

Ambient factors, support when selecting equipment, working principle. Capacity that can be calculated.

Choosing the right machine is crucial for the economic and technical success of vibration work. We offer our customers individual advice to enable them to select suitable equipment, taking into account all the relevant factors – such as the building site and the geological and technical requirements.

Ambient factors

The type of vibrator that will be suitable specifically depends on the size and the weight of the foundation elements to be introduced, the introduction depth and the soil condition. In principle, the centrifugal force and the amplitude must be chosen such that the shaft friction and the toe resistance between the foundation element and the surrounding soil can be overcome.

Support when selecting equipment

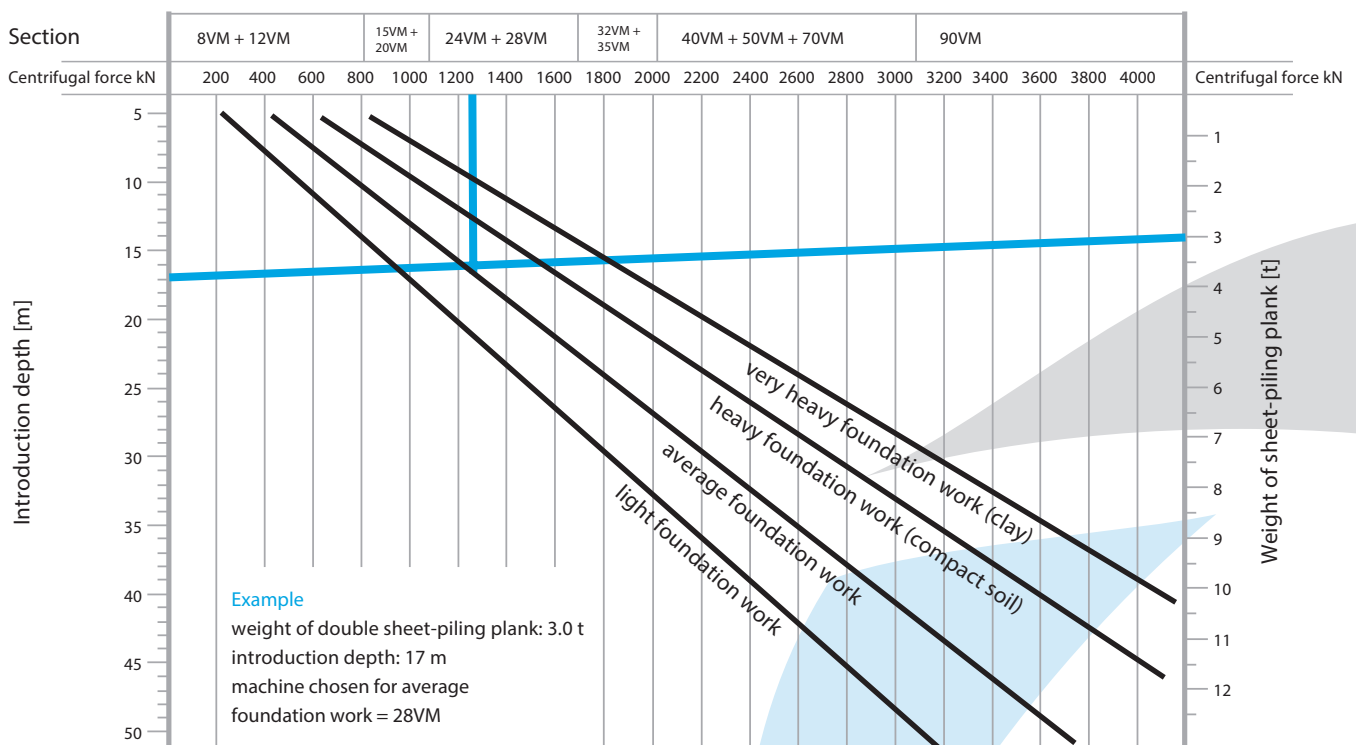
The nomogram below will help you select the right equipment or the required centrifugal force – depending on the soil properties and the weight and introduction depth of the foundation elements.

Additional equipment such as rinsing lances or pre-boring rigs can be used in order to achieve considerably better results with the same dimensions or centrifugal force.

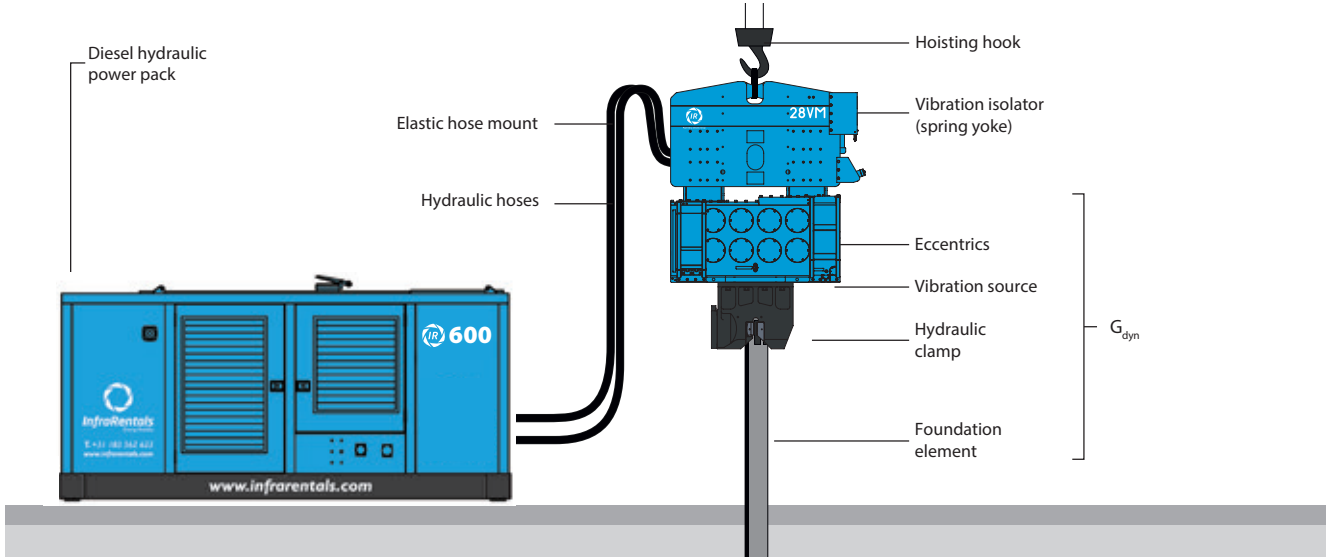
The power delivered by the power pack must be sufficient to achieve the required momentum and, as a result, the required centrifugal force in difficult soil. The drive power must be 2-3 kW per 10 kN of centrifugal force.

