a pulling eye to a pipe.

-  Installed & removed in seconds.
-  The harder the eye is pulled the harder the pipe is gripped.
-  Proven tooth profile for maximum grip.
-  Huge range of sizes from 20mm to 900mm. (including IPS imperial sizes)
-  Metric sizes cover SDR11 to 17.6 on sizes up to 355mm.
-  Single piece, high tensile steel, drop forged Eyebolts.
-  Designed in 1984 by Rod Brewis and used all over the world.

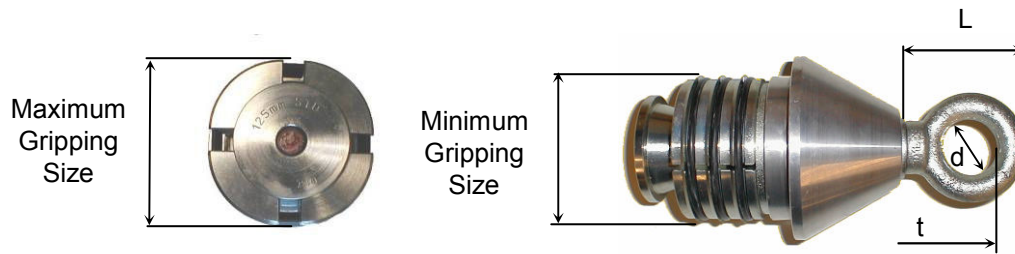


Brewis Engineering Limited
 Handlemaker Road
 Marston Trading Estate
 Frome Somerset UK BA11 4RW

☎ +44 (0) 1373 468864
 ☎ +44 (0) 1373 468865
 sales@brewisengineering.co.uk
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STANDARD TOWING HEAD



Pipe Size	Min. Grip mm	Max. Grip mm	Eyebolt Thread	L	d	t	Weight Kg Approx
Stock Sizes							
25	19	24	M6	31	16	5	0.15
32	24	28.5	M8	30	14	8	0.24
40	30	37	3/8"BSW	43	18.5	9	0.42
50	39	46	1/2" BSW	60	29.5	11	0.98
55	42	49	1/2" BSW	60	29.5	11	1.20
63	48	58	1/2" BSW	60	29.5	11	1.66
75	57	70	1/2" BSW	60	29.5	11	2.46
90	70	82	3/4" BSW	84	38	19	3.90
100	77	93	3/4" BSW	84	38	19	4.80
110	86	99	3/4" BSW	84	38	19	6.25
125	97	111	3/4" BSW	87	38	19	5.60
140	108	130	3/4" BSW	87	38	19	8.60
160	124	148	1" BSW	100	43	22	11.6
180	141	163	1" BSW	100	43	22	15.0
200	157	182	1" BSW	100	43	22	19.0
225	175	201	1" BSW	100	43	22	22.5
250	196	225	1" BSW	100	43	22	31.5
280	220	252	1" BSW	100	43	22	32.5
315	249	282	1 1/2" BSW	155	74	30	43.0
355	280	315	1 1/2" BSW	155	74	30	53.0
400-11	315	335	1 1/2" BSW	155	74	30	62.0
400-17.6	345	358	1 1/2" BSW	155	74	30	72.0
450-11	353	375	1 1/2" BSW	160	74	30	82.0
450-17.6	384	405	1 1/2" BSW	160	74	30	90.0
500-11	395	415	1 1/2" BSW	160	74	30	94.0
500-17.6	432	446	1 1/2" BSW	160	74	30	110.0

Full range of IPS sizes also available



Need some shackles with your pullers?

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 Marston Trading Estate
 Frome Somerset UK BA11 4RW

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MUDTIGHT GOLD™ TOWING HEAD

Comparison with Standard Towing Head



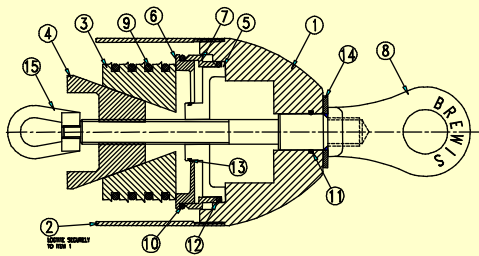
Patented 3 part sealing cartridge for SDR 11 & 17.6



Pressure Testing



Tensile Testing



Mudtight GOLD™

Sealed Expanding Towing Head

Mudtight GOLD provides a quick and easy way to attach a pulling eye to the end of a polyethylene pipe and at the same time seal the end of the pipe to keep the inside clean.

Simply slide into the pipe and turn the pulling eye to expand the grippers. The harder the pulling force the harder the gripping force. Unscrew the pulling eye to remove.

Specifically designed for trenchless technology applications such as **Horizontal Directional Drilling**.

