

**Ram
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NEW HAMMER LINE

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**Ram
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RAMMER
R25P

**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, Ramdata II and the fast change tool system make for easy servicing and an extended product life span.

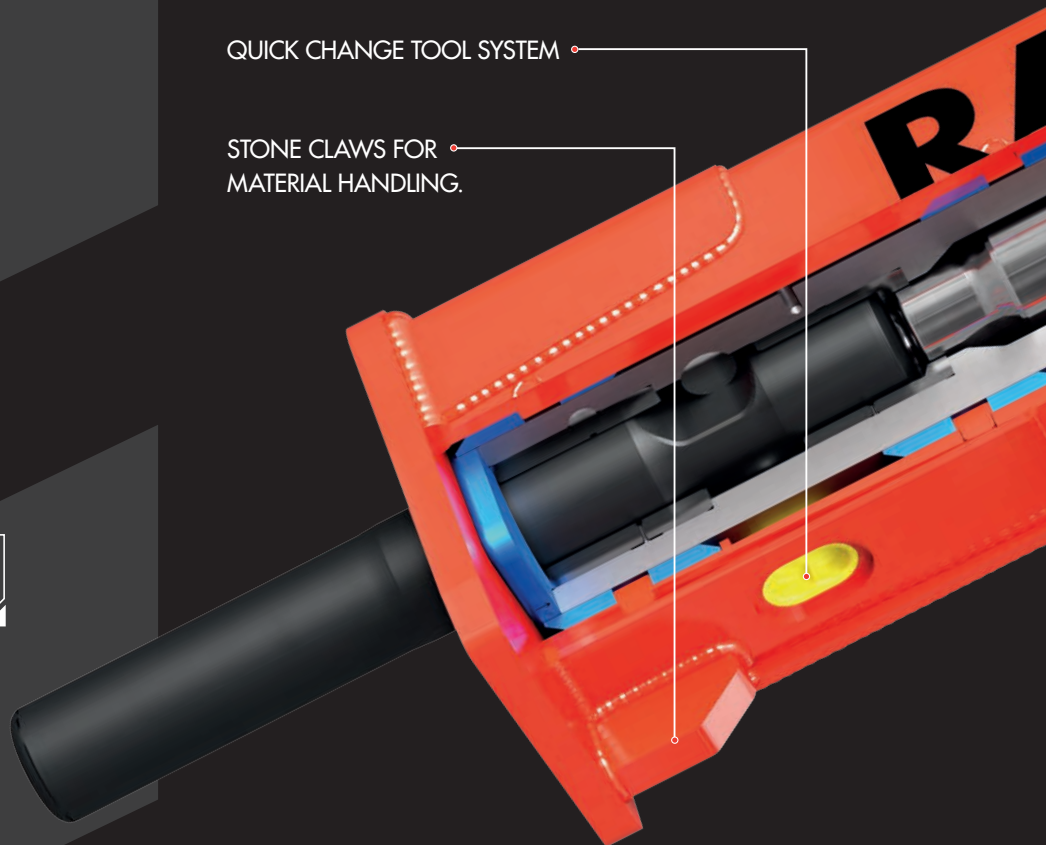
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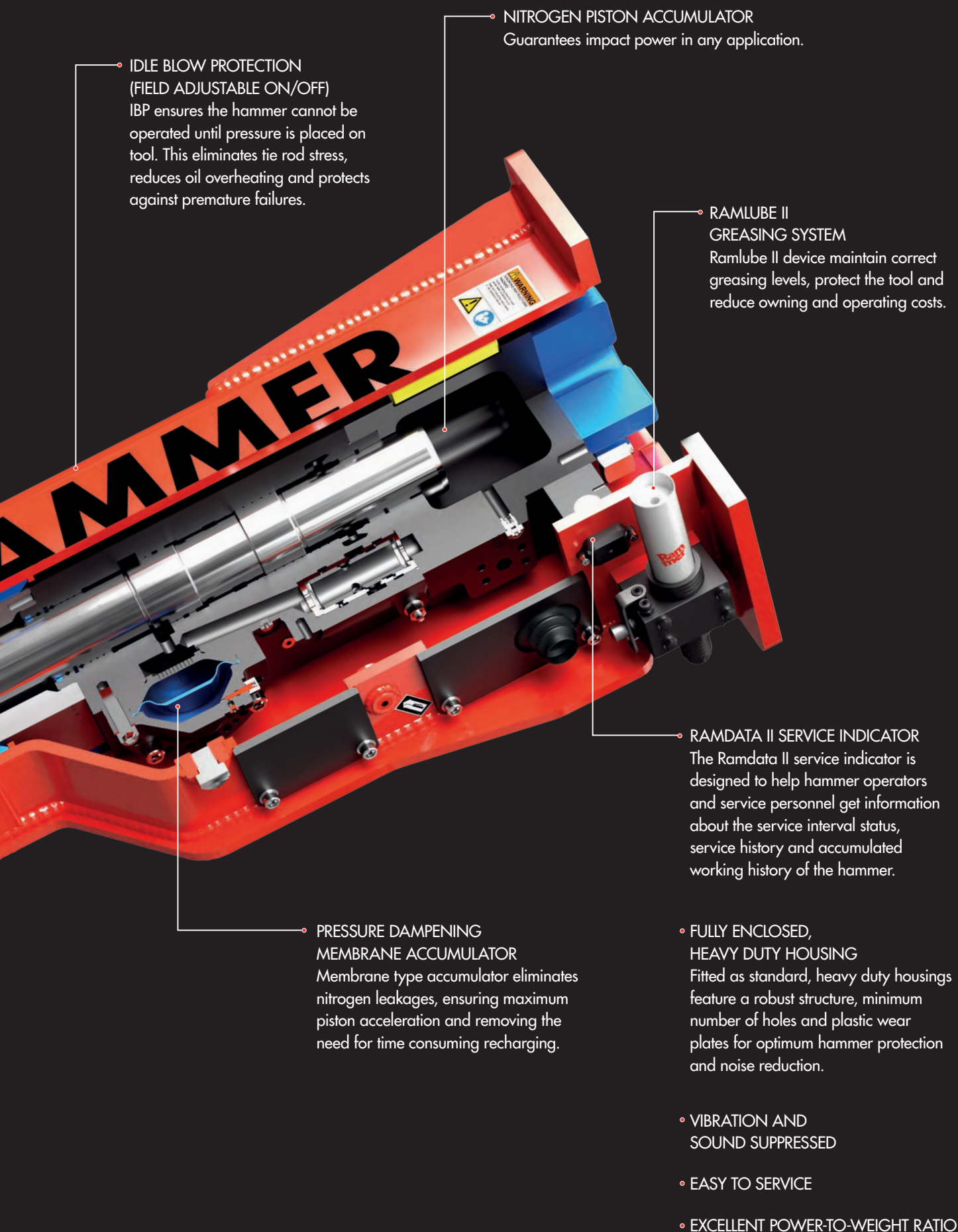
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QUICK CHANGE TOOL SYSTEM

