

**TRENCH
CONTROL**

**PILING & GROUND
SUPPORT EQUIPMENT**

**LEADING SUPPLIERS OF
GROUND SUPPORT SOLUTIONS**

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PILING

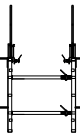
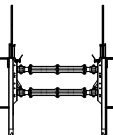
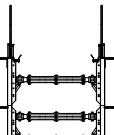
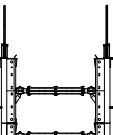
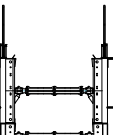
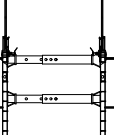
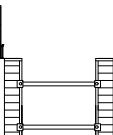
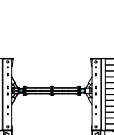
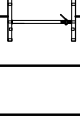
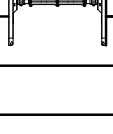
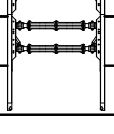
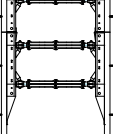
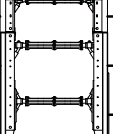
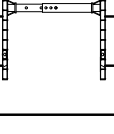
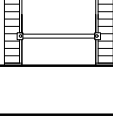
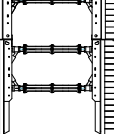
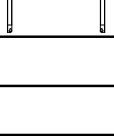
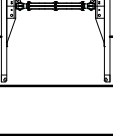
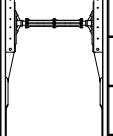
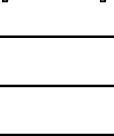
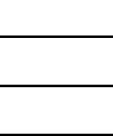
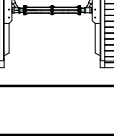
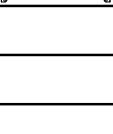
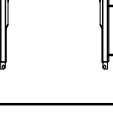
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SISTER COMPANIES

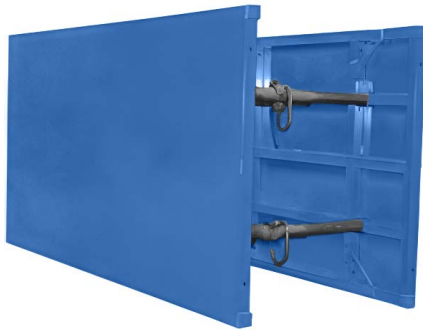
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	Lightweight Trench Boxes		Medium Trench Boxes		Heavy Trench Boxes		Manhole boxes	
	Aluminium	Micro	Mini	Standard	Magnum	Drag Box	Lightweight	Heavy
0.0m								
1.0m								
2.0m								
3.0m								
4.0m								
5.0m								
6.0m								

TRENCH BOXES



ALUMINIUM BOXES

- Aluminium Trench Boxes are most suitable for supporting trenches up to 1.5m* deep where the excavation is being undertaken with mini diggers or small excavators which have a limited lifting capacity.
- These lightweight boxes are ideal for smaller jobs in place of steel trench boxes.
- The boxes are fitted with a four-point lifting system for safe slinging.
- They are easily assembled and can be transported in a large van or pick up.

Trench Boxes

PANEL LENGTH (MM)	PANEL HEIGHT (MM)	PANEL WEIGHT (KG)	CLEARANCE BETWEEN STRUTS (MM)	MINIMUM TRENCH WIDTH (MM)	MAXIMUM TRENCH WIDTH (MM)	MAXIMUM TRENCH DEPTH (MM)	MAXIMUM LATERAL EARTH PRESSURE (KN/M2)
1200	1200	34	910	450	1730	1200	20
1500	1500	50	1100	450	1730	1500	20
2000	1500	70	1900	450	1730	1500	20
2400	1200	63	1800	450	1730	1200	20
2400	1500	82	2180	450	1730	1500	20

STRUT SIZES

450 to 680mm
690 to 1090mm
1030 to 1730mm

*Top units are available for additional depth depending on ground conditions.

Manhole Box

PANEL LENGTH (MM)	PANEL HEIGHT (MM)	PANEL WEIGHT (KG)	CLEARANCE BETWEEN STRUTS (MM)	MINIMUM TRENCH WIDTH (MM)	MAXIMUM TRENCH WIDTH (MM)	MAXIMUM TRENCH DEPTH (MM)	MAXIMUM LATERAL EARTH PRESSURE (KN/M2)
2500	2000	240	2300	1160	2500	200	30

TRENCH BOXES

- Trench boxes are simple modular units.
- They can be easily and quickly installed by an excavator.
- They provide strong, reliable shoring for most ground conditions.
- They also provide full protection for operatives in every stage of installation and removal.

	LENGTH (M)	HEIGHT (M)	WEIGHT (KG)	MIN TRENCH WIDTH (MM)	MAX WITHOUT BARS (MM)	MAX. WITH BARS (M)	CLEARANCE BENEATH STRUT (M)	DISTANCE BETWEEN STRUTS (MM)	MAXIMUM EARTH PRESSURE (KN/N ²)	PANEL THICKNESS (MM)
SPECIAL BASE	2.0	2.6	1285	800	1200	-	1.45	-	34.1	90
TOP UNIT	2.0	1.3	790	800	1200		-	-	34.1	90
MICRO BASE	3.00	1.6	732	650	1030		0.8	2500	34.1	60
MINI BASE	3.0	1.95	1075	650	1100	4.5	1.16	2550	34.1	80
MINI TOP	3.0	0.96	713	650	1100	4.5		2550	34.1	80
STANDARD BASE	3.4	2.6	1850	800	1200	4.5	1.45	2950	34.1	90
STANDARD TOP	3.4	1.32	1253	800	1200	4.5		2950	34.1	90
MAGNUM BASE	3.4	4.0	3875	800	1320	4.5	2.45	2950	34.1	90
MAGNUM TOP	3.4	1.32	1253	800	1320	4.5		2950	34.1	90

MICRO TRENCH BOX

- Handled by small excavator
- 0.8m clearance beneath strut
- Strong, lightweight units
- Suitable for installation of domestic services

MINI TRENCH BOX

- Handled by small excavators
- 1.18 Clearance beneath lower strut
- Strong, lightweight units

**Additional top units are available.*

STANDARD TRENCH BOX

- Trench depths up to 6.0m
- Larger internal working area
- Clearance of 1.45m beneath strut

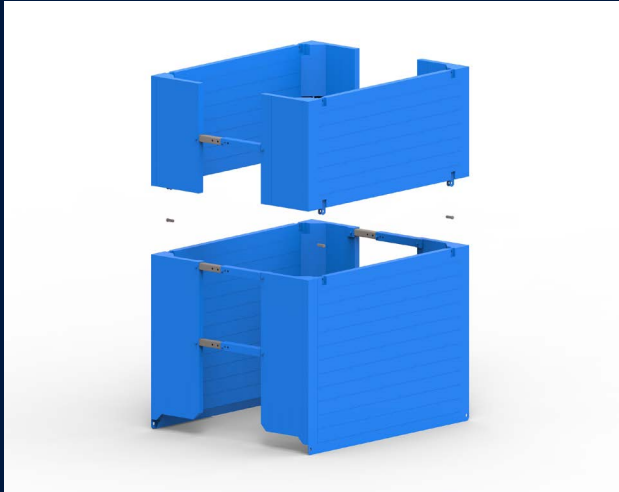
MAGNUM TRENCH BOX

- Easier installation of large diameter pipes / culverts
- Greater clearance of 2.45m beneath lower strut



ACCESSORIES

- HANDRAILS
- ACCESS GATE
- DAVIT ARM
- EXTENSION BAR



MANHOLE BOXES

- Allows for rapid construction of manholes.
- Suitable for depths of up to 5500mm.
- For manhole excavations where crossing services are not encountered .
- Wider trench widths accommodated using extension bars.
- 1500mm clearance under bottom bar.
- Boxes complete with 660mm return panels.