Benefits from using **Mudtight GOLD**

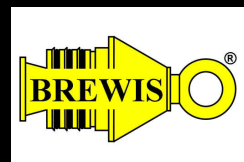
- Minimal increase in outside diameter means bore size can be kept down.
- Patented seal on the inside of the pipe seals both SDR11 & 17.6
- Tensile tested to the yield strength of the pipe.*
- Pressure tight to pipe bursting.*
- Protects the end of the pipe.
- Rear eye to retain the tail .
- Available from 32mm to 355mm ex stock.
- Quick and easy to fit, saves time & eliminates the need to clean out afterwards.

* Dependent on size and prevailing conditions.

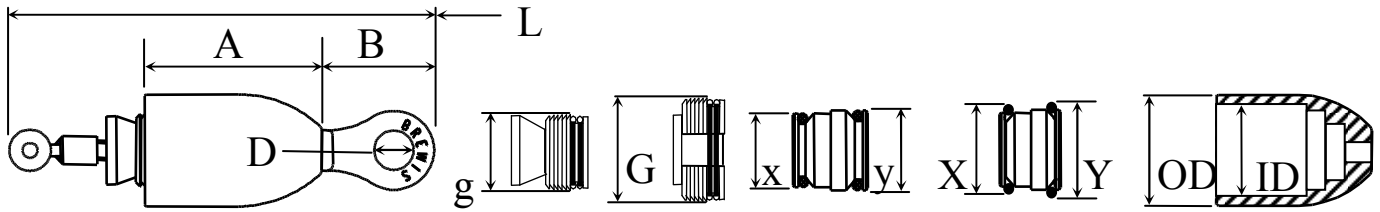
The Ultimate Towing Head

Brewis Engineering Limited
Handlemaker Road
Marston Trading Estate
Frome Somerset UK BA11 4RW

+44 (0) 1373 468864
+44 (0) 1373 468865
sales@brewisengineering.co.uk
www.brewisengineering.co.uk



MUDTIGHT GOLD™ TOWING HEAD



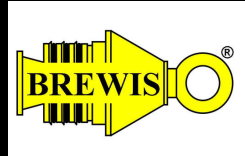
Size	L	A	B	D	g	G	x	X	y	Y	OD	ID	KG
METRIC	Overall Length	Nose Length	Eyebolt Length	Eye Ø	Min. Grip	Max. Grip	Min. Seal Ø	Max. Seal Ø	Min. Seal Ø	Max. Seal Ø	Outside Ø	Inside Ø	
32 mm	183	77.0	38.0	19.0	24.8	28.0	24.7	28.0	*	*	37.7	32.7	0.5
40 mm	205	89.5	56.0	20.0	30.9	40.0	30.9	34.0	*	*	47.8	40.8	0.9
50 mm	215	106.0	56.0	20.0	37.2	44.6	39.1	44.0	42.9	46.0	57.8	50.8	1.3
63 mm	249	127.0	60.0	30.0	48.0	60.0	49.5	54.0	53.7	57.0	72.0	63.8	2.4
75 mm	249	125.0	60.0	30.0	58.4	73.0	58.9	64.1	64.1	68.0	84.9	75.9	3.3
90 mm	355	138.0	105.0	38.0	70.6	81.0	71.1	76.0	77.1	81.0	100.0	91.0	6.1
110 mm	355	155.0	105.0	38.0	87.0	99.0	87.1	91.0	95.7	99.0	120.0	111.5	9.1
125 mm	355	165.5	105.0	38.0	98.6	109.0	99.1	104.0	107.7	111.4	139.7	127.0	9.7
140 mm	355	157.5	105.0	38.0	110.0	123.0	111.2	115.0	121.4	126.0	151.5	142.6	10.6
160 mm	484	219.0	145.0	45.0	124.4	146.0	126.9	132.0	137.6	142.0	171.0	162.0	18.4
180 mm	484	235.0	145.0	45.0	143.0	162.0	142.6	150.0	156.2	161.0	197.0	184.0	23.0
200 mm	520	272.0	145.0	45.0	157.0	180.0	156.6	166.0	170.6	180.0	217.0	204.0	27.0
225 mm	558	284.5	145.0	45.0	178.0	205.0	177.0	186.0	192.5	200.8	243.0	229.0	30.0
250 mm	558	300.0	145.0	45.0	198.0	228.0	197.0	207.0	216.0	224.0	268.0	253.5	40.0
280 mm	615	317.5	145.0	45.0	222.0	251.0	221.0	230.0	242.5	251.0	299.6	283.6	60.0
315 mm	685	340.5	160.0	72.0	250.0	285.0	249.0	262.0	273.0	285.0	335.0	319.0	75.0
355 mm	685	334.5	160.0	72.0	280.0	320.0	280.0	293.0	307.0	318.0	376.0	359.5	80.0



