



**Ram  
mer®**

# PERFORMANCE LINE HAMMERS



# UNBEATABLE PERFORMANCE

The new Rammer Performance Line hammers are your everyday solution for a wide range of breaking demands. Designed with proven Rammer features and standards, these Rammer Performance Line hammers offer more than just excellent power-to-weight ratio, they bring the quality reassurance that only a true Rammer hammer can bring.

**SANDVIK IS THE WORLD'S LEADING MANUFACTURER OF HYDRAULIC HAMMERS AND ATTACHMENTS. OVER THE PAST 40 YEARS, SANDVIK-OWNED RAMMER HAMMERS HAVE BEEN DEVELOPED IN CONJUNCTION WITH OUR CUSTOMERS ACROSS THE WORLD. AS A RESULT, THEY ARE TOUGH, DURABLE, RELIABLE AND OFFER THE MOST ECONOMICAL OWNING AND OPERATING COSTS WHILE DELIVERING MAXIMUM PRODUCTION.**





## 40 YEARS OF INNOVATION



Manufacturing of Rammer branded hydraulic hammers started in 1978 – ever since it has grown to be a recognized world leader in the supply and support of hammers, and other hydraulic attachments such as demolition tools and breaker booms.

The Rammer brand and its reputation is built on quality: quality of manufacture, proven by its ISO standards, quality of support through the professional, worldwide dealer network and quality of exceptional people delivering the finest attachments in the mining and construction business.

# OPTIMIZED PERFORMANCE

Rammer Performance Line hammers are your everyday breaking solution, when quality and peace of mind count. Operator comfort has been a key factor in the design of the Performance Line, the vibration dampened and sound suppressed housing minimizes energy transfer to the carrier. Other standard features including Rammer's own Ramlube II greasing system, RD3/MyFleet as an option and the fast change tool system make for easy servicing and an extended product life span.

