

An aerial photograph of the New York City skyline at sunset. The Hudson River is on the left, with several boats visible. The city's skyscrapers are silhouetted against the bright, hazy sky. The Chrysler Building is prominent on the right. The overall tone is warm and dramatic.

**juntan**  
respecting ground





# GLOBAL PILING SPECIALIST

Junttan has over 40 years' experience in developing and manufacturing the industry's leading piling equipment. Our piling product range comprises pile driving rigs, multipurpose drilling rigs, as well as hydraulic impact hammers and power packs.

Our best-in-class product range helps us to offer personalized services to customers with varying requirements and to develop customer-driven services.

We support our customers around the world with a wide range of services such as spare parts, maintenance services, modernisations and digital services. We help our customers to make the most out of their piling equipment investment by ensuring that they have the top-notch machines and tools to do their job in the best possible way, no matter where in the world their next site may be.

## RIGHT SOLUTION FOR EVERY DEEP FOUNDATION PROJECT

During our long history, Junttan has established a solid position in a wide variety of piling projects around the world. With a strong experience of demanding projects Junttan is able to provide solutions for all your pile foundation and soil improvement needs.

**CLASSIC**  
Junttan

**X-SERIES**  
Junttan



# ALWAYS CLOSE BY

Wherever your construction projects may take you, rest assured.

The Junttan service network is close to you by offering a wide range of professional services to meet all your needs. Throughout the service life of your Junttan machinery, we help you to keep it in the best possible condition and able to withstand even the most demanding challenges and operating environments.

We are confident that Junttan products and services will lead to a life-long partnership. That's why we are with you during every step of your Junttan Life, right from the very first contact. Junttan Life is all about profitable, safe, effortless, and reliable partnership. You can focus on running your business while we take care of your Junttan equipment.

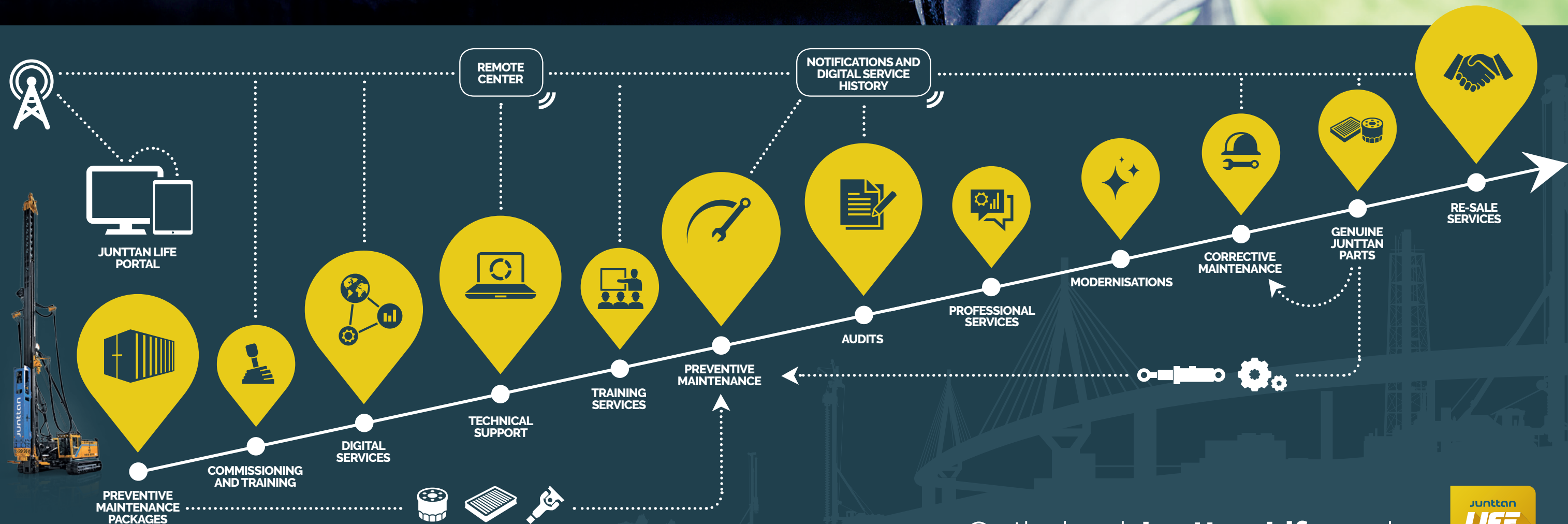
A key part of Junttan Life is our digital services that ensure effortless and carefree workflow. Junttan Life Portal gathers all the digital information and services in one easy-to-use and comprehensive web site.



