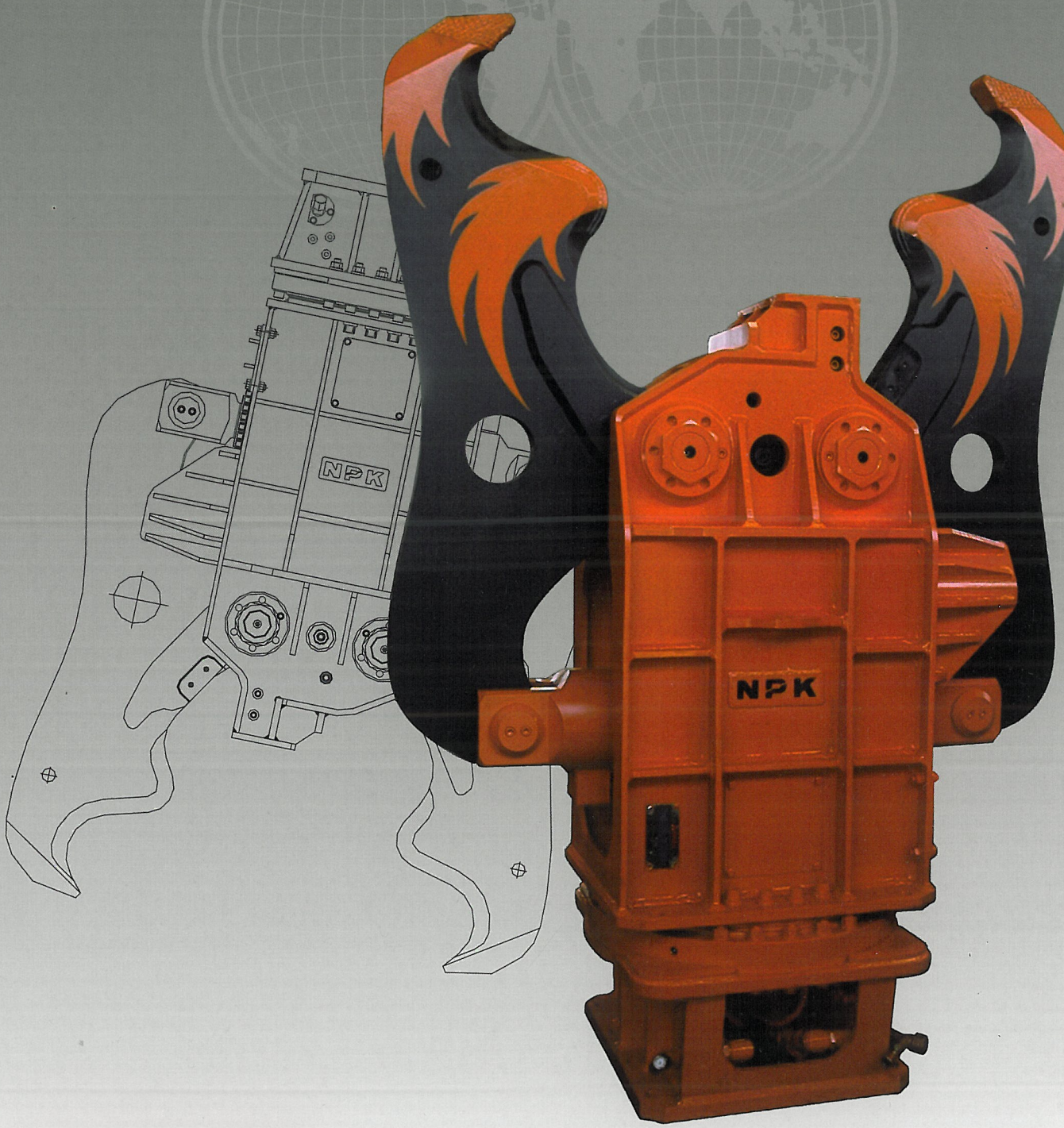
NPK®

Concrete Crusher



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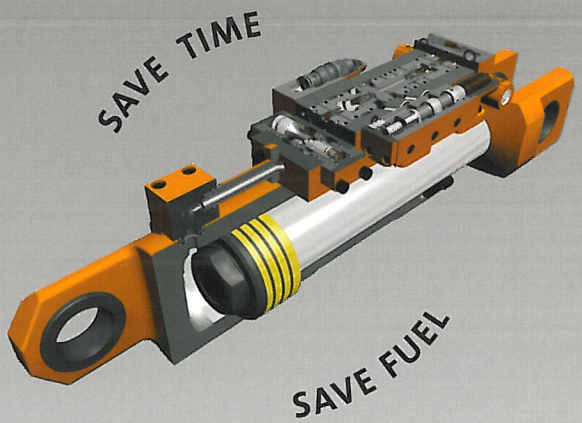
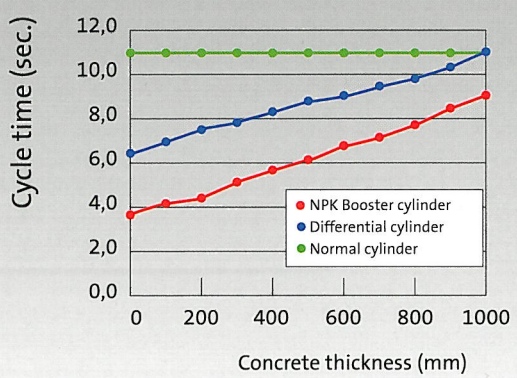
MORE POWER – MORE PRODUCTION

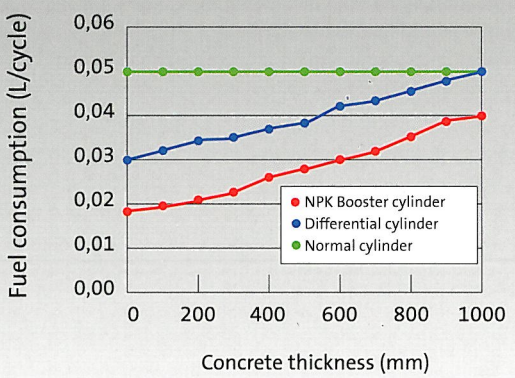
The main cylinder is designed so whenever the jaws meet resistance, the hydraulic booster is automatically activated. The pressure intensifier system has a relatively low oil flow; which produces faster cycle times and more crushing strength when compared to competitive crushers without a booster system. Additionally, other excavator´s functions remain uninfluenced by this system. The integral booster reduces the total weight of the attachment, which allows a compact body design and affords ease of maintenance.

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!







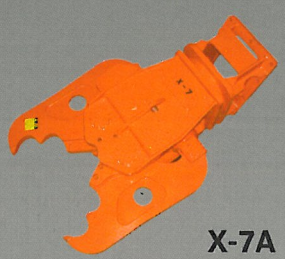
* Figures based on theoretical calculations at 200 L/min

FEATURES

- Only NPK offers an exclusive integrated booster system that automatically activates when the jaws meet resistance.
- New SV-serie designed with double cylinder and double booster
- New design small crushers X-serie
- Low weight, long reach.
- Large jaw opening.
- Arm/Dipperstick mounted.
- Piston rod and hoses fully protected inside the crusher´s frame.
- Slim-line design.
- 13 Models available to suit excavators from 1,3 - 100 tons.
- Fast opening/closing times from 2.3 sec´s, in unloaded condition, produces 26 cycles a minute.
- Most models have 360°free hydraulic rotation.
- X-1 – X-7A are standard with 360° mechanical rotation.
- Maintenance friendly.
- Reinforced steel cutters are standard.
- Low oil flow, ensures other functions of the excavator are not influenced.
- Excellent stability even for high-lift demolition.
- Reliable and efficient.
- No additional pressure reduction is required in the hydraulic system.