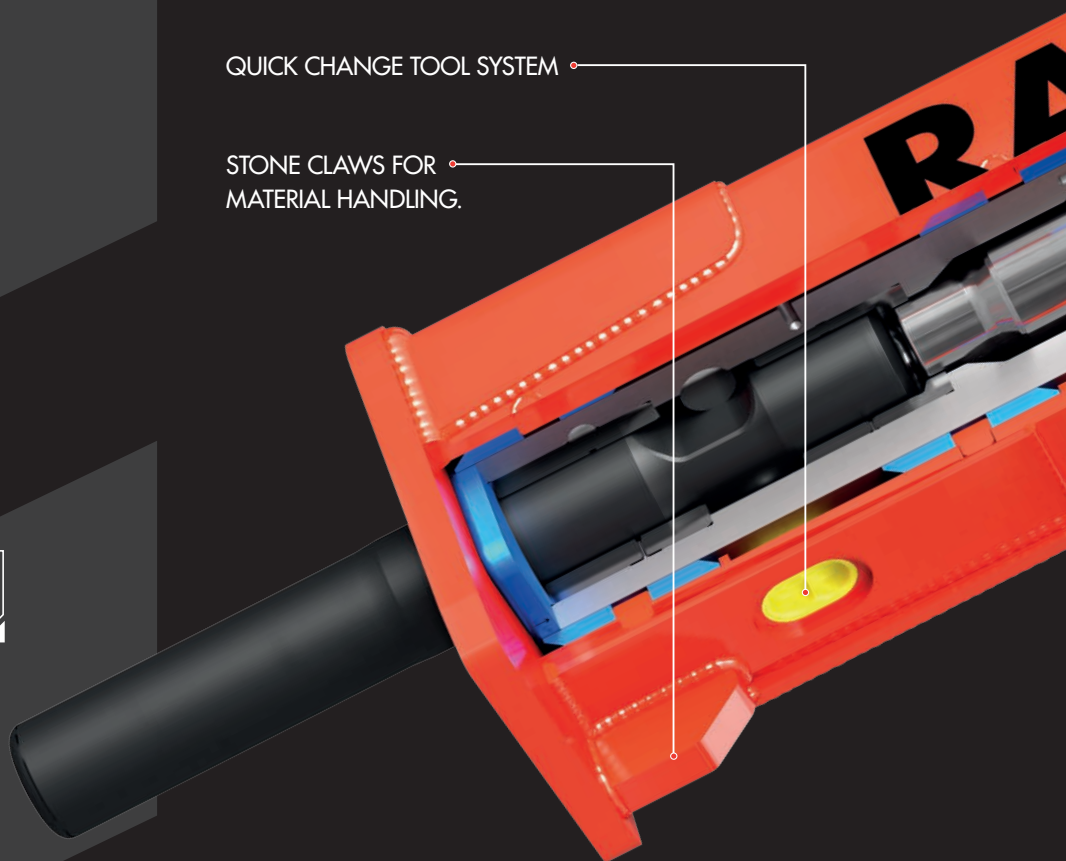
**ISO 9001**

**ISO 14001**

**OSHAS 18001**

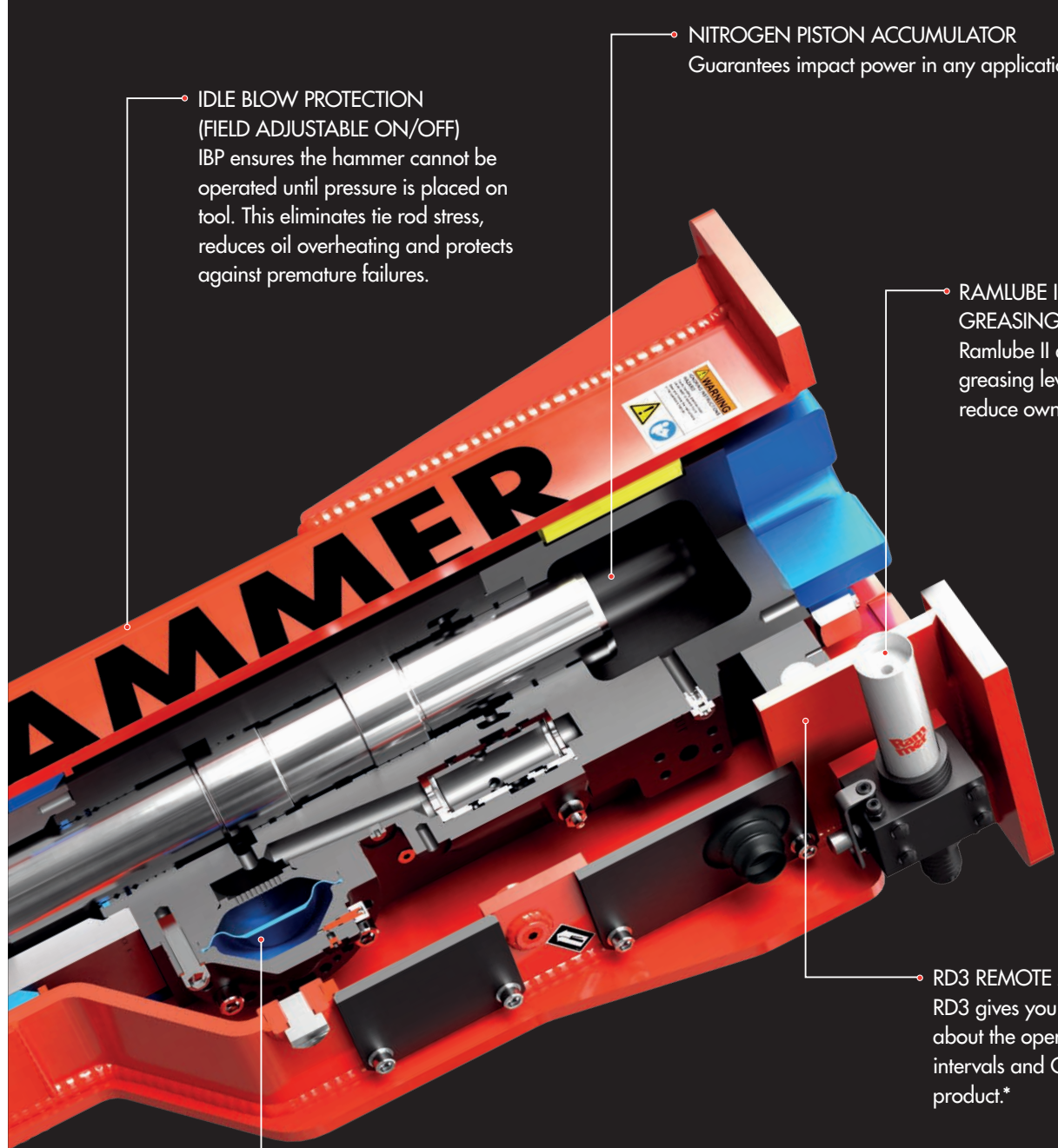
QUICK CHANGE TOOL SYSTEM

STONE CLAWS FOR  
MATERIAL HANDLING.