LIFE-LONG PARTNERSHIP

TOTAL PROFITABILITY

SAFETY



Optimised **Junttan Life** cycle





# Pile driving rigs

The advanced technical performance and a full range of customisation alternatives are the core elements of every Junttan pile driving rig. In addition to leading reliability and productivity at work, these machines feature a collection of thoroughly considered details, which further enhance the operational efficiency.

The safety and comfort of the operator is one of our fundamental priorities. The Junttan pile driving rigs have been designed to ensure top-notch practicality as well as a minimal amount of noise and vibration. Thanks to the lesser amount of harmful emissions, they are also more eco-friendly than conventional diesel hammers and mechanical piling rigs.



MODEL	PMx20	PMx22	PMx24	PMx25	PMx26	PMx28
AVERAGE WORKING WEIGHT	55 000 kg (120 000 lb)	64 000 kg (141 100 lb)	68 000 kg (149 900 lb)	70 000 kg (154 300 lb)	82 000 kg (180 800 lb)	90 000 kg (198 000 lb)
LEADER CAPACITY	13 000 kg (28 700 lb)	16 000 kg (35 300 lb)	18 000 kg (39 700 lb)	18 000 kg (39 700 lb)	20 000 kg (44 000 lb)	30 000 kg (66 100 lb)
RECOMMENDED HAMMER SIZE	3–5 tons (6 000–11 000 lb)	3–6 tons (6 000–13 000 lb)	4–6 tons (9 000–13 000 lb)	5–7 tons (11 000–15 000 lb)	6–8 tons (13 000–18 000 lb)	7-12 tons (15 400–26 400 lb)
MAX PILE LENGTH	20 m (66 ft)	20 m (66 ft)	24 m (78 ft)	24 m (78 ft)	24 m (78 ft)	28 m (91 ft)
ENGINE POWER (US Tier 4F / EU Stage V)	231 kW (310 hp)	231 kW (310 hp)	231 kW (310 hp)	231 kW (310 hp)	321 kW (430 hp)	321 kW (430 hp)
WINCH CAPACITY: PILE	8 000 kg (17 600 lb)	10 000 kg (22 000 lb)	10 000 kg (22 000 lb)	10 000 kg (22 000 lb)	12 000 kg (26 500 lb)	12 000 kg (26 500 lb)
WINCH CAPACITY: HAMMER	11 000 kg (24 300 lb)	11 000 kg (24 300 lb)	12 000 kg (26 500 lb)	13 000 kg (28 660 lb)	20 000 kg (44 000 lb)	20 000 kg (44 000 lb)
UNDERCARRIAGE: LENGTH	4 700 mm (185 in)	5 100 mm (200 in)	5 100 mm (200 in)	5 700 mm (225 in)	5 700 mm (225 in)	5 700 mm (225 in)
UNDERCARRIAGE: WIDTH (900 SHOES)	3 200–4 700 mm (126–185 in)	3 200–4 700 mm (126–185 in)	3 200–4 700 mm (126–185 in)	3 200–4 700 mm (126–185 in)	3200–4700 mm (126–185 in)	3 380–4 880 mm (133–192 in)