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.

• **RAMDATA II SERVICE INDICATOR**
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.

• **PRESSURE DAMPENING
MEMBRANE ACCUMULATOR**
Membrane type accumulator eliminates nitrogen leakages, ensuring maximum piston acceleration and removing the 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**

SMALL HAMMERS



	R01P	R02P
Min. working weight, kg (lb)	95 (209)	130 (287)
Tool diameter, mm (in)	40 (1.57)	46 (1.81)
Oil flow range, l/min (gal/min)	15 - 25 (4 - 7)	15 - 40 (4 - 11)
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 (2 176)	150 (2 176)
Pressure relief, max, bar (psi)	170 (2 466)	170 (2 466)
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	111
Noise level guaranteed sound power level, LWA, dB(A)	114	115



	R03P	R04P
Min. working weight, kg (lb)	180 (400)	285 (628)
Tool diameter, mm (in)	53 (2.09)	60 (2.36)
Oil flow range, l/min (gal/min)	25 - 50 (7 - 13)	30 - 60 (8 - 16)
Impact rate, bpm	600 - 1200	550 - 1050
Operating pressure, bar (psi)	75 - 120 (1 088 - 1740)	70 - 130 (1 015 - 1 885)
Pressure relief, min, bar (psi)	150 (2 176)	150 (2 176)
Pressure relief, max, bar (psi)	170 (2 466)	170 (2 466)
Back pressure, max, bar (psi)	20 (290)	20 (290)
Input power, kW (hp)	10 (13)	13 (17)
Miniexcavator 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