**ALL RAMMER PERFORMANCE LINE  
HAMMERS COME FULLY CE COMPLIANT,  
SUPPLIED BY SANDVIK, LAHTI, FINLAND.  
THEY ARE MANUFACTURED IN ACCORDANCE  
WITH ISO STANDARDS.**





• **IDLE BLOW PROTECTION  
(FIELD ADJUSTABLE ON/OFF)**  
IBP ensures the hammer cannot be operated until pressure is placed on tool. This eliminates tie rod stress, reduces oil overheating and protects against premature failures.

• **NITROGEN PISTON ACCUMULATOR**  
Guarantees impact power in any application.

• **RAMLUBE II  
GREASING SYSTEM**  
Ramlube II device maintain correct greasing levels, protect the tool and reduce owning and operating costs.

• **RD3 REMOTE MONITORING SYSTEM**  
RD3 gives you detailed information about the operating hours, service intervals and GPS location of your product.\*

• **MEMBRANE TYPE ACCUMULATOR**  
Membrane type accumulator dampens pressure peaks protecting carrier hydraulics. No need for time consuming recharging.

• **FULLY ENCLOSED,  
HEAVY DUTY HOUSING**  
Fitted as standard, heavy duty housings feature a robust structure, minimum number of holes and plastic wear plates for optimum hammer protection and noise reduction.

• **VIBRATION AND  
SOUND SUPPRESSED**

• **EASY TO SERVICE**

• **EXCELLENT POWER-TO-WEIGHT RATIO**

\*) RD3 available as an option R16P →



# SMALL HAMMERS



	R01P	R02P
Min. working weight, kg (lb)	95 (210)	130 (290)
Tool diameter, mm (in)	40 (1.57)	46 (1.81)
Oil flow range, l/min (gal/min)	15 - 25 (4 - 6.6)	15 - 40 (4 - 10.6)
Impact rate, bpm	700 - 1 400	450 - 1400
Operating pressure, bar (psi)	80 - 120 (1 160 - 1 740)	60 - 120 (870 - 1 740)
Pressure relief, min, bar (psi)	150 (2 175)	150 (2 175)
Pressure relief, max, bar (psi)	170 (2 465)	170 (2 465)
Back pressure, max, bar (psi)	20 (290)	20 (290)
Input power, kW (hp)	5 (7)	8 (11)
Min excavator range, ton (lb)	0.8 - 2.1 (1 800 - 4 600)	1.3 - 3.3 (2 900 - 7 300)
Skid steer range, ton (lb)	0.7 - 1.6 (1 500 - 3 500)	1.2 - 2.2 (2 600 - 4 900)
Noise level measured sound power level, LWA, dB(A)	110	114
Noise level guaranteed sound power level, LWA, dB(A)	114	118





	<b>R03P</b>	<b>R04P</b>
Min. working weight, kg (lb)	180 (400)	285 (630)
Tool diameter, mm (in)	53 (2.09)	60 (2.36)
Oil flow range, l/min (gal/min)	25 - 50 (6.6 - 13.2)	30 - 60 (7.9 - 15.9)
Impact rate, bpm	600 - 1200	550 - 1050
Operating pressure, bar (psi)	75 - 120 (1 090 - 1 740)	70 - 130 (1 015 - 1 885)
Pressure relief, min, bar (psi)	150 (2 175)	150 (2 175)
Pressure relief, max, bar (psi)	170 (2 465)	170 (2 465)
Back pressure, max, bar (psi)	20 (290)	20 (290)
Input power, kW (hp)	10 (13)	13 (17)
Min excavator range, ton (lb)	2.0 - 4.4 (4 400 - 9 700)	3.0 - 6.0 (6 600 - 13 200)
Skid steer range, ton (lb)	1.4 - 3.2 (3 100 - 7 100)	2.0 - 3.7 (4 400 - 8 200)
Noise level measured sound power level, LWA, dB(A)	112	114
Noise level guaranteed sound power level, LWA, dB(A)	116	118