	MANHOLE RING (MM)	INTERNAL LENGTH (M)	HEIGHT (M)	WEIGHT (KG)	MIN WIDTH TRENCH (MM)	MAX WITHOUT BARS (MM)	MAX WITH BARS (MM)	MAXIMUM EARTH PRESSURE (KN/M)	PANEL THICKNESS (MM)
2.5M BASE	1050-1350	2.2	2.5	2050	1700	2000	4500	34.1	90
2.5M TOP	1050-1350	2.2	1.5	1300	1700	2000	4500	34.1	90
3.0M BASE	1350-1800	2.7	2.5	2350	1700	2000	4500	34.1	90
3.0M TOP	1350-1800	2.7	1.5	1450	1700	2000	4500	34.1	90
3.5M BASE	1800-2100	3.2	2.5	2600	1700	2000	4500	34.1	90
3.5M TOP	1800-2100	3.2	1.5	1580	1700	2000	4500	34.1	90
4.0M BASE	2100-2700	3.7	2.5	3000	1700	2000	4500	34.1	90
4.0M TOP	2100-2700	3.7	1.5	1750	1700	2000	4500	34.1	90

ACCESSORIES

- HANDRAILS
- ACCESS GATE
- DAVIT ARM
- EXTENSION BAR

DRAG BOXES

- Drag boxes are best suited to open field situations with reasonable ground conditions.
- Suitable for where there is no requirement for active support of trench sides.
- Allows continuous pipelaying.
- As an excavation progresses, the drag box is pulled along the trench line by the excavator to allow a continuous pipelaying operation to proceed.
- Supplied with fixed width struts.

	INTERNAL LENGTH (MM)	HEIGHT (MM)	WEIGHT (KG)	MIN WIDTH (MM)	MAX WIDTH (MM)	MAXIMUM EARTH PRESSURE (KN/M)	PANEL THICKNESS (MM)	MAX REAR UNDER STRUT CLEARANCE (MM)
3.2M BASE	2590	1500	1005	650	3000	40	60	790
4.0M BASE	2950	2600	2370	650	5000	30	100	1150
4.0M TOP	2950	1600	1750	650	5000	30	100	
5.1M BASE	4220	2400	3020	650	5000	30	100	1370
5.1M TOP	4220	1800	2370	650	5000	30	100	
6.0M BASE	5100	2800	5300	650	5000	20	100	1700
6.0M TOP	5100	1500	2330	650	5000	20	100	
7.5M BASE	6600	2400	4550	650	5000	20	100	1500
7.5M TOP	6600	2000	3850	650	5000	20	100	



ACCESSORIES:

- ACCESS GATE
- HANDRAILS
- FOUR LEG CHAIN SLING
- DAVIT ARM

PIPE STOPPERS



ACCESSORIES:

- HANDPUMP
- HANDPUMP REGULATOR
- COMPRESSOR CONTROLLER
- 10m HOSE
- AIR TEST KIT
- 18V CORDLESS INFLATOR

VETTER BLANK & TEST STOPPERS

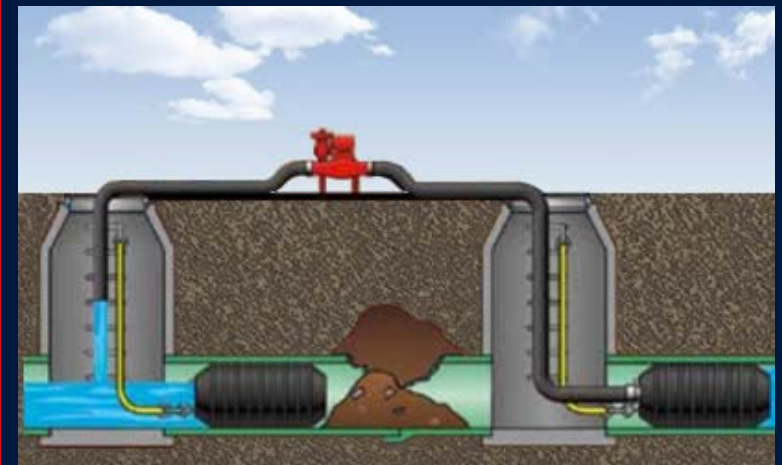
- The Vetter Inflatable Stopper is a durable expanding pipe stopper.
- They can withstand a maximum back pressure of 0.5BAR/5m head of water.
- Maximum inflation pressure is 2.5 BAR. (36.26 PSI)
- The large sealing range of the stoppers and the ability to inflate remote, makes it easy to seal flowing pipes quickly and reliably.
- Stoppers should be suitably braced to sustain the anticipated pipeline pressure load.

PRODUCT	PIPE DIAMETER (MM)	UNINFLATED DIAMETER APPROX (MM)	CYLINDER LENGTH (MM)	BLANK STOPPER WEIGHT (KG)	TEST STOPPER WEIGHT (KG)
2.5/4	25-40	21	115	0.15	0.30
4/7	40-70	37	155	0.20	0.40
7/15	70-150	68	300	0.50	1.70
10/20	100-200	90	510	1.20	2.80
15/30	150-300	145	460	1.90	5.80
20/40	200-400	195	650	2.80	8.00
20/50	200-500	195	750	5.00	7.00
30/60	300-600	295	735	7.00	11.00
50/100	500-1000	450	1100	17.00	28.00
60/120	600-1200	580	1320	25.00	33.50
80/140	800-1400	785	1810	41.00	55.00
140/170	1400-1700	1350	1900	55.00	62.50
170/200	1700-2000	1620	1900	59.00	64.50

BYPASS STOPPERS

- Temporary isolation device: Used to block or isolate sections of a pipeline.
- Allows fluid/gas bypass: Maintains flow in adjacent sections while blocking one area.
- Used during maintenance/repair: Facilitates work without full system shutdown.
- Ensures continuous operation: Keeps part of the system running during interruptions.
- Common in various industries: Widely used in oil and gas, water supply, and sewage systems.
- Enhances efficiency: Minimizes downtime during repairs or modifications.

PRODUCT	PIPE DIAMETER (MM)	DIAMETER APPROX (MM)	CYLINDER LENGTH (MM)	TOTAL LENGTH (MM)	WEIGHT (KG)	OPENING (MM)
PDK 10/20	100-200	97	485	545	2.2	1 x 63
PDK 20/50	200-500	195	550	610	7	1 x 100
PDK 30/60	300-525	272	630	700	35	1 x 100
PDK 50/120	500-1200	450	920	935	42.5	1 x 100



ACCESSORIES:

- 10m LAYFLAT HOSE C/W FEMALE BAUER
- 90° BEND C/W BAUER FITTING
- BAUER ADAPTER 100MM - 150MM
- BAUER ADAPTOR 75MM - 100MM

SAVA SMALL DIAMETER PIPE STOPPERS



- Sava Plugy stoppers are useful for sealing pipes and round gutters.
- Stoppers are available in a range of sizes, and come with a standard inflation valve.
- These stoppers are designed to withstand a maximum back pressure of 0.5 bar, or 5mtr head of water when suitably braced.
- They can be inflated to a maximum working pressure of 1.5 bar.
- Sava stoppers are made from durable SBR rubber to protect against aggressive fluids and assure low wear.
- Lightweight efficient design of Plugy and Plugsy stoppers ensures quick and simple installation.
- Inflation valves can be easily exchanged, avoiding replacement of entire plug.

