



Piling & Ground Improvement
Hydraulic piling hammers, power packs,
piling rigs and rapid impact compactors



No.1 for Piling Hammers & RIC

BSP-TEX products and services are delivered worldwide and benefit from more than 117 years of experience and engineering excellence. All our products are designed and manufactured in the UK and customers are welcome to visit for a tour around our manufacturing facilities.

We produce a wide range of foundation equipment, including hydraulic piling hammers, hydraulic power packs, piling rigs, and rapid impact compactors (RIC). Our piling hammers provide an economical solution for the installation of all types of steel or concrete piles in either land or marine environments. Energy outputs range from 20kNm–590kNm and the hammers are operated from piling rigs, leaders or crane suspended.

BSP-TEX operates a Quality Management System that complies with ISO 9001:2015.



Q 05585





Dropweight Mass
 1,500–2,500 kg
 3,305–5,510 lbs

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Dropweight Mass
 2,500 kg
 5,510 lbs

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Dropweight Mass
 2,500–5,000 kg
 5,510–11,020 lbs

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Dropweight Mass
 4,000–9,000 kg
 8,820–19,840 lbs

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Dropweight Mass
 9,000–11,000 kg
 19,840–24,250 lbs

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Dropweight Mass
 12,000–20,000 kg
 26,455–44,090 lbs

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Dropweight Mass
 25,000–40,000 kg
 55,115–88,185 lbs

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Power Output
 130–800 kW
 175–1,073 hp

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Dropweight Mass
 9,000–16,000 kg
 19,840–35,274 lbs

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Control & Monitoring
 for hammers, rigs & RIC

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DX Hammer Range

The DX range of hydraulic piling hammers are designed for small bearing piles of steel, timber, concrete and many sheet piles. The DX hammer is available with back guides for operating from a piling rig or a slider for operating from an excavator.

The DX hammer can be mounted on road-rail or tracked excavators with an operating weight of around 32t/70,548 lbs or greater. Applications include railway equipment installation and maintenance. Specifically developed to drive steel piles to support electrification stanchions, gantries and other railway projects requiring foundation piling. When mounted to the excavator's bucket linkage, the hammer can be quickly



Dropweight Mass
 1,500–2,500 kg
 3,307–5,510 lbs



Hammer Energy
 20–30 kN.m
 14,750–22,128 lbs



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erected from a horizontal transport position to a vertical position. Side tilt adjustment of five degrees left and right allows it to cope with the cant of the rail lines. During piling the hammer is automatically guided or crowded in the vertical plane.

Three models are available, the DX20, DX25 and the larger DX30, which offer drop-weights of 1.5t/3,305 lbs, 2.0t/4,409 lbs and 2.5t/5,510 lbs. Maximum impact energy is 20kNm/14,750 ft.lbs, 25kNm/18,439 ft.lbs and 30kNm/22,127 ft.lbs respectively, while blow rate at rated energy for all models is 60 blows per minute.

DX hammers can also be used to drive sheet piles, small bearing piles, tubular steel, timber or concrete piles with ultimate load bearing up to 2500kN/562kips. They can be operated directly from a suitable hydraulic excavator. A feature of the new hammers is an innovative BSP double-acting cylinder, whereby the ram is accelerated on its downward path to achieve higher impact energy.

Suitable for typical piles driven singly or in pairs. Most Arcelor AZ and AU14 piles. Also, LX / PU / W Ranges, Hoesch H1200 to H3600, 'H' Piles, HP260 to HP400, USA HP10" to HP16". Tubes up to 406mm/16" Dia, Rail Standard 610mm/2' and 762mm/2'6" diameter tubes, plus many others.

Above: The DX hammer is designed to drive steel piles to support electrification stanchions, gantries and other railway projects requiring foundation piling. Side tilt adjustment of five degrees left and right allows it to cope with the cant of the rail lines.

Above left: The DX Hammer driving sheet piles. The manipulator increases the range of movement.

Configured for railway equipment installation and maintenance.



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- **Total control of hammer**
- **Allows precise matching of energy to suit the pile driving requirements**
- **Double acting cylinder produces high impact energy and fast blow rate**
- **Economical – low hydraulic power requirements**
- **Available with BSP Hydropacks for optimum hammer performance**
- **Hammer can be operated directly from hydraulic crane or excavator base**
- **Can drive piles with ultimate load bearing up to 1800kN**



Above: The DX hammer is available with back guides for operating from a piling mast, and is also used on the BSP-TEX JX Piling Rig.

Top: The DX hammer can be operated directly from a suitable hydraulic excavator.

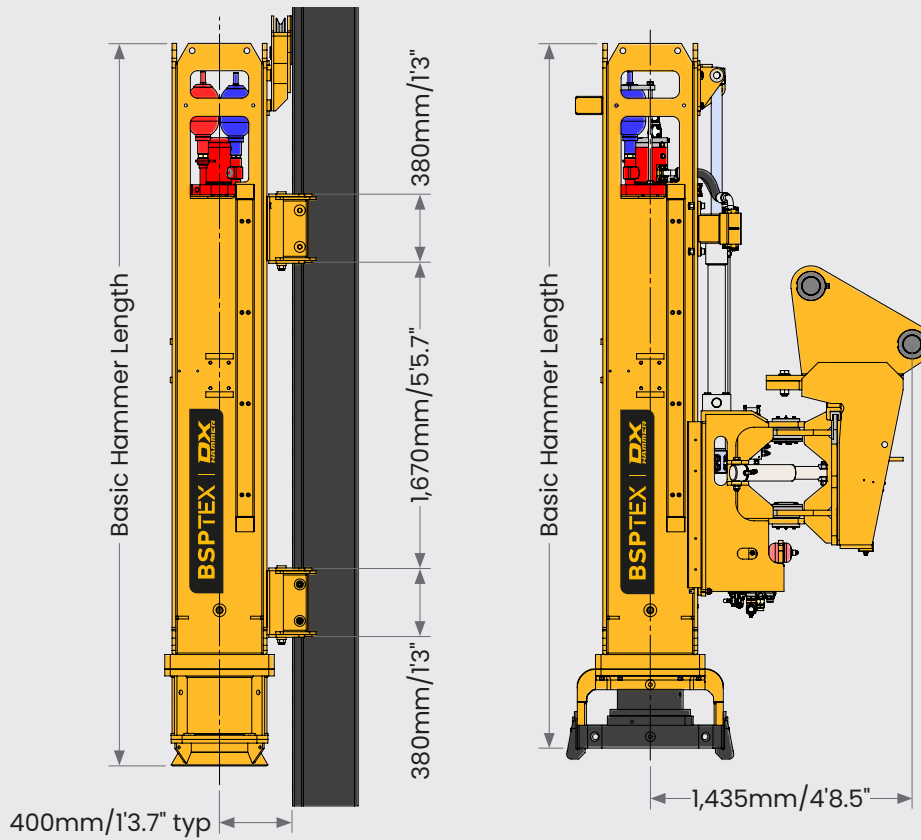


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DX Specifications	DX20	DX25	DX30
Dropweight Mass (kg/lbs)	1,500/3,305	2,000/4,410	2,500/5,510
Hammer Energy (kN.m/ft.lbs)	20/14,750	25/18,440	30/22,126
Max Equivalent Stroke (m/ft-in)	1.2/3'11"	1.2/3'11"	1.2/3'11"
Operating Pressure (bar/psi)	150/2,175	160/2,320	170/2,465
Hyd. Oil Flow Required (L/min/USgpm)	150/40	150/40	150/40
Blow Rate at rated energy (bpm)	60	60	60
Basic Hammer Length (mm/ft-in)	4,000/13'2"	4,000/13'2"	4,300/14'1"
Basic Hammer Weight (kg/lbs)	3,900/8,600	4,500/9,920	5,500/12,125
Compatible Power Pack - Stage III	-	-	-
Compatible Power Pack - Stage V	-	-	-
Operating Mode	PR/EM	PR/EM	PR/EM
Pile Type	SP/TH/CP/WP	SP/TH/CP/WP	SP/TH/CP/WP
Maximum Pile Size (mm/ft-in)	800/2'7.5"	800/2'7.5"	800/2'7.5"
Power Source	PTO	PTO	PTO
Max Pile Bearing Capacity (kN/kips)	1,400/315	1,800/405	2,500/562

FS Freely Suspended, **PR** Piling Rig/Mast, **EM** Excavator Mount, **SP** Sheet Piles, **TH** Tube & H-Piles, **CW** Combi-Wall, **CP** Concrete Piles, **WP** Wooden Piles, **PP** Power Pack, **PTO** Crane/Excavator PTO



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Slim/narrow design allows the hammer to pass between upstanding piles.

SL Hammer Range

The SL hydraulic piling hammers are compact, powerful and versatile. They are designed for driving sheet piles and small bearing piles of concrete, steel or timber.

The SL30 hammer has a drop weight of 2,500kg/5,500 lbs, impact energy of 30kN.m/22,126 ft.lbs, and a maximum blow rate of 84 blows per minute.

The SL30 hammer can drive piles to an ultimate load bearing capacity of 2,500kN/562 kips. They are available with legs and inserts for crane suspended use or with backguides for operating from a piling rig, piling mast or leader.



Dropweight Mass
2,500 kg
5,500 lbs



Hammer Energy
30 kN.m
22,126 ft.lbs



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Features of the SL range include total control of hammer stroke and blow rate. The BSP-TEX specially designed and developed double-acting cylinder produces high impact energy from a short stroke. SL hammers are economical to operate due to the high blow rate and low hydraulic power requirement. An optional digital read-out of hammer performance is available.

Having a slim design and a width of only 784mm/2'7" allows the hammers to pass between upstanding piles which includes PZ27 sections.

The hammers can be operated directly from a hydraulic crane or are available with BSP-TEX Hydropacks which conform to the latest environmental regulations.

Above: The SL hammer is designed for driving sheet piles and small bearing piles of concrete, steel or timber.

High blow rate and low hydraulic power requirement.