X-1

Excavator weight: 1,3 – 2 ton



X-7A

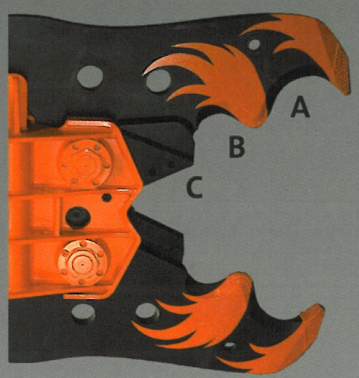
Excavator weight: 6 – 9 ton

S-23XCR

Excavator weight: 19 – 21 ton

SV-65XR

Excavator weight: 60 – 70 ton

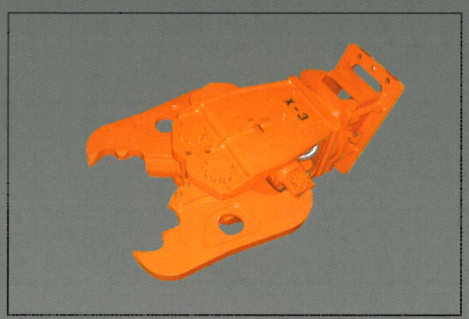


TECHNICAL SPECIFICATIONS

Model	X-1	X-3A	X-4A	X-7A	S-13XCR	S-16XCR	S-23XCR
Excavator weight (t)	1,3 - 2,0	2,5 - 4,0	3,5 - 5,5	6 - 9	10 - 15	14 - 18	19 - 21
Operating weight (kg)	130	280	350	670	1485	1820	2290
Max. jaw opening (mm)	260	354	460	550	810	850	1020
Working pressure (MPa)	21	21	21	25	25	25	28
Oil flow (l/min)	20 - 30	30 - 50	30 - 50	50 - 80	80 - 150	80 - 150	100 - 200
Rotation pressure (MPa)	x	x	x	x	14	14	14
Rotation oil flow (l/min)	x	x	x	x	10 - 15	10 - 15	10 - 15
Max. force (A) (kN)	240	320	330	490	660	710	890
Max. force (B) (kN)	x	480	500	771	1070	1150	1390
Max. force (C) (kN)	860	920	1050	1560	1580	1850	2910
HIGH SPEED							
Opening time (sec.)	0,9	0,8	1,0	1,1	1,6	1,8	2,0
Closing time (sec.)	1,7	1,5	1,9	2,1	2,3	2,5	2,5
Total cycle time (sec)	2,6	2,3	2,9	3,2	3,9	4,3	4,5
Number of cycles (n/min)	23	26	21	19	15	14	13
Oil flow (l/min)	30	50	50	80	150	150	200

Model	S-24XCR	S-36XCR	S-42XCR	SV-24XR	SV-65XR	SV-100XR
Excavator weight (t)	19 - 27	29 - 38	39 - 48	19 - 27	60 - 70	80 - 100
Operating weight (kg)	2520	3680	4420	2550	6625	9200
Max. jaw opening (mm)	1100	1355	1500	1100	2000	2200
Working pressure (MPa)	25	25	25	28	26	28
Oil flow (l/min)	100 - 200	150 - 250	175 - 275	100 - 200	200 - 300	200 - 300
Rotation pressure (MPa)	14	14	14	14	14	14
Rotation oil flow (l/min)	10 - 15	20 - 30	20 - 30	10 - 15	20 - 30	20 - 40
Max. force (A) (kN)	1000	1400	1520	1100	2180	2660
Max. force (B) (kN)	1570	2200	2470	1620	3250	4200
Max. force (C) (kN)	3350	3800	4200	3650	5780	7350
HIGH SPEED						
Opening time (sec.)	2,0	2,9	3,0	2,2	3,8	5,7
Closing time (sec.)	3,5	3,8	4,4	4,0	8,5	11,8
Total cycle time (sec)	5,5	6,7	7,4	6,2	12,3	17,5
Number of cycles (n/min)	11	9	8	10	5	3
Oil flow (l/min)	200	250	275	200	300	300