PLUGY	PLUGSY	DIAMETER MIN (MM)	DIAMETER MAX (MM)	OPERATING PRESSURE (BAR/PSI)	BY-PASS PLUGSY	PLUG DIAMETER (MM)	PLUG LENGTH (MM)
Z2/3		50	75	2,5/36	43	45	110
Z3/4	S3/4	75	100	2,5/36	R 1/2	70	130
Z4/6	S4/6	100	150	2,5/36	R1/2	85	195
Z6/8	S6/8	150	200	2,5/36	R2	142	250

ACCESSORIES:

- 10m LAYFLAT HOSE C/W FEMALE BAUER
- 90° BEND C/W BAUER FITTING
- BAUER ADAPTER 100MM - 150MM
- BAUER ADAPTOR 75MM - 100MM

KWIKIE-DUCT PLUGS

- When the thermoplastic elastomer gasket is expanded, it creates a water, air, and rodentresistant seal protecting the conduit from damaging enviromental conditions.
- Constructed of non metallic, corrosion resistant materials for a long lasting and cost effective plug.
- Requires no additional tools for quick and easy installation.
- Install in PVC, HDPE, EMT, and corrugated conduit for versatility and are fully reusable.
- Two rope-tie points built into the plug for installation with mule tape or pull line for a secure seal.
- These mechanical duct plugs prevent the incursion of sediment, water & sewage into empty ducts / sub duct networks.

PRODUCT	SIZE (MM)	RANGE (MM)	DIAMETER MAX (MM)
3.5	90	87-99	99
4	100	100-109	109
5	125	123-133	133
6	150	152-161	161
8	200	198-209	209



MECHANICAL STOPPERS

- Available in both aluminium & steel.
- Sizes ranging from 30mm-900mm in diameter.
- Aluminium plates combines strength with lightness.
- Chemical resistant seals can be supplied to order.
- Steel components are zinc plated to 90 hours salt spray test.
- Multilock type stoppers from size 675mm upwards.



ACCESSORIES:

- AIR TEST KIT
- AIR TEST HOSE
- TESTING CAP
- PIPELINE PIGS/FOAM SWABS

NOMINAL SIZE (MM)	OUTLET (MM)	NOMINAL WEIGHT (KG)	RANGE (MM)	MAX ALLOWED BACK PRESSURE (PSI)
100	12.5	0.35	94-110	10
150	12.5	0.70	146-168	10
200	25	1.4	193-220	7
225	25	2.0	220-240	7
250	25	2.2	245-270	7
300	25	3.5	295-325	7
350	25	4.3	345-385	5
375	25	4.5	370-410	5
400	25	6.0	390-435	5
450	25	7.4	445-495	5
500	50	14.0	495-550	5
525	50	16.0	515-550	3
600	50	20.0	595-650	3
675	50	18.44	665-705	3
750	50	25.09	740-780	3
800	50	28.9	790-830	3
825	50	30.12	815-855	3
900	50	35.08	890-930	3

TRENCH SHEETS

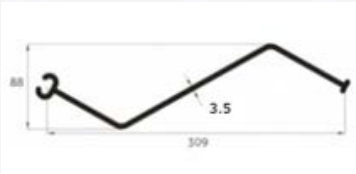
- Lightweight, lapped and interlocking profiles available.
- The shallow depth of profile allows for narrow excavations.
- Can be installed with a small excavator.
- Installed using a dig & push method or using an excavator mounted vibro hammer. (EMV)

PVC TRENCH SHEETS

- A Light duty z pile that can be installed in both rib and box formats.
- Environmentally friendly, made from Recycled PVC.
- Lowcost, versatile and available in lengths up to 6m.

SECTION	TYPE	T (MM)	H (MM)	E (MM)	W (MM)	WEIGHT (KG)	WEIGHT PER SQ/M	SECTION MODULUS	BENDING MOMENT (KN/M)	MINIMUM YIELD (N/MM²)
M15	INTERLOCKING	6.0	75	494	535	33.53	67.9 KG	186 CM³/M	50.0	500
M12	OVERLAPPING	6.0	87.5	550	575	31.79	57.8	182 CM³/M	42.7	350
Z RIB	PVC	3.5	88	309	-	3.05	-	87.3	3.8	-

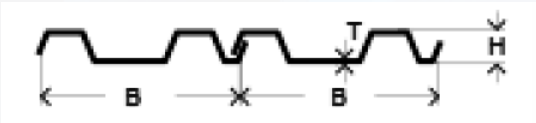
PVC



INTERLOCKING SHEETS



OVERLAPPING SHEETS



TRENCH SHEETS & SHEET PILES



ACCESSORIES:

- QUICK RELEASE SHACKLE
- DRIVING CAP
- CAMLOCK FOR EXTRACTION
- EXCAVATOR MOUNTED VIBRO HAMMER (EMV)
- EDGE PROTECTION SYSTEM



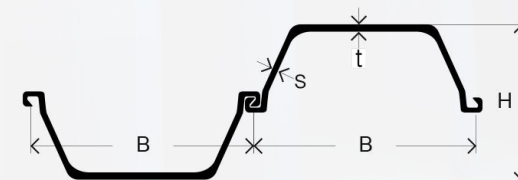
ACCESSORIES:

- LIFTING SHOES
- EXCAVATOR MOUNTED VIBRO HAMMER (EMV)
- EXTENSION ARM FOR EXCAVATOR
- CORNER PILES AVAILABLE
- CAMLOCK
- EDGE PROTECTION SYSTEM
- ACCESS GATE
- DAVIT ARM + RESCUE KIT

SHEET PILES

- Trench Control carries a stock of over 2000 tonnes.
- Requires minimum 16TN excavator to install.
- Installed using an excavator mounted vibro hammer (EMV) up to a length of 6m.
- Max length of sheet without an extension arm is 6m.
- Extension arms are available for longer length sheets.
- TCL Contracting Dept offers installation using side grip hammer and leader rig up to 17m in length.
- Selection of z-piles available upon request.

PRODUCT	WIDTH PAIR B (MM)	DEPTH WALL H (MM)	THICKNESS OF PAN T (MM)	THICKNESS OF WINGWALL S (MM)	SECTIONAL AREA (CM ² /M)	WEIGHT (KG/M)	MOMENT OF INERTIA (CM ⁴ /M)	ELASTIC SECTION MODULES (CM ³ /M)
PU 18(-1)	600	430	10.2	8.4	154	72.6	35950	1670
PU 22(-1)	600	450	11.1	9.0	174	81.9	46380	2060
PU 22(+1)	600	450	13.1	10.0	192	90.4	52510	2335
PU 28(-1)	600	452	14.2	9.7	207	97.4	60580	2680

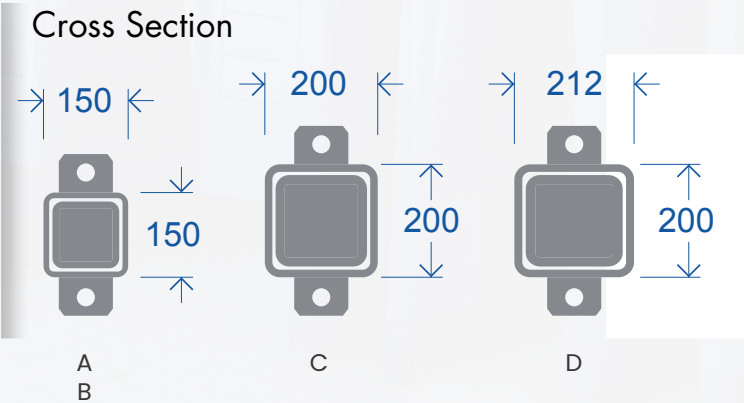


LIGHT DUTY BRACING

- Fully adjustable steel hydraulic frame.
- Suitable for the shoring of manholes and shafts.
- Legs types are interchangeable.
- Suitable for oblong and square excavations.
- Designed to be used with trench sheets and gives uninterrupted access to the excavation.
- Cylinders can be operated independently or simultaneously allowing effective shoring of the manhole without having to enter the excavation.