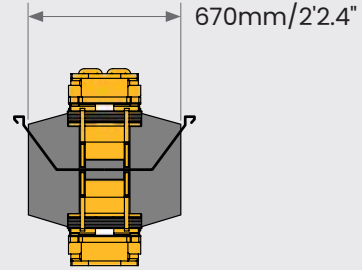
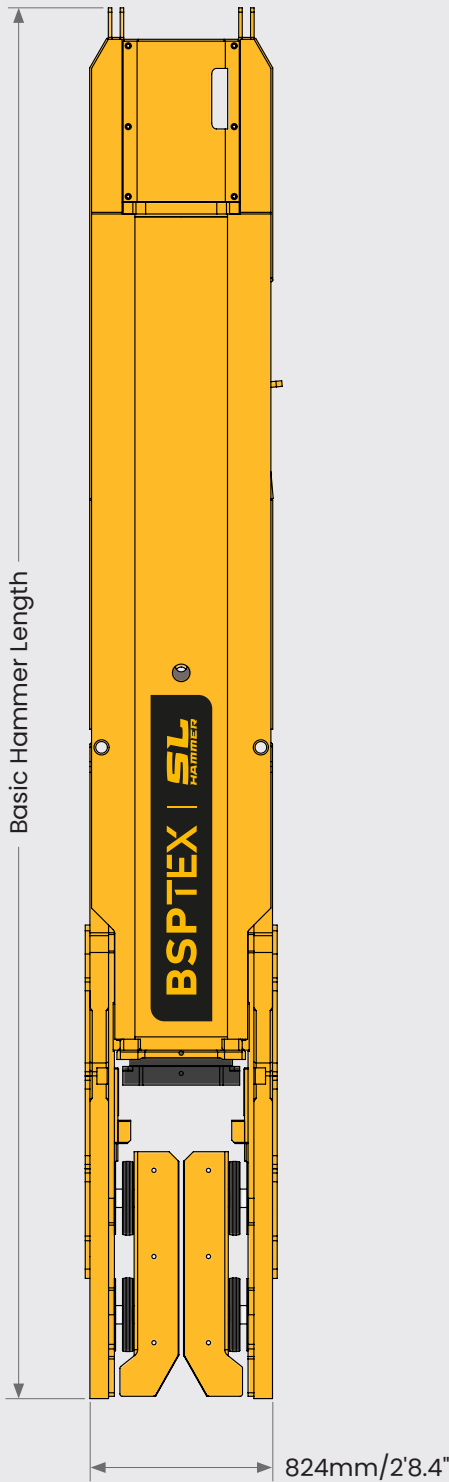


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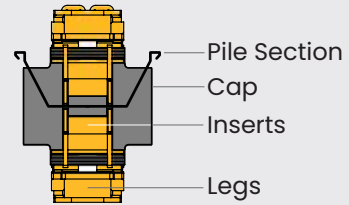
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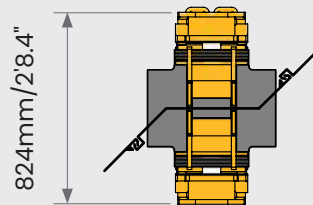
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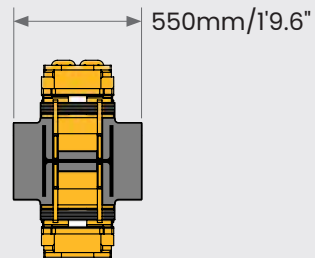
AU Piles Singly



PU Piles Singly



AZ Piles Singly



H Piles Singly

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- **Total control of hammer stroke and blow rate**
- **Double acting cylinder produces high impact energy from a short stroke to give a high blow rate**
- **Slim design allows hammer to pass between upstanding piles**
- **Low hydraulic power requirement**
- **Available with BSP-TEX Hydropacks for optimum hammer performance**
- **Hammer can be operated directly from hydraulic crane or excavator bases**
- **Can drive piles with ultimate load bearing up to 1800kN/405 kips**



Above: The SL hammer can be used in piling rigs and is supported by a wide range of accessories.

Top: Various pile sections are accommodated.

SL Specifications	SL30
Dropweight Mass (kg/lbs)	2,500/5,510
Hammer Energy (kN.m/ft.lbs)	30/22,126
Max Equivalent Stroke (m/ft-in)	1.2/3'11"
Operating Pressure (bar/psi)	180/2,611
Hyd. Oil Flow Required (L/min/USgpm)	175/46
Blow Rate at rated energy (bpm)	84
Basic Hammer Length (mm/ft-in)	5,970/19'7"
Basic Hammer Weight (kg/lbs)	5,950/13,117
Compatible Power Pack - Stage III	HP130
Compatible Power Pack - Stage V	HP150
Operating Mode	FS/PR
Pile Type	SP/TH/WP
Maximum Pile Size (mm/ft-in)	650/2'1.6"
Power Source	PP/PTO
Max Pile Bearing Capacity (kN/kips)	2,500/562

FS Freely Suspended, **PR** Piling Rig/Mast, **EM** Excavator Mount, **SP** Sheet Piles, **TH** Tube & H-Piles, **CW** Combi-Wall, **CP** Concrete Piles, **WP** Wooden Piles, **PP** Power Pack, **PTO** Crane/Excavator PTO



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LX Hammer Range

The LX hydraulic hammer range of powerful yet lightweight hammers have been designed to provide greater stability to piling rigs, especially in applications where a greater reach is required.

The LX hammers provide an economical solution for the installation of all types of piles. The hammers are capable of driving steel, concrete or timber piles in a variety of soil conditions. Drop-weights range from 2,500kg/5,510 lbs up to 5,000kg/11,023 lbs and impact energy ranges from 20kN.m/14,750 ft.lbs to 40kN.m/29,502 ft.lbs.

The special cylinder system offers unique advantages including total control of hammer stroke and blow rate. Precise matching of energy to the pile driving requirement reduces energy loss and maintains a low running cost.



Dropweight Mass
2,500–5,000 kg
5,510–11,023 lbs



Hammer Energy
20–40 kN.m
14,750–29,502 ft.lbs



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Other important features include optimum power to weight ratio. Due to the cage and drop-weight design, the hammers have a short overall length. The design of the cylinder, drop-weight connection and shock absorber allow easy access for maintenance.

Above: The short overall length of the LH hammer is a distinct advantage.

The hammers can be fitted with a single acting hydraulic system to give an equivalent stroke of 800mm/2'7.5" or alternatively a double acting cylinder can be fitted to give an equivalent stroke of 1,200mm/3'11".



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A range of standard drive caps and pile helmets are available for the LX range. LX hydraulic piling hammers can be operated from BSP-TEX power packs or from hydraulic piling rigs or cranes.

Above and left: The unique cylinder design provides optimum power to weight ratio.

Greater stability and greater reach.

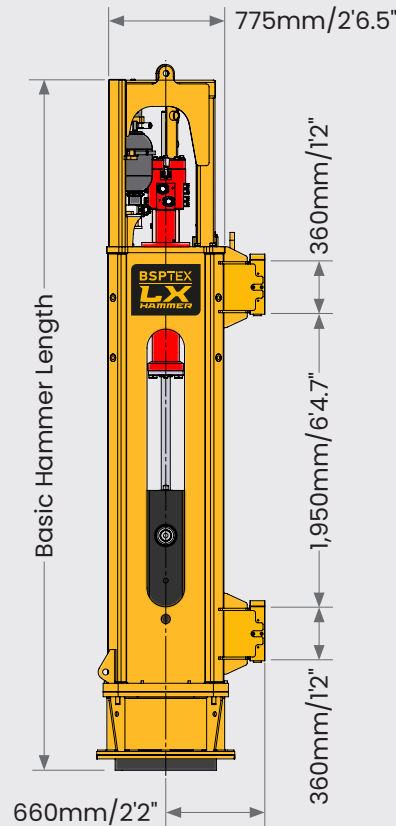
- **Total control of hammer**
- **Easy maintenance**
- **Short overall length**
- **Optimum power to weight ratio**
- **Can operate from BSP-TEX power pack, hydraulic piling rig or crane**
- **A range of standard drive caps and pile helmets are available**
- **Choice of cylinders for 800mm/2'7.5" or 1,200mm/3'11.2" stroke**



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LX Specifications	LX20	LX30	LX40
Dropweight Mass (kg/lbs)	2,500/5,510	4,000/8,818	5,000/11,023
Hammer Energy (kN.m/ft.lbs)	20/14,750	30/22,127	40/29,502
Max Equivalent Stroke (m/ft-in)	0.8/2'7.5"	0.8/2'7.5"	0.8/2'7.5"
Operating Pressure (bar/psi)	120/1,740	200/2,900	220/3,190
Hyd. Oil Flow Required (L/min/USgpm)	160/42	160/42	160/42
Blow Rate at rated energy (bpm)	45	50	55
Basic Hammer Length (mm/ft-in)	4,800/15'9"	4,800/15'9"	4,950/16'3"
Basic Hammer Weight (kg/lbs)	5,600/12,346	7,100/15,653	8,000/17,637
Compatible Power Pack - Stage III	-	-	-
Compatible Power Pack - Stage V	-	-	-
Operating Mode	PR	PR	PR
Pile Type	TH/CP/WP	TH/CP/WP	TH/CP/WP
Maximum Pile Size (mm/ft-in)	800/2'7.5"	800/2'7.5"	800/2'7.5"
Power Source	PTO	PTO	PTO
Max Pile Bearing Capacity (kN/kips)	1,500/337	2,400/540	3,000/674

FS Freely Suspended, **PR** Piling Rig/Mast, **EM** Excavator Mount, **SP** Sheet Piles, **TH** Tube & H-Piles, **CW** Combi-Wall, **CP** Concrete Piles, **WP** Wooden Piles, **PP** Power Pack, **PTO** Crane/Excavator PTO



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CX Hammer Range

CX hydraulic piling hammers are designed for driving a wide range of bearing or sheet piles. Available with legs and inserts or tube pile guides for use freely suspended, or with back guides for operating from a hydraulic piling rig or leaders. The hammers are capable of driving steel or concrete piles to an ultimate load bearing capacity of up to 8,400kN/1,888 kips.

Features include total control of hammer stroke and blow rate, precise matching of energy to suit the pile driving requirements. In addition, changing the drive cap dolly is quick and easy.



Dropweight Mass
4,000–9,000 kg
8,818–19,842 lbs



Hammer Energy
50–110 kN.m
36,878–81,132 ft.lbs



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The hammers can be operated directly from a hydraulic crane or used with a BSP-TEX power pack. The cage and drop-weight design result in a short overall hammer length, and the cylinder and drop-weight connection with shock absorbers are readily accessible and easy to maintain.

Above: CX hydraulic piling hammers are designed for driving sheet piles, tube and H-piles, concrete piles, combi-wall and wooden piles.

The accelerated cylinder design is unique to BSP-TEX hammers, and offers superior performance. The hydraulic system is efficient, economical and reliable.



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- **Total control of hammer**
- **Allows precise matching of energy to suit the pile driving requirements**
- **Highly efficient hydraulic system delivers low energy loss and low running cost**
- **Simple, fast dolley changing**
- **Low maintenance and easily accessible**
- **Cage and drop-weight design gives short overall hammer length**
- **Available with BSP Hydropacks for optimum hammer performance**
- **Can be operated directly from hydraulic crane**
- **Suitable for driving raked/batter piles**

Available with legs and inserts or tube pile guides for use freely suspended, or with back guides for operating from a hydraulic piling rig or leaders.

Above: CX hammers are suitable for driving raked/batter piles.