Please feel free to contact one of our expert advisers for personal advice when selecting the equipment, based on soil conditions and foundation elements. They will use simulation software to determine the optimum machine for your project.

Support when selecting equipment



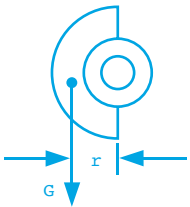
Operating principle of InfraRentals vibrators (standard version)



Important formulas in vibration technology

Static moment M [kgm]

$$M = G \cdot r$$



The static moment (eccentric moment) determines the extent of the imbalance. As the determining factor for the amplitude, this is a crucial value in foundation work.

Speed (vibration frequency) n [min⁻¹]

Number of revolutions (vibrations) per minute. The speed determines the vibration frequency at which the system is moved to and fro. The foundation element transfers the vibrations to the surrounding soil. This significantly decreases the shaft friction between the foundation element and the soil. High frequencies prevent unintentional propagation of vibrations through the soil.

Centrifugal force

$$F = M \cdot \omega^2$$

$$F = [N] \quad F = M \left(\pi \cdot \frac{n}{30} \right)^2$$

The centrifugal force must be sufficient to overcome the static friction between the foundation element and the soil (separation effect). The centrifugal force greatly influences the decrease in shaft friction and is also important as an impact force in order to overcome the toe resistance.

Amplitude S [m]

$$S = 2s = \frac{2 \cdot M_{stat} \text{ [kgm]}}{\sum G_{dyn} \text{ [kg]}}$$

Together with the centrifugal force, the amplitude is a measure for the introduction power. A high gear ratio and high impact force provide the proper vibration drive. Carrying out vibration and pulling activities in compact soil requires a strong amplitude in order to overcome the friction between the foundation element and the soil.

Acceleration a [m/sec²]

$$a = s \cdot \omega^2 \quad \omega = \pi \cdot \frac{n}{30}$$

The acceleration of the foundation element being transmitted to the surrounding soil causes the soil particles to be displaced; the friction between soil particles is reduced as is the soil resistance. The ratio of the acceleration to the drop speed increase is expressed as a key value:

$$\eta = \frac{a}{g} \quad \text{This figure matches} \quad \eta = \frac{F \cdot 10^{-1}}{G_{dyn}}$$

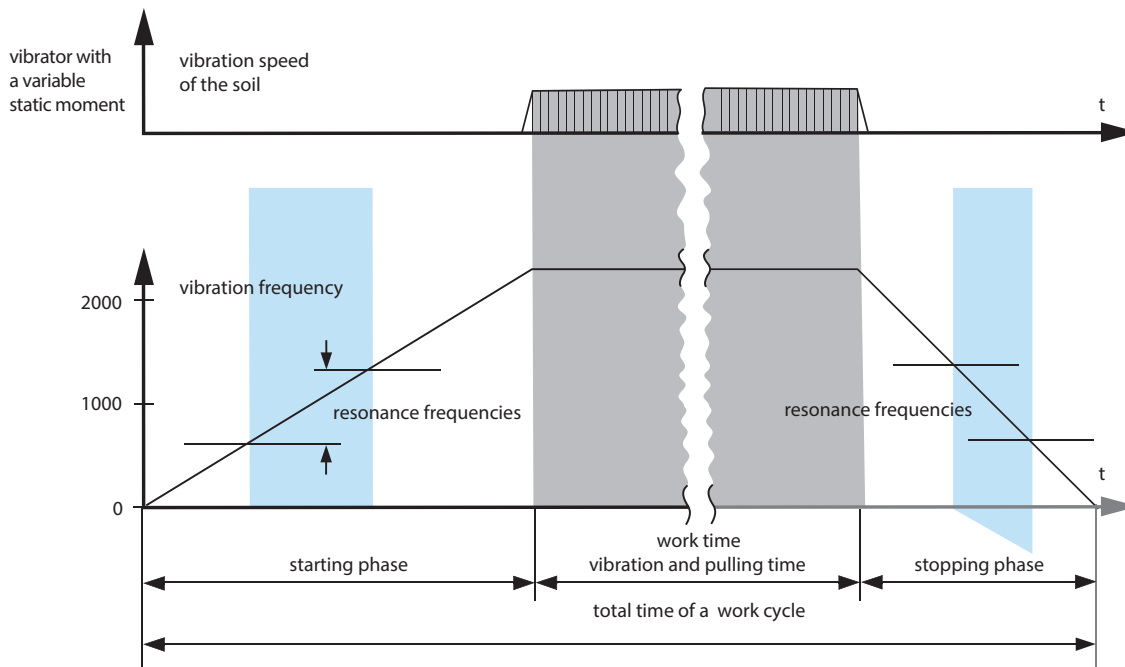
Vibratory hammers and Power packs

The right choice for every application. Normal-frequency or high-frequency InfraRentals vibrators.