PRODUCT	MIN. LEG LENGTH (MM)	MAX. LEG LENGTH (MM)	TOTAL WEIGHT PER FRAME (KG)	SWL AT MAX. EXT. (kN/m)
A	1900	2750	370	40
B	2400	3200	450	36
C	3100	4500	1120	26.7
D	4600	6000	2500	25

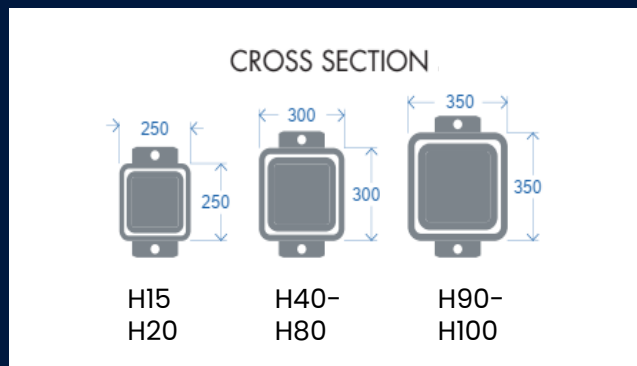
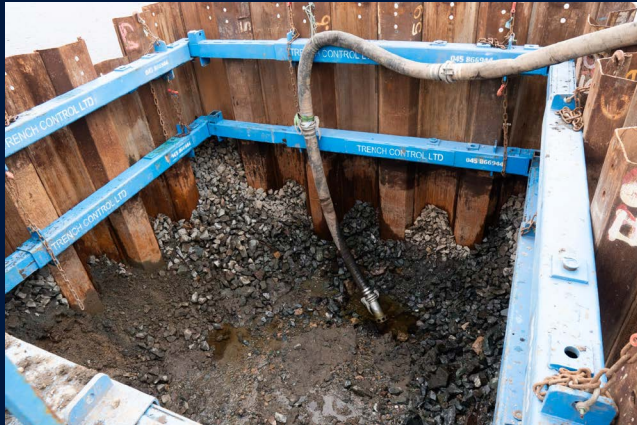
Above loadings for guidance only, please refer to TCL Design Department for all design queries.



HYDRAULIC BRACING



- ACCESSORIES:**
- PUMP UNIT
 - HANGING CHAINS
 - RELEASE TOOL
 - BIO-OIL
 - FOUR WAY BRIDLE



ACCESSORIES:

- HANGING CHAINS
- HEYPAC PUMP UNIT
- BIO-OIL

H SERIES BRACE

- This heavy duty bracing system is highly versatile and simple to assemble.
- For use in excavations upto 10m in length.
- Compatible with the light duty and 400 series bracing systems.
- Double acting heypac pump unit used to pressure frames and allow for ease of extraction.

PRODUCT	MIN. LEG LENGTH (MM)	MAX. LEG LENGTH (MM)	TOTAL WEIGHT PER LEG (KG)	SWL AT MAX EXT (kN/m)
H15	1500	2000	290	TBC
H20	2000	3000	390	TBC
H40	3010	4010	490	76
H60	4000	6000	800	41
H75	5500	7500	1270	37
H85	5300	8300	1300	35
H90	7000	9000	1550	35
H100	7800	9800	1700	36

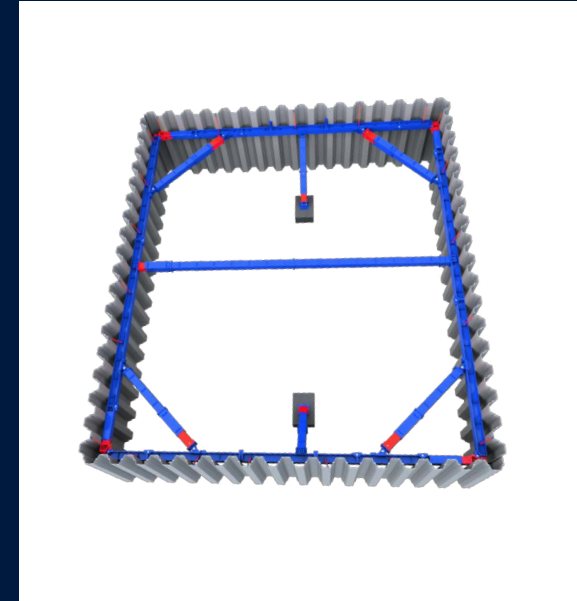
Above loadings for guidance only, not to be used for any design calculations.

400 SERIES BRACE

- This is a two component system comprising of a double acting ram with 7 extension leg sizes.
- Allows for excavations of up to 30 metres in length to be supported with less deflection than comparable systems.
- The ram has 1 metre of mechanical and 1m of hydraulic adjustment.
- High load capacity – less frames required than standard systems.
- Modular system – easy to transport and assemble on-site.
- Less deflection – smaller excavations, easier installation.
- Less backfill – reduced labour, materials & transportation costs.

PRODUCT	MIN. LEG LENGTH (MM)	MAX. LEG LENGTH (MM)	RAM & LEG WEIGHT (KG)
407	5200	7200	2481
409	7200	9200	2946
411	9200	11200	3433
413	11200	13200	3929
415	13200	15200	4508
417	15200	17200	5254
420	18000	20000	5926

Refer to TCL Design Department for all Design Queries.

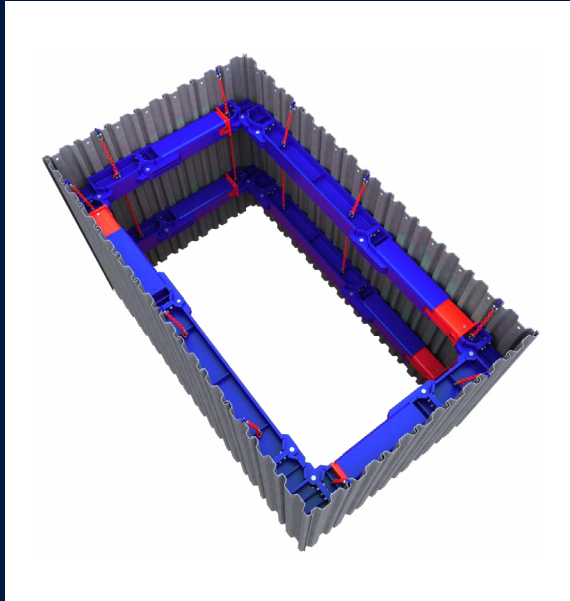


CROSS SECTION

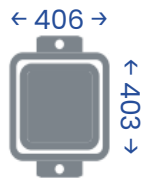


ACCESSORIES:

- HANGING CHAINS
- HEYPAC PUMP UNIT
- BIO-OIL



CROSS SECTION



ACCESSORIES:

- HANGING CHAINS
- HEYPAC PUMP UNIT
- BIO-OIL

406 SERIES BRACE

- Designed to brace large and deep cofferdams.
- These are frequently used on major basement and deep substructures where frame loads are high.
- This heavy duty hydraulic bracing system is highly versatile and simple to assemble.
- Two way hydraulic pump available for fast, efficient extension and retraction of frames.
- For large frames over 20m please contact our design office for more information.