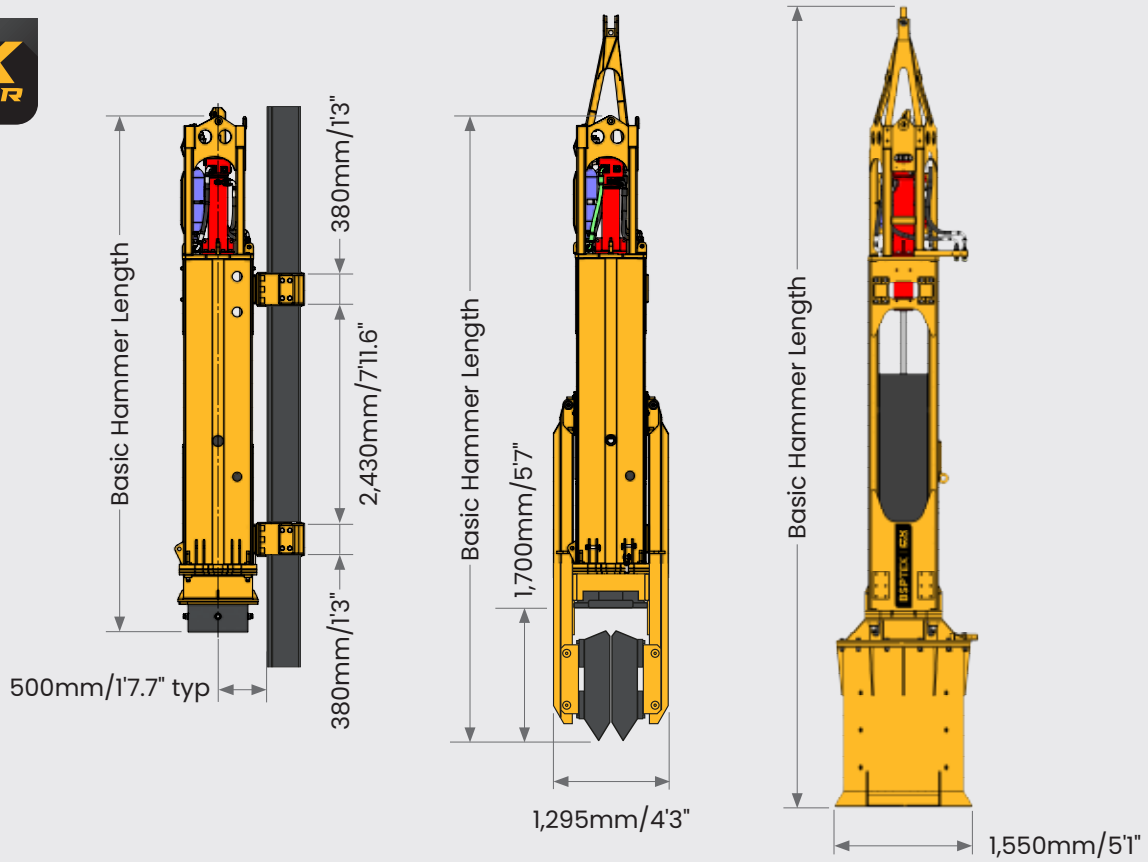
Top left: CX hammers are available with BSP-TEX Hydropacks for optimum hammer performance.



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CX Specifications	CX50	CX60	CX85	CX110
Dropweight Mass (kg/lbs)	4,000/8,818	5,000/11,023	7,000/15,432	9,000/19,842
Hammer Energy (kN.m/ft.lbs)	50/36,878	60/44,254	85/62,693	110/81,132
Max Equivalent Stroke (m/ft-in)	1.2/3'11.2"	1.2/3'11.2"	1.2/3'11.2"	1.2/3'11.2"
Operating Pressure (bar/psi)	200/2,900	240/3,480	250/3,625	260/3,770
Hyd. Oil Flow Required (L/min/USgpm)	180/48	220/58	220/58	220/58
Blow Rate at rated energy (bpm)	46	40	38	35
Basic Hammer Length (mm/ft-in)	5,020/16'5"	5,860/19'3"	5,860/19'3"	6,380/20'11"
Basic Hammer Weight (kg/lbs)	7,800/17,196	9,160/20,194	11,450/25,243	14,110/31,107
Compatible Power Pack - Stage III	HP130	HP130	HP130	HP130
Compatible Power Pack - Stage V	HP150	HP150	HP150	HP150
Operating Mode	FS/PR	FS/PR	FS/PR	FS/PR
Pile Type	SP/TH/CP/WP	SP/TH/CP/WP	SP/TH/CP	SP/TH/CW/CP
Maximum Pile Size (mm/ft-in)	1,000/3'3"	1,220/4'	1,525/5'	1,525/5'
Power Source	PP/PTO	PP/PTO	PP/PTO	PP/PTO
Max Pile Bearing Capacity (kN/kips)	3,700/832	4,600/1,034	6,500/1,461	8,400/1,888

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CXL Hammer Range

CXL hydraulic piling hammers are designed for driving a wide range of bearing or sheet piles. Available with legs and inserts or tube pile guides for use freely suspended, or with back guides for operating from a hydraulic piling rig or leaders. The hammers are capable of driving steel or concrete piles to an ultimate load bearing capacity of up to 11,000kN/2,473kips.

Features include total control of hammer stroke and blow rate, precise matching of energy to suit the pile driving requirements. In addition, changing the drive cap dolly is quick and easy.



Dropweight Mass
 9,000–11,000 kg
 19,842–24,251 lbs



Hammer Energy
 115–140 kN.m
 84,820–103,259 ft.lbs



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The hammers can be operated directly from a hydraulic rig or used with a BSP-TEX power pack. The cylinder and drop-weight connection with shock absorbers are readily accessible and easy to maintain.

The cylinder design is unique to BSP-TEX hammers, and offers superior performance. The hydraulic system is efficient, economical and reliable.

Optional equipment includes a digital readout of hammer performance in a choice of units (stroke or energy) and are also available with BSP-TEX Hydropacks which conform with current emissions regulations.

- **Total control of hammer stroke and blow rate**
- **Allows precise matching of energy to suit the pile driving requirements**
- **Highly efficient hydraulic system delivers low energy loss and low running cost**
- **Simple, fast dolley changing**
- **Low maintenance and easily accessible**
- **Available with BSP Hydropacks for optimum hammer performance**
- **Can be operated directly from hydraulic crane**
- **Suitable for driving raked/batter piles**



Above: CXL hydraulic piling hammers are designed for driving sheet piles, tube and H-piles, concrete piles, combi-wall and wooden piles.

Available with legs and inserts or tube pile guides for use freely suspended.

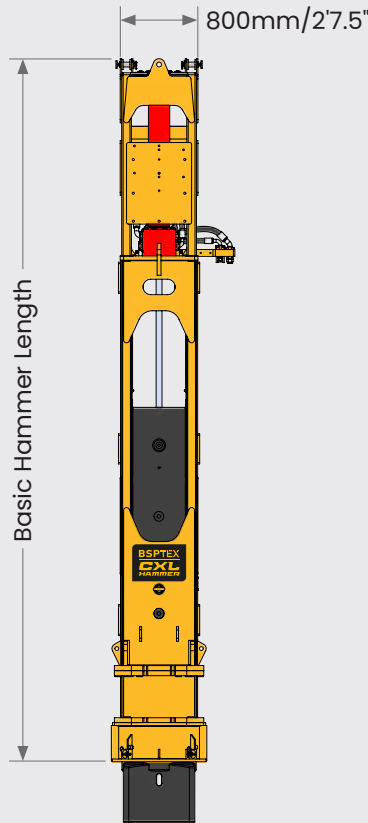


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CXL Specifications	CXL115	CXL140
Dropweight Mass (kg/lbs)	9,000/19,842	11,000/24,251
Hammer Energy (kN.m/ft.lbs)	115/84,820	140/103,259
Max Equivalent Stroke (m/ft-in)	1.3/4'3"	1.3/4'3"
Operating Pressure (bar/psi)	260/3,770	270/3,916
Hyd. Oil Flow Required (L/min/USgpm)	250/66	250/66
Blow Rate at rated energy (bpm)	35	32
Basic Hammer Length (mm/ft-in)	6,380/20'11"	7,750/25'5"
Basic Hammer Weight (kg/lbs)	14,750/32,518	17,000/37,478
Compatible Power Pack - Stage III	HP130	HP130
Compatible Power Pack - Stage V	HP150	HP150
Operating Mode	FS/PR	FS/PR
Pile Type	SP/TH/CW/CP	SP/TH/CW/CP
Maximum Pile Size (mm/ft-in)	1,600/5'3"	1,600/5'3"
Power Source	PP/PTO	PP/PTO
Max Pile Bearing Capacity (kN/kips)	8,500/1,910	11,000/2,473

FS Freely Suspended, **PR** Piling Rig/Mast, **EM** Excavator Mount, **SP** Sheet Piles, **TH** Tube & H-Piles, **CW** Combi-Wall, **CP** Concrete Piles, **WP** Wooden Piles, **PP** Power Pack, **PTO** Crane/Excavator PTO



BSP-TEX LTD

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Email: sales-bsp@tex.co.uk
www.bsptex.com



Made in the UK



CG Hammer Range

All the CG piling hammers are designed for driving a variety of bearing piles including steel tube, combi-piles, H-sections, raked/batter piles and reinforced/prestressed concrete piles and can be operated from piling rig leaders or crane suspended.

Important features of the CG range include total control of hammer stroke and blow rate, and precise matching of energy to suit the relevant pile driving requirements. These large-capacity hammers are capable of driving piles with an ultimate load bearing of up to 23,700kN/5,328 kips.



Dropweight Mass
12,000–20,000 kg
26,455–44,092 lbs



Hammer Energy
180–300 kN.m
132,761–221,269 ft.lbs



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Drive cap dolly changing is quick and easy, and cylinder and drop-weight connection with shock absorber is easily accessible for routine maintenance.

CG hammers are economical to operate because they have a low hydraulic power requirement. For optimal performance, use CG hammers with BSP-TEX Hydropacks.



Left: See also the full range of BSP-TEX Hydropack power packs.

Below left: CG hammers are designed for driving a variety of bearing piles including, raked/ batter piles.



Suitable for driving raked (batter) piles

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- **Total control of hammer stroke and blow rate**
- **Allows precise matching of energy to suit the pile driving requirements**
- **Quick and easy dolly changing**
- **Cylinder and drop-weight connection with shock absorber is easily accessible**
- **Economical, low hydraulic power design**
- **Available with BSP-TEX Hydropacks for optimum hammer performance**
- **Suitable for driving raked (batter) piles**

Above: The CG range of accessories include large capacity pile sleeves and custom options are also available.

