

**Ram
mer®**

**Ram
mer®**

SMALL & MEDIUM RANGE HAMMERS



ABOUT SANDVIK

SANDVIK IS THE WORLD'S LEADING MANUFACTURER OF HYDRAULIC HAMMERS AND ATTACHMENTS. OVER THE PAST 35 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.

ISO 9001

ISO 18001

ISO 14001

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

OUR FEATURES – YOUR BENEFITS

INCREASE YOUR PRODUCTIVITY

- 1 CBE (Constant Blow Energy)**
A built-in Pressure Adjusting Valve (PAV) maintains hydraulic pressure levels to ensure that every blow delivers the maximum power possible for optimum productivity. CBE operating principle enables wide oil flow range and tolerates hammer against high back pressure allowing a wide range of carrier utilization

- 2 Membrane type accumulator**
Membrane type accumulator eliminates nitrogen leakages and removes the need for time consuming recharging.

- 3 Wide tool selection**

RELIABLE PARTNER

- 4 Lower tool bushing with tool seal**
Field replaceable design with grooves for grease retention and dust seal for wear protection. This provides excellent alignment between piston and tool. The tool seal keeps grease in the hammer and dust outside increasing life time of parts.

- 5 Side plates attached to front head**
Side plates are bolted into front head with screws and loads are carried through front head. Hydraulic parts are not subjected to bending forces

MINIMIZE YOUR MAINTENANCE COSTS

- 6 Simple tool retaining system**
Reliable, simple and easy replace of tool anywhere in a matter of minutes. O-rings for grease retention and dust damage prevention.

- 7 Ramlube I**
Ramlube I - Machine-mounted greasing device as a retrofit provides correct greasing level to protect the tool and tool bushings and reduce owning and operating costs.

PROTECT YOUR WORKING ENVIRONMENT

- 8 Pressure adjusting valve (PAV)**
PAV allows easy adjust of operating pressure on field without oil spillage.



**Rammer hammer
777**

OUR FEATURES – YOUR BENEFITS

INCREASE YOUR PRODUCTIVITY

- 1 FBE (Fixed Blow Energy)**
A built-in pressure control valve maintains hydraulic pressure levels to ensure that every blow delivers the maximum power possible for optimum productivity.
- 2 Membrane type accumulator**
Membrane type accumulator eliminates nitrogen leakages, ensuring maximum piston acceleration and removing the need for time consuming recharging.
- 3 IBP (Idle Blow Protector)**
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
- 4 SBS (Soft Blow Sensor)**
SBS slows down the breaker and reduces power to minimize blank firing damage, making hammer ideal for secondary breaking. SBS, IBP or normal continuous working are options on all 1655 hammers.
- 5 Wide tool selection**

RELIABLE PARTNER

- 6 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.
- 7 VIDAT**
Vibration Dampened Tie Rods, spherical tie rod nuts and damper bushings ensures piston moves freely for longer, more productive working life.
- 8 Ramvalve**
More efficient than relief/check valves, Ramvalve detects overflow, prevents damage from system overload and protects against premature failure.
- 9 Top buffer and side pads**
The unique Rammer vibration absorption system consists of three buffers - one top buffer and two side pads – that prevent the transmission of vibration to protect both the breaker and the carrier's boom, stick and swing gears and to isolate the operator.

MINIMIZE YOUR MAINTENANCE COSTS

- 10 Ramdata II**
The Ramdata II service indicator is designed to help hammer operators and service personnel get information about the service interval status, service history and accumulated working history of the hammer.

- 11 Ramlube (Different options)**
Rammer offers two types of automatic tool greasing systems for its 1655 hammers:
Ramlube I - Machine-mounted
Ramlube II - Hammer-mounted
Both Ramlube devices provide correct greasing level to protect the tool and tool bushings and reduce owning and operating costs.
- 12 TS (Tool Saver) bushing**
All 1655 hammers can be equipped as a retrofit with a field replaceable insert that increases service life of the tool and tool bushing.