MODEL	PM16	PM20LC	PM23LC (long reach boom)	PM25H
AVERAGE WORKING WEIGHT	37 000 kg (81 570 lb)	64 000 kg (141 100 lb)	65 000 kg (143 300 lb)	78 000 kg (172 000 lb)
LEADER CAPACITY	12 000 kg (26 400 lb)	16 000 kg (35 200 lb)	14 000 kg (30 900 lb)	20 000 kg (44 000 lb)
RECOMMENDED HAMMER SIZE	3–4 tons (6 000–9 000 lb)	3–6 tons (6 000–13 200 lb)	3–5 tons (6 000–11 000 lb)	5–9 tons (11 000–19 000 lb)
MAX PILE LENGTH	16 m (52 ft)	20 m (66 ft)	20 m (66 ft)	25 m (82 ft)
ENGINE POWER (US Tier 3 / Stage V)	129 kW (173 hp)	231 kW (310 hp)	231 kW (310 hp)	286 kW (384 hp) / 272 kW (365 hp)
WINCH CAPACITY: PILE	5 000 kg (11 000 lb)	10 000 kg (22 000 lb)	8 000 kg (17 600 lb)	10 000 kg (22 000 lb)
WINCH CAPACITY: HAMMER	8 000 kg (17 600 lb)	10 000 kg (22 000 lb)	10 000 kg (22 000 lb)	16 500 kg (36 400 lb)
UNDERCARRIAGE: LENGTH	4 460 mm (181 in)	5 100 mm (200 in)	5 700 mm (225 in)	5 700 mm (225 in)
UNDERCARRIAGE: WIDTH (900 SHOES)	3 000–4 000 mm (118–157 in)	3 200–4 700 mm (126–185 in)	3 200–4 700 mm (126–185 in)	3 380–4 880 mm (133–192 in)



ADVANCED TECHNICAL PERFORMANCE

RELIABILITY, PRODUCTIVITY,  
AND OPERATIONAL EFFICIENCY

MINIMAL NOISE AND VIBRATION

FEWER HARMFUL EMISSIONS

EASY TRANSPORTATION





# Hydraulic impact hammers

Utilising industry-leading technology and know-how, the Junttan hydraulic impact hammers will make the most of the available opportunities, at every construction site. As up to 95 per cent of the hammer's energy is transferred to the pile and its progress, the pile installation can take place with optimal efficiency – not only when it comes to energy, but also time and costs as well.

The Junttan hammers are manufactured with a keen eye on sustainable development. As a result, they create less noise and vibration and fewer emissions than conventional hammers. A smooth installation process helps ensure that everything takes place with as little impact on the environment as possible.

By gaining a comprehensive understanding to achieve the evolving, ambitious goals of modern construction business, we have tested and developed our hammers to provide the best possible performance under all conditions. Our versatile selection of equipment ensures that for every construction challenge, the ideal solution can be found.



**OPTIMAL EFFICIENCY**  
Up to 95% of the hammer's efficiency transferred to the pile

**AS LITTLE IMPACT ON ENVIRONMENT AS POSSIBLE**



MODEL	SHK3	SHK4	SHK5	SHK6	SHK7	SHK9	HHx160	HHx210	HHx250	HHx300	HHx350
RAM WEIGHT	3 000 kg (6 614 lb)	4 000 kg (8 800 lb)	5 000 kg (11 000 lb)	6 000 kg (13 200 lb)	7 000 kg (15 400 lb)	9 000 kg (19 800 lb)	10 000 kg (22 000 lb)	14 000 kg (30 800 lb)	16 000 kg (35 200 lb)	20 000 kg (44 000 lb)	22 000 kg (48 500 lb)
MAX ENERGY	36 kNm (29 607 ft-lb)	49 kNm (35 876 ft-lb)	61 kNm (44 845 ft-lb)	73 kNm (53 814 ft-lb)	89 kNm (65 621 ft-lb)	119 kNm (87 740 ft-lb)	160 kNm (117 920 ft-lb)	210 kNm (154 770 ft-lb)	250 kNm (184 250 ft-lb)	300 kNm (221 100 ft-lb)	350 kNm (258 147 ft-lb)
DROP HEIGHT MAX	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 000 mm (3.28ft)	1 000 mm (3.28ft)	1 000 mm (3.28ft)	1 000 mm (3.28ft)	1 000 mm (3.28ft)
BLOWS PER MINUTE	50–140+	50–140+	50–140+	50–140+	50–140+	50–140+	60-120	45/60-120	60-120	50-120	45-120
TOTAL WEIGHT	6 920 kg (15 256 lb)	8 120 kg (17 902 lb)	9 250 kg (20 393 lb)	10 430 kg (22 994 lb)	11 730 kg (25 860 lb)	14 800 kg (32 560 lb)	24 326 kg (53 517 lb)	30 285 kg (66 407 lb)	33 600 kg (74 000 lb)	38 700 kg (85 300 lb)	45 200 kg (99 649 lb)