The eccentrics of the high-frequency series can be adjusted while working. This series is used wherever there are major restrictions as regards the propagation of vibrations in the soil, such as when

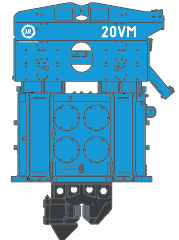
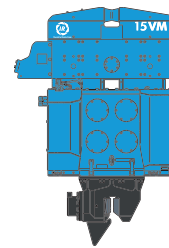
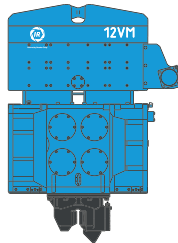
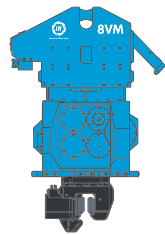
working near existing buildings or in town centres. This equipment avoids resonances when starting and stopping and it enables an optimum amplitude, matching the soil characteristics, to be set.

Principle of resonance-free starting and stopping



Variable moment vibratory hammers

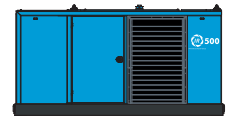
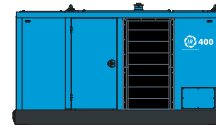
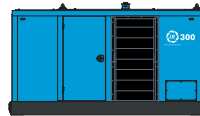
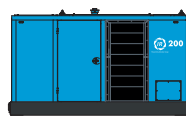
InfraRentals supported by Dieseko Group



	8VM	12VM	15VM	20VM
Eccentric moment (kgm)	0 - 7.5	0 - 12	0 - 15	0 - 19
Max. centrifugal force (kN)	0 - 435	0 - 700	0 - 870	0 - 1100
Max. frequency (rpm)	2300	2300	2300	2300
Max. amplitude (mm)	0 - 15.2	0 - 17	0 - 13	0 - 15
Max. static line pull (kN)	120	250	270	240
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	185	261	370	498
Dynamic weight (kg) (without clamp)	985	1450	2330	2550
Total weight (kg) (without clamp)	1515	2396	3100	3650
L x W x H (mm)	1426 x 595 x 1514	1557 x 675 x 1595	1642 x 695 x 1718	1882 x 637 x 2008
Pile clamp*	60TP	120TP	120TP	120TP
Sheet pile clamp*	60TU	85TU	110TU	150TUL
Tube clamp set*	-	55TC	80TC	80TC
Power pack*	IR 200 PP	IR 300 PP	IR 400 PP	IR 500 PP

Power packs

200 PP 300 PP 400 PP 500 PP



	200 PP	300 PP	400 PP	500 PP
Diesel engine	Volvo TAD 582 VE	Volvo TAD 882 VE	Volvo TAD 884 VE	Volvo TAD 1384 VE
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/PS)	160/218	210/286	250/340	375/510
Max. frequency (rpm)	2300	2200	2200	1900
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	211	324	396	520
Weight filled up (kg)	4250	4700	5150	7600
L x W x H (mm)	3375 x 1550 x 1970	3672 x 1600 x 2055	3670 x 1600 x 2070	4330 x 1750 x 2290

*Manufacturer's recommendation.

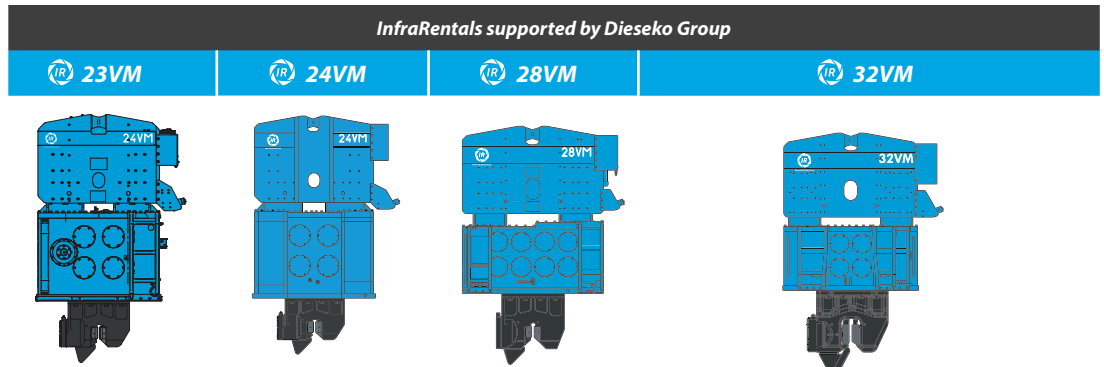
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Vibratory hammers with variable static moment and matching Power packs

Sharing flexibility

Variable moment vibratory hammers

InfraRentals supported by Dieseko Group



	IR 23VM	IR 24VM	IR 28VM	IR 32VM
Eccentric moment (kgm)	0 - 23	0 - 24	0 - 28	0 - 32
Max. centrifugal force (kN)	0 - 1350	0 - 1400	0 - 1600	0 - 1856
Max. frequency (rpm)	2300	2300	2300	2300
Max. amplitude (mm)	0 - 17	0 - 14	0 - 14	0 - 15
Max. static line pull (kN)	400	400	400	500
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	661	570	590	740
Dynamic weight (kg) (without clamp)	2700	3500	3500	4300
Total weight (kg) (without clamp)	4500	6020	5920	6800
L x W x H (mm)	1662 x 785 x 2200	1986 x 750 x 2443	2336 x 805 x 2427	2337 x 828 x 2347
Pile clamp*	180TP	180TP	180TP	180TP
Sheet pile clamp*	200TU	200TUP	200TUP	350TU
Tube clamp set*	80TC	100TC	100TC	125TC
Power pack*	IR 600 PP	IR 600 PP	IR 600 PP	IR 800 PP