SHEET TO SHEET DIMENSION (M)	MIN. LEG LENGTH (MM)	MAX. LEG LENGTH (MM)	LEG WEIGHT (KG)
3.5	2948	3748	1598
4.5	3948	4748	2110
5.5	4948	5748	2470
6.5	5948	6748	2830
7.5	6948	7748	3190
8.5	7948	8748	3594
9.5	8948	9748	3911
10.5	9948	10748	4261
11.5	10948	11748	4775
12.5	11948	12748	4990
13.5	12948	13748	5351
14.5	13948	14748	5863
15.5	14948	15748	6223
16.5	15948	16748	6769
17.5	16948	17748	7239
18.5	17948	18748	7303
19.5	18948	19748	7815
20.5	19948	20748	8175

EXCAVATOR MOUNTED HAMMER

- Combined with a suitable excavator our hammers provide an excellent pile-driving machine with the flexibility to drive in a range of conditions.
- High frequency excavator mounted variable vibrating hammer allows piles to be installed using minimum vibration.
- For use with sheet lengths of up to 6m in length.
- Extensions arms are available for longer length sheets.
- User friendly design with one lever operation.

		MS3	MS4	MS6
CENTRIFUGAL FORCE (MAX)	kN	304	378	464
ECCENTRIC MOMENT (MAX)	Nm	30	42	65
OSCILLATION FREQUENCY (MAX)	Hz	500	475	425
PULLING FORCE (MAX)	kN	60	120	120
OPERATING PRESSURE	bar	350	350	350
HYDRAULIC OIL FLOW (MAX)	l/min	120	171	204
WEIGHT	KG	830	1230	1240
HEIGHT	MM	739	787	787
WIDTH	MM	520	680	680
LENGTH	MM	1153	1216	1216
CLAMP FORCE (MAX)	kN	370	600	600
CLAMP PRESSURE (MAX)	BAR	300	300	300

HAMMERS



ACCESSORIES:

- EXTENSION ARM.
- AUGER UNIT.



CRANE MOUNTED HAMMER

- For use with suitably sized mobile and crawler cranes.
- Suitable for installing sheet piles, tubular piles, H-Piles and CFA cages.
- Higher capacity models available upon request.
- Banksman/operator services available if required.

		ICE 7RF	MULLER MS10	MULLER MS16	PVE 25m	PTC 15HFV
ECCENTRIC MOMENT	kgm	0-7	0-10	0-16	25	0-15
CENTRIFUGAL FORCE (MAX)	kN	410	610	968	870	890
SPEED (MAX)	rpm	2300	2358	2319	1700	-
STATIC LINE PULL (MAX)	kN	120	180	300	400	300
OPERATING PRESSURE (MAX)	bar	340	350	350	320	385
OIL FLOW (MAX)	l/min	185	251/345	504	-	300
AMPLITUDE EXCL. CLAMP (MAX)	mm	18	-	-	19	17
AMPLITUDE INCL. CLAMP (MAX)	mm	13	11.8	14	-	-
WEIGHT OF HAMMER	kg	1575	4200	5600	5730	3900
WEIGHT OF POWER PACK	kg	3300	5200	6300	5500	5000

IMPACT HAMMERS

- For use with PU & AZ sheet piles where vibro refusal has been achieved.
- Various size & weight options available depending on embedment criteria.
- Both rig & crane mounted hammers available.

	HPH 1200	SL300A	D19-52
DROPWEIGHT MASS (KG)	1040	2500	1820
WEIGHT (KG)	3000	5950	4100
POWER SOURCE	RIG/POWERPACK	CRANE/POWERPACK	RIG/ POWERPACK
BLOW RATE (BPM)	80-120	84	35-52
HAMMER LENGTH (M)	3.800	4.575	5.500
ENERGY TRANSFERRED TO PILE (KNM)	6.2-12	30	29-66





AUGER UNIT

- An effective tools for loosening soil without removing spoil.
- Auger diameter size of 300mm.
- Centre of auger aligns with sheet pile clutch positions.
- Minimum required oil flow rate of 70 LPM.
- Suitable for depths of up to 6m.

EXTENSION ARM

- Compatible with all TCL Excavator Mounted Vibrator Hammers.
- Used to extend the reach of the excavator when installing longer sheet piles.
- Depending on excavation size, piles can be pitched upto 8m in height.
- Stock available to suit all quick hitch pin sizes.

STEEL PLATES

- For use on roads and footpaths.
- Suitable for trenches up to 1200mm wide.
- Suitable for vehicular traffic over trenches etc.
- Supplied with lifting and pinning holes.

ROAD PLATES	
SIZE (MM)	WEIGHT (KG)
2400 X 1200 X 25MM	614
3000 X 1500 X 25MM	884
PEDESTRIAN PLATE	
2400 X 1200 X 15MM	368

ANTI-SKID

- Available size 2.4m x 1.2m x 20mm.
- Steel plate finished with Rocbinda anti-skid surface.
- Designed to withstand heavy loads while providing good traction.
- Supplied with lifting and pinning holes.

ROADPLATES





LOW-PRO

LOWPRO™ 23/05 ROAD PLATE

- Heavy-duty modular road plate for roads and footpaths.
- Suitable for 44T vehicles over a 1200mm trench.
- 2-person lift.
- Drop-pins prevent lateral movement.
- Moulded anti-slip surface.
- Hi Vis yellow encourages traffic calming.
- Patented Flexi-edges reduce noise pollution.
- Available with stillage.
- Spare parts available.
- 100% recyclable.

DIMENSIONS	END PLATE	INNER PLATE
WIDTH (MM)	700	500
LENGTH (MM)	2300	2300
HEIGHT (MM)	85	85
WEIGHT (KG)	27	65

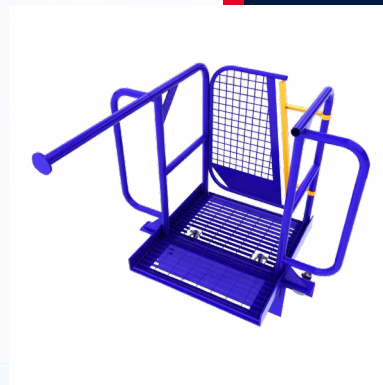
PLASTIC GROUND PROTECTION MATS

- An ideal solutions to protect sensitive surfaces.
- Practical, light and extremely solid.
- Flexible, they adjust to the surface.
- No need to use trucks or cranes for delivery & placement.
- Prevents damage to lawns from excavator tracks.

DIMENSIONS	2400 X 1200MM
THICKNESS	20MM
WEIGHT	54KG
HANDLES	6
LOAD BEARING	70 TON
ANTI SLIP	DOUBLE SIDED (ROUGH & SOFT)

ACCESS GATE

- For use with trench sheets, sheet piles and trench box systems.
- Allows for safe access and egress by operators into an excavation.
- Interchangeable ladder support bar allows access from either side.



ACCESS PLATFORM

- The access Platform is a compact ladder access system for use in deep excavations.
- The hoop ladder can be extended to suit various depths.
- The clamping system can accommodate steel piles & trench sheets.

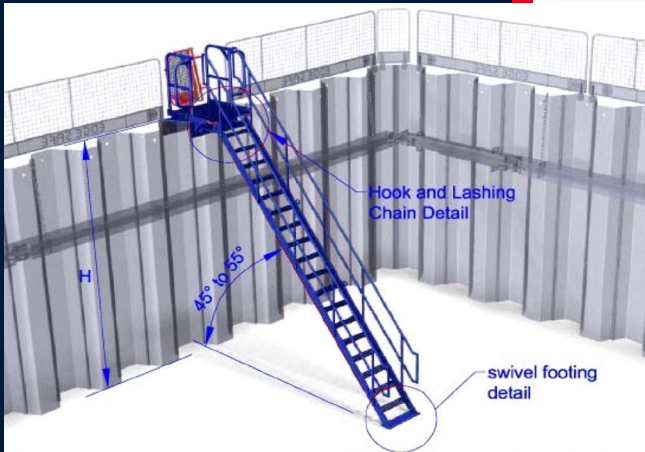


UP & OVER PLATFORM

- Suitable for use on concrete walls or steel box panel.
- Integrated designated lifting points.
- Adjustable clamps that range from 80-650mm.