MODEL	HHK3A	HHK4A	HHK5A	HHK6A	HHK7A	HHK9A	HHK3S	HHK5S	HHK6S	HHK7S	HHK9S
RAM WEIGHT	3 000 kg (6 614 lb)	4 000 kg (8 800 lb)	5 000 kg (11 000 lb)	6 000 kg (13 200 lb)	7 000 kg (15 400 lb)	9 000 kg (19 800 lb)	3 000 kg (6 614 lb)	5 000 kg (11 000 lb)	6 000 kg (13 200 lb)	7 000 kg (15 400 lb)	9 000 kg (19 800 lb)
MAX ENERGY	35 kNm (26 070 ft-lb)	47 kNm (34 718 ft-lb)	59 kNm (43 398 ft-lb)	71 kNm (52 078 ft-lb)	82 kNm (60 757 ft-lb)	106 kNm (78 116 lb)	44 kNm (32 450 ft-lb)	74 kNm (54 248 ft-lb)	88 kNm (64 907 ft-lb)	103 kNm (74 947 ft-lb)	132 kNm (97 646 ft-lb)
DROP HEIGHT MAX	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 200 mm (3.94 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)
BLOWS PER MINUTE	40–100	40–100	40–100	40–100	40–100	40–100	30–100	30–100	30–100	30–100	30–100
TOTAL WEIGHT	6 000 kg (13 228 lb)	7 200 kg (15 873 lb)	8 400 kg (18 519 lb)	9 500 kg (20 994 lb)	11 000 kg (24 251 lb)	13 500 kg (29 762 lb)	6 500 kg (14 300 lb)	9 000 kg (19 800 lb)	11 200 kg (24 640 lb)	12 400 kg (27 280 lb)	14 500 kg (31 900 lb)

MODEL	HHK10S	HHK12S	HHK14S	HHK16S	HHK20S	HHK25S	HHK28S	HHK30S
RAM WEIGHT	10 000 kg (22 000 lb)	12 000 kg (26 400 lb)	14 000 kg (30 800 lb)	16 000 kg (35 200 lb)	20 000 kg (44 000 lb)	25 000 kg (55 000 lb)	28 000 kg (61 600 lb)	30 000 kg (66 139 lb)
MAX ENERGY	147 kNm (108 495 ft-lb)	177 kNm (130 914 ft-lb)	206 kNm (151 893 ft-lb)	235 kNm (173 592 ft-lb)	294 kNm (216 990 ft-lb)	368 kNm (271 238 ft-lb)	412 kNm (303 876 ft-lb)	441 kNm (325 265 ft-lb)
DROP HEIGHT MAX	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)
BLOWS PER MINUTE	30–100	30–100	30–100	30–100	30–100	30–100	30–100	30–100
TOTAL WEIGHT	16 700 kg (36 817 lb)	19 400 kg (42 770 lb)	22 100 kg (48 772 lb)	29 690 kg (65 468 lb)	34 856 kg (76 844 lb)	46 800 kg (103 176 lb)	51 500 kg (113 538 lb)	55 200 kg (121 695 lb)

