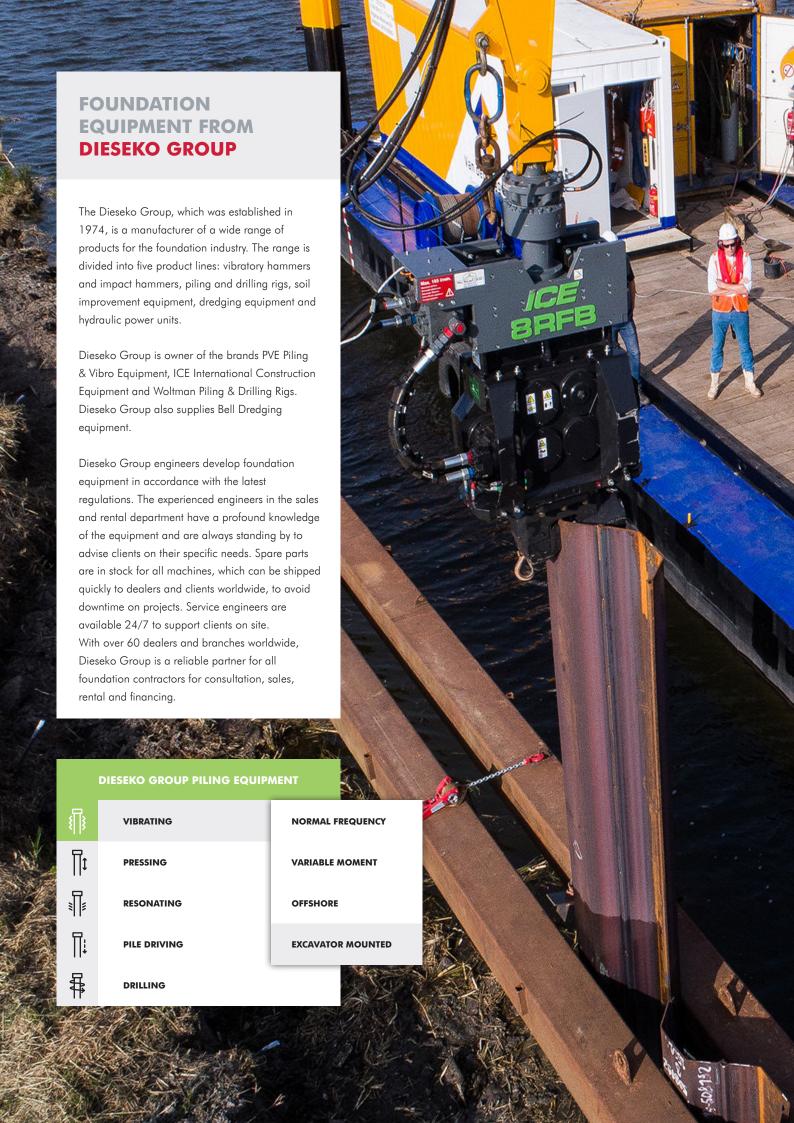


EXCAVATOR MOUNTED PRODUCT RANGE









SELECTING THE RIGHT EXCAVATOR

To determine the correct excavator to use, as a guide, calculate that only 60 to 70 per cent of the installed power in the excavator will be available to drive the vibratory hammer. This percentage can be compared with the required hammer power.

When the maximum oil pressure and maximum oil flow are unknown or not available, please use the following table as a guide to match the excavator mounted vibratory hammer with the correct excavator.*

Weight excavator	Type vibratory hammer
< 20t	ICE 328B, 328SH / 428B, 428SH
20t - 25t	ICE 428B, 428SH
25t - 30t	ICE 428B, 428SH / 625B, 625SH,
	6RFB, 6RFSH
> 30t	ICE 625B, 625SH, 6RFB, 6RFSH /
	823B, 823SH, 8RFB, 8RFSH /
	1223B, 12RFB / 20RFB / 23RFB

^{*} Please consult our expert for specific information

ICE **MULTIPURPOSE USAGE**

MAXIMUM VARIETY, MINIMUM DISTURBANCE

An ICE excavator mounted vibratory hammer is used to drive or extract a variety of steel profiles; sheet piles, 'H' beams, and 'I' beams and with the larger excavator mounted vibrators fitted with double clamps, casings and tubular piles can be driven. Another application is soil compaction work. Our vibrators have a very narrow throat width that allows you to carry out staggered sheet piling, and with a wide range of hammers and clamps we have the solution for all types of steel, wood and concrete piles and soil conditions.