Full range of IPS sizes also available

Brewis Engineering Limited
 Handlemaker Road
 Marston Trading Estate
 Frome Somerset UK BA11 4RW

+44 (0) 1373 468864
 +44 (0) 1373 468865
 sales@brewisengineering.co.uk
 www.brewisengineering.co.uk








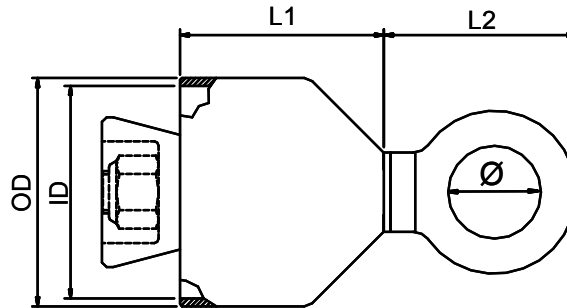
21/26 Series Towing Head

(for SDR21 ProFuse™)



For sizes above 180mm use a Standard Towing Head fitted with a 21/26 gripper set and sleeve.

-  Sizes 40, 50, 63, 75, 90, 110, 125, 140, 160, 180.
-  Designed specifically for HD thin wall pipe.
-  Special gripper prevents pipe damage.
-  Outside sleeve gives maximum security.
-  Rear nut to retain the expander.



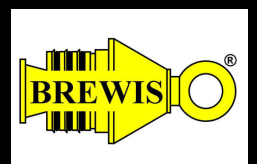
Nominal Size	OD	ID	L1	L2	Ø	Eyebolt
40mm	51.5	43.5	62.5	43	18.5	3/8" BSW
50mm	61.7	53.7	65	63	29.5	1/2" BSW
63mm	73.8	66.8	70	63	29.5	1/2" BSW
75mm	85.9	78.9	70	63	29.5	1/2" BSW
90mm	101	94	90	87	38	3/4" BSW
110mm	121.1	114.1	90	87	38	3/4" BSW
125mm	136.2	129.2	90	87	38	3/4" BSW
140mm	151.4	144.4	100	87	38	3/4" BSW
160mm	175.4	164.4	120	100	43	1" BSW
180mm	195.5	184.5	120	100	43	1" BSW

SDR21 Pressure Test Ends also available



Brewis Engineering Limited
 Handlemaker Road
 Marston Trading Estate
 Frome Somerset UK BA11 4RW

+44 (0) 1373 468864
+44 (0) 1373 468865
sales@brewisengineering.co.uk
www.brewisengineering.co.uk



LARGE TOWING HEADS

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710mm Heavy Duty



Hollow stem with 1 way valve for ballasting



800 & 900 Pressure Tights



500mm Standard






LARGE TOWING HEADS -

Industry trends to install larger and larger pipes along with the popularity of thinner pipes (SDR21 and 26) make the production of large towing heads less straightforward than for smaller sizes.

For instance, a towing head to complete a 50m railway crossing may be quite different from one needed for a 500m ballasted river crossing.

We do keep some large towing heads in stock (400, 450, 500, 560 & 630mm in SDR11, 17.6 and 21) but it is best to discuss your project requirements with us in advance so we can supply a product that best suits your needs and budget.

Please remember that the cost of the towing is a very small proportion of your project and the bigger the pipe the larger the risk. Losing the pipe at the pull in stage could be very expensive!

-  Range of designs to suit your project.
-  Standard, Heavy Duty, Mudtight or custom designs available.
-  Separate outside sleeve for thin wall pipe.
-  Lifting eye to ease horizontal fitting.
-  High Tensile drop forged eyebolt or pad eye.



Heavy Duty Eyebolt with 17t Shackle

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☎ +44 (0) 1373 468865
✉ sales@brewisengineering.co.uk
www.brewisengineering.co.uk



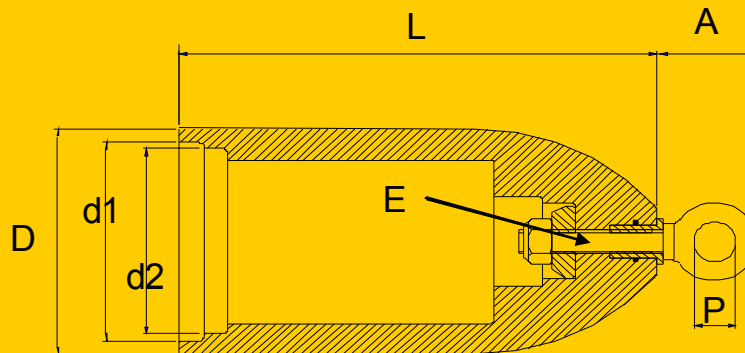
PE FUSE ON TOWING HEAD



**PE Fuse-On Towing Head
from 50 to 500mm**

PE Fuse On Towing Heads

Our range of Fuse-On Towing Heads are machined from solid polyethylene rod. They have a sealed eyebolt to keep the pipe clean and a stepped design at the back to allow easy butt fusion to SDR11 or SDR17.6.