These large-capacity hammers are capable of driving piles with an ultimate load bearing of up to 23,700kN/ 5,328 kips.

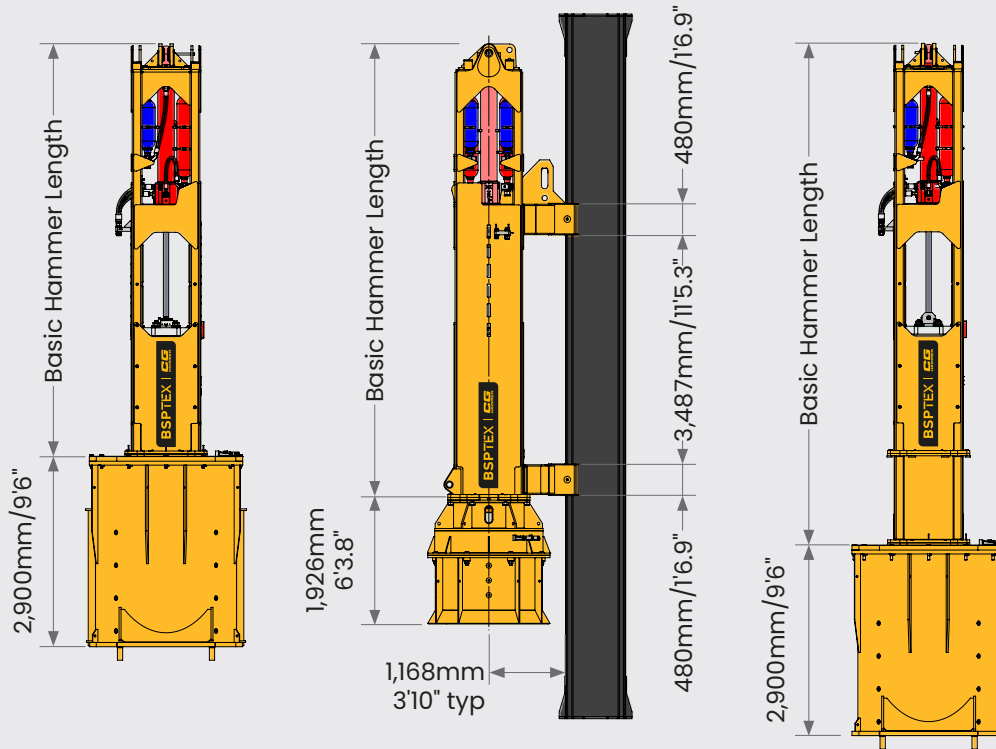


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CG Specifications	CG180	CG210	CG240	CG300
Dropweight Mass (kg/lbs)	12,000/26,455	14,000/30,865	16,000/35,274	20,000/44,092
Hammer Energy (kN.m/ft.lbs)	180/132,761	210/154,888	240/177,015	300/221,269
Max Equivalent Stroke (m/ft-in)	1.5/4'11"	1.5/4'11"	1.5/4'11"	1.5/4'11"
Operating Pressure (bar/psi)	180/2,611	240/3,480	260/3,770	280/4,061
Hyd. Oil Flow Required (L/min/USgpm)	380/100	380/100	420/110	420/110
Blow Rate at rated energy (bpm)	36	36	34	34
Basic Hammer Length (mm/ft-in)	6,270/20'7"	6,600/21'8"	6,930/22'9"	7,590/24'11"
Basic Hammer Weight (kg/lbs)	17,300/38,140	19,350/42,659	21,700/47,840	26,000/57,320
Compatible Power Pack - Stage III	HP252	HP252	HP252	HP252
Compatible Power Pack - Stage V	HP260	HP260	HP260	HP260
Operating Mode	FS/PR	FS/PR	FS/PR	FS/PR
Pile Type	TH/CW/CP	TH/CW/CP	TH/CW/CP	TH/CW/CP
Maximum Pile Size (mm/ft-in)	2,100/6'10.7"	2,100/6'10.7"	2,500/8'2.4"	2,500/8'2.4"
Power Source	PP	PP	PP	PP
Max Pile Bearing Capacity (kN/kips)	14,200/3,192	16,600/3,732	19,000/4,271	23,700/5,328

FS Freely Suspended, **PR** Piling Rig/Mast, **EM** Excavator Mount, **SP** Sheet Piles, **TH** Tube & H-Piles, **CW** Combi-Wall, **CP** Concrete Piles, **WP** Wooden Piles, **PP** Power Pack, **PTO** Crane/Excavator PTO



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CGL Hammer Range

The CGL hammers can be used crane suspended or configured with backguides for leader use. All the CGL piling hammers are designed for driving a variety of bearing piles including steel tubes, combi-piles, H-sections, raked or batter piles and reinforced/pre-stressed concrete piles. Piles up to 2m/6'6.7" in diameter can be driven as standard, and with special attachments, larger diameters can be accommodated.



Dropweight Mass
25,000–40,000 kg
55,115–88,185 lbs



Hammer Energy
370–590 kN.m
272,898–435,162 ft.lbs



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Key features of the CGL hammers are the cylinder and drop-weight connection parts are easily accessible for maintenance, the square-section minimises overall height, and the digital readout of hammer performance is available in a choice of units (stroke or energy).

The CGL models are economical to operate due to a low hydraulic power requirement. The hydraulic cylinder is BSP-TEX's own designed and developed system. Choose BSP-TEX Hydropack power packs for optimal performance.

Above: With a maximum dropweight of 40t/88,185 lbs, the CGL range are the largest hammers produced by BSP-TEX.

Piles up to 2m dia. can be driven as standard.



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- **Total control of hammer stroke and blow rate**
- **Cylinder and drop-weight connection parts are easily accessible**
- **Digital readout of hammer performance in choice of units (stroke or energy)**
- **Square section giving a shorter overall height**
- **Attachment points allowing vertical or raking piles to be driven**
- **Piles up to 2m/6'6.7" diameter can be driven as standard**

Above: CGL hammers can be configured for most piling applications and a wide range of accessories are available.

Custom attachments are available for non-standard piles and piles greater than 2m/6'6.7" in diameter.

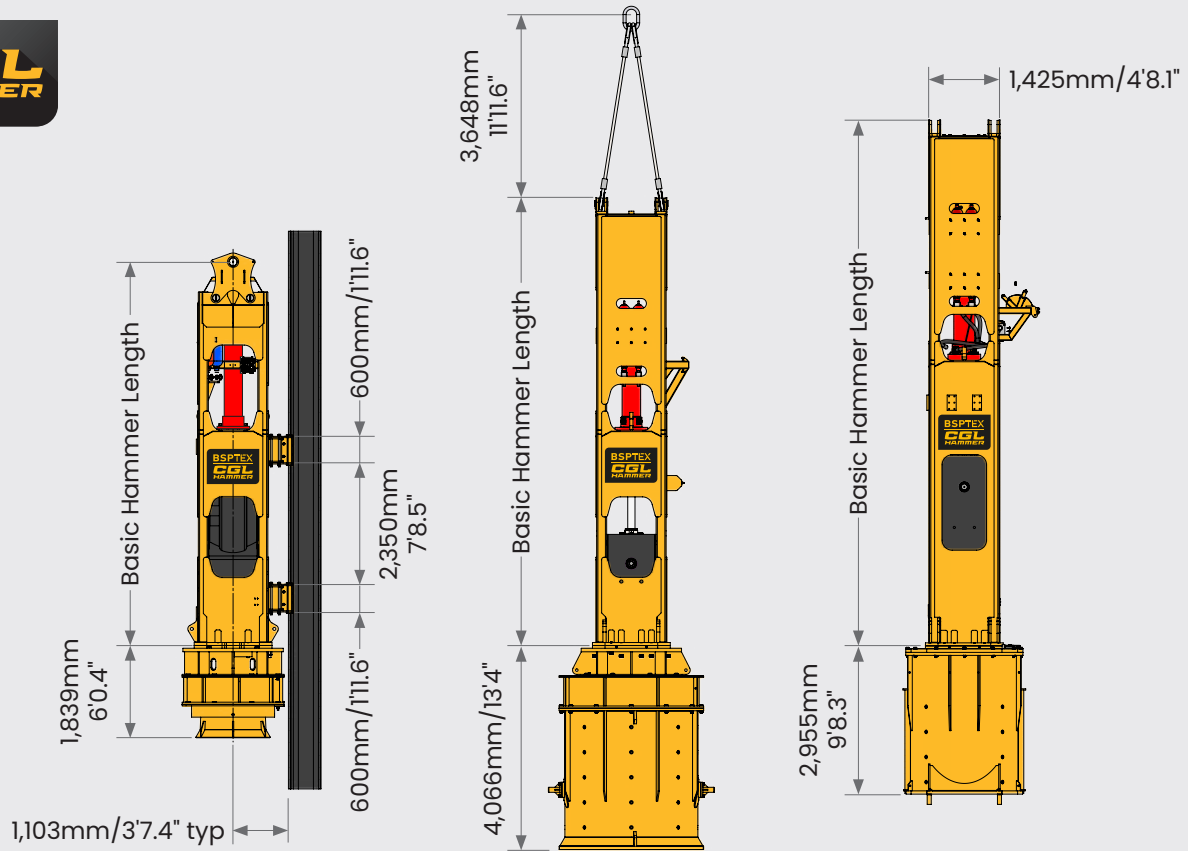


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CGL Specifications	CGL370	CGL440	CGL520	CGL590
Dropweight Mass (kg/lbs)	25,000/55,115	30,000/66,139	35,000/77,162	40,000/88,185
Hammer Energy (kN.m/ft.lbs)	370/272,898	440/324,527	520/383,532	590/435,162
Max Equivalent Stroke (m/ft-in)	1.5/4'11"	1.5/4'11"	1.5/4'11"	1.5/4'11"
Operating Pressure (bar/psi)	260/3,770	280/4,061	280/4,061	290/4,206
Hyd. Oil Flow Required (L/min/USgpm)	800/211	800/211	1,000/264	1,000/264
Blow Rate at rated energy (bpm)	32	32	32	32
Basic Hammer Length (mm/ft-in)	9,250/30,4.2"	9,750/31'11.9"	10,250/33'7.5"	10,750/35'3.2"
Basic Hammer Weight (kg/lbs)	37,230/82,276	43,700/96,342	50,160/110,584	60,000/132,277
Compatible Power Pack - Stage III	HP570	HP570	HP800	HP800
Compatible Power Pack - Stage V	HP570	HP570	HP800	HP800
Operating Mode	FS/PR	FS/PR	FS/PR	FS/PR
Pile Type	TH/CW/CP	TH/CW	TH/CW	TH/CW
Maximum Pile Size (mm/ft-in)	3,000/9'10.1"	3,000/9'10.1"	3,000/9'10.1"	3,000/9'10.1"
Power Source	PP	PP	PP	PP
Max Pile Bearing Capacity (kN/kips)	29,000/6,519	35,000/7,868	40,000/8,992	46,000/10,341

FS Freely Suspended, **PR** Piling Rig/Mast, **EM** Excavator Mount, **SP** Sheet Piles, **TH** Tube & H-Piles, **CW** Combi-Wall, **CP** Concrete Piles, **WP** Wooden Piles, **PP** Power Pack, **PTO** Crane/Excavator PTO



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Hydraulic Power Packs

BSP-TEX Hydropacks are used to power hydraulic pile driving hammers. Diesel power is provided by either Caterpillar or Perkins series industrial engines. All engines are turbocharged and after-cooled, and Hydropacks are exceptionally reliable and easy to maintain. Engine emission status is selected according to location.