Power packs



	IR 600 PP	IR 800 PP	IR 800 PP
Diesel engine	Volvo TAD 1385 VE	Volvo TWD 1683 VE	Caterpillar C18
Emission standard	Stage V	Stage V	Stage V
Max. power (kW/PS)	405/551	585/796	563/755
Max. frequency (rpm)	1900	1900	1800
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	661	810	810
Weight filled up (kg)	7600	9600	8700
L x W x H (mm)	4330 x 1750 x 2290	5062 x 1900 x 2330	4750 x 1900 x 2420

*Manufacturer's recommendation.

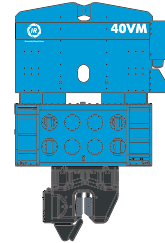
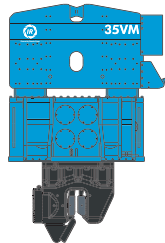
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Variable moment vibratory hammers

InfraRentals supported by Dieseko Group

IR 35VM

IR 40VM



Eccentric moment (kgm)	0 - 35	0 - 40
Max. centrifugal force (kN)	0 - 2030	0 - 1755
Max. frequency (rpm)	2300	2000
Max. amplitude (mm)	0 - 16	0 - 19
Max. static line pull (kN)	500	400
Working pressure (bar)	350	350
Max. oil flow (l/min)	1012	800
Dynamic weight (kg) (without clamp)	4400	4300
Total weight (kg) (without clamp)	6850	6760
L x W x H (mm)	2337 x 828 x 2347	2622 x 710 x 2690
Pile clamp*	180TP	180TP
Sheet pile clamp*	350TU	350TU
Tube clamp set*	150TC	125TC
Power pack*	IR 1000 PP	IR 800 PP

Power packs

IR 1000 PP

IR 800 PP



	Volvo TAD 1384 VE (2x)	Caterpillar C27	Volvo TWD 1683 VE	Caterpillar C18
Diesel engine	Volvo TAD 1384 VE (2x)	Caterpillar C27	Volvo TWD 1683 VE	Caterpillar C18
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/HP)	750/1020	709/950	585/796	563/755
Max. frequency (rpm)	1900	1800	1900	1800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1051	1100	810	810
Weight filled up (kg)	14000	12700	9600	8700
L x W x H (mm)	5372 x 2480 x 2406	5075 x 2300 x 2415	5062 x 1900 x 2330	4750 x 1900 x 2420

*Manufacturer's recommendation.

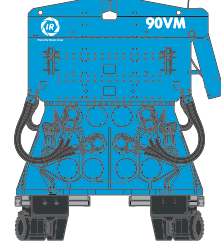
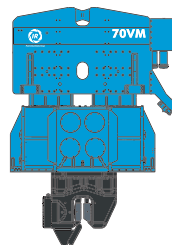
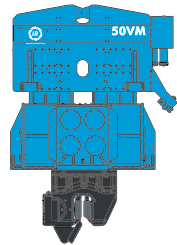
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Vibratory hammers with variable static moment and matching Power packs

Sharing flexibility

Variable moment vibratory hammers

InfraRentals supported by Dieseko Group



	50VM	70VM	90VM
Eccentric moment (kgm)	0 - 50	0 - 70	0 - 90
Max. centrifugal force (kN)	0 - 2900	0 - 3070	0 - 4477
Max. frequency (rpm)	2300	2000	2130
Max. amplitude (mm)	0 - 15	0 - 21	0 - 13,3
Max. static line pull (kN)	800	800	1500
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	1380	1580	2062
Dynamic weight (kg) (without clamp)	6600	6800	13500
Total weight (kg) (without clamp)	10060	10260	18500
L x W x H (mm)	2913 x 991 x 2835	2913 x 991 x 2835	3455 x 1600 x 3300
Pile clamp*	-	-	-
Sheet pile clamp*	350TU	350TU	-
Tube clamp set*	175TC	200TC	150TC
Power pack*	IR 1600 PP	IR 1600 PP	IR 1000 PP (2x)

Power packs

IR 1600 PP IR 1000 PP



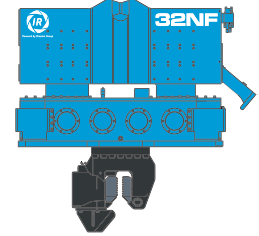
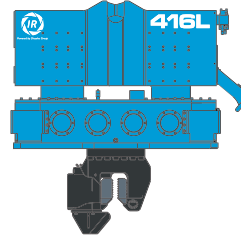
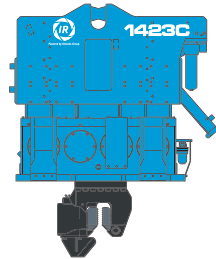
	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)	Volvo TAD 1384 VE (2x)	Caterpillar C27
Diesel engine	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)	Volvo TAD 1384 VE (2x)	Caterpillar C27
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/HP)	1170/1592	1126/1510	750/1020	709/950
Max. frequency (rpm)	1900	1800	1900	1800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1710	1620	1051	1100
Weight filled up (kg)	18000	18000	14000	12700
L x W x H (mm)	5875 x 2900 x 2510	5875 x 2900 x 2510	5372 x 2480 x 2406	5075 x 2300 x 2415