Part No.	Size D	L	A	d1	d2	P	E	Weight Kg
4-54050	50mm	165	55	41	30	19	3/8" W	0.4
4-54063	63mm	200	58	51	40	30	1/2" W	0.7
4-54075	75mm	200	58	61	50	30	1/2" W	0.8
4-54090	90mm	250	106	79	74	38	3/4" W	1.9
4-54110	110mm	330	106	97	90	38	3/4" W	2.5
4-54125	125mm	330	106	110	102	38	3/4" W	4
4-54140	140mm	330	106	124	115	38	3/4" W	5
4-54160	160mm	330	104	141	131	44	1" W	6
4-54180	180mm	330	104	159	147	44	1" W	7
4-54200	200mm	330	104	176	164	44	1" W	8
4-54225	225mm	500	104	199	184	44	1" W	11
4-54250	250mm	500	104	220	180	44	1" W	13
4-54280	280mm	500	104	247	229	44	1" W	14
4-54315	315mm	500	155	278	258	75	1 1/2" W	24
4-54355	355mm	500	155	315	290	75	1 1/2" W	28
4-54400	400mm	500	125	353	327	44	50.8x6*	42
4-54450	450mm	500	125	397	368	44	50.8x6*	68
4-54500	500mm	500	125	443	409	44	50.8x6*	70

* Supplied with 17T Dee Shackle

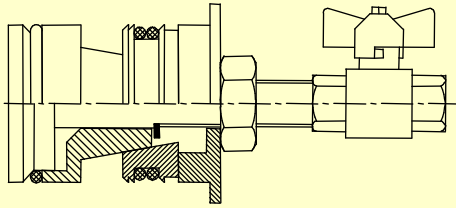
MATERIAL -
Black PE300, Density 0.95g/cm³, Yield Strength 28N/mm², Melting Point 127°C

Brewis Engineering Limited
Handlemaker Road
Marston Trading Estate
Frome Somerset UK BA11 4RW

☎ +44 (0) 1373 468864
☎ +44 (0) 1373 468865
✉ sales@brewisengineering.co.uk
www.brewisengineering.co.uk



PRESSURE TEST END








Pressure Test Ends

Pressure Test Ends are used for pressure testing pipe systems either before or after installation. They expand and grip in the same manner as an expanding towing head which means they are quick and simple to fit and also easily removed.

They have an expanding O ring which seals on the inside of the pipe.

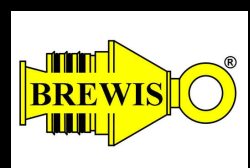
Features –

-  SDR Specific Sizes from 40mm to 180mm.
-  Zinc plated steel for use in the Gas Industry.
-  Stainless Steel for use in the Water Industry.
-  Optional outer sleeve for high pressure testing.
-  Tested to the bursting pressure of the pipe.

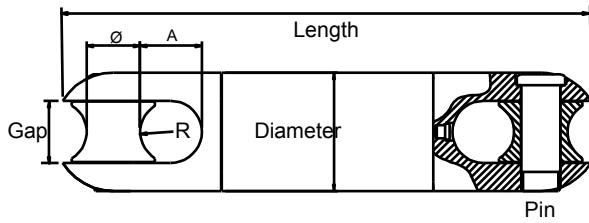


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BEL CABLE SWIVEL



SWL kg	Length mm	Diameter mm	Gap mm	Ø mm	A mm	R mm	Pin mm	Weight Kg
3000	173	40	22	18	21	10	14	1.2
5000	218	50	28	24	27	13	16	2
10000	329	74	39	33	38	19	24	8

- High tensile steel -keeps the size small but gives maximum strength.
- Fully tested to give better than a 3:1 safety factor.
- Roller thrust bearing design - allows easy rotation under high load.
- Wide clevis - easy to attach the winch cable.