ACCESS EQUIPMENT



STAIRSAFE

- Compact, lightweight, single person temporary access system for use in cofferdams.
- Stair flights range between 3.0m and 6.0m high.
- Gated access platforms compatible are available upon request.
- The stairsafe width is 600mm between handrails.
- The stair flight is installed at an angle of 45 to 55 degrees.

EMBANKMENT STEPS

- Easily collapsible and transportable steel site stairway.
- Supplied in standard lengths of 3,6,9,12,15 or 18 steps.
- Suitable for use on embankments & slopes. Handrails can be fitted to one or both sides.
- Standard width of 750mm.
- Available to suit embankment lengths in excess of 8m.

ALUMINIUM SINGLE LADDER

- Lengths Available 2m, 4m & 6m. Longer lengths available on request.
- Can be used to access cofferdams at initial stages.
- BS EN 131.
- Lightweight aluminium construction.
- Carrying capacity of 150kgs.

DAVIT ARM

- TCL Davitsafe is a lightweight aluminium Davit system ideally suited for utility works, designed to be fitted to TCL steel box systems, trench sheets and interlocked sheet piles.
- It is a modular system which can be broken down for ease of transport and installation. The extendable Davit arm provides a reach between 500mm – 735mm (19.5" to 29").
- The system satisfies the requirement of the Confined Spaces Regulations(1997) in providing a suitable means of rescue. In addition, it provides fall protection for personnel using pole ladders to enter an excavation.
- The fall arrest and winch are rated to 135KG max. SWL in accordance with BS EN 1496 and BS EN 360 and has a max. working length of 15m with a max. fall arrest load of 6kN. The MGF Davitsafe is rated to 135KG SWL under LOLER.



RESCUE KIT

- For use with both Davit Arm and tripod set-ups.
- Bosun's chair.
- Rescue stretcher.
- Rescue harness.



TRIPOD & WINCH

- Designed for use within confined spaces and down-hole applications.
- For use with G-Saver, G-Winch and G-Stop fall arrest products to provide a secure and stable anchorage.
- Manufactured from tubular aluminium with telescopic legs that can be adjusted for use on uneven surfaces.



PILE BREAKERS



PILE BREAKERS

TAETS Hydraulic Pile Breakers for round and square concrete piles. Efficient and time saving system for the topping of concrete piles.

- Avoids the risks hand/arm vibration – white finger syndrome.
- Powered from hydraulics on excavator.
- Our technician will deliver & fit to excavator.
- Easy to operate.
- The reinforcement remains intact.
- No cracks below cut-off level.
- No noise, no vibration.
- The breaking process is many times faster than conventional breaking and is fully controlled throughout the operation.
- Modular system for round piles is easy to adjust to different pile sizes on site and halflinks are available for accurate adjustment.
- Specials can be supplied for non standard piles.
- Power pack can be supplied if required.

	SQUARE TYPE 3	SQUARE TYPE 3.5	ROUND TYPE 314
PILE RANGE (mm)	180-320	180-320	450-900
HYDRAULIC FLOWRATE MIN (L/MIN)	12	12	10
PRESSURE MAX (BAR)	300	300	300
WEIGHT (KG)	360	380	1218-2088
EXCAVATOR SIZE (TN)	7	10	12-20

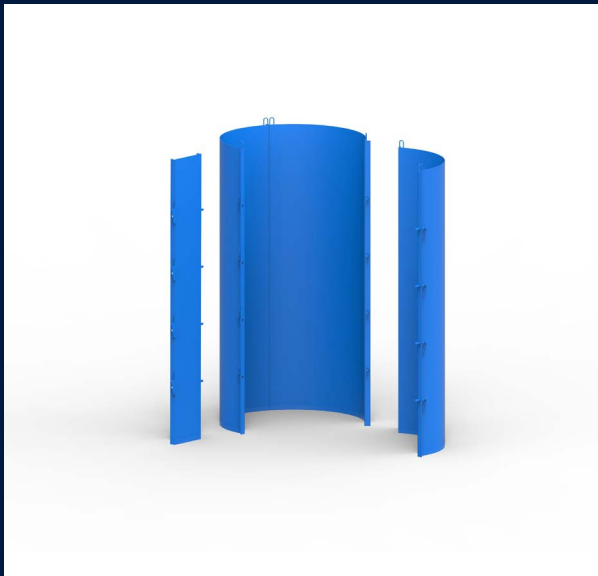
JAW CROPPERS

- To suit piles ranging from 200mm – 1000mm diameter.
- Suitable for any CFA or precast pile.
- Designed to work on both bonded & debonded piles.
- For use on both square and round piles.
- Allows for rapid fracture of the concrete without damaging the existing rebar.

NAME	PILE DIMENSIONS	APPROX. DIGGER WEIGHT	TYPE	NO. OF CHISELS	WEIGHT	LENGTH	WIDTH
PBH 400	250-450 CFA PILE, 250-275 PRECAST PILE	10/13/20T	VERTICAL	JAWS 4	980 kg	1100 mm	1100 mm
PBH 500	275 sq / 355 sq / 350 CFA – 600 CFA	13T	VERTICAL	JAWS 4	1250 kg	1000 mm	1000 mm
PBH 650	350 / 650 DIA ROUND	13T	VERTICAL	JAWS 4	1425 kg	1200 mm	1200 mm
PBH 750	750 / 300 DIA ROUND	13T/21T	VERTICAL	JAWS 4	1670 kg	1200 mm	1200 mm
PBH 1000	600 / 1000 DIA ROUND	21/30T	VERTICAL	JAWS 6	2750 kg	1780 mm	1916 mm



ANCILLARIES



ACCESSORIES:

- QUICK RELEASE MANHOLE LIFTING PIN
- PIN ANCHOR RING CLUTCH 2.5TN (SUITABLE FOR IRISH WATER SPEC 150MM MH RINGS)
- MH COVER LIFTING KEYS

STEEL MANHOLE SHUTTER

- TCL steel manhole shutters are designed to form a 150mm thick concrete surround to circular precast manhole rings.
- Manufactured from 2mm flexible steel & normally supplied in 900mm & 1800mm high units.*
- Panels are designed in modular form and thus enables concrete surround to be poured for manhole rings from 900mm - 2700mm internal diameter.
- Panels are jointed by the well proven key and locking wedge system.

INTERNAL RING	A	B	C	D
900MM	3	-	1	1
1050MM	3	1	2	-
1200MM	4	-	1	-
1350MM	4	2	-	-
1500MM	5	-	1	-
1800MM	6	-	-	-
2100MM	6	2	-	-
2400MM	7	-	-	-
2700MM	8	-	-	1

*Manhole shutters can be fabricated to suit any ring size or concrete thickness.

EDGE PROTECTION

- The solution will protect open trench excavations.
- This modular system attaches to the Trench Box or Sheet Piles to provide edge protection and secures the excavation.
- These panels can be attached to all trench sheets and sheet piles.
- The sheet clamp can be secured anywhere along the panel. The box clamp is pinned through the connection points on the panel.