Other features of the hydraulic power pack range include a robust skid frame, central external lifting points, bund for containment of spillages, lockable access doors, and acoustic attenuation. Hydraulic power is produced using Kawasaki variable displacement axial piston pumps.

Control panel functions include system protection shut down, engine rpm, emergency stop, system load test and fault diagnosis using the latest CAN bus technology.



Power Output
130–800 kW
174–1,073 hp



Maximum Flow
215–1,200 L/min
57–317 USgpm

Request a quote for BSP-TEX customised power packs.



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Made in the UK



- **Turbo charged diesel engines used exclusively for reliability, fuel economy and compliance with the latest EU/EPA regulations**
- **Open circuit hydraulic system using electronically controlled axial piston pumps**
- **Robust, welded steel skid frame with bund for containment of spillages**
- **Lockable doors provide security and easy service access.**
- **Tank mounted hydraulic filter with sensor for service indication**
- **Hydraulic oil temperature controlled by independent air blast cooler**

Above: Hydropacks are available in a standard range of power outputs from 130–800 kW/174–1,073 hp.

Hydropacks are exceptionally reliable and easy to maintain.



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- **CAN bus control panel functions include, engine rpm, emergency stop, system load test & fault diagnosis**
- **System pressure gauge**
- **Offline cooling and filtration of hydraulic oil as standard**
- **Option of hydraulic oil condition monitoring system**
- **EPA-Tier 4 engines available on larger power packs**



Above: Excavator mounts available on request.

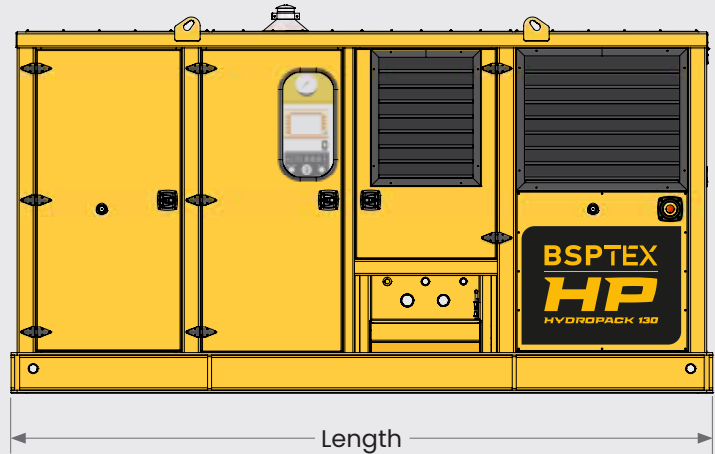
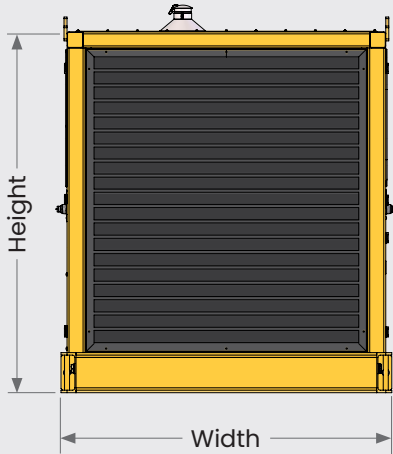
Top: For optimal performance, choose BSP-TEX Hydropacks.



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HP Specifications	HP130	HP150	HP252	HP260	HP570	HP800
Power Output (kW/hp)	130/174	150/201	252/338	260/349	570/764	800/1,073
Max. Flow (L/min/USgpm)	215/57	250/66	420/110	430/114	900/238	1200/317
Max. Op. Pressure (bar/psi)	300/4,351	300/4,351	300/4,351	300/4,351	300/4,351	300/4,351
Engine Type	Perkins	Perkins	CAT	CAT	CAT	CAT
Engine Model	1106D	1206F	C9	C9.3B	C18	2xC15
Hydraulic Oil Cap. (L/USgal)	600/159	600/159	1000/264	1000/264	2,100/555	3,000/793
Fuel Capacity (L/USgal)	350/93	350/93	500/132	500/132	1,000/264	1,800/476
Weight Dry (kg/lbs)	3,100/6,834	3,700/8,157	5,300/11,685	5,800/12,787	10,000/22,046	12,000/26,455
Weight Inc. Fuel & Oil (kg/lbs)	3,890/8,576	5,000/11,023	6,500/14,330	7,200/15,873	12,700/27,999	16,000/35,274
Length (m/ft-in)	3.50/11'5.8"	3.50/11'5.8"	4.50/14'9.2"	4.50/14'9.2"	5.20/17'1"	7.20/23'7.5"
Width (m/ft-in)	1.65/5'5"	1.65/5'5"	1.80/5'10.9"	1.80/5'10.9"	2.00/6'6.7"	2.20/7'2.6"
Height (m/ft-in)	1.75/5'8.9"	1.75/5'8.9"	2.30/7'6.5"	2.30/7'6.5"	2.30/7'6.5"	2.50/8'2.4"
Compatible BSP Hammers	SL/CX	SL/CX/CXL	CG 180-300	CG 180-300	CGL 370-440	CGL 520-590
Engine Emission Status (EU)	Stage-III	Stage-V	Stage-III	Stage-V	Stage-V	Stage-IV
Engine Emission Status (EPA)	Tier 3	Tier 4	Tier 3	Tier 4	Tier 4	Tier 3

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Made in the UK



**JX
RIG**



**Mobile, self-erecting
and radio-controlled
(optional extra).**

JX Piling Rig

The JX Piling Rig is mobile, self-erecting and radio-controlled. The rig is mounted on a JCB base unit, uses a 12.5m/41' single piling mast, and any one of the three BSP-TEX hydraulically accelerated piling hammers from the DX range. The JX Piling Rig is capable of driving steel, wood or concrete piles up to 8m/26'3" in length.



Dropweight Mass
1,500–2,500 kg
3,305–5,510 lbs



Hammer Energy
20–30 kN.m
14,750–22,126 ft.lbs



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**JX
RIG**


A primary braked piling winch carries the 3.9–5.5t/8,598–12,125 lbs piling hammer, and a secondary winch is used to handle the piles. The rig also incorporates a mast foot and pile guide. Refer to the DX hammer range data sheet for more detailed information.

Requiring just 150 litres per minute/39.6 USGal/min of oil flow at 150–170 bar/2,175–2,465 psi, the high-performance hammer can deliver up to 30kNm of energy at 60bpm. This performance exceeds the requirement on most projects for concrete driven piles, resulting in the machine working at approximately 50% power. Fuel consumption of the JX Piling Rig is an economical 10 litres/2.65 USGal per hour.

The combined weight of the rig is 28.6t/63,052 lbs and this light weight, combined with a wide and long undercarriage, reduces the ground pressure imposed by the machine to just 82kN/m²/18.4 kips/m² without a pile.

**28.6t/63,052 lbs
transport weight (inc.
hammer), 13m/42'7.8"
working height,
8m/26'3" max. pile
length and 3.09m/
10'1.6" width.**


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**SPEED**

The JX Piling Rig is self-erecting and mobilised in minutes from arrival on site. The double acting cylinder produces a fast blow rate.

POWER

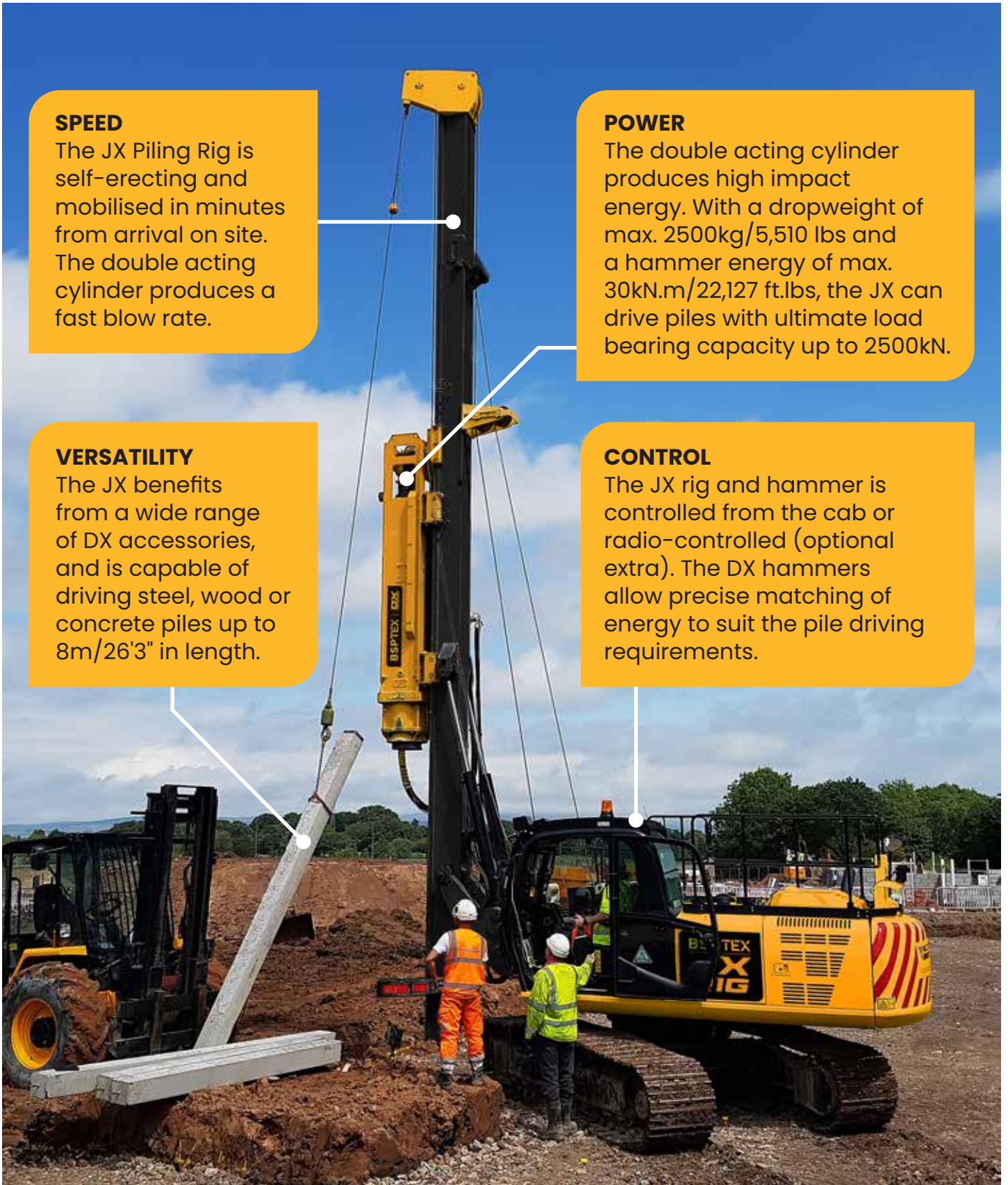
The double acting cylinder produces high impact energy. With a dropweight of max. 2500kg/5,510 lbs and a hammer energy of max. 30kN.m/22,127 ft.lbs, the JX can drive piles with ultimate load bearing capacity up to 2500kN.