BEL TRENCH ROLLER

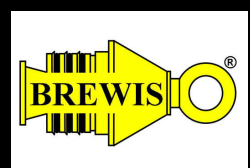


- Solid Steel V Roller
- Sealed roller bearings
- 3mm zinc plated steel body
- Two roller heights
- Stake holes
- Optional edge protection
- L340mm x W172mm x H165mm
- Manhole version also available



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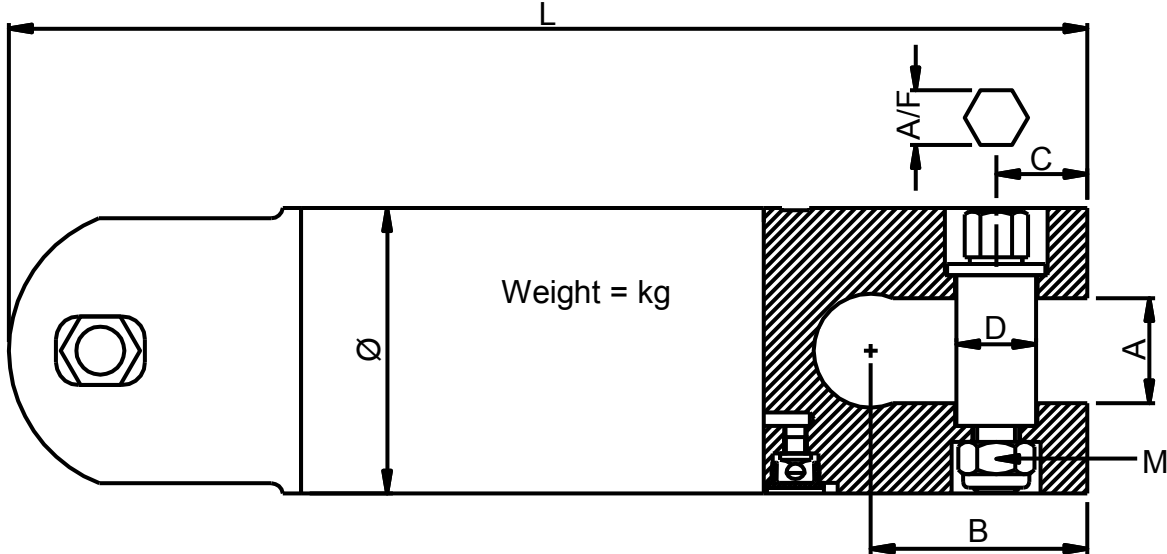
MINI RIG™ HDD PULLBACK SWIVEL



Mini Rig HDD Pullback Swivels

The “MINI RIG” range offers the directional driller a high quality swivel at a competitive price. Using all our big swivel expertise we have engineered a range of compact and durable swivels for the cost conscious operator.

- ✓ Patented sealing system keeps bentonite out but allows power greasing.
- ✓ Shaft & clevis made from single steel billet - gives maximum strength and durability.
- ✓ Clevis to clevis design.
- ✓ Sizes – US Tons 10, 15, 20, 30
- ✓ Side grease nipple

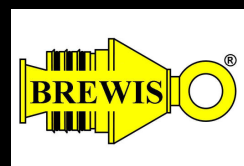


Swivel	Part No.	SWL lb	SWL kg	L	Ø	A	B	C	D	A/F	M	kg
10 US Ton	11-010	20,000	9000	340	80	38	67	25	25.4	17	m12	9
15 US Ton	11-015	30,000	13600	442	108	44	99	37.5	29	20	m16	22
20 US Ton	11-020	40,000	18100	473	125	46	95	40	35	24	m20	32
30 US Ton	11-030	60,000	27200	493	138	46	101	43	35	24	m24	41

All dimensions in mm, weights and dimensions subject to change without notice.

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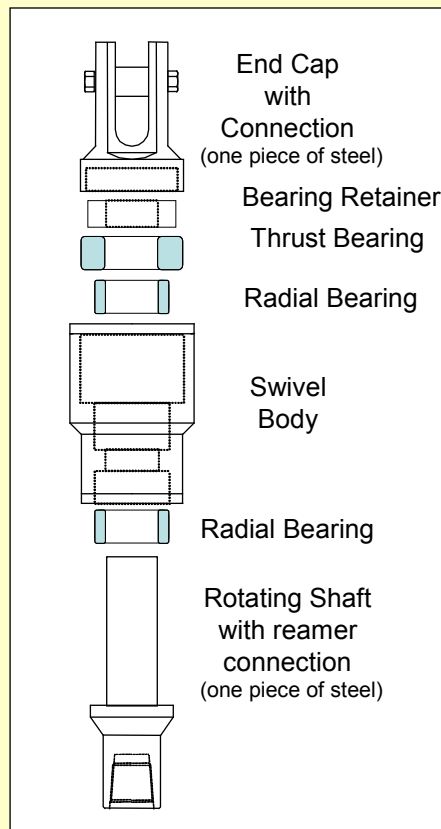
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BIG RIG™ HDD PULLBACK SWIVEL



550 US Ton Swivel









Big Rig HDD Pullback Swivels

The range of “**BIG RIG**” swivels is a further development of the famous Brewis Heavy Duty Swivel. Each swivel uses an SKF Explorer or FAG X-Life spherical roller thrust bearing of a declared size. i.e. The 154 US Ton swivel contains a bearing with a dynamic capacity of 154 US Tons.