*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Hamburg (DE) • Großwallstadt (DE)

Normal frequency vibratory hammers

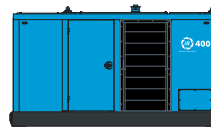
InfraRentals supported by Dieseko Group



	IR 1423C	IR 416L	IR 32NF
Eccentric moment (kgm)	14	23	32
Max. centrifugal force (kN)	812	647	955
Max. frequency (rpm)	2300	1600	1650
Max. amplitude (mm)	16.5	19.6	27.2
Max. static line pull (kN)	240	400	400
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	370	359	370
Dynamic weight (kg) (without clamp)	1700	2350	2350
Total weight (kg) (without clamp)	2750	3550	4600
L x W x H (mm)	1890 x 766 x 1635	2548 x 486 x 1568	2548 x 566 x 1568
Pile clamp*	120TP	120TP	120TP
Sheet pile clamp*	100TU	100TU	130TU
Tube clamp set*	55TC	81TC	81TC
Power pack*	IR 400 PP	IR 400 PP	IR 400 PP

Power packs

IR 400 PP



Diesel engine	Volvo TAD 884 VE
Emission standard	Stage V
Max. power (kW/HP)	250/340
Max. frequency (rpm)	2200
Working pressure (bar)	350
Max. oil flow (l/min)	396
Weight filled up (kg)	5150
L x W x H (mm)	3670 x 1600 x 2070

*Manufacturer's recommendation.

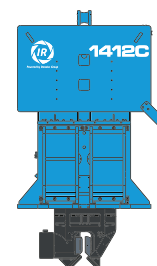
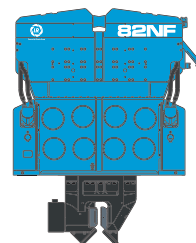
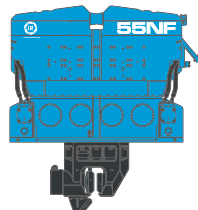
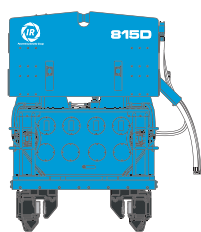
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Vibratory hammers with fixed static moment and matching Power packs

Sharing flexibility

Normal frequency vibratory hammers

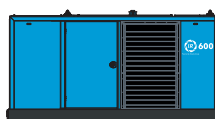
InfraRentals supported by Dieseko Group



	IR 815D	IR 55NF	IR 82NF	IR 1412C
Eccentric moment (kgm)	45	54	81	110
Max. centrifugal force (kN)	1250	1711	2567	2300
Max. frequency (rpm)	1600	1700	1700	1380
Max. amplitude (mm)	23.7	30.1	30.0	34.9
Max. static line pull (kN)	400	800	800	800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	621	617	888	830
Dynamic weight (kg) (without clamp)	3800	3580	5400	6400
Total weight (kg) (without clamp)	5700	5700	7900	10750
L x W x H (mm)	2651 x 876 x 2580	2642 x 678 x 1939	2662 x 721 x 2427	2819 x 1108 x 3592
Pile clamp*	180TP	180TP	-	-
Sheet pile clamp*	160TU	200TU	320TU	320TU
Tube clamp set*	81TC	100TC	200TC	200TC (2X)
Power pack*	IR 600 PP	IR 600 PP	IR 900 PP	IR 900 PP

Power packs

IR 600 PP IR 900 PP



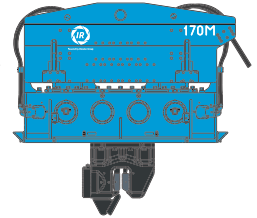
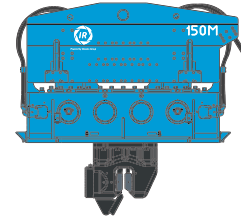
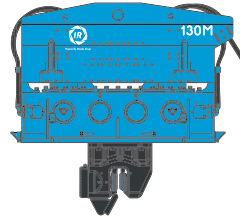
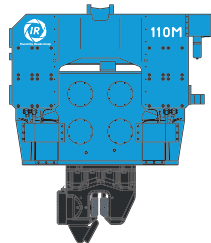
	Volvo TAD 1385 VE	Volvo TWD 1683 VE	Caterpillar C18
Diesel engine	Volvo TAD 1385 VE	Volvo TWD 1683 VE	Caterpillar C18
Emission standard	Stage V	Stage V	Stage V
Max. power (kW/HP)	405/551	585/796	563/755
Max. frequency (rpm)	1900	1900	1800
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	644	872	972
Weight filled up (kg)	7600	9600	10250
L x W x H (mm)	4330 x 1750 x 2290	5062 x 1900 x 2330	5320 x 1950 x 2420

*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Hamburg (DE) • Großwallstadt (DE)

Normal frequency vibratory hammers

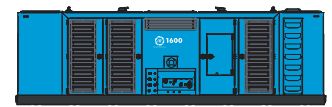
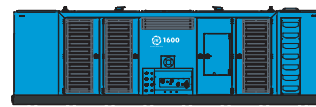
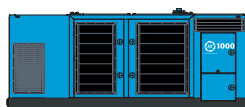
InfraRentals supported by Dieseko Group