VERSATILITY

The JX benefits from a wide range of DX accessories, and is capable of driving steel, wood or concrete piles up to 8m/26'3" in length.

CONTROL

The JX rig and hammer is controlled from the cab or radio-controlled (optional extra). The DX hammers allow precise matching of energy to suit the pile driving requirements.

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- **Mobile and self-erecting**
- **Radio-controlled option available**
- **Uses hydraulic hammers from the DX range**
- **Double acting cylinder produces high impact energy and fast blow rate**
- **Economical - low hydraulic power requirements**
- **Can drive piles with ultimate load bearing up to 2500kN/562 kips**
- **Available with synchronised hammer and pile winches**

Above: Mobile, self-erecting and radio-controlled.

Above left: Uses hydraulic hammers from the DX range.

Top right: Cab control and monitoring equipment.



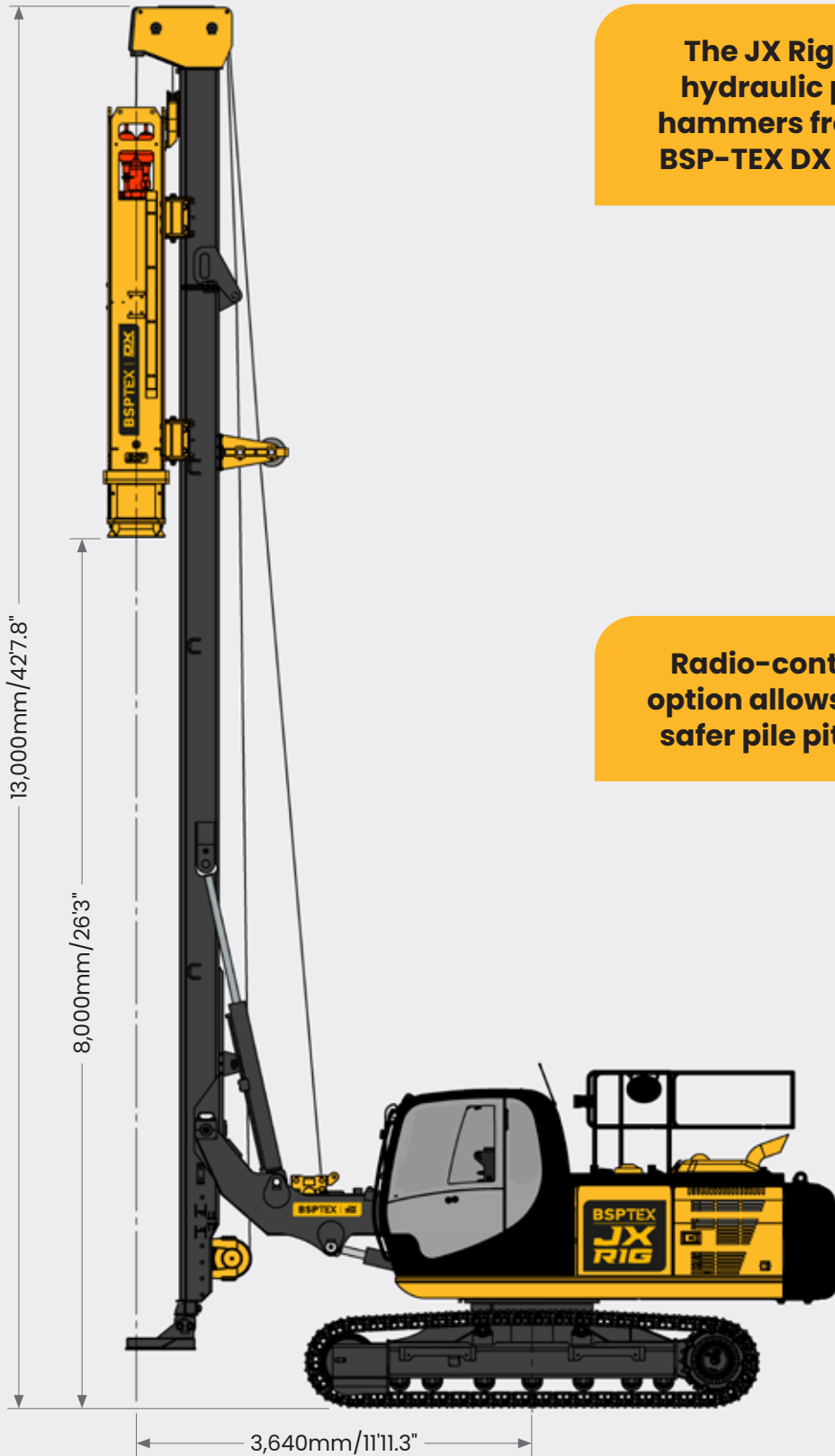
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**JX
RIG**



The JX Rig uses hydraulic piling hammers from the BSP-TEX DX range.

Radio-controlled option allows faster, safer pile pitching.

BSP-TEX reserve the right to amend specifications at any time.



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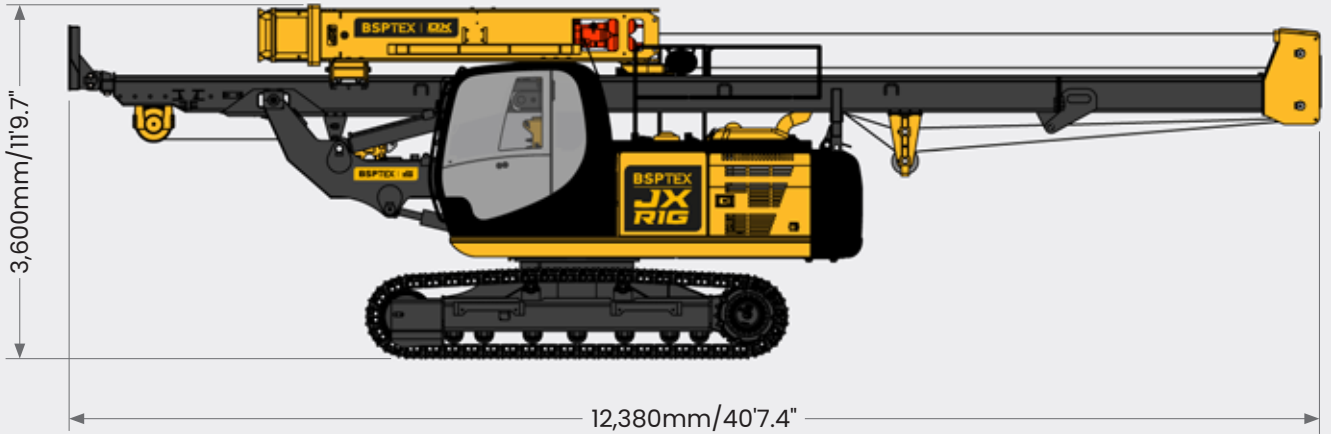
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JX Specifications

DX25-8

Working Height (m/ft-in)	13/42'7.8"
Max Pile Length (m/ft-in)	8/26'3"
Base Unit Model	JCB 220X-LC
Engine Type	Ecomax
Power Output (kW/hp)	129/173
Track Pad Width (mm/ft-in)	700/2'3.5"
Track Footprint (m/ft-in)	4.46 x 3.10/14'7.6" x 10'2"
Operating Radius (m/ft-in) CL Rot'n to Pile	3.64/11'11"
Operating Weight (kg/lbs) inc. hammer & max pile	30,300/66,800 lbs
Transport Weight (kg/lbs) inc. hammer	28,600/63,052 lbs
Transport Length (m/ft-in)	12.38/40'7.4"
Transport Width (m/ft-in)	3.10/10'2"
Transport Height (m/ft-in) incl. hammer	3.60/11'10"
Compatible BSP Hammers	DX20-30
Engine Emission Status (EU)	Stage-V
Engine Emission Status (EPA)	Tier 4



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RIC Range

RIC is a technique allied to Dynamic Compaction that can be used to increase the bearing capacity of soils through controlled impact.

The treatment is effective in the top layers typically up to 6m/19'8" depth, though improvements up to 9m/29'6.3" have been seen in some conditions. A drop weight of 9–16 tonnes/19,842–35,274 lbs (depending on size) is dropped onto a special foot assembly 40–60 times a minute. The foot remains in contact with the ground at all times.



Dropweight Mass
9,000–16,000 kg
19,842–35,274 lbs



Hammer Energy
110–240 kN.m
81,132–177,015 ft.lbs



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**SPEED**

The unit is mounted on standard excavators, typically in the 40-90 tonne/88,185-198,416 lbs class and can be mobilised in minutes from arrival on site.

CONTROL

The machine is accurately controlled from the excavator cab and the degree of compaction electronically monitored.

**SAFETY**

The impact foot is in contact with the ground at all times and eliminates the risk of flying debris. Unlike conventional DC, other activities can take place in close proximity.

QUALITY

The impact energy and soil deflection are recorded by the on-board computer for presentation of compaction data to site managers. The data can highlight weak zones where extra fill is required or zones where underground obstructions were present (i.e. previously hidden old foundations).

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Above: Within a single shift of say 10 hours, expect to spend 70% compacting with the remaining time given to dolley changing, routine maintenance and site preparation/layout.