Most swivel makers don't declare the **bearing** capacity of their swivels but instead quote a figure for the strength of the supporting steelwork; this isn't much help if the bearing has seized!

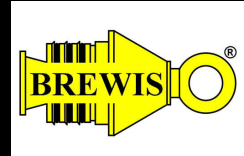
Features -

-  SKF Explorer Spherical Roller Thrust Bearing of a declared size & capacity.
-  Patented sealing system keeps bentonite out but allows power greasing.
-  Side grease point to allow easier power greasing.
-  Manufactured from High Tensile 4145 steel.
-  One piece shaft & clevis gives maximum strength and durability.
-  Box to clevis design or clevis to clevis
Sizes – US Tons 44, 58, 83, 110, 154, 210, 265, 320, 382, 550.

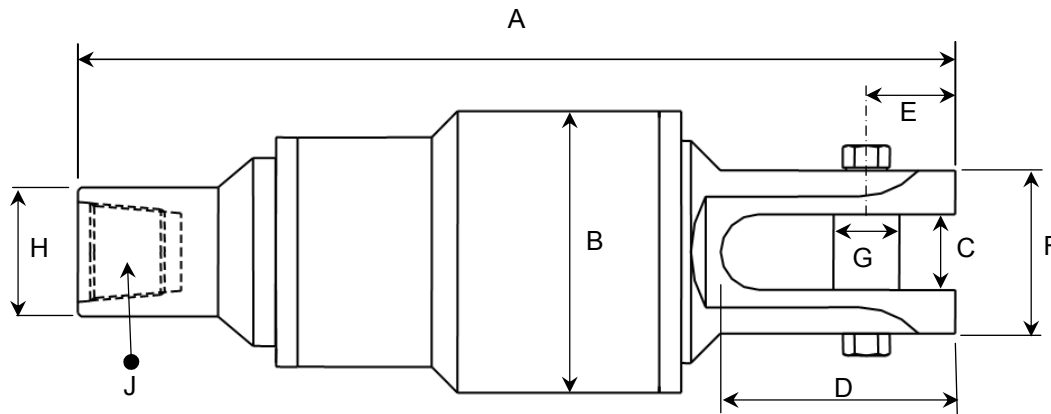


Brewis Engineering Limited
Handlemaker Road
Marston Trading Estate
Frome Somerset UK BA11 4RW

☎ +44 (0) 1373 468864
☎ +44 (0) 1373 468865
sales@brewisengineering.co.uk
www.brewisengineering.co.uk



BIG RIG™ PULLBACK SWIVEL



Part No.	Size		A	B	C	D	E	F	G	H	J	Bearing	Maximum Dynamic kN/UST	Maximum Static kN/UST	Ship Kg
10-044	44	mm	610	165.0	54.0	160.0	62.0	126.0	44.0	120.0	3 ½" IF	29412	390	915	75kg
	US Tons	inch	24.02	6.50	2.13	6.30	2.44	4.96	1.73	4.72			44	103	
10-058	58	mm	722	185.0	70.0	197.0	65.0	140.0	54.0	159.0	4 ½" IF	29414	520	1250	110kg
	US Tons	inch	28.43	7.28	2.76	7.76	2.56	5.51	2.13	6.26			58	141	
10-083	83	mm	847	225.0	83.0	237.5	91.0	170.0	63.0	159.0	4 ½" IF	29417	735	1800	160kg
	US Tons	inch	33.35	8.86	3.27	9.35	3.58	6.69	2.48	6.26			83	202	
10-110	110	mm	899	260.0	83.0	235.0	90.0	170.0	63.0	159.0	4 ½" IF	29420	980	2500	200kg
	US Tons	inch	35.39	10.24	3.27	9.25	3.54	6.69	2.48	6.26			110	281	
10-154	154	mm	978	315.0	89.0	262.0	102.0	180.0	75.6	159.0	4 ½" IF	29424	1370	3450	290kg
	US Tons	inch	38.50	12.40	3.50	10.31	4.02	7.09	2.98	6.26			154	388	
10-210	210	mm	1174	380.0	102.0	320.0	120.2	220.0	89.0	178.0	5 ½" FH	29430	1860	5100	525kg
	US Tons	inch	46.22	14.96	4.02	12.60	4.73	8.66	3.50	7.01			209	573	
10-265	265	mm	1303	430.0	102.0	321.0	120.0	240.0	89.0	229.0	6 ⅝" FH	29434	2360	6550	750kg
	US Tons	inch	51.30	16.93	4.02	12.64	4.72	9.45	3.50	9.02			265	736	
10-320	320	mm	1424	470.0	127.0	398.0	159.0	280.0	114.0	229.0	6 ⅝" FH	29438	2850	8000	1150kg
	US Tons	inch	56.06	18.50	5.00	15.67	6.26	11.02	4.49	9.02			320	899	
10-382	382	mm	1460	530.0	127.0	398.0	159.0	300.0	114.0	275.0	6 ⅝" FH	29448	3400	10200	1380kg
	US Tons	inch	56.54	20.86	5.00	15.67	6.26	11.81	4.49	8.99			382	1147	
10-550	550	mm	1642	600.0	156.0	452.0	190.0	350.0	150.0	280	6 ⅝" FH	29456	4900	15300	1710kg
	US Tons	inch	64.65	23.62	6.14	17.80	7.48	13.78	5.91	11.02			551	1720	