MODEL	HHK16SB	HHK20SB	HHK25SB	HHK28SB	HHK30SB
RAM WEIGHT	16 000 kg (35 200 lb)	20 000 kg (44 000 lb)	25 000 kg (55 000 lb)	28 000 kg (61 600 lb)	30 000 kg (66 139 lb)
MAX ENERGY	262 kNm (193 241 ft-lb)	320 kNm (236 019 ft-lb)	400 kNm (295 025 ft-lb)	450 kNm (331 903 ft-lb)	500 kNm (368 781 ft-lb)
DROP HEIGHT MAX	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)	1 500 mm (4.92 ft)
BLOWS PER MINUTE	30–100	30–100	30–100	30–100	30–100
TOTAL WEIGHT	29 690 kg (65 468 lb)	34 856 kg (76 844 lb)	46 800 kg (103 176 lb)	51 500 kg (113 538 lb)	55 200 kg (121 695 lb)







## Power packs

The Junttan Power packs are ready for use quickly, and the low noise level further enhances their user-friendliness. They are compact, yet powerful pieces of equipment that can conveniently be transported from one construction site to another.

The Junttan Power packs are designed to be used with hammers, rotary heads, and vibrators. The compact structure and remote control possibility enable them to be used ranging from simple to highly demanding situations, and you to get the most out of your hammer.

By efficiently combining the sheer power with the ability to perform, Power packs are able to ensure the most effective, reliable, and flawless flow throughout the piling process. Thanks to their easy handling, excellent durability, and first-class fuel economy, the Junttan Power packs enable optimal functionality even in the most demanding conditions.

### X-SERIES

Junttan

MODEL	10xCU	15xCU	20xCU
ENGINE POWER (US TIER 4/EU STAGE V)	283 kW (384 hp)	321 kW (430 hp)	503 kW (675 hp)
MAX OPERATING PRESSURE	350 bar (5 076 PSI)	350 bar (5 076 PSI)	350 bar (5 076 PSI)
HYDRAULIC OIL TANK	1 000 l (263 gal)	1 000 l (263 gal)	1 500 l (396 gal)
FUEL TANK	660 l (173 gal)	660 l (173 gal)	660 l (173 gal)
OIL FLOW MAX	380 l/min (100 gpm)	2 x 380 l/min (2 x 100 gpm)	2 x 520 l/min (2 x 137 gpm)
CONTROL SYSTEM	X-control / pile cruise	X-control / pile cruise	X-control / pile cruise
WEIGHT	5 500 kg (12 120 lb)	5 900 kg (12 980 lb)	8 700 kg (19 140 lbs)

### CLASSIC

Junttan

MODEL	10CCU	15CCU	20CCU	30CCU
ENGINE RATED POWER	227 kW (304 hp)	280 kW (375 hp)	388 kW (520 hp)	708 kW (950 hp)
MAX OPERATING PRESSURE	220 bar (3 190 PSI)	350 bar (5 076 PSI)	350 bar (5 076 PSI)	350 bar (5 076 PSI)
HYDRAULIC OIL TANK	1 000 l (264 gal)	1 850 l (488 gal)	1 850 l (488 gal)	2 700 l (713 gal)
FUEL TANK	400 l (105 gal)	760 l (210 gal)	760 l (210 gal)	2 500 l (660 gal)
OIL FLOW MAX	380 l/min (100 gpm)	2 x 380 l/min (2 x 100 gpm)	2 x 380 l/min (2 x 100 gpm)	2 x 546 l/min (2 x 144 gpm)
CONTROL SYSTEM	classic	classic	classic	classic
WEIGHT	5 700 kg (12 570 lb)	8 400 kg (18 480 lb)	8 700 kg (19 140 lb)	13 500 kg (29 700 lb)



FUEL ECONOMY  
EXCELLENT DURABILITY  
EASY HANDLING





# Multipurpose piling rigs

The Junttan multipurpose rigs are designed to operate widely in the largely varying field of piling work, able to install driven as well as different types of bored piles. Each model of machine, however, can be considered unique, with its own special features and characteristics, and designed in accordance with customer wishes and requirements. Along with the other excellent features, the Junttan multipurpose rigs are able to provide easy transportability from one job site to another, exceptional stability, operational safety, consideration of the environment, and, above all, high productivity.