	IR 110M	IR 130M	IR 150M	IR 170M
Eccentric moment (kgm)	110	130	150	170
Max. centrifugal force (kN)	2198	2794	3224	3654
Max. frequency (rpm)	1350	1400	1400	1400
Max. amplitude (mm)	31	25	26,3	29,7
Max. static line pull (kN)	800	1260	1260	1260
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	956	1293	1293	1293
Dynamic weight (kg) (without clamp)	7000	10420	11400	11455
Total weight (kg) (without clamp)	12000	16900	17780	17850
L x W x H (mm)	3240 x 1105 x 2560	3862 x 1217 x 2425	3862 x 1217 x 2425	3862 x 1217 x 2425
Tube clamp set*	150TC	175TC	200TC	350TC
Sheet pile clamp*	350TU	350TU	-	-
Power pack*	IR 1000 PP	IR 1600 PP	IR 1600 PP	IR 1600 PP

Power packs

IR 1000 PP IR 1600 PP



	Volvo TAD 1384 VE (2x)	Caterpillar C27	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)
Diesel engine	Volvo TAD 1384 VE (2x)	Caterpillar C27	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)
Emission standard	Stage V	Stage V	Stage V	Stage V
Max. power (kW/HP)	750/1020	709/950	1170/1592	1126/1510
Max. frequency (rpm)	1900	1800	1900	1800
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1051	1100	1620	1620
Weight filled up (kg)	14000	12700	18000	18000
L x W x H (mm)	5372 x 2480 x 2406	5075 x 2300 x 2415	8075 x 2200 x 2540	8075 x 2200 x 2540

*Manufacturer's recommendation.

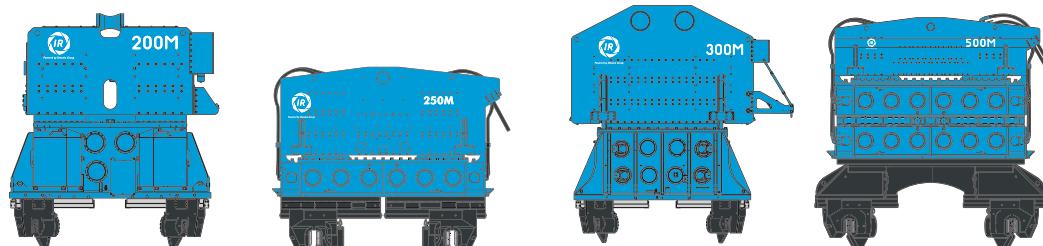
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Vibratory hammers with fixed static moment and matching Power packs

Sharing flexibility

Normal frequency vibratory hammers

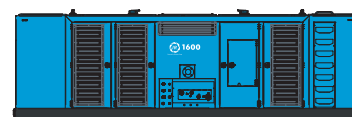
InfraRentals supported by Dieseko Group



	200M	250M	300M	500M
Eccentric moment (kgm)	200	250	300	500
Max. centrifugal force (kN)	4300	5374	6150	10748
Max. frequency (rpm)	1400	1400	1400	1400
Max. amplitude (mm)	19	24,6	21	29
Max. static line pull (kN)	1800	3640	4000	2270
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	1680	1600	2800	3200
Dynamic weight (kg) (without clamp)	21000	20330	27250	34500
Total weight (kg) (without clamp)	29000	26500	47000	49500
L x W x H (mm)	3860 x 1600 x 3295	5165 x 1270 x 3020	5035 x 1800 x 4395	4969 x 1270 x 3490
Tube clamp set*	150TC	350TC	210TC	350TC
Sheet pile clamp*	-	-	-	-
Power pack*	IR 1600 PP	IR 1600 PP	IR 1600 PP (2x)	IR 1600 PP (2x)

Power packs

IR 1600 PP

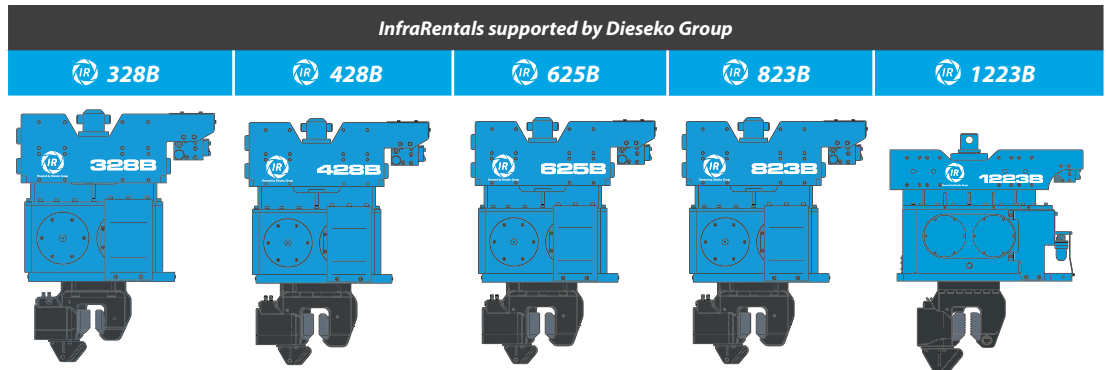


	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)
Diesel engine	Volvo TWD 1683 VE (2x)	Caterpillar C18 (2x)
Emission standard	Stage V	Stage V
Max. power (kW/HP)	1170/1592	1126/1510
Max. frequency (rpm)	1900	1800
Working pressure (bar)	350	350
Max. oil flow (l/min)	1620	1620
Weight filled up (kg)	18000	18000
L x W x H (mm)	8075 x 2200 x 2540	8075 x 2200 x 2540

*Manufacturer's recommendation.