Aug-10

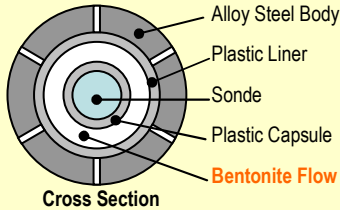
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HIGH FLOW SONDE HOUSING

Annular Flow Design

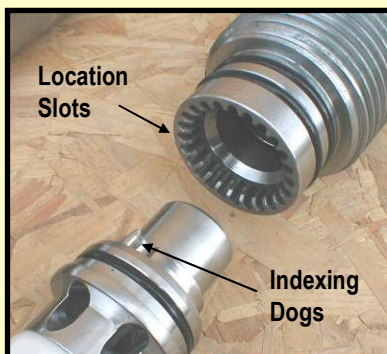
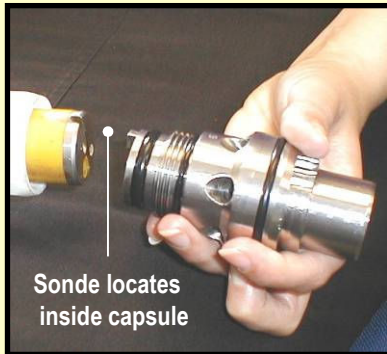


In our housings the transmitter is placed inside a plastic **capsule** to protect it. The capsule is held each end in the centre of a large diameter plastic **liner**. The bentonite flows through the annular space between the sonde capsule and the liner.



Sonde Capsule for Digitrak battery or cable sonde

Positive Location & Indexing









±7.5° Mechanical Adjustment

The **Brewis** High Flow Sonde Housing has been specifically designed to give the high flow rates needed to drive mud motors. It is a rear load housing which uses an annular flow design.

It can also be configured as a boring head or used with a bent sub and tri-cone cutter.

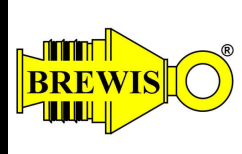
Benefits of the Brewis Sonde Housing -

-  High flow, low clog design enables use with mud motors.
-  24 or 36 step mechanical indexing eliminates the need for fiddly adjustment screws.
-  Annular flow design cools and cushions the transmitter during long bores.
-  Precision manufacture from 4145 alloy steel ensures strength and long life.
-  Will fit all Digitrak™ 2 & 4 battery transmitters and eclipse cable transmitters.
-  Wave spring contactor isolated from the bentonite flow.

