

NPK[®]

Concrete Cruncher



NPK[®]

a division of Nippon Pneumatic Mfg. Co. Ltd. Osaka Japan

www.npke.eu

EXTREME POWER - AMAZING PRODUCTION

Main advantage of the Cruncher is the standard integrated booster system, a unique feature designed by NPK. This booster system automatically activates whenever the jaws meet resistance. Compared to competitive crushers without such a booster, the pressure intensifier system has a relatively low oil flow and produces faster cycle times and more crushing strength.

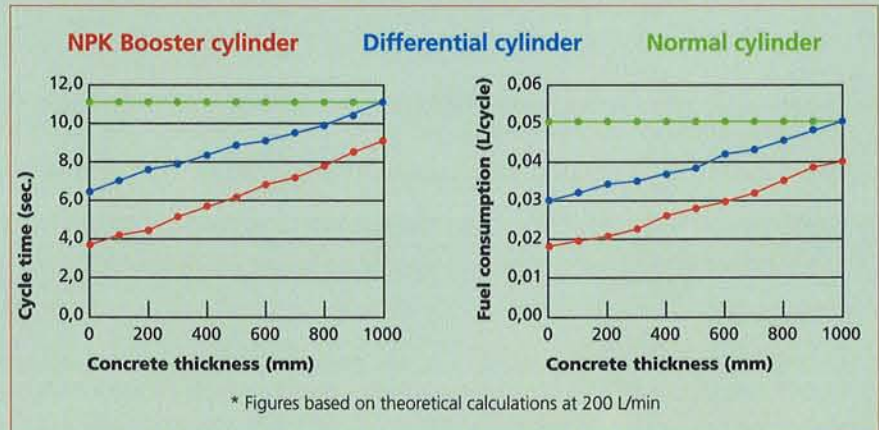
Additionally, other excavator's functions remain uninfluenced. The integral booster allows a compact body design, reduces the total weight of the attachment and affords ease of maintenance.

The cruncher is specifically designed to reduce oversize concrete pieces from ground level after they have been demolished. Simultaneously the reinforced steel will be separated from the concrete on site! This results in a significant reduction of transport costs and recycling becomes much more efficient.



NPK POWERBOOSTER COMPARED WITH NORMAL CYLINDER AND DIFFERENTIAL CYLINDER*

Calculations show that the cycle time of a NPK booster cylinder defeats crushers with a normal cylinder or differential cylinder. The job is finished earlier, the profit is yours. Besides more production and more power, a shorter cycle time also results in less fuel consumption. A reduction of 25-50% per cycle is realistic!



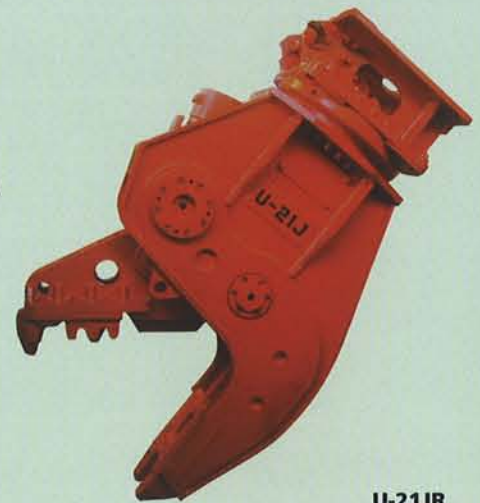
ADVANTAGES

- Standard Integrated booster system that automatically activates when the jaws meet resistance.
- Easy maintenance.
- Bolt on teeth: easy teeth replacement.
- Large jaw opening.
- Piston rod fully protected against damage.
- Low oil flow – other functions of excavator are not influenced.
- Short opening/closing time (3.2 sec.) in unloaded condition, produces 19 cycles a minute.
- G-21R, U-21JR and U-31JR: hydraulic rotation 360° for precise positioning.
- High productivity and extreme power.
- Designed and produced by the world's largest manufacturer of boom mounted attachments.
- Standard rebar cutters.
- No additional pressure reduction is required in the hydraulic system.
- Worldwide sales and product support network.