**Rammer hammer
1655**

RAMMER 1655



Minimum working weight, kg (lb)	1080 (2380)
Impact rate, bpm	500-920
Operating pressure, bar (psi)	135-145 (1960-2105)
Pressure relief, min bar (psi)	190 (2755)
Pressure relief, max bar (psi)	240 (3480)
Oil flow range l/min (gal/min)	90-130 (23.8-34.3)
Back pressure, max bar (psi)	10 (145)
Input power, kW (hp)	31 (42)
Tool diameter, mm (in)	115 (4.53)
Carrier weight, allowed range † (lb)	12-20 (26500-44100)
Noise level, measured sound power level, LWA, dB	123
Noise level, guaranteed sound power level, LWA, dB	127

RAMMER 777



Minimum working weight, kg (lb)	385 (850)
Impact rate, bpm	500-1700
Operating pressure	90-140 (1305-2030)
Pressure relief, max bar (psi)	220 (3190)
Oil flow range, l/min (gal/min)	40-120 (10.6-31.7)
Back pressure, max bar (psi)	30 (435)
Input power, kW (hp)	28 (38)
Tool diameter, mm (in)	80 (3.15)
Miniexcavator weight, allowed range † (lb)	4.0-9.5 (8800-20900)
Skid steer, robot weight, allowed range † (lb)	2.6-6.3 (5700-13900)
Noise level, measured sound power level, LWA, dB	120
Noise level, guaranteed sound power level, LWA, dB	124



Marketed & Serviced by:

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CIN: L99999MH1946PLC004768

Product improvement is a continuous process. Specifications given in this publication are therefore subject to change without notice. Photographs depicted may be of optional equipment.

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**RAMMER
R10P**

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PERFORMANCE LINE

RAMMER R10P

PROVEN
TECHNOLOGY



VIBRATION AND
SOUND SUPPRESSED

FULLY ENCLOSED,
HEAVY DUTY HOUSING

EXCELLENT POWER TO-
WEIGHT RATIO

NITROGEN PISTON
ACCUMULATOR

EASY TO SERVICE

OUR FEATURES – YOUR BENEFITS

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 of only a true Rammer hammer.

INCREASE YOUR PRODUCTIVITY

This is one of the most reliable hammers and always available for production. Powerful strokes from superior piston design. Piston Accumulator gives back energy and utilizes energy from return strokes. Optimum clearance between the hydraulic components, piston design, stone claw, etc. ensure that the customer return on investment is high by way of improved productivity.

SIMPLE AND SAFE

The breaker mechanism is inside the housing and is surrounded by rubber / plastic items. Hence, the breaker makes less noise and produces more rocks. It can be easily used in urban areas. The claws make it convenient to handle small boulders. The rubber parts inside the housing absorb maximum recoil forces from breaking action and protect the excavator.

EASE OF SERVICE & MAINTENANCE

Easy replacement of tool anywhere in a matter of minutes. Retaining pins are round and are free to rotate while the breaker is in operation. Membrane less technology. Very few spare parts in the breaker. Housing made of high quality, wear resistant steel.

Specification

Minimum working weight, kg	530
Impact rate, bpm	450–900
Operating pressure, bar	110–160
Pressure relief, min bar	200
Pressure relief, max bar	220
Oil flow range, l/min	50–95
Back pressure, max bar	15
Input power, kW	25
Tool diameter, mm	85
Carrier weight, allowed range, t	6–12
Noise level, measured sound power level, LWA, dB	119
Noise level, guaranteed sound power level, LWA, dB	123