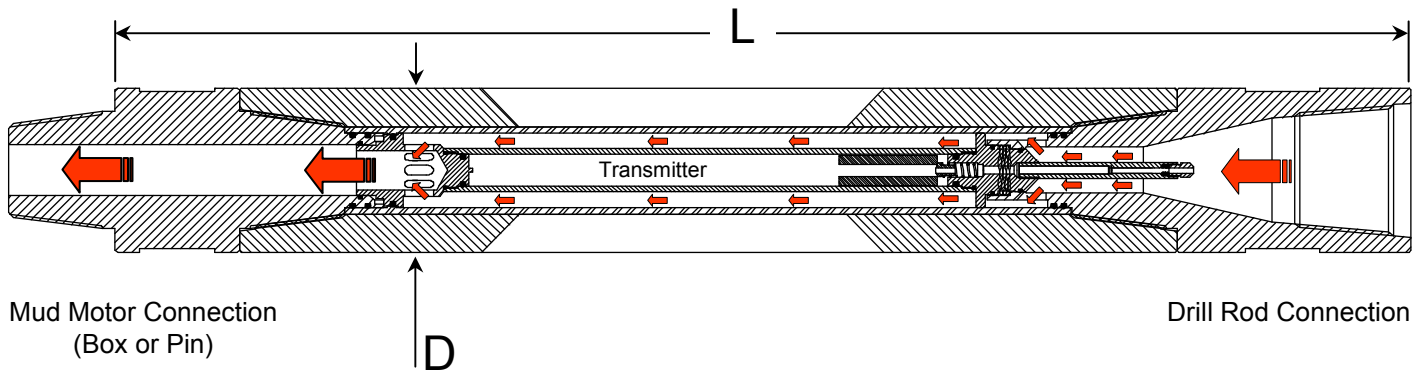


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HIGH FLOW SONDE HOUSING



High Flow **Sonde Housing** - Digitrak™ 2 & 4 Battery & Eclipse

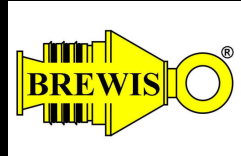
D Inches	D mm	L mm	Weight Kg	Mud Motor Connection	Drill Rod Connection
3 1/8" Pit Launch	80mm	750		2 3/8" API Reg Box	2 3/8" API Reg Box
3 1/8"	80mm	1089	37kg	2 3/8" API Reg	2 3/8" API Reg
3 5/8"	92mm	1089	40kg	2 3/8" API Reg	2 3/8" API IF
4 3/4"	120mm	1190	75kg	3 1/2" API IF	3 1/2" API IF
6 1/2"	165mm	1306	177kg	4 1/2" API Reg	4 1/2" API IF
7 7/8"	200mm	1297		5 1/2" API FH	5 1/2" API FH

Other connections can be made to order



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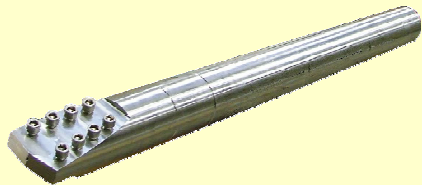


STEERING TOOL HOUSING

6 1/2" Boring Head in China



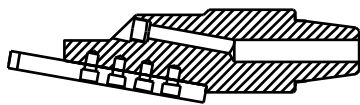
4 3/4" Boring Head in Belgium



Designed to accommodate the Digitrak™ Short Steering Tool, the housing is similar to the standard **Brewis** high flow housing but is made from non magnetic stainless steel.

Benefits of the Brewis SST Housing -

-  Proven in the field from China to Mexico.
-  High flow, low clog design enables use with mud motors.
-  24 step mechanical indexing eliminates the need for fiddly adjustment screws. (36 Step on 6 1/2" housing).
-  Annular flow design cools and cushions the transmitter during long bores.
-  Precision manufacture from non-magnetic stainless steel ensures strength and long life.
-  Designed to accommodate Digitrak™ SST cable transmitter.
-  Positive location of sonde capsule eliminates wear between metal & plastic components.
-  3 diameters – 3 5/8", 4 3/4", 6 1/2"



Head Assembly with steering plate



Indexing Sub

- connects to either
- NM Rod & mudmotor
 - NM Boring Head
 - NM Bent sub & tricone
 - NM Jet Tube

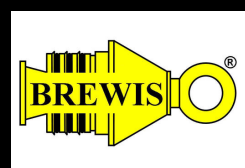
Housing Body

Rear Sub

(connects to NM drill rod)

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AUGER BORING SWIVEL



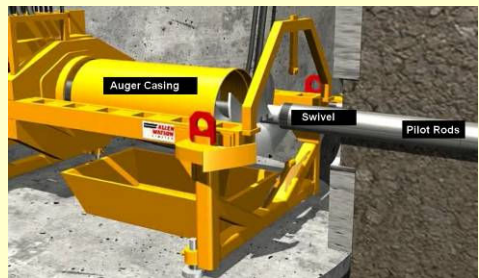
Ø121mm swivel with 3" Hex male & female connections



Ø121mm swivel in use



Ø219mm swivel with male hex and 1m of casing welded on



The Brewis Auger Boring Swivel was designed and tested in 2009/10 in response to a customer request.

The auger swivel is used in the guided auger boring process where it is placed between the pilot rods and auger casing to prevent the rods rotating as they enter the reception pit. This means the swivel is normally in compression, unlike an HDD swivel.

There are currently two sizes of swivel, 121mm (30T) and 219mm (83T). End fittings can be manufactured to customer requirement but have typically been male hexagon connections on the shaft and either female hex or casing female threads on the body.

Field trials are still underway but results have been very encouraging so far.

Both swivels feature our patented sealing system, external power greasing point, top class branded bearings and are manufactured from high tensile alloy steel.

502mm depending on connections



30T

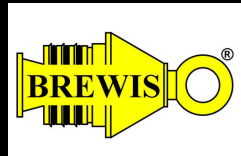
3" Male & Female Hex Connections



83T

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sales@brewisengineering.co.uk
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Brewis Engineering Limited

Serious kit for serious drillers !

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about our products please
get in touch...**



Jan 2010

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