MODEL	MPx50	MPx90		
ENGINE POWER (US TIER 4F/EU STAGE V)	321 kW (430 hp)	503 kW (675 hp)		
LEADER CAPACITY	23 000 kg (50 700 lb)	42 000 kg (92 594 lb)		
MAIN WINCH CAPACITY	200 kN (44 961 lbf)	300 kN (67 443 lbf)		
SECONDARY WINCH CAPACITY	130 kN (29 225 lbf)	200kN (44 962 lbf)		
AUXILIARY WINCH CAPACITY	2 x 50 kN (11 240 lbf)	100 kN (22 480 lbf)		
EXTRACTION FORCE	800 kN (179 847 lbf)	1 200 kN (269 771 lbf)		
PULL DOWN FORCE	390 kN (87 675 lbf)	600 kN (134 885 lbf)		
UNDERCARRIAGE LENGTH	5 630 mm (222 in)	6 325 mm (249 in)		
UNDERCARRIAGE WIDTH w/ 900 mm TRACK SHOES	3 380–4 880 mm (133–192 in)	3 470–5 010 mm (137–197 in)		
APPLICATION	CFA	DISPLACEMENT	DTH	DRIVEN
AVERAGE WORKING WEIGHT (MPx50)	89 000 kg (196 211 lb)	89 000 kg (196 211 lb)	89 000 kg (196 211 lb)	89 000 kg (196 211 lb)
AVERAGE WORKING WEIGHT (MPx90)	125 000 kg (275 600 lb)	125 000 kg (275 600 lb)	125 000 kg (275 600 lb)	125 000 kg (275 600 lb)
RECOMMENDED ROTARY HEAD / HAMMER (MPx50)	RHK28	RHK28	RHP14	HHK5-HHK10
RECOMMENDED ROTARY HEAD / HAMMER (MPx90)	JD45	JD45	RHP20	HHK10-16S
MAX PILE LENGTH (MPx50)	24 m (79 ft)	25 m (82 ft)	24 m (79 ft)	24 m (79 ft)
MAX PILE LENGTH (MPx90)	38 m (125 ft)	40 m (131 ft)	33 m (108 ft)	31 m (102 ft)
MAX PILE DIAMETER (MPx50)	1 000 mm (39 in)	610 mm (24 in)	1 016 mm (40 in)	*
MAX PILE DIAMETER (MPx90)	1200 mm (47 in)	610 mm (24 in)	1 016 mm (40 in)	*

\* DEPENDING ON APPLICATION



UNIQUE SPECIAL FEATURES  
IN EVERY MACHINE

EXCEPTIONAL STABILITY

EASY TRANSPORTABILITY





**RENTAL**  
Junttan

## Junttan Rentals and Leasing

Reducing fixed costs and lowering the risk-level of your construction business can be a key-factor for your success. For us at Junttan our main goal is, that our customers succeed in whatever project they are working on. To increase your profitability and to help your company grow, we have launched a new way of using Junttan products: Junttan Rentals and Leasing.



### THE BENEFITS OF JUNT TAN RENTALS:

- No fixed costs, just pay for the time you need the equipment.
- Always safe, efficient and modern equipment.
- Save time and money, we will take care of insurances, logistics and all other additional services that you need.
- Renting is green. It lessens harmful emissions, reduces the quantity of equipment needed and is more energy efficient than owning a piece of equipment.
- By renting equipment, you avoid the excessive investment burden and maintenance costs, both of which increase the overall cost of your project.



### THE BENEFITS OF JUNT TAN LEASING:

If you want to buy a Junttan product, but do not want to invest any capital at once. Junttan Rental can also offer you leasing services, that help you to cut your need of capex.