TOOLS



Moil point tool



Chisel tool



Blunt tool



Pyramid tool

RAMMER RO12P

PERFORMANCE LINE



PROVEN
TECHNOLOGY

VIBRATION AND
SOUND SUPPRESSED

FULLY ENCLOSED,
HEAVY DUTY HOUSING

EXCELLENT POWER-
TO-WEIGHT RATIO

NITROGEN PISTON
ACCUMULATOR

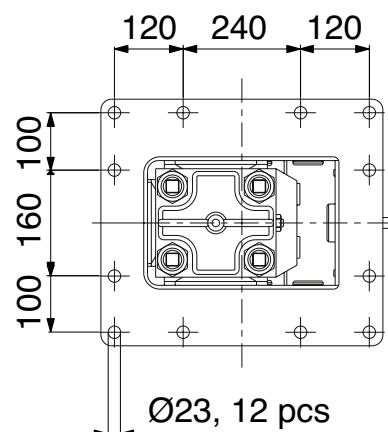
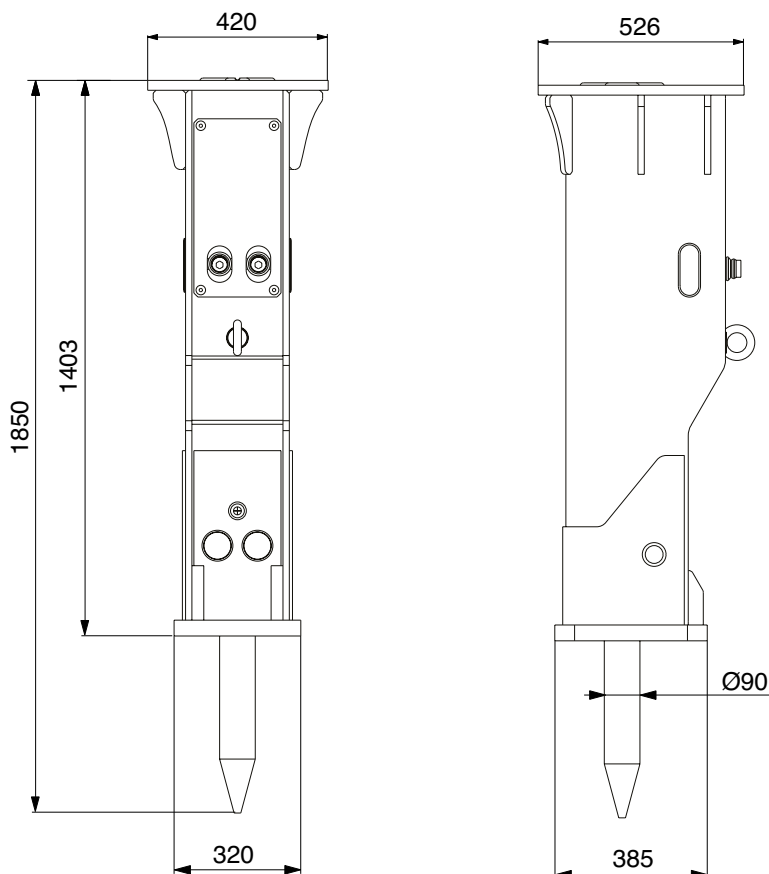
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Read more about the product from
www.rammer.com

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SPECIFICATIONS

Min. working weight, kg (lb)	820 (1 808)
Tool diameter, mm (in)	90 (3.54)
Oil flow range, l/min (gal/min)	60 - 100 (16 - 26)
Impact rate, bpm	300 - 750
Operating pressure, bar (psi)	120 - 160 (1 740 - 2 321)
Pressure relief, min, bar (psi)	200 (2 901)
Pressure relief, max, bar (psi)	220 (3 191)
Back pressure, max, bar (psi)	15 (218)
Input power, kW (hp)	27 (36)
Min excavator range, ton (lb)	9.0 - 14.0 (19 842 - 30 865)
Skid steer range, ton (lb)	N/A
Noise level measured sound power level, LWA, dB(A)	121
Noise level guaranteed sound power level, LWA, dB(A)	125

TOOLS



Moil point tool



Chisel tool

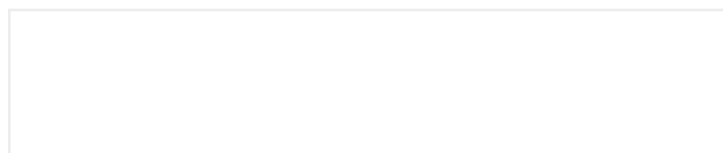


Blunt tool



Pyramid tool

Specifications are subject to change without notice



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RAMMER
R16P

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PERFORMANCE LINE

RAMMER R16P

PROVEN
TECHNOLOGY



VIBRATION AND
SOUND SUPPRESSED

IDLE BLOW PROTECTION
(FIELD ADJUSTABLE ON/OFF)

RAMLUBE II GREASING
SYSTEM

RAMDATA II SERVICE
INDICATOR

EXCELLENT POWER-TO-
WEIGHT RATIO

NITROGEN PISTON
ACCUMULATOR

PRESSURE DAMPENING
MEMBRANE ACCUMULATOR

QUICK CHANGE TOOL SYSTEM

EASY TO SERVICE

OUR FEATURES – YOUR BENEFITS

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INCREASE YOUR PRODUCTIVITY

Pressure Control Valve provided on the breaker ensures equal power in every stroke irrespective of flow fluctuations from the carrier. Very high input power, Membrane type high pressure accumulator, Piston Accumulator, optimum clearance between the hydraulic components, piston design, Idle Blow Protection ON / OFF provision, quick change tool system, stone claw, etc. ensure that customer return on investment is high by way of improved productivity.