PROPS

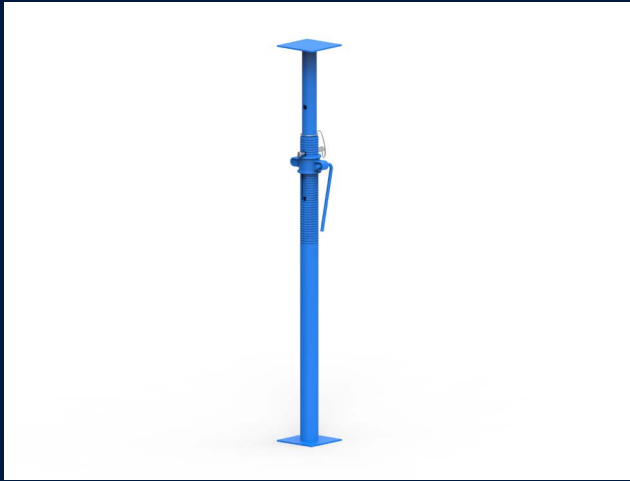
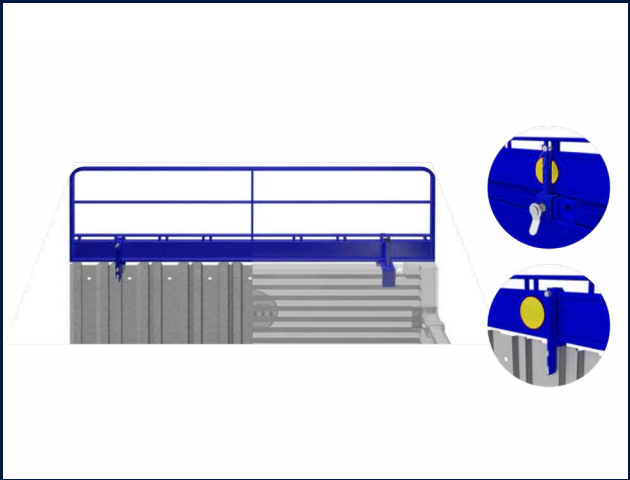
- Labour costs drastically reduced: no cutting, wedging and nailing of timber strutting.
- Easy to handle, positioned by one man in seconds.
- Compact design saves transport costs and storage space.
- All steel construction ensures longest life: no loose parts.
- Designed and constructed to ensure safety and dependability under all conditions.

SIZES	CLOSED (M)	EXTENDED (M)	WEIGHT (KG)
0	1.04	1.83	12
1	1.75	3.12	18
2	1.98	3.35	20
3	2.59	3.96	24
4	3.20	4.88	26

STRUTS

- Extremely robust, easy to handle, compact to store.
- Quickly and simply erected, no tools necessary.
- Headplates suit modern formwork systems for slab constructions.

SIZES	CLOSED (M)	EXTENDED (M)	WEIGHT (KG)
0	0.32	0.47	4
1	0.48	0.71	6.8
2	0.71	1.12	9.1
3	1.02	1.73	11.8





ACCESSORIES:

- PUMP UNIT
- HANGING CHAINS
- BIO-OIL
- RELEASE TOOL
- 2 WAY BRIDLE

ALUMINIUM WALER

- Horizontal aluminium hydraulic shoring walers, for use with trench sheets where closed or intermittent sheeting is required.
- This system is extremely versatile and most suitable for urban areas where there are many services crossing the line of an excavation.
- The walers are installed from outside the excavation ensuring that operatives work in total safety and do not at any time have to enter an unsupported area.
- The aluminium hydraulic cylinders are pressurised with a bio-oil mix using a hand pump unit.

LENGTH (M)	2.5	3.0	4.0
NO. OF HYDRAULIC CYLINDERS	2	2	2
MINIMUM EXTERNAL WIDTH (MM)	530	530	530
MAXIMUM EXTERNAL WIDTH	2240	2240	2240
TYPICAL WEIGHT (KG)	70	80	100
CLEARANCE BETWEEN CYLINDERS	1800	2300	3300
BEAM WIDTH (MM)	100	100	100

CYLINDER SIZES	A	B	C
RANGE (mm)	530-830	780-1310	1260-2240

- 5 & 6m lengths are available in steel.

VERTI-SHORE

- Verti-shore is a lightweight compact vertical shoring unit designed for use in ground conditions which do not require close sheeting.
- These units are easily transported and can be quickly installed from outside the excavation within seconds of the trench being dug.
- The interconnected aluminium hydraulic cylinders are pressurised with a bio-oil mixture by a reliable pump unit.

HEIGHT (M)	WIDTH MIN (MM)	WIDTH MAX (MM)	WEIGHT PER UNIT (KG)	CLEARANCE BETWEEN BOTTOM CYLINDER (MM)	MAX SWL (KN/M)
0.6	450	680	11	260	60
1.5	450	1600	25	570	20
2.1	450	-	32-40	570	20

CYLINDER SIZES	1	2	3	4
RANGE	450-680	550-880	650-1080	1000 - 1600

*Note additional sizes available for sale only.





PIPE LIFTER

- Trench Control Pipe Lifters have been designed to lift and install concrete pipes safely and quickly.
- Our pipe lifter can be used for off-loading the delivery lorry and allows for accurate placement within the pipe run.
- Removes manual intervention during loading/offloading and pipe installation.
- Slings and chains not required.
- A safe and effective way to lift concrete pipes.
- Eliminates the need to sling pipes and use of timbers when pushing home.
- Suitable for Concrete Pipe sizes up to 1500mm.
- Versatile and safe to use.
- Reduces working time spent in the trench.
- Can be adapted to suit various quick hitch sizes.
- Lifting capacity of pipelifter is 4200 KG.
- Weight of pipelifter approx 1200 KG.

PIPE PUSHER

- Primarily designed for the pushing home/jointing of concrete drainage pipes.
- A safe and effective way to help install concrete pipes.
- Suitable for concrete pipe sizes up to 150mm.
- Versatile and safe to use.
- Reduces working time spent in the trench.
- Can be adapted to suit various quick hitch sizes.
- Weight: 350KGs
- Height: 540mm
- Length: 1000mm
- Width fully closed: 1270mm
- Width open to maximum: 2010mm
- Designed to take a maximum load of 10t directly on to the buffers.

DRIVING CAP

- Our driving caps are designed to suit both our overlapping and interlocking trench sheets and sheet piles.
- They are used for Dig and Push methods of installation.
- They prevent damage to the sheets and allow the force to be evenly distributed through the sheet section.

CAMLOCK

- Designed to pull out sheet piles or trench sheets.
- The clamps have a narrow opening and a deep slot to ensure that the sheet is gripped firmly.
- Fitted with a double locking mechanism to ensure that the clamp remains 'locked on' and cannot become unlocked during the extraction of the sheet.

QUICK RELEASE SHACKLE

- Suit all standard sheet profiles.
- Designed to quickly and safely pitch trench sheets and sheet piles
- Come with certified D-Shackle for easy attachment to an excavator.

CHAIN SLINGS

- A wide range of lifting chains in stock.
- Various chain lengths & lifting capacities to chose from.
- Suitable for lifting all types of ground support equipment.





HEYPAC PUMP UNIT

- For use with larger frames requiring an increased volume of oil.
- Double skinned Unit.
- Operates with bio-degradable oil.
- Pressurises frames to the design load capacity and allows for hydraulic retraction.



STONE MAGNET

- Handy, powerful & cordless vacuum lifting device.
- Suitable for laying of dense stone slabs, concrete elements, pipes and similar.
- Can be used with all types of lifting equipment.
- Max SWL of 200 KGs.



