

BOOSTER BBH014 - BBH020 - BBH031 CU007 - CU008



Productivity and time saving for your demolition sites

The booster option can be equipped on the concrete crusher BBH014 - BBH020 - BBH031 for excavators from 13 to 39 tonnes and on the universal shears CU007 and CU008 for excavators from 6 to 13 tonnes. It improves the performance of the equipment.

The booster starts as soon as the jaws meet resistance. As a pressure multiplier, it acts as a catalyst that optimises the working force of the attachment, thus significantly reducing the working cycles. With the booster it is the guarantee of a more productive work in a reduced time.

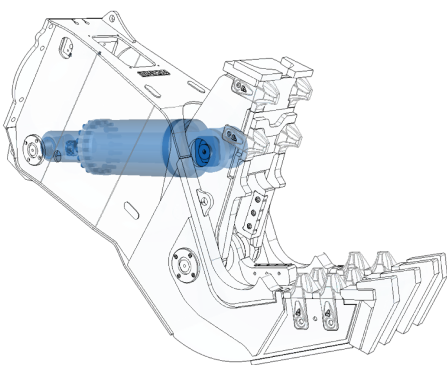
Compatibility is right here

Particularly suitable for quick release users, the booster offers outstanding compatibility with the maximum pressure settings of various other attachment. Optimal operation without compromising safety is ensured, thus providing greater flexibility in the use of the equipment.

For concrete crusher, it is recommended to set your tool to 330 bar for optimal operation. However, the booster accepts up to 350 bar input and is self-regulating.