- No capital expenditure
- Always modern equipment
- Maintenance costs can be included into the leasing agreement
- A lighter balance sheet



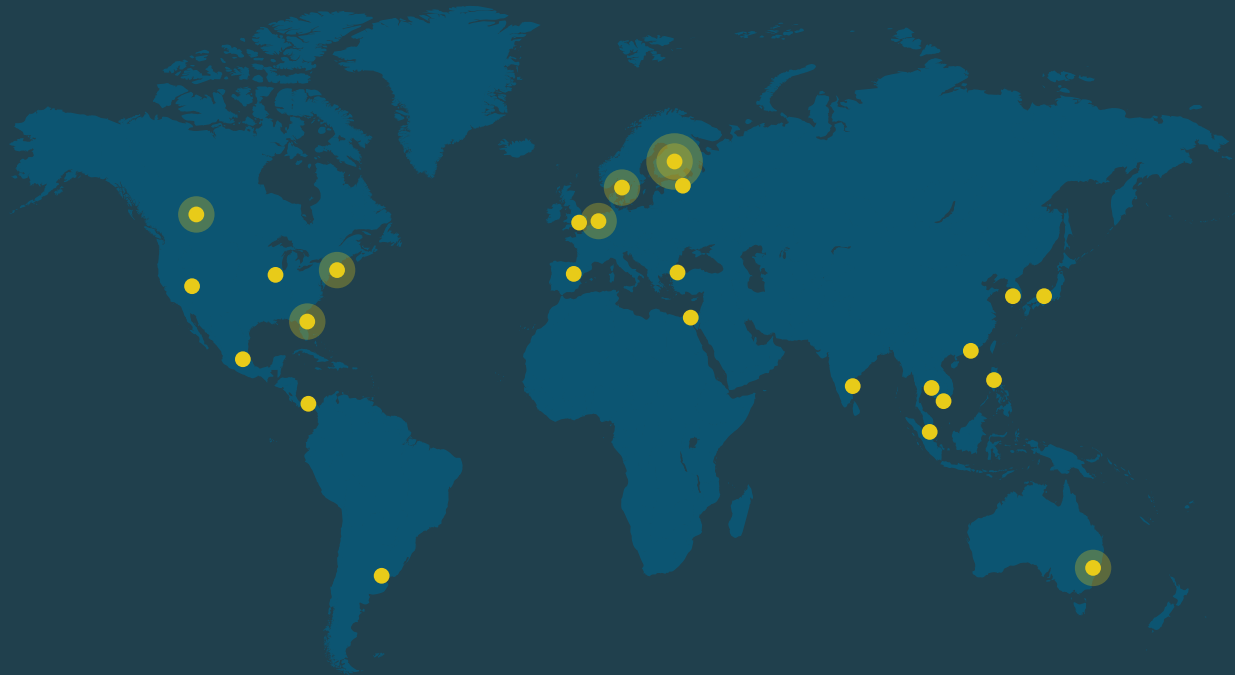
**Further information:**  
**[rental@junttan.com](mailto:rental@junttan.com)**





# At your service

Combining state-of-the-art piling machinery with uncontested customer service and sheer determination to do everything there is to do to help customers succeed, Junttan can improve also your operational efficiency.



FIND YOUR NEAREST JUNTAN PROFESSIONAL HERE:  
**[www.junttan.com/contact-us](http://www.junttan.com/contact-us)**

---

#### JUNTAN OY

**E-MAIL ADDRESSES:** [junttan@junttan.com](mailto:junttan@junttan.com) | [firstname.lastname@junttan.com](mailto:firstname.lastname@junttan.com)

**VISITING ADDRESS:** Junttan Oy, Matkuksentie 7, 70800 Kuopio, FINLAND

**MAILING ADDRESS:** Junttan Oy, P.O.Box 1702, 70701 Kuopio, FINLAND

---

**junttan**  
respecting ground