EASE OF SERVICE & MAINTENANCE COSTS

Simple tool retaining system

Reliable, simple and easy replace of tool anywhere in a matter of minutes. Retaining pins are round in shape and are free to rotate while breaker is in operation. Single stage positive locking. Less spare parts, highly reliable and patented design. Very few drilled holes in the front head and housings make it stronger and quiet.

Ramlube II

Machine-mounted greasing device comes as standard. It provides correct greasing level to protect the tool and tool bushings and reduce owning and operating costs. One of the most reliable grease system in the industry.

Ramdata II

Records breaker operating data and maintenance data electronically. It also indicates service interval, so that field technician does not miss the regular service. The analysed data also useful in optimising the productivity and usage. This patented innovation comes as standard.



ACCESSORIES



Ramlube II
Lubrication system for optimum wear and impact protection.



Ramdata II
Gives information about service interval status, service history and accumulated working history.

Minimum working weight, kg	1120
Impact rate, bpm	280-860
Operating pressure, bar	160–180
Pressure relief, min bar	200
Pressure relief, max bar	220
Oil flow range, l/min	90–120
Back pressure, max bar	10
Input power, kW	36
Tool diameter, mm	110
Carrier weight, allowed range, t	13–21
Noise level, measured sound power level, LWA, dB	119
Noise level, guaranteed sound power level, LWA, dB	123

TOOLS



Moil point tool



Chisel tool



Blunt tool



Pyramid tool

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RAMMER
R25P

RAMMER
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PERFORMANCE LINE

RAMMER R25P



PROVEN
TECHNOLOGY

VIBRATION AND
SOUND SUPPRESSED

IDLE BLOW PROTECTION
(FIELD ADJUSTABLE ON/OFF)

RAMLUBE II GREASING
SYSTEM

RAMDATA II SERVICE
INDICATOR

EXCELLENT POWER-TO-
WEIGHT RATIO

NITROGEN PISTON
ACCUMULATOR

PRESSURE DAMPENING
MEMBRANE ACCUMULATOR

QUICK CHANGE TOOL SYSTEM

EASY TO SERVICE

OUR FEATURES – YOUR BENEFITS

UNBEATABLE PERFORMANCE

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EASE OF SERVICE & MAINTENANCE COSTS

Simple tool retaining system

Reliable, simple and easy replace of tool anywhere in a matter of minutes. Retaining pins are round in shape and are free to rotate while breaker is in operation. Single stage positive locking. Less spare parts, highly reliable and patented design. Very few drilled holes in the front head and housings make it stronger and quiet.

Ramlube II

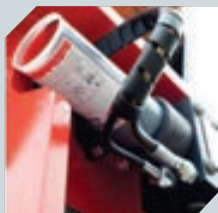
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ACCESSORIES



Ramlube II
Lubrication system for optimum wear and impact protection.



Ramdata II
Gives information about service interval status, service history and accumulated working history.

Minimum working weight, kg	1650
Impact rate, bpm	390–700
Operating pressure, bar	160–180
Pressure relief, min bar	200
Pressure relief, max bar	220
Oil flow range, l/min	130–170
Back pressure, max bar	10
Input power, kW	51
Tool diameter, mm	135
Carrier weight, allowed range, t	20–29
Noise level, measured sound power level, LWA, dB	121
Noise level, guaranteed sound power level, LWA, dB	125

TOOLS



Moil point tool



Standard chisel tool



Customized special tool



Blunt tool



Super blunt tool



Pyramid tool

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RAMMER
R35P

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PERFORMANCE LINE

RAMMER R35P

PROVEN
TECHNOLOGY



VIBRATION AND
SOUND SUPPRESSED

IDLE BLOW PROTECTION
(FIELD ADJUSTABLE ON/OFF)

RAMLUBE II GREASING
SYSTEM

RAMDATA II SERVICE
INDICATOR

EXCELLENT POWER-TO-
WEIGHT RATIO

NITROGEN PISTON
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PRESSURE DAMPENING
MEMBRANE ACCUMULATOR

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Ramlube II

Machine-mounted greasing device comes as standard. It provides correct greasing level to protect the tool and tool bushings and reduce owning and operating costs. One of the most reliable grease system in the industry.