BOGMATS

- Access across soft or waterlogged land.
- Made from durable Scandinavian oak.
- Provides temporary roadways suitable for heavy duty traffic access.
- Size of mass 1m long x 5m wide.

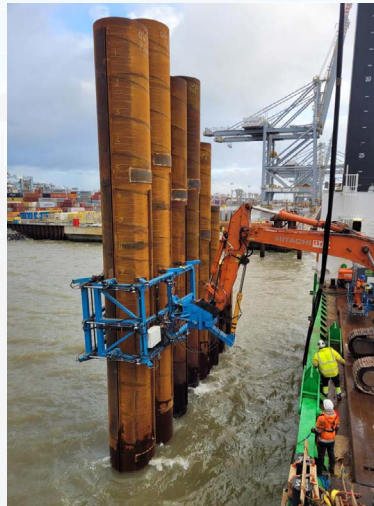
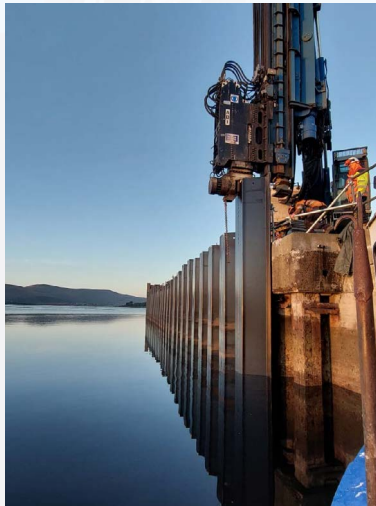


PILE LIFTING SHOES

- For safe handling of all types of sheet piles.
- Should be used in pairs with a suitable chain sling or spreader bar.
- Can also be used for handling structural sections of steel.
- Max SWL of 2500 KGs.

CONTRACTING SERVICES

- Sheet pile installation and extraction.
- Hydraulic bracing installation and extraction.
- Marine piling works, combi-wall and tubular pile installation.
- Flood defense scheme.
- Small works crews for cofferdam installation and extraction.
- Piling operators and experienced banksmen are available for hire.
- Kingpost systems.
- Fabrication and installation of bespoke steel walers and bracing props.
- Full in-house engineering and design department consultation.



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SHEET PILING RIGS

- Trench Control have a highly versatile and powerful range of sheet piling rigs to suit all site conditions.
- Our piling rig fleet offers a broad range of techniques to install both PU and AZ sheet piles, H-Beams and steel tubes.
- All our sheet piling rigs have the capacity to pre auger soils to ease pile installation when required.
- Pre Augering also helps to reduce the vibration to install the sheet piles.
- We can adjust the crowd force with the leader mast system from 0 to max thus being able to react on changing soils (soil layers).
- We can adjust the static moment from 0 to max - enabling us to adjust the vibrator's centrifugal forces to actual demand.
- We can adjust the hydraulic displacement motors which makes vibrator's gear assembly to behave like an automatic drive in a car, shifting according to speed into the proper transmission thus transferring the supplied energy in the most efficient way to the pile.
- We can set the vibration speed up to 2600rpm minimizing the transferring of accelerations into the ground.

RIG	VIBRO HAMMER		AUGER DRIVE
ABI TM14/17SL	MRV 925VS		MDBA 3200-2
ABI TM4/17V (QUICK DOCK)	MRZV 30VV		MDBA4500-2
ABI TM16/20B	MRZV 28VV		DAWSON 11-TM
	TM14/17SL	TM14/17V	TM16/20B
TOTAL TRANSPORT WEIGHT	50000KGS	57600KGS	65000KGS
STATIC MOMENT (HAMMER)	0-16KGM	0-30KGM	0-28KGM
CENTRIFUGAL FORCE (HAMMER)	925KN	1500KN	1000KN
LENGTH	11700MM	12895MM	14300MM
TRACK GAUGE	2200-3300MM	2300-3800MM	2300-3800MM

MOVAX

- Movax SG-80VA (side grip) high frequency vibro hammer provides a wide range of uses for installation/extraction of sheet piles & tubes. Mounted on our Volvo 380E excavator, this hammer comes with driver and banksman for a complete piling solution where driving conditions are favourable and in areas where reach may be beyond a conventional leader rig.
- It provides 360 degree rotation for manoeuvrability into tight areas and has a reach up to 6m with a maximum pile length of 14m (PU-22).
- This alternative piling solution can sometimes be the answer for urban locations where noise is an issue as it's resonance free start up and shut down cause less noise and provides maximum versatility where piling rigs may not be utilised.

SG-80v		
Weight (with sheet pile clamps, excl. adapter)	kg	3200
HEIGHT (MM)	mm	2860
DEPTH (MM)	mm	1295
WIDTH (MM)	mm	1230
FREQUENCY	Hz/RPM	38-50/2300-3000
ECCENTRIC MOMENT (MAX)	kgm	8,1
CENTRIFUGAL FORCE (MAX)	kN	800
GROUND VIBRATION		MINIMAL
RESONANCE FREE START/STOP		YES
ACTIVE VARIABLE ECCENTRIC MOMENT		YES
SWING/TILT ANGLE	o	360/±45
PILE LENGTH/WEIGHT		6 M / 2800 KG 12 M / 1900 KG 16 M / 1300 KG
RETURN PRESSURE	bar	5
PRESSURE SETTING	bar	350
EXCAVATOR CLASS	t	33-50
ENGINE POWER, MIN., TIER III	kW	180
ENGINE POWER, MIN., TIER IV	kW	200



DESIGN ENGINEERING DEPARTMENT

At Trench Control we favour a collaborative approach of working with our clients to develop buildable solutions which are appropriate for the project requirements.

We provide independent consulting services in the fields of geotechnical engineering and temporary works design.

Our design department provides a hands on approach and welcomes early involvement in projects. We carry our own Professional Indemnity Insurance and provide competitive rates and fee structures for tendering and contract work.

We aim to provide concise and clearly presented drawings and submissions based on our core principles of producing safe and cost effective solutions and advice.

Our geotechnical team have gained extensive experience in dealing with a wide range of complex ground related issues on a variety of projects in both Ireland and the UK. This extensive experience ensures that we deliver innovative geotechnical solutions to the latest engineering standards.

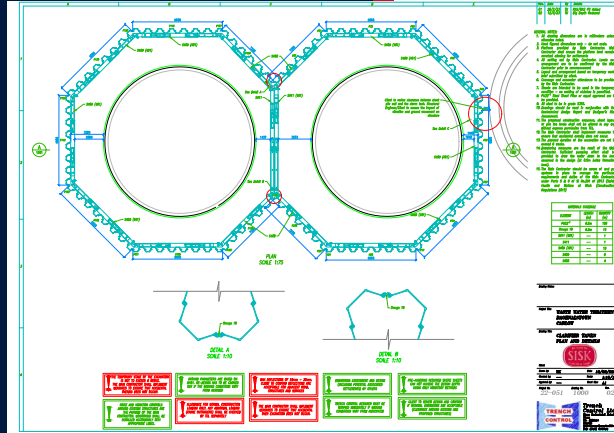
CONTACT:

TOM KEHOE

SENIOR DESIGN ENGINEER

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tkehoe@trenchcontrol.ie



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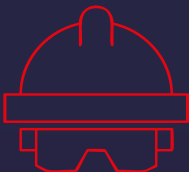
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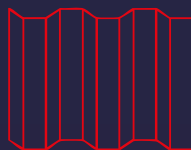


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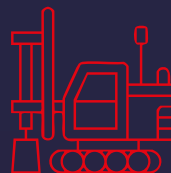
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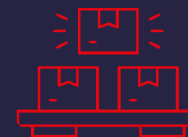
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