Stock locations: • Dronten (NL) • Sliedrecht (NL) • Hohenwart (DE) • Hamburg (DE) • Großwallstadt (DE)

High frequency vibratory hammers



	IR 328B	IR 428B	IR 625B	IR 823B	IR 1223B
<i>Eccentric moment (kgm)</i>	3.2	4.0	6.0	8.0	11.5
<i>Max. centrifugal force (kN)</i>	275	344	411	464	670
<i>Max. frequency (rpm)</i>	2800	2800	2500	2300	2300
<i>Max. amplitude (mm)</i>	11.1	12.3	18.2	23.2	16.4
<i>Max. static line pull (kN)</i>	120	120	120	120	180
<i>Working pressure (bar)</i>	350	350	350	350	350
<i>Max. oil flow (l/min)</i>	112	168	201	185	326
<i>Dynamic weight (kg) (without clamp)</i>	575	650	660	690	1400
<i>Total weight (kg) (without clamp)</i>	1090	1280	1290	1310	2380
<i>L x W x H (mm)</i>	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
<i>Sheet pile clamp*</i>	40TU	60TU	60TU	60TU	100TU
<i>Tube clamp set*</i>	-	-	-	-	55TC
<i>Pile clamp*</i>	60TP	60TP	60TP	60TP	120TP

*Manufacturer's recommendation.

Stock locations:

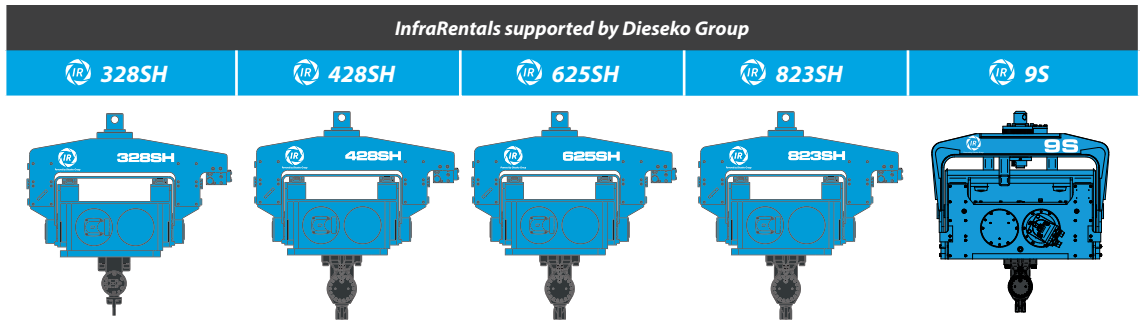
- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Hamburg (DE)
- Großwallstadt (DE)



Excavator-mounted vibrator

High frequency vibratory hammers with swivel head

InfraRentals supported by Dieseko Group



	328SH	428SH	625SH	823SH	9S
Eccentric moment (kgm)	3.2	4.0	6.0	8.0	8.9
Max. centrifugal force (kN)	275	345	411	465	522
Max. frequency (rpm)	2800	2800	2500	2300	2300
Max. amplitude (mm)	11.1	12.3	18.2	23.2	20.4
Max. static line pull (kN)	120	120	120	120	190
Working pressure (bar)	350	350	350	350	350
Max. oil flow (l/min)	110	170	201	185	253
Dynamic weight (kg) (without clamp)	575	650	660	690	890
Total weight (kg) (without clamp)	1445	1460	1290	1490	1920
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	1670 x 710 x 1997
Sheet pile clamp*	40TU	60TU	60TU	60TU	60TU
Tube clamp set*	-	-	-	-	-
Pile clamp*	60TP	60TP	60TP	60TP	-

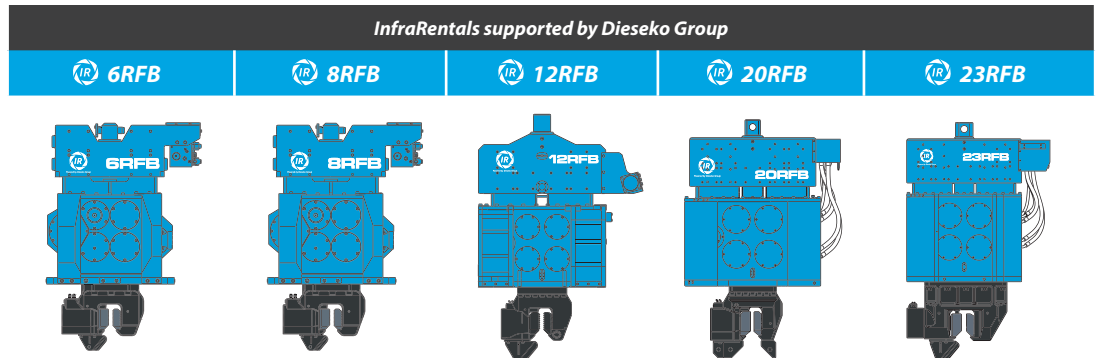
*Manufacturer's recommendation.



Stock locations:

- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Hamburg (DE)
- Großwallstadt (DE)