Ramdata II

Records breaker operating data and maintenance data electronically. It also indicates service interval, so that field technician does not miss the regular service. The analysed data also useful in optimising the productivity and usage. This patented innovation comes as standard.



ACCESSORIES



Ramlube II
Lubrication system for optimum wear and impact protection.



Ramdata II
Gives information about service interval status, service history and accumulated working history.

Minimum working weight, kg	2320
Impact rate, bpm	400–700
Operating pressure, bar	160–180
Pressure relief, min bar	210
Pressure relief, max bar	230
Oil flow range, l/min	150–200
Back pressure, max bar	10
Input power, kW	60
Tool diameter, mm	150
Carrier weight, allowed range, t	27–40
Noise level, measured sound power level, LWA, dB	118
Noise level, guaranteed sound power level, LWA, dB	122

TOOLS

Mold point tool



Standard chisel tool



Customized special tool



Blunt tool



Super blunt tool



Pyramid tool



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RAMMER
R45P

RAMMER
R45P

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PERFORMANCE LINE

RAMMER R45P

PROVEN
TECHNOLOGY



VIBRATION AND
SOUND SUPPRESSED

IDLE BLOW PROTECTION
(FIELD ADJUSTABLE ON/OFF)

RAMLUBE II GREASING
SYSTEM

RAMDATA II SERVICE
INDICATOR

EXCELLENT POWERTO-
WEIGHT RATIO

NITROGEN PISTON
ACCUMULATOR

PRESSURE DAMPENING
MEMBRANE ACCUMULATOR

QUICK CHANGE TOOL SYSTEM

EASY TO SERVICE

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Ramlube II

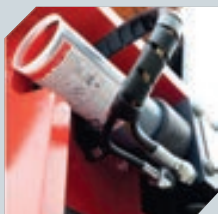
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ACCESSORIES



Ramlube II
Lubrication system for optimum wear and impact protection.



Ramdata II
Gives information about service interval status, service history and accumulated working history.

Minimum working weight, kg	3000
Impact rate, bpm	360–630
Operating pressure, bar	160–180
Pressure relief, min bar	210
Pressure relief, max bar	230
Oil flow range, l/min	200–250
Back pressure, max bar	10
Input power, kW	75
Tool diameter, mm	165
Carrier weight, allowed range, t	36–53
Noise level, measured sound power level, LWA, dB	120
Noise level, guaranteed sound power level, LWA, dB	124

TOOLS

Mold point tool



Standard chisel tool



Customized special tool



Blunt tool



Super blunt tool



Pyramid tool



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New Delhi 110 015
 Tel : (011) 41419555/59
 Fax : (011) 41419595/41419600

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501, Sakar Complex
 Opp. Gandhigram Rly. Stn.
Ahmedabad 380 009
 Tel : (079) 66304017/18, 26582536
 Fax : (079) 2658 0491

North Block II, First Floor,
 Gate No.1, Powai Campus,
 Sakhi Vihar Road, Powai (W)
Mumbai 400 072
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 Fax : (022) 67051510

Radhadaya Complex
 Near Charodar Complex,
 Old Padra Road, **Vadodara** 390 015
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 Fax : (0265) 2336 184

12, Shivaji Marg
 North Ambazari Road,
Nagpur 440 010
 Tel : (0712) 6606441/2260025
 Fax : (0712) 2420618

131/1 Zone II
 Maharana Pratap Nagar,
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 Tel : (0755) 4233913 / 914
 Fax : (0755) 2769264

Crystal Tower, IVth Floor
 G. E. Road, Telibandha
Raipur (CG) 492006
 Tel: 9752544407

II Floor, Vasantha Chambers
 5-10-173 Fateh Maidan Road
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38, Cubbon Road
Bengaluru 560 001
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 Ravipuram Junction, P.O.Box 1723,
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L&T Construction Campus
 TC-1 Building, 2nd Floor,
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Post Bag 7156
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