	R05P	R07P
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 - 18)	45 - 90 (12 - 24)
Impact rate, bpm	400 - 1050	450 - 950
Operating pressure, bar (psi)	110 - 155 (1 595 - 2 250)	80 - 140 (1 160 - 2 031)
Pressure relief, min, bar (psi)	200 (2 901)	200 (2 901)
Pressure relief, max, bar (psi)	220 (3 191)	220 (3 191)
Back pressure, max, bar (psi)	15 (218)	15 (218)
Input power, kW (hp)	18 (24)	21 (28)
Min excavator 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)	115	117
Noise level guaranteed sound power level, LWA, dB(A)	119	121



	R10P	R12P
Min. working weight, kg (lb)	530 (1 168)	830 (1 830)
Tool diameter, mm (in)	85 (3.35)	90 (3.54)
Oil flow range, l/min (gal/min)	50 - 95 (13 - 25)	60 - 100 (16 - 26)
Impact rate, bpm	450 - 900	380 - 750
Operating pressure, bar (psi)	110 - 160 (1 595 - 2 311)	100 - 160 (1 450 - 2 320)
Pressure relief, min, bar (psi)	200 (2 901)	200 (2 901)
Pressure relief, max, bar (psi)	220 (3 191)	220 (3 191)
Back pressure, max, bar (psi)	15 (218)	15 (218)
Input power, kW (hp)	25 (34)	27 (36)
Miniexcavator range, ton (lb)	6 - 12 (13 200 - 26 500)	9 - 14 (19 800 - 30 900)
Skid steer range, ton (lb)	4 - 7.5 (8 800 - 16 500)	N/A
Noise level measured sound power level, LWA, dB(A)	119	121
Noise level guaranteed sound power level, LWA, dB(A)	123	125

MEDIUM AND LARGE HAMMERS



	R18P	R25 P
Min. working weight, kg (lb)	1240 (2730)	1650 (3640)
Tool diameter, mm (in)	120 (4.72)	135 (5.31)
Oil flow range, l/min (gal/min)	100 - 140 (26.4 - 37)	130 - 170 (34.3 - 44.9)
Impact rate, bpm	280 - 760	390 - 700
Operating pressure, bar (psi)	160 - 180 (2320 - 2610)	160 - 180 (2320 - 2610)
Pressure relief, min, bar (psi)	200 (2900)	200 (2900)
Pressure relief, max, bar (psi)	220 (3190)	220 (3190)
Back pressure, max, bar (psi)	10 (145)	10 (145)
Input power, kW (hp)	42 (56)	51 (68)
Carrier weight, allowed range, t (lb)	20 - 29 (44092 - 63934)	15 - 23 (33069 - 50706)
Noise level measured sound power level, LWA, dB(A)	119	121
Noise level guaranteed sound power level, LWA, dB(A)	123	125



	R35P	R45P
Min. working weight, kg (lb)	2320 (5110)	2950 (6500)
Tool diameter, mm (in)	150 (5.91)	165 (6.50)
Oil flow range, l/min (gal/min)	150 - 200 (39.6 - 52.8)	200 - 250 (52.8 - 66.0)
Impact rate, bpm	400 - 700	360 - 630
Operating pressure, bar (psi)	160 - 180 (2320 - 2610)	160 - 180 (2320 - 2610)
Pressure relief, min, bar (psi)	210 (3045)	210 (3045)
Pressure relief, max, bar (psi)	230 (3335)	230 (3335)
Back pressure, max, bar (psi)	10 (145)	10 (145)
Input power, kW (hp)	60 (80)	75 (101)
Carrier weight, allowed range, t (lb)	27 - 40 (59524 - 88184)	36 - 53 (79366 - 116844)
Noise level measured sound power level, LWA, dB(A)	118	124
Noise level guaranteed sound power level, LWA, dB(A)	122	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.



Ramdata II

The Ramdata II service indicator is designed to help hammer operators and service personnel to get information about the service interval status, service history and accumulated working history of the hammer. Ramdata II is a standard feature to Rammer R18P and larger models.

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



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