The ICE excavator mounted series causes minimal ground vibrations due to its high rotational speed of approximately 2300 rpm. An additional range of resonance free models allows you to drive steel piles without disturbance on vibration-sensitive projects.

Their extreme flexibility, due to the excavator powering, makes this kind of vibratory hammer our most agile piece of equipment - especially in compact spaces.

EXCAVATOR MOUNTED SERIES

ICE offers a range of four different models:

• B series: standard excavator mounted vibratory hammers RFB series: resonance-free excavator mounted hammers

• SH series: vibratory hammer with swivel head • RF/SH: resonance-free swivel head

Suitable piling profiles



Sheet



Tube



H-beam



I-beam





Square



Round

Suitable cranes







Multi

purpose





Crawler Boom crane crane

PDS rig

Excavator





CHOOSING THE RIGHT MODEL

Choosing the right vibrator for a job depends on soil conditions, the type of pile and the driving depth. The vibratory hammer also has to be matched to the excavator. ICE can supply you with the right attachment for the excavator's boom.

The vibrator is connected to the boom's hydraulic connections by two hoses. A third hose is the drain oil line. The vibratory hammer is simply controlled by the excavator operator with one lever. All excavator mounted hammers in the resonance free series are equipped with an electrical remote control unit.

The ICE swivel head vibratory hammer can be tilted to a 90 degree angle. The operator can grab sheet piles stored on the ground and drive them directly without any other handling operations.

The combination of high frequencies, oil flow and working pressure makes this hammer suitable for mounting on practically any excavator with a sufficient oil flow, at a maximum operating pressure of 350 bar. The hammer can be attached to an excavator using two different types of forks or a head plate. An additional goose neck can increase working height by approximately 2 m for handling and driving longer steel profiles.

CARBON FOOTPRINT

Sustainability is embedded in our R&D, processes and products. Vibration piling is an environmentally friendly foundation technique, as vibrations cause minimal noise and ground disturbance.

ICE equipment is developed and produced in accordance with the latest regulations.

Together we can minimise your carbon footprint.





COMPACT AND POWERFUL VIBRATORY HAMMERS

Mounted on hydraulic excavators for optimised mobility and agility, this high frequency range is ideal for projects in compact spaces and urban areas.

SWIVEL HEAD VIBRATORY HAMMERS

Using the swivel head option enables you to directly lift the piles from a horizontal to a vertical position and immediately start driving.

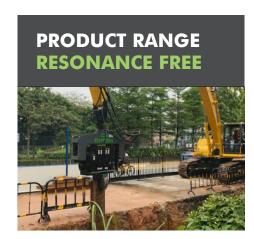
HIGH FREQUENCY VIBRATORY HAMMERS

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		328B	428B	625B	823B	1223B
Eccentric moment	kgm	3.2	4.0	6.0	8.0	11.5
Max. centrifugal force	kN	275	344	411	464	670
Max. frequency	rpm	2800	2800	2500	2300	2300
Max. amplitude *)	mm	11.1	12.3	18.2	23.2	16.4
Max. static line pull	kN	120	120	120	120	180
Max. pull-down	kN	100	100	100	100	120
Max. oil flow **)	L/min	112	168	201	185	326
Max .operating pressure	bar	350	350	350	350	350
Dynamic weight *)	kg	575	650	660	690	1400
Total weight *)	kg	1090	1280	1290	1310	2380
L x W x H *)	mm	1128 x 520 x 953	1128 x 646 x 993	1128 x 646 x 993	1128 x 646 x 993	1540 x 435 x 1170
Recommended sheet pile clamp		40TU	60TU	60TU	60TU	100TU
Recommended tube clamp set		-	-	-	-	55TC
Recommended pile clamp		60TP	60TP	60TP	60TP	120TP

HIGH FREQUENCY VIBRATORY HAMMERS WITH SWIVEL HEAD

		328SH	428SH	625SH	823SH
Eccentric moment	kgm	3.2	4.0	6.0	8.0
Max. centrifugal force	kN	275	345	411	465
Max. frequency	rpm	2800	2800	2500	2300
Max. amplitude *)	mm	11.1	12.3	18.2	23.2
Max. static line pull	kN	120	120	120	120
Max. pull-down	kN	100	100	100	100
Max. oil flow **)	L/min	110	170	201	185
Max. operating pressure	bar	350	350	350	350
Dynamic weight *)	kg	575	650	660	690
Total weight *)	kg	1445	1460	1290	1490
L x W x H *)	mm	1640 x 572 x 1210	1640 x 582 x 1196	1640 x 582 x 1196	1640 x 582 x 1196
Recommended sheet pile clamp		40TU	60TU	60TU	60TU
Recommended tube clamp set		-	-	-	-
Recommended pile clamp		60TP	60TP	60TP	60TP

^{*)} excluding clamp
**) Max. oil flow will differ in case of a manifold with sequence function. Contact Dieseko Group for more information.