# SMALL HAMMERS



	<b>R05P</b>	<b>R07P</b>
Min. working weight, kg (lb)	325 (720)	400 (880)
Tool diameter, mm (in)	68 (2.68)	75 (2.95)
Oil flow range, l/min (gal/min)	35 - 70 (9.2 - 18.5)	45 - 90 (11.9 - 23.8)
Impact rate, bpm	400 - 1050	450 - 950
Operating pressure, bar (psi)	110 - 155 (1 595 - 2 250)	80 - 140 (1 160 - 2 030)
Pressure relief, min, bar (psi)	200 (2 900)	200 (2 900)
Pressure relief, max, bar (psi)	220 (3 190)	220 (3 190)
Back pressure, max, bar (psi)	15 (220)	15 (220)
Input power, kW (hp)	18 (24)	21 (28)
Miniexcavator range, ton (lb)	4.0 - 7.5 (8 800 - 16 500)	5 - 9 (11 000 - 19 800)
Skid steer range, ton (lb)	3.0 - 5.2 (6 600 - 11 500)	3.5 - 6.0 (7 700 - 13 200)
Noise level measured sound power level, LWA, dB(A)	118	117
Noise level quaranteed sound power level, LWA, dB(A)	122	121



## R10P

Min. working weight, kg (lb)	530 (1 170)
Tool diameter, mm (in)	85 (3.35)
Oil flow range, l/min (gal/min)	50 - 95 (13.2 - 25.1)
Impact rate, bpm	450 - 900
Operating pressure, bar (psi)	110 - 160 (1 595 - 2 320)
Pressure relief, min, bar (psi)	200 (2 900)
Pressure relief, max, bar (psi)	220 (3 190)
Back pressure, max, bar (psi)	15 (220)
Input power, kW (hp)	25 (34)
Min excavator range, ton (lb)	6 - 12 (13 200 - 26 500)
Skid steer range, ton (lb)	4 - 7.5 (8 800 - 16 500)
Noise level measured sound power level, LWA, dB(A)	119
Noise level guaranteed sound power level, LWA, dB(A)	123



# MEDIUM HAMMERS



## R12P

Min. working weight, kg (lb)	830 (1 830)
Tool diameter, mm (in)	90 (3.54)
Oil flow range, l/min (gal/min)	60 - 100 (15.9 - 26.4)
Impact rate, bpm	380 - 750
Operating pressure, bar (psi)	100 - 160 (1 450 - 2 320)
Pressure relief, min, bar (psi)	200 (2 900)
Pressure relief, max, bar (psi)	220 (3 190)
Back pressure, max, bar (psi)	15 (220)
Input power, kW (hp)	27 (36)
Miniexcavator range, ton (lb)	9 - 14 (19 800 - 30 900)
Noise level measured sound power level, LWA, dB(A)	121
Noise level quaranteed sound power level, LWA, dB(A)	125



RD3 remote  
monitoring system  
now available  
as an option



	R16P	R18P
Min. working weight, kg (lb)	1 080 (2 380)	1 240 (2 730)
Tool diameter, mm (in)	110 (4.33)	120 (4.72)
Oil flow range, l/min (gal/min)	90 - 120 (23.8 - 31.7)	100 - 140 (26.4 - 37)
Impact rate, bpm	280 - 860	280 - 760
Operating pressure, bar (psi)	160 - 180 (2 320 - 2 610)	160 - 180 (2 320 - 2 610)
Pressure relief, min, bar (psi)	210 (3 045)	200 (2 900)
Pressure relief, max, bar (psi)	230 (3 335)	220 (3 190)
Back pressure, max, bar (psi)	10 (145)	10 (145)
Input power, kW (hp)	36 (48)	42 (56)
Carrier weight, allowed range, t (lb)	13 - 21 (28 700 - 46 300)	15 - 23 (33 100 - 50 700)
Noise level measured sound power level, LWA, dB(A)	117	119
Noise level quaranteed sound power level, LWA, dB(A)	121	123



# LARGE HAMMERS



RD3 remote  
monitoring system  
now available  
as an option



	R25P	R35P
Min. working weight, kg (lb)	1 650 (3 640)	2 320 (5 110)
Tool diameter, mm (in)	135 (5.31)	150 (5.91)
Oil flow range, l/min (gal/min)	130 - 170 (34.3 - 44.9)	150 - 200 (39.6 - 52.8)
Impact rate, bpm	390 - 700	400 - 700
Operating pressure, bar (psi)	160 - 180 (2 320 - 2 610)	160 - 180 (2 320 - 2 610)
Pressure relief, min, bar (psi)	200 (2 900)	210 (3 045)
Pressure relief, max, bar (psi)	220 (3 190)	230 (3 335)
Back pressure, max, bar (psi)	10 (145)	10 (145)
Input power, kW (hp)	51 (68)	60 (80)
Carrier weight, allowed range, t (lb)	20 - 29 (44 100 - 63 900)	27 - 40 (59 500 - 88 200)
Noise level measured sound power level, LWA, dB(A)	121	118
Noise level quaranteed sound power level, LWA, dB(A)	125	122