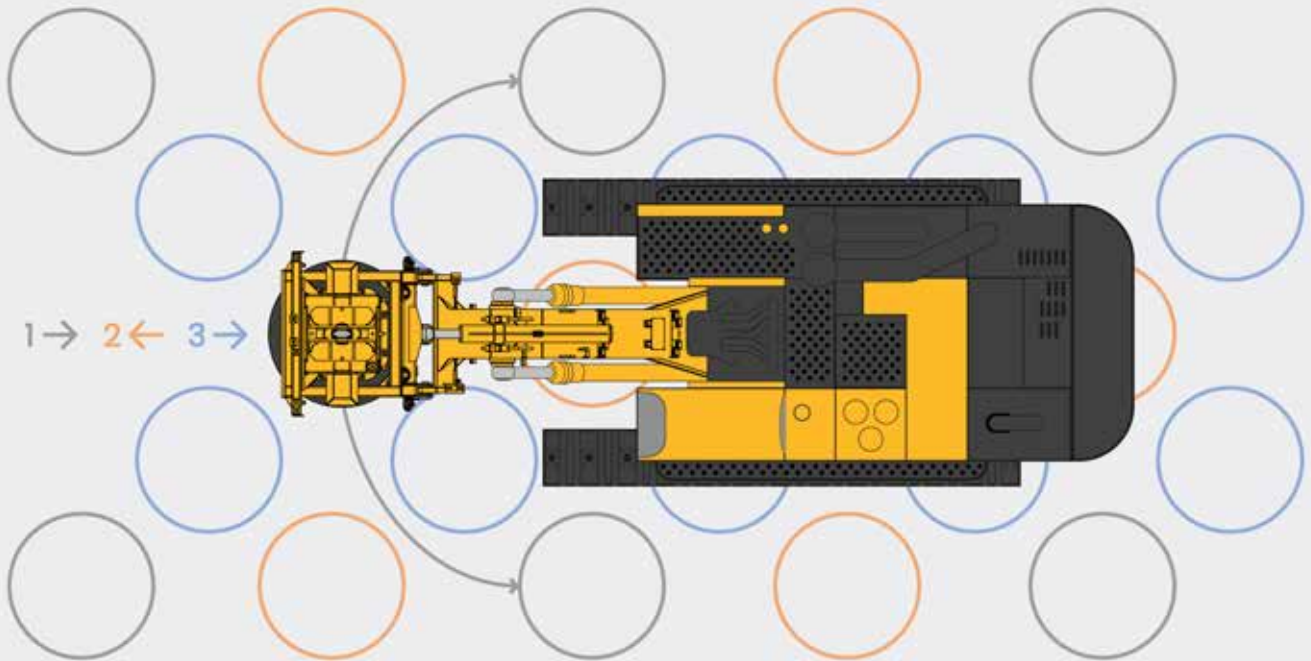
Left: BSP-TEX offer sound attenuation for its RIC Mk. 3 range of Rapid Impact Compactors.



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The method for efficiently covering the ground varies from country to country. A common pattern used to cover uses a track in three passes (see diagram above). The outer (grey) points being compacted first, followed by the intermediate (orange) lastly the infilling (blue) positions. This has the effect of achieving the best depth of influence. The first pass effecting the ground to a deeper level than the latter.

Above: Typical method of RIC ground coverage.

RIC is potentially twice as fast and at least 40% cheaper than conventional methods.

Most granular fills and some silts are compactable, the best results being achieved where the fill is well-graded particle size. An area of 800m²–2500m²/2,625 ft²–8,202 ft² can be covered in an average day (depending on the ‘blow-per-position’ setting.) This also allows time for routine maintenance and rotation of the special dolley pads located in the foot assembly which transfers the force of the blow through to the ground.



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A monitor unit is used to record work done. Target criteria settings are adjusted for final set, depth and blow counts. The driver then compacts until one of those criteria is reached before moving the machine on. A visual representation of the data is seen in the cab and recorded by the on-board monitor.

A GPS receiver option is available and GPS coordinates may be added to the compaction points. This allows the data logged to be precisely allocated to real position. Data presentations to the client can then be greatly enhanced.



Above: Data logging equipment is used for RIC monitoring, providing visual representation and reporting.



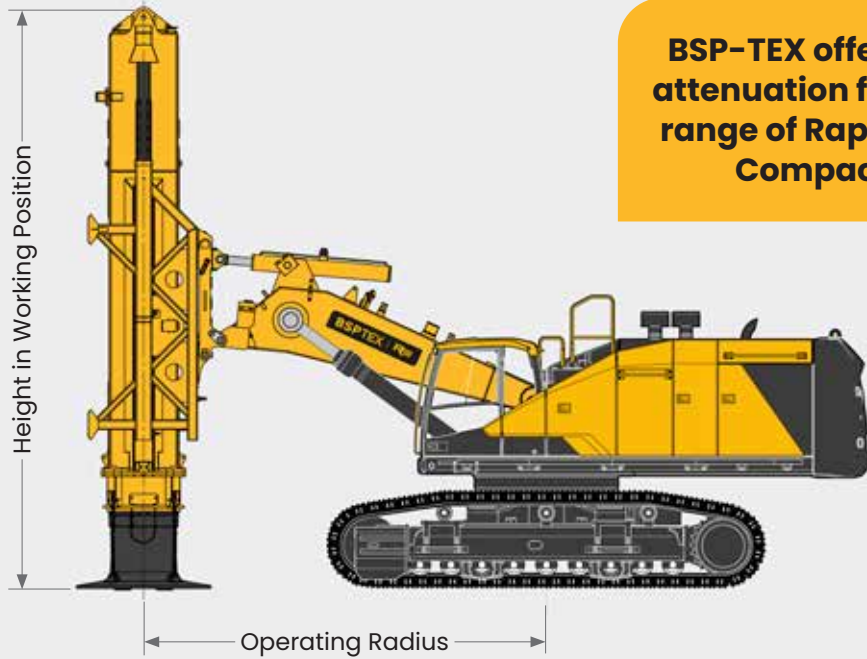
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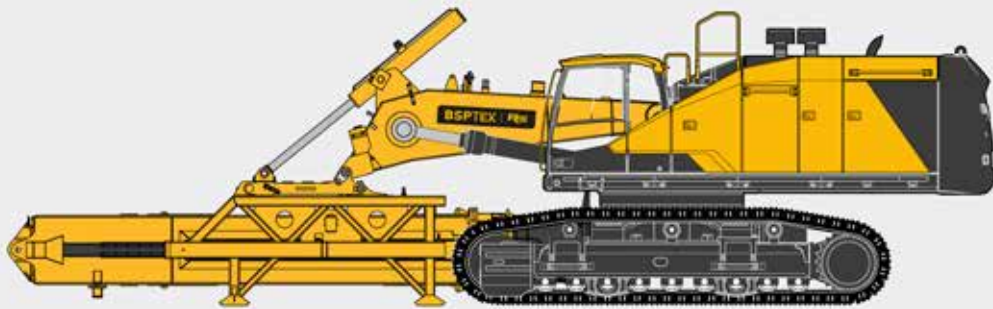
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BSP-TEX offers sound attenuation for its Mk.3 range of Rapid Impact Compactors.



BSP-TEX reserve the right to amend specifications at any time.

RIC Specifications	RIC9000 Mk.2	RIC9000 Mk.3	RIC1200 Mk.2	RIC16000 Mk.2
Dropweight Mass (kg/lbs)	9,000/19,842	9,000/19,842	12,000/26,455	16,000/35,274
Hammer Energy (kN.m/ft.lbs)	110/81,132	110/81,132	180/132,761	240/177,015
Max Equivalent Stroke (m/ft-in)	1.2/3'11"	1.2/3'11"	1.5/4'11"	1.5/4'11"
Operating Pressure (bar)	260/3,770	260/3,770	250/3,626	280/4,061
Hyd. Oil Flow Req. (L/min/USgal/min)	250/66	250/66	350/92	380/100
Optimum Blow Rate	35	35	35	35
Working Height (m/ft-in)	-	-	-	-
Lowered Length (m/ft-in)	-	-	-	-
Noise Supression	No	Yes	No	No
Compatible Excavators (tonne/ton)	45-52/44-51	48-55/47-54	55-70/54-69	75-85/74-84
Typ. Depth of Influence (m/ft-in)	3-5/9'10"-16'5"	3-5/9'10"-16'5"	4-7/13'2"-22'11"	5-8/16'5"-26'3"



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RIC activities can be combined with other soil improvement techniques to provide a cost effective solution for silty/clay conditions. This essentially includes soil mixing and stone columns. To make best use of the base excavator, BSP-TEX offer a mast and drill attachment for the RIC9000 boom, that enable shallow holes to be drilled with either CFA or displacement type tools. Filled with stone, these columns can be subsequently treated by RIC to produce a more effective load bearing foundation.

Above: Accessories for the RIC9000 boom include a MX45-8 mast, drill tools (left) and vibro-flot (right).



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- **Can be fitted to existing range of RIC9000 compactors**
- **Can be tailored for sheet or tube piles**
- **No reduction in performance**
- **Easily removed panels for maintenance**

MX45-8 Mast*

Mast Length (m/ft-in)	10-14/32'10"-45'11"
Max. Tool Length (m/ft-in)	8-12/26'3"-39'4"
Max. Penetration depth (m/ft-in)	7-11/22'11.5"-36'1"

SD70 Gearbox for Anchors & Pre-Drilling*

Torque (N.m/ft.lbs)	35.7-71.5/26-53
Speed (rpm)	50-25
Operating Pressure (bar/psi)	297/4,307
Hyd. Oil Flow req. (L/min/USgal/min)	380/100
Auger Dia. Typ. (mm/ft-in)	300-650/11.8"-2'1.5"

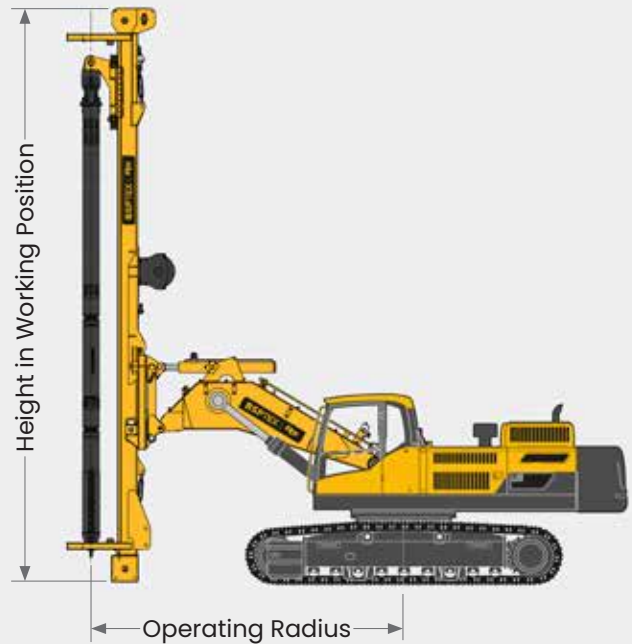
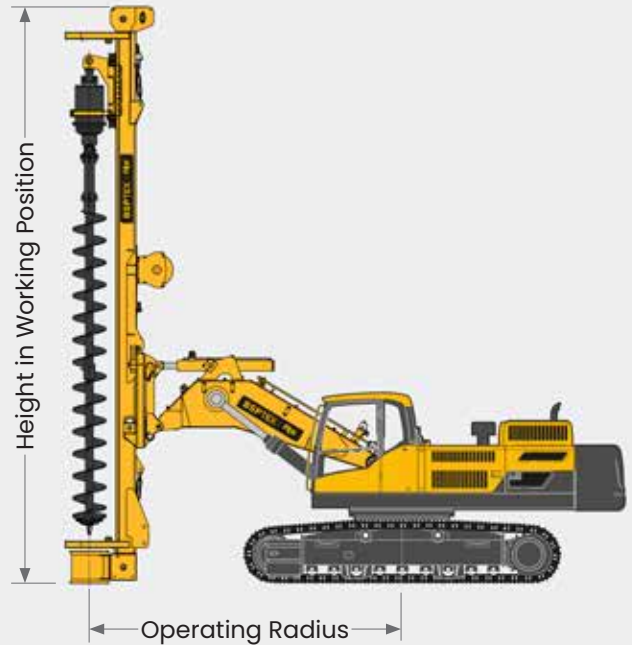
RPH7 Rotary Table for CFA & Pre-Drilling*