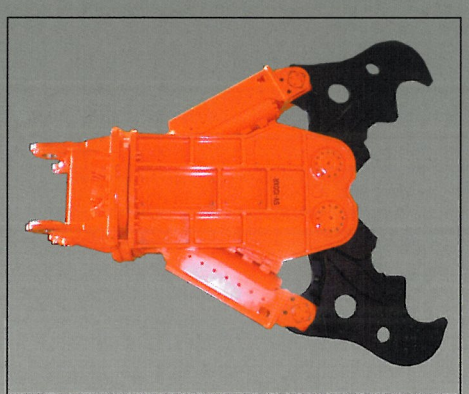
Technical specifications subject to change without prior notice



X-series

X-serie

- Built-in booster! Cylinder with integrated booster.
- Less weight by compact design
- New tooth design with carbide sprayed coating.



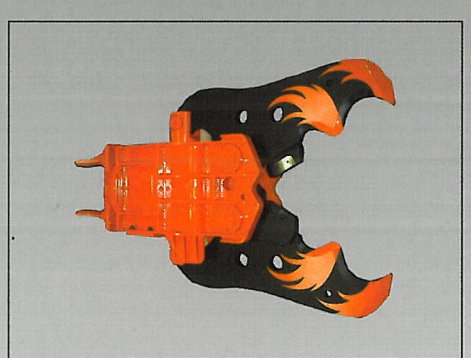
SV-series

SV-serie

- Two cylinders with boosters.
- High power – low mass
- Steel casting arms
- Extremely powerfull in its class
- Good visibility
- Less power loss during closing

LONG REACH DEMOLITION

Used in long reach demolition, the crushers show their advantages even more. The slim design offers better visibility for the operator and reduces the chance of debris falling into or onto the crusher.
Also the NPK Booster system is unaffected by the back pressure in the return hoses. This is extremely important, since back pressure in the long hoses can influence the correct functioning of the hydraulic system and causes loss of power and speed.



S-XC serie

NEW SHAPE LEADS TO MORE PRODUCTIVITY

The shape of the arms of the NPK C-type crusher results in the improvement of the crushing ability and durability of the arms. The curved tip and sharp cutting edges lead to real cutting of the concrete, instead of crunching it. Due to the sharp, hard faced tips and cutting edges, the arms cut more easily into the concrete than the conventional arm shape. This combination of a new shape of the tips, the sharp cutting edges and the hard faced crushing area leads to more efficiency and productivity. Equipped with NPK booster system the new NPK C-type arms are providing maximum crushing force and a minimum of cycle times.

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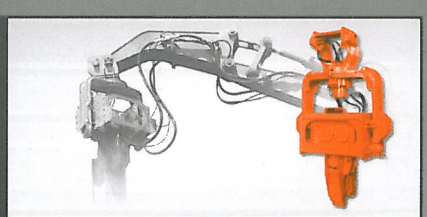
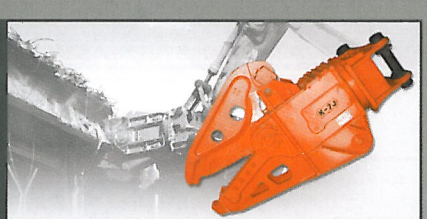
HYDRAULIC HAMMERS

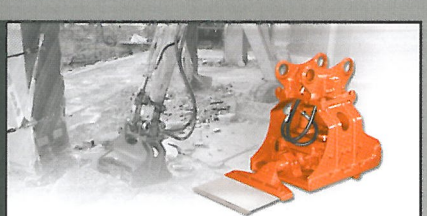
SHEET PILERS



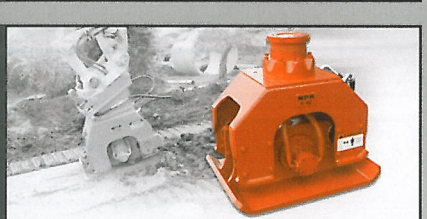
STEEL SHEARS



X-Y-Z CONCEPT



COMPACTORS



CRUNCHERS

CRUSHERS

DEMOLITION GRABS

MULTI-PROCESSORS

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