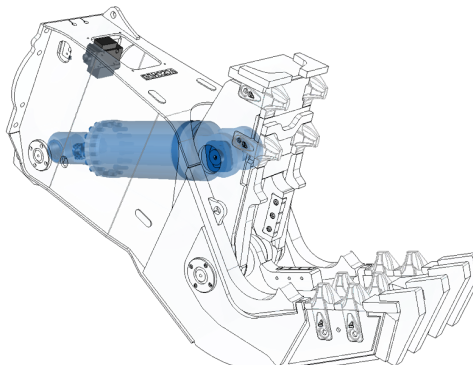
Comparison between models

Standard
Hydraulic Concrete Crusher



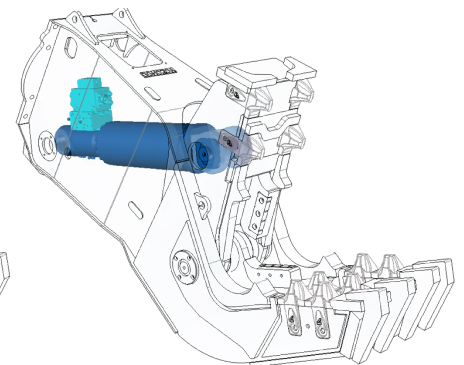
standard cylinder

Hydraulic Concrete Crusher
with Speedvalve



standard cylinder

Hydraulic Concrete Crusher
with Booster

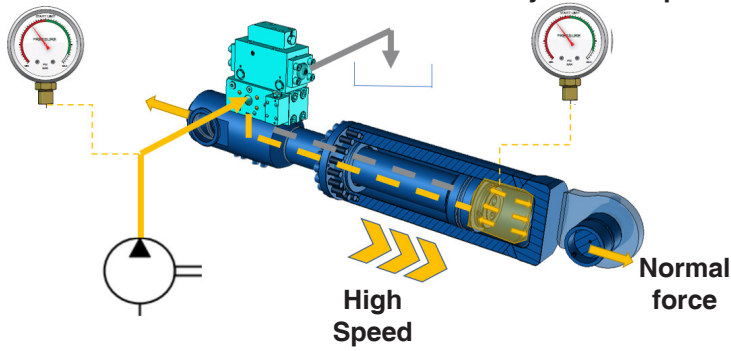


smaller cylinder size



Mode of operation of the cylinder equipped with the booster

$P_p < 270 \text{ bar}$



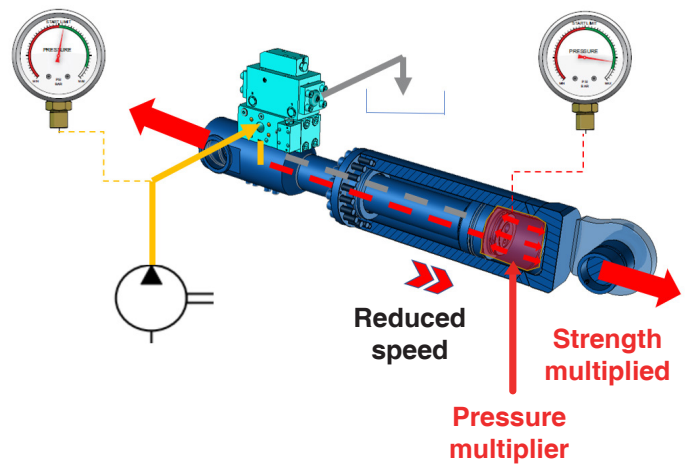
Speed Mode

When the pressure is below 270 bar, the booster doesn't operate. The tool provides a normal force.

$270 \text{ bar} < P_p < 330 \text{ bar}$

Booster Mode

When pressure reaches 270 bar, the booster starts to operate and generates a multiplied force when the jaws are closing.

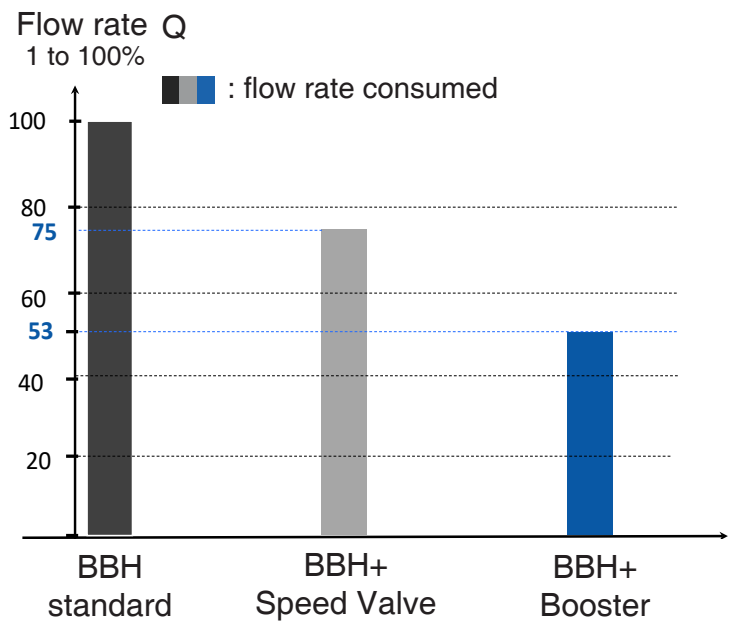


Comparison for the same cycle time

Example for the BBH020

The booster cylinder being smaller will require less flow from the pump for the same cycle time.

47% energy savings compared to the standard hydraulic concrete crusher.