Torque (N.m)	19-83/14-61
Speed (rpm)	70-19
Operating Pressure (bar/psi)	320/4,641
Hyd. Oil Flow req. (L/min)	270/71
Auger Dia. Typ. (mm/ft-in)	300-650/1'-2'1.6"

BD300 Vibro-Flot for Top Feed Columns*

Diameter (mm/ft-in)	310/1'0.2"
Centrifugal Force (kN/kips)	175-252/39-57
Frequency (Hz)	30-36
Operating Pressure (bar/psi)	325/4,714
Hyd. Oil Flow req. (L/min/USgal/min)	230/61

*For use on the same boom as RIC9000.



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Control & Monitoring

BSP-TEX supply a range of control and monitoring equipment for their hydraulic hammers, piling rigs and RIC's. From simple hammer controls to GPS monitoring, BSP-TEX deliver a variety of solutions.

The BSP-TEX Hydrocontrol unit is compatible with all BSP-TEX hydraulic hammers and Hydropacks. The Hydrocontrol unit operates the hammer and may be fitted to the Hydropack, used independently, or mounted in a cab. A Stroke Watch is a useful addition to the Hydrocontrol unit and displays the energy and the stroke.



Piling Rigs



Piling Hammers



RIC

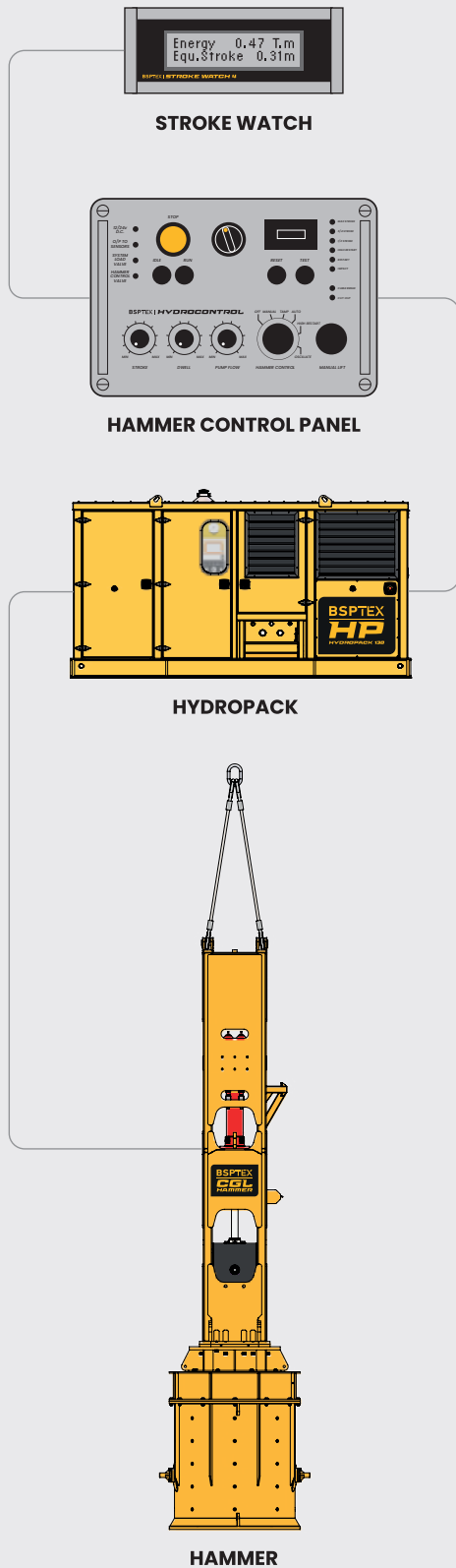


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- **Engine run and stop**
- **Electrical supply on/off switch**
- **Pump flow selection**
- **Hammer stroke and dwell adjustment dials**
- **Automatic/manual operation selector**
- **Digital blow count display**
- **Stroke indicator - LED display**
- **Warning light for incorrect hammer to pile location - with hammer cut-out**

The Dialog monitor is an optional extra for BSP-TEX hydraulic hammers mounted on piling rigs. Using the monitor, the piling process can be observed for quality control and to provide a documentary record of each pile driven. The data is then transferred to a PC via Bluetooth or USB.

The Dialog monitor is also used with BSP-TEX RICs and can be enhanced with a GPS receiver option (see RIC data sheet for more details).

JX Piling Rigs are supplied with a remote control unit (optional extra) and a control unit within the cab (see JX data sheet for more details).

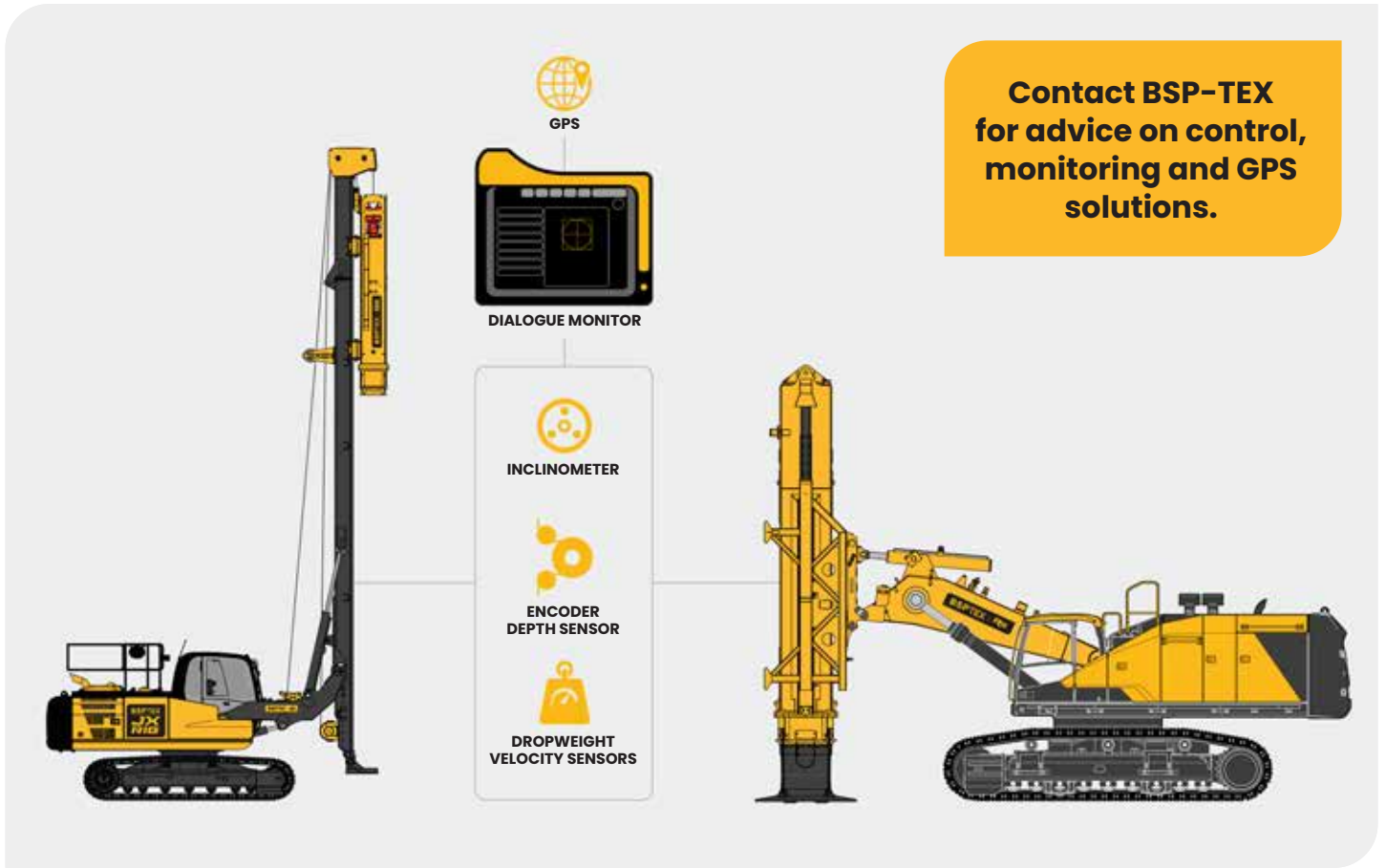


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Above: JX Piling Rig cab control.

Right: The Dialog monitor is compatible with BSP-TEX hydraulic hammers mounted on piling rigs and BSP-TEX RIC's.



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More from BSP-TEX

BSP-TEX road maintenance machinery division encompasses well-known brands such as Barters, Belspray, Bitmen, Bristowes, Springfield and Trojan. BSP-TEX design and manufacture all the machines and equipment in the UK. Customers benefit from the BSP-TEX Quality Guarantee and exceptional customer service.

BSP-TEX subcontracted manufacturing services include light and heavy engineering, medium to high volume fabrication (incorporating sheet metal, punching, plasma cutting, laser cutting, welding, machining operations, painting and powder coating), enclosures, custom trailers, burners and electro-mechanical assemblies.



TEX GROUP

BSP-TEX is part of the TEX GROUP and has manufacturing facilities across six UK sites.

- **QK-TEX** manufactures lightweight honeycomb panels
- **G&M EUROTEX** provides bespoke containerised generators and engine refurbishment
- **TEX PLASTICS** produce injection mouldings
- **TEX ATC** design and manufacture air traffic control rooms
- **CAIGATE-TEX** provides hybrid energy and smart microgrid solutions