# R45P



## R45P

Min. working weight, kg (lb)	2950 (6500)
Tool diameter, mm (in)	165 (6.50)
Oil flow range, l/min (gal/min)	200 - 250 (52.8 - 66.0)
Impact rate, bpm	360 - 630
Operating pressure, bar (psi)	160 - 180 (2 320 - 2 610)
Pressure relief, min, bar (psi)	210 (3 045)
Pressure relief, max, bar (psi)	230 (3 335)
Back pressure, max, bar (psi)	10 (145)
Input power, kW (hp)	75 (101)
Carrier weight, allowed range, t (lb)	32 - 53 (70 500 - 116 844)
Noise level measured sound power level, LWA, dB(A)	124
Noise level quaranteed sound power level, LWA, dB(A)	128





# GREASING AND DATA OPTIONS

A hammer's tool is subject to extreme wear that requires proper lubrication and care to achieve a long, trouble-free life. Tool lubricant must have properties to withstand high temperature and extreme pressure. Special tool lubricants and automatic tool lubrication systems, which have been especially designed to work with Rammer products, are available from your local Rammer dealer.



## Rammer Tool grease

Tool grease is essential when using most hydraulic hammers. It needs to withstand high temperatures and pressure. Our special tool grease has been specially formulated to be used with our products.



## Ramlube

A hammer's tool is subject to extreme wear that requires proper lubrication and care in order to achieve a long, trouble-free life. Tool lubricant must withstand high temperature and extreme pressure. We have designed special tool lubricants and automatic tool lubrication systems specifically to work with Rammer hydraulic hammers.



## Ramlube II

The Ramlube II kit is mounted on the hammer housing. For optimum wear and impact protection, the system features no external electric cables or hydraulic hoses. Available as a retrofit option, Ramlube II is a standard feature for Rammer R18P and larger models. It is ideally suited to applications in which the hammer is required to work with more than one carrier.



## RD3

RD3 remote monitoring system gives you detailed information about the operating hours, service intervals and GPS location of your product. You can see all the data you need by logging into the My Fleet platform. RD3 improves your fleet management, makes your processes more efficient and improves your profitability. RD3 available as an option R16P →.

## PERFORMANCE LINE TOOL OPTIONS

### Chisel tool

- Non-abrasive but tough rock or concrete
- For material, which has low or medium penetration rate



### Moil point tool

- Where chisels have excessive retaining pin groove wear
- Soft and nonabrasive rock
- General demolition of concrete



### Pyramid point tool

- Soft, non-abrasive and tough rock and especially concrete
- Materials requiring high penetration rate
- Where chisels have excessive retaining pin groove wear



### Blunt tool

- Hard rock with low or medium abrasive content
- Boulder breaking or concrete demolition
- Application where tool wear rate is low







# FIRST CLASS SERVICE AND SUPPORT

## **In the factory**

Safety is the primary consideration. Visitors are to consider and improve safety to help us achieve our aim of zero accidents.

## **Products**

Safety is the driving force behind the development of all our products. Our aim is to set the safety standard by making products that are safe to operate and maintain. Rammer operator and service training packages reinforce that message to ensure the safety of your entire workforce. Always study and follow the safety instructions (operator's manual) before installing, maintaining or operating the product.

## **Process**

Rammer products also improve the safety of the working site and its processes. Rammer products have been designed the safety in mind - for example our Grapples featuring important Safety Valve, avoiding material falling off the shells in case of any problems in carrier hydraulic hydraulics or lines.

## **Safety – Your Advantage**

Injuries can impact upon an entire workforce and resulting in lost working days and a loss of production. A safe site is a productive site.

## **Environment**

Rammer products are manufactured utilizing state-of-the-art technology. Our manufacturing processes are certified against ISO standards with focus on low energy consumption, recycling of cutting fluids and metal chips. Furthermore, when Rammer products reach the end of their useful working life, more than 90 percent of the metallic components can be recycled.















### **GLOBAL DEALER NETWORK**

Sandvik sells and supports its Rammer-branded products through a global dealer network that operates in 130 countries around the world.

### **YOUR LOCAL RAMMER DEALER**



**Ram  
mer®**

Sandvik Mining and Construction Oy  
Taivalkatu 8, P.O.Box 165  
FI-15101 Lahti, Finland  
Phone Int. +358 205 44 151  
[www.rammer.com](http://www.rammer.com)