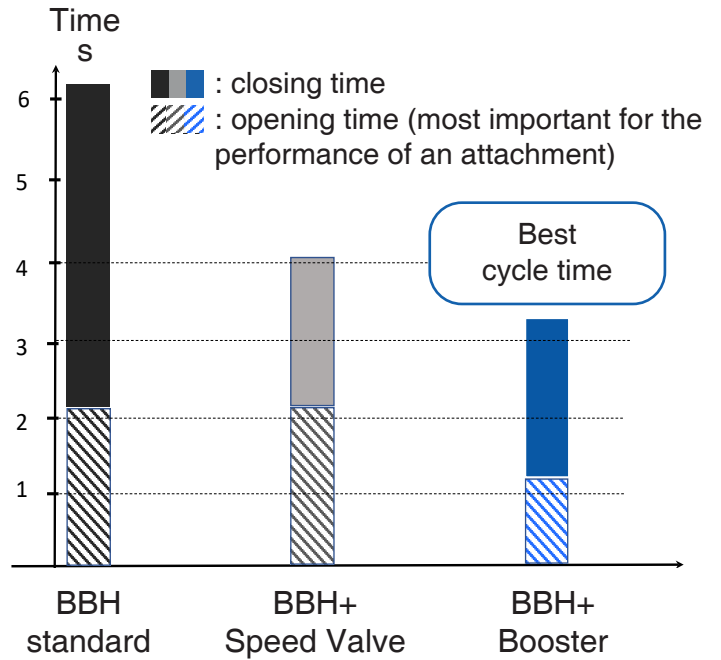


Comparison for the same pump flow

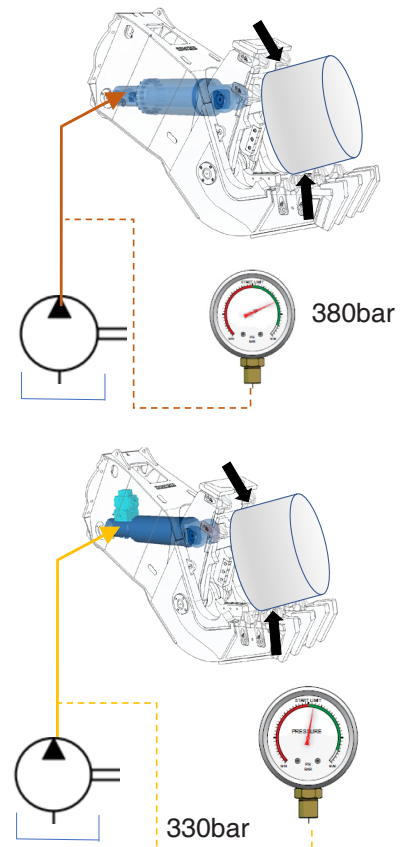
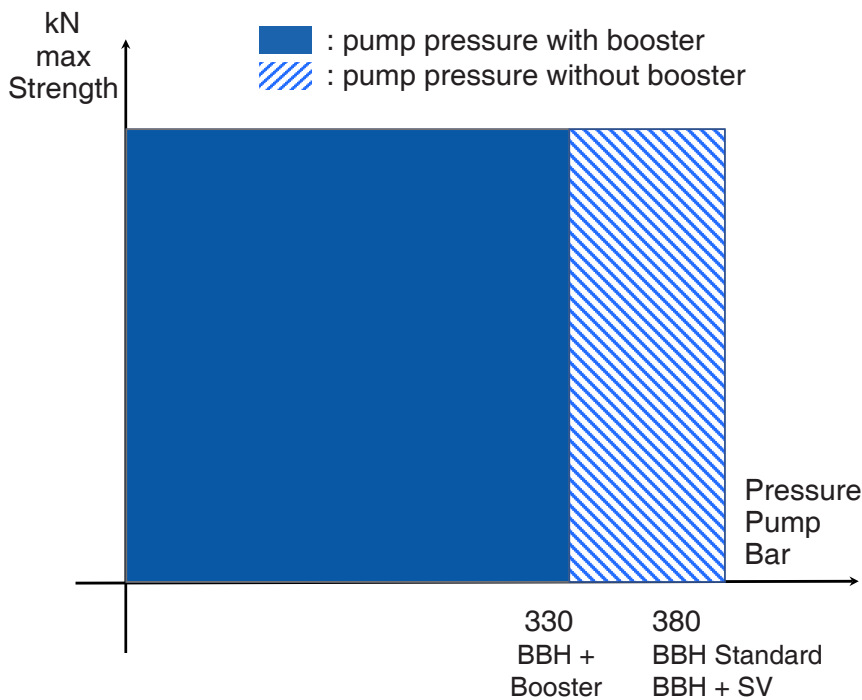
Example for BBH020

The cycle time represents the closing time added to the opening time.