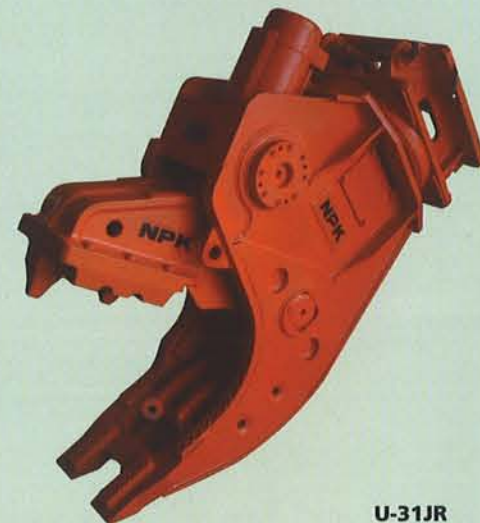
G-18J

Excavator weight : 17 - 22 ton



U-21JR

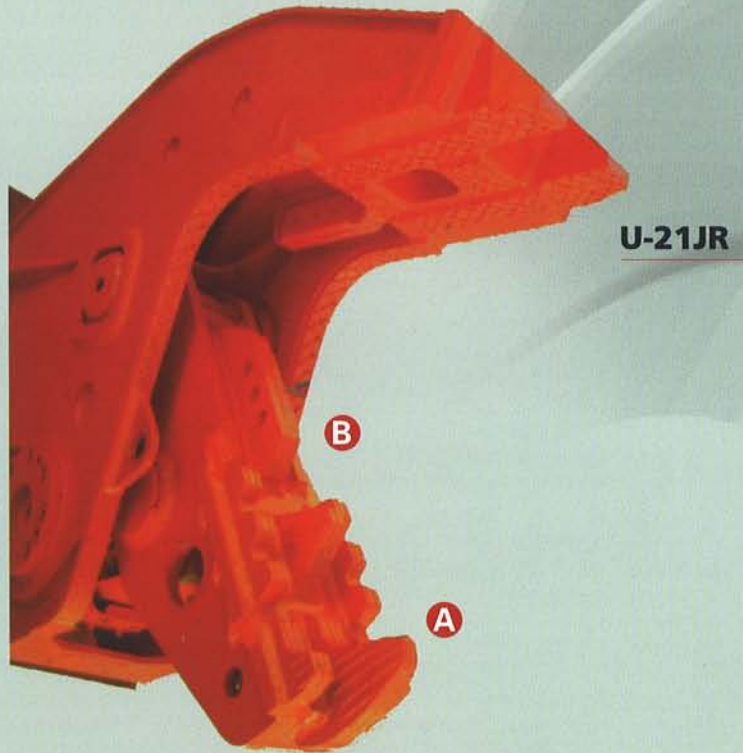
Excavator weight : 19 - 28 ton



U-31JR

Excavator weight : 29 - 48 ton

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TECHNICAL SPECIFICATIONS

MODEL	Excavator weight t	Operating weight kg	Max. jaw opening mm	Working pressure MPa	Oil flow l/min	Rotation pressure MPa	Rotation oil flow l/min	Max. force (A) kN	Max. force (B) kN
G-18J	17 - 22	2054	823	26	100 - 200	X	X	820	1060
G-21R	17 - 21	2100	750	26	100 - 200	14	10 - 15	550	715
G-28	22 - 30	2860	1000	28	100 - 250	X	X	1160	1530
U-21JR	19 - 28	2225	800	26	100 - 200	14	10 - 15	645	885
U-31J	29 - 48	2880	980	28	100 - 250	X	X	1150	1540
U-31JR	29 - 48	3335	980	28	100 - 250	14	10 - 15	1150	1540
U-45R	45 - 50	4500	1130	30	175 - 275	14	20 - 30	1260	1710

HIGH SPEED

MODEL	Opening time sec.	Closing time sec.	Total cycle time sec.	Number of cycles n/min	Oil flow l/min
G-18J	0,9	2,3	3,2	19	200
G-21R	0,9	2,3	3,2	19	200
G-28	1,6	2,9	4,5	13	250
U-21JR	1,2	1,6	2,8	21	200
U-31J	1,6	2,9	4,5	13	250
U-31JR	1,6	2,9	4,5	13	250
U-45R	2,4	3,0	5,4	11	275

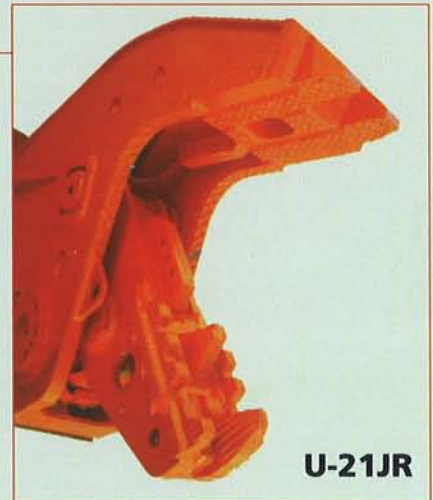
Specifications subject to change without prior notice



G-SERIES AND U-SERIES

The crushing cruncher

Compared to NPK's G-series, the new U-series shows important differences: one big center tooth. Because of the center tooth, all forces are concentrated to one point, which makes the U-series act also as a crusher. Besides that, the U-series has also a cutter for cutting light steel structures, beside rebar. Another advantage of the U-series is the 360° hydraulic rotation, allowing great manoeuvrability. Together with the center tooth and cutter the U-series is an ideal tool for crushing and cutting walls, floors and light steel structures, such as apartments, reinforced walls, etc.



BOLT ON TEETH

All models are equipped with bolt on teeth, leading to easier replacement.

The cruncher can remain on site while the teeth are changed or removed for refurbishment.

Down time is therefore kept to an absolute minimum, greatly enhancing production.



HYDRAULIC HAMMERS

CONCRETE CRUSHERS

CONCRETE CRUNCHERS



MULTI-PROCESSORS

DEMOLITION GRABS



COMPACTORS

X-Y-Z CONCEPT

SHEET PILERS

DEALER

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