

ICE

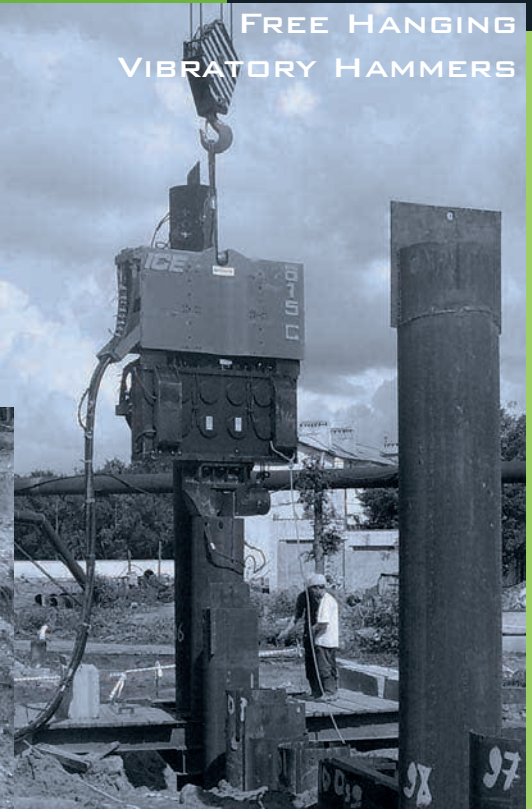
INTERNATIONAL CONSTRUCTION EQUIPMENT

VIBRATORY HAMMER PRODUCT RANGE

FREE HANGING
VIBRATORY HAMMERS



EXCAVATOR MOUNTED
VIBRATORY HAMMERS



GÁNDARA

SU EQUIPO EN CIMENTACIÓN

VIBRATORY HAMMERS EXCAVATOR MOUNTED WITH SWIVEL HEAD

	230SH	328SH	428SH	528SH
Eccentric moment	2.2	3.2	4.0	5.6
Max. frequency	3000	2800	2800	2800
Max. centrifugal force	220	275	345	481
Max. line pull capacity	100	100	120	120
Max. hydr. power	53/72	65/88	98/133	98/133
Max. oil flow	90	110	170	170
Total weight	1270	1280	1460	1460
Max. amplitude	5.9	8.6	8.9	11.1
L x W x H	1838 x 642 x 1405	1838 x 642 x 1405	1600 x 848 x 1604	1600 x 848 x 1604
Recommended clamp	40TU	40TU	60TU	60TU

A quick indication of which hammer can be used on which excavator, can be realized by using the following rules of the thumb.

1 Flow excavator
The flow of the excavator has to be at least 1.4 times the required flow of the vibratory hammer.

2 Power excavator
The required power of the excavator has to be at least 1.5 times the power of the vibratory hammer

Amplitude during vibration of hammer and sheetpile:

$$\text{Amplitude} = \frac{2000 \times \text{Eccentric moment}}{\text{Dynamic weight incl. clamp} + \text{weight sheetpile}}$$

Example:
ICE 416L vibratory hammer + sheetpile (2000 kg)

$$\text{Amplitude} = \frac{2000 \times 23}{2840 + 2000} = 9.5 \text{ mm}$$

Centrifugal force in case of a different frequency

$$\text{Centrifugal force} = 0.011 \times (\text{frequency})^2 \times \text{Eccentric moment}$$

Example:
ICE 416L vibratory hammer working with a frequency of 1400 rpm (in stead of 1600 rpm)

$$\text{Centrifugal force} = 0.011 \times 1400^2 \times 23 = 495880 \text{ N} = 496 \text{ KN}$$

	625SH	823SH
Eccentric moment	6.0	8.0
Max. frequency	2500	2300
Max. centrifugal force	410	465
Max. line pull capacity	120	120
Max. hydr. power	117/159	108/147
Max. oil flow	200	185
Total weight	1480	1490
Max. amplitude	12.9	17.2
L x W x H	1600 x 848 x 1604	1600 x 848 x 1604
Recommended clamp	60TU	60TU



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