With the booster, the hydraulic concrete crusher has a better cycle time thanks to its triggering as soon as the tool encounters resistance. The small cylinder capacity reduces cycle opening time.

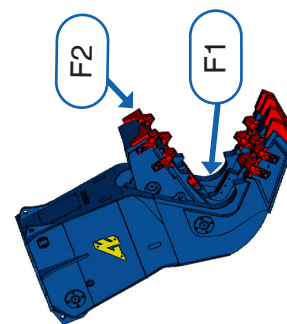


Comparison for the same maximum effort



With the booster, the hydraulic concrete crusher reaches its maximum strength at 330 bar, which is an energy saving of 15% compared to the standard BBH.

Fixed	Rotation	Reference	Cylinder data		Cycle times						Couples and forces								
			Pressure in cylinder max	Max cylinder flow	Jaw opening time	Jaw closure time	Closing time with SpeedValve	Total cycle time without SV	Total cycle time with SV	Max Forces F1	Max Forces F2								
			bar	l/min	s	s	s	s	s	t	t								
T																			
13 - 22	16 - 22	BBH014	380	200	1,8	3,4	-	5,3	-	310	75								
		BBH014 - SPEEDVALVE	380	200	1,8	-	1,6	-	3,4	-	310	75							
		BBH014A - BOOSTER	280 min / 330 max	180	1,2	2,0	-	3,2	-	278 min / 328 max	67 min / 79 max								
		BBH020	380	250	2,2	4,1	-	6,3	-	386	87								
		BBH020 - SPEEDVALVE	380	250	2,2	-	1,9	-	4,1	-	386	87							
		BBH020A - BOOSTER	280 min / 330 max	250	1,1	2,2	-	3,3	-	347 min / 409 max	78 min / 92 max								
		BBH031	380	400	2,0	3,7	-	5,7	-	469	121								
		BBH031 - SPEEDVALVE	380	400	2,0	-	1,7	-	3,7	-	469	121							
		BBH031A - BOOSTER	280 min / 330 max	350	1,2	2,2	-	3,4	-	420 min / 496 max	108 min / 128 max								
		SCRAP AND CONCRETE SHEAR - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	167	46							
		SCRAP AND CONCRETE SHEAR - BOOSTER	500	100	1,4	2,3	-	3,6	-	184	50								
		CONCRETE SHEAR - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	160	43							
		CONCRETE SHEAR - BOOSTER	500	100	1,4	2,3	-	3,6	-	176	45								
		SCRAP SHEAR - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	150	52							
		SCRAP SHEAR - BOOSTER	500	100	1,4	2,3	-	3,6	-	162	56								
		CONCRETE CRUSHER - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	160	37							
		CONCRETE CRUSHER - BOOSTER	500	100	1,4	2,3	-	3,6	-	176	40								
		SCRAP AND CONCRETE SHEAR - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	167	46							
		SCRAP AND CONCRETE SHEAR - BOOSTER	500	100	1,4	2,3	-	3,6	-	184	50								
		CONCRETE SHEAR - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	160	43							
		CONCRETE SHEAR - BOOSTER	500	100	1,4	2,3	-	3,6	-	176	45								
		SCRAP SHEAR - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	150	52							
		SCRAP SHEAR - BOOSTER	500	100	1,4	2,3	-	3,6	-	162	56								
		CONCRETE CRUSHER - SPEEDVALVE	300	100	2,2	-	1,5	-	3,7	-	160	37							
		CONCRETE CRUSHER - BOOSTER	500	100	1,4	2,3	-	3,6	-	176	40								



Cycle times are given for the maximum permissible flow rates.
Forces are given for maximum permissible pressures.



+33 (0)3 24 33 64 30
contact@arden-equipment.com
9 avenue de l'Industrie FR - 08000 Charleville-Mézières
www.arden-equipment.com