START AND STOP WITHOUT VIBRATIONS

This range is perfectly suited to drive piles in vibration-sensitive areas or locations with limited space.

RESONANCE FREE HIGH FREQUENCY VIBRATORY HAMMERS

		6RFB	8RFB	12RFB	20RFB	23RFB	
Eccentric moment	kgm	0 - 6.5	0 - 7.5	0 - 12.0	0 - 19.0	0 - 23	
Max. centrifugal force	kN	0 - 377	0 - 435	0 - 700	0 - 1100	0 - 1350	
Max. frequency	rpm	2300	2300	2300	2300	2300	
Max. amplitude *)	mm	0 - 13.5	0 - 15.2	0 - 16.6	0 - 14.2	0 - 19.0	
Max. static line pull	kN	120	120	200	300	300	
Max. pull-down	kN	100	100	100	120	120	
Max. oil flow **)	L/min	138	185	261	499	561	
Max .operating pressure	bar	350	350	350	350	350	
Dynamic weight *)	kg	960	985	1450	2675	2350	
Total weight *)	kg	1490	1515	2225	3810	4670	
L x W x H *)	mm	1158 x 595 x 1214	1158 x 595 x 1214	1519 x 674 x 1597	1560 x 722 x 1530	1560 x 790 x 1810	
Recommended sheet pile clamp		60TU	60TU	100TU	130TU	160TU	
Recommended tube clamp set		-	-	55TC	80TC	80TC	
Recommended pile clamp		60TP	60TP	120TP	120TP	120TP	

RESONANCE FREE HIGH FREQUENCY VIBRATORY HAMMERS WITH SWIVEL HEAD

		6RFSH	8RFSH
Eccentric moment	kgm	0 - 6.5	0 - 7.5
Max. centrifugal force	kN	0 - 377	0 - 435
Max. frequency	rpm	2300	2300
Max. amplitude *)	mm	0 - 13.3	0 - 14.9
Max. static line pull	kN	120	120
Max. pull-down	kN	100	100
Max. oil flow **)	L/min	138	185
Max .operating pressure	bar	350	350
Dynamic weight *)	kg	975	1005
Total weight *)	kg	1900	1930
L x W x H *)	mm	1750 x 848 x 1177	1750 x 848 x 1177
Recommended sheet pile clamp		60TU	60TU
Recommended tube clamp set		-	-
Recommended pile clamp		60TP	60TP

^{*)} excluding clamp
**) Max. oil flow will differ in case of a manifold with sequence function. Contact Dieseko Group for more information.

PRODUCT RANGE HYDRAULIC CLAMPS



CLAMPS & TOOLS

There are a variety of clamps and other tools that can be connected to the excavator mounted vibratory hammer. ICE has developed a wide range of clamping systems and beams for driving sheet piles, tubular piles of varying dimensions, concrete piles and even wooden and plastic piles.

• TU series: sheets pile clamps for single or double sheets and H-beams

• TC series: tube clamps for tubes or multiple sheets

• TP series: pile clamps for concrete, wooden and steel tubes or piles

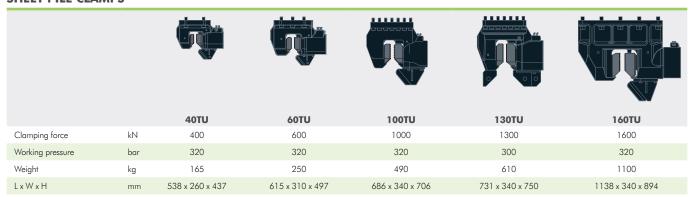
• CP series: concrete sheet pile clamps on request

• Goose neck: to drive longer piles

• Mounting bracket: connection between excavator and hammer, can be turned through 360°

• Hydraulic rotator: to rotate the hammer up to 360°

SHEET PILE CLAMPS



TUBE CLAMP SETS





PILE CLAMPS











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