Resonance free high frequency vibratory hammers

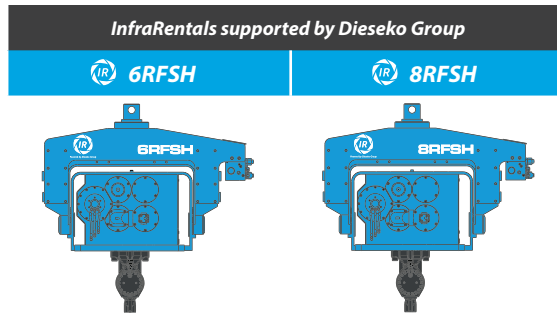


	6RFB	8RFB	12RFB	20RFB	23RFB
<i>Eccentric moment (kgm)</i>	0 - 6.5	0 - 7.5	0 - 12.0	0 - 19.0	0 - 23
<i>Max. centrifugal force (kN)</i>	0 - 377	0 - 435	0 - 700	0 - 1100	0 - 1350
<i>Max. frequency (rpm)</i>	2300	2300	2300	2300	2300
<i>Max. amplitude (mm)</i>	0 - 13.5	0 - 15.2	0 - 16.6	0 - 14.2	0 - 19.0
<i>Max. static line pull (kN)</i>	120	120	200	300	300
<i>Working pressure (bar)</i>	350	350	350	350	350
<i>Max. oil flow (l/min)</i>	138	185	261	499	561
<i>Dynamic weight (kg) (without clamp)</i>	960	985	1450	2675	2350
<i>Total weight (kg) (without clamp)</i>	1490	1515	2225	3810	4670
<i>L x W x H (mm)</i>	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
<i>Sheet pile clamp*</i>	60TU	60TU	100TU	130TU	160TU
<i>Tube clamp set*</i>	-	-	55TC	80TC	80TC
<i>Pile clamp*</i>	60TP	60TP	120TP	120TP	120TP

*Manufacturer's recommendation.

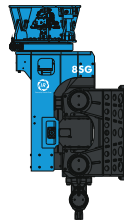
Excavator-mounted vibrator

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
Working pressure (bar)	350	350
Max. oil flow (l/min)	138	185
Dynamic weight (kg) (without clamp)	975	1005
Total weight (kg) (without clamp)	1900	1930
L x W x H (mm)	1750 x 848 x 1177	1750 x 848 x 1177
Sheet pile clamp*	60TU	60TU
Tube clamp set*	-	-
Pile clamp*	60TP	60TP

Side gripper excavator mounted vibratory hammers high frequency

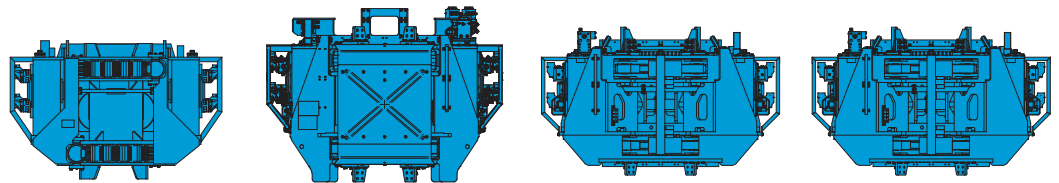


	8SG
Eccentric moment (kgm)	8
Max. centrifugal force (kN)	464
Max. frequency (rpm)	2300
Max. amplitude (mm)	7
Max. static line pull (kN)	120
Working pressure (bar)	350
Max. oil flow (l/min)	214
Dynamic weight (kg) (without clamp)	2300
Total weight (kg) (without clamp)	3300
L x W x H (mm)	1663 x 1416 x 2384
Sheet pile clamp*	60TU

*Manufacturer's recommendation.

Ring vibratory hammers with variable moment

InfraRentals supported by Dieseko Group



	20VMR	24VMR	32VMR	38VMR
Eccentric moment (kgm)	0 - 20	0 - 24	0 - 32	0 - 38
Max. centrifugal force (kN)	0 - 1160	0 - 1400	0 - 1800	0 - 2200
Max. frequency (rpm)	2300	2300	2300	2300
Max. amplitude (mm)	0 - 6	0 - 6	0 - 5	0 - 6
Max. static line pull (kN)	300	300	400	400
Working pressure (bar)	350	350	350	350
Max. oil flow (l/min)	550	552	860	960
Min. tube diameter (mm)	406	406	406	406
Max. tube diameter (mm)	508	610	610	610
Dynamic weight (kg) (without clamp)	6500	8080	12000	12400
Total weight (kg) (without clamp)	6900	8650	12500	12900
L x W x H (mm)	2368 x 1320 x 1515	2518 x 1425 x 1805	2602 x 1581 x 1740	2802 x 1720 x 1740
Max. pre-tension (kN)	250	250	400	400

Stock locations:

- Dronten (NL)
- Sliedrecht (NL)
- Hohenwart (DE)
- Hamburg (DE)
- Großwallstadt (DE)



Ring Vibrator with variable static moment

Sharing flexibility

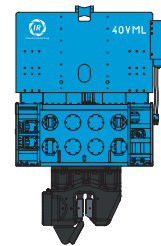
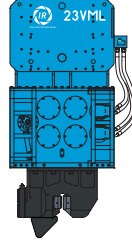
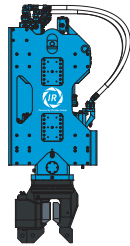
Leader guided vibratory hammers with variable moment

InfraRentals supported by Dieseko Group

IR 17VML

IR 23VML

IR 40VML



Eccentric moment (kgm)	0 - 17,4	0 - 23	0 - 40
Max. centrifugal force (kN)	0 - 1100	0 - 1350	0 - 1750
Max. frequency (rpm)	2400	2300	2000
Max. amplitude (mm)	0 - 16,8	0 - 17	0 - 19
Max. static line pull (kN)	240	300	400
Working pressure (bar)	350	350	350
Max. oil flow (l/min)	600	543	800
Dynamic weight (kg) (without clamp)	2070	2700	4300
Total weight (kg) (without clamp)	2590	3600	6760
L x W x H (mm)	1420 x 560 x 2051	1460 x 785 x 2100	2580 x 710 x 2690
Max. pre-tension (kN)	240	200	300
Sheet pile clamp*	130TU	150TU	350TU
Tube clamp set*	-	80TC	125TC
Pile clamp*	-	-	180TP

*Manufacturer's recommendation.



Stock locations:

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- Hamburg (DE)
- Großwallstadt (DE)