HITACHI

Reliable solutions

Hitachi breakers

High-performance hydraulic breakers approved by Hitachi for a wide range of Zaxis excavators





12

B85

Hitachi Construction Machinery (Europe) NV

Perfect fit

Hitachi has introduced a range of hydraulic breakers that are perfectly suited to its Zaxis mini, medium and large excavators. They can be fitted and maintained professionally by authorised Hitachi technicians to ensure a high level of performance. Investing in Hitachi-approved attachments for your excavator brings you peace of mind from dealing with one brand of construction equipment through your local Hitachi dealer.

High quality

The materials and the production process used to manufacture Hitachi breakers are of the highest quality. As a result, the breakers are lightweight, with higher-than-ever impact energy.

User-friendly

The slim design of the breakers ensures easy accessibility in demolition and quarrying applications. It provides high efficiency in trench work. The top damper also reduces noise and vibration.

Improved durability

Hitachi breakers are designed to work longer and more efficiently than other brands on the market. The floating rod seal minimises dust intake and results in an extended lifetime.

Easy to maintain

The mono-block cylinder has been specially developed to reduce the number of parts in the attachment - No through bolts are used, but this is not applicable for HB65, HB85 and the HB690 and HB890 models are required, for example. Parts such as the rod pin are durable and easy to replace.

Low cost of ownership

High-quality materials ensure the breaker has a long lifetime, which means reduced maintenance costs and fewer replacement parts. This also brings the added benefit of minimal downtime.



Specifications



Breaker specifications										
Model	Machine	Weight	Require f	low L/min	Operating Pressure Mpa					
	weight	(kg)	Min	Max	Low	High				
HB10	0.5-1.5 ton	69	10	28	10	14				
HB19	1.0-2.5 ton	112	18	35	10	14				
HB30	1.4-4.0 ton	157	24	52	12	16				
HB38	2.5-5.5 ton	208	30	60	12	16				
HB50	4.0-7.0 ton	280	40	85	12	16				
HB65	3.5-10 ton	350	50	150	10	16				
HB85	6.0-12 ton	535	45	150	12	17				
HB130	9.0-16 ton	850	70	120	16	18				
HB160	12-21 ton	1000	100	160	16	18				
HB210	16-24 ton	1600	125	190	16	18				
HB250	20-30 ton	1800	145	220	16	18				
HB350	25-42 ton	2525	170	260	16	18				
HB490	33-55 ton	3250	200	300	16	18				
HB690	44-75 ton	4800	250	340	16	18				
HB890	65-100 ton	6550	280	420	16	18				

Machine perfomance and breaker matching, flow pressure and max breaker weight								
	Oil flow (one pump)	System pressure	Max breake	Allowed breaker models				
	L/min		Standard arm	Long arm				
ZX10	10.6	17.7	80	60	HB10			
ZX17/19	19.2	20.6	140		HB19			
ZX26	30	25.4	180		HB30			
ZX33	38.4	25.4	220	190	HB30			
ZX38	38.4	25.4	280	240	HB38			
ZX48	85	25.4	350	320	HB38/HB50			
ZX55	85	25.4	400	360	HB50/HB65			
ZX65	91	25.4	500	450	HB50/HB65			
ZX85US	136.8	26	750		HB65/HB85			
ZX85USB	136.9	26	600		HB65/HB85			
ZX135W	117	34.3	1150	1	HB130/HB160			
ZX130/135	117	34.3	1150		HB130/HB160			
ZX150W/155W	117	34.3	1150		HB130/HB160			
ZX160	180	34.3	1350		HB160			
ZX175W	157	34.3	1150		HB160			
ZX180W	157	34.3	1250		HB160			
ZX180	212	34.3	1450		HB160			
ZX210/225/240	212	34.3	1750		HB210			
ZX220W	212	34.3	1750		HB210			
ZX250LCN	224	34.3	2150		HB210/HB250			
ZX250LC	224	34.3	2400		HB250			
ZX300	236	34.3	2600		HB250/HB350			
ZX350	288	34.3	2850		HB350			
ZX490	385	31.9	6220		HB490/HB690			
ZX530	385	31.9	7040		HB490/HB690			
ZX690	489	31.9	8520		HB690			
ZX890	556	31.9	10810		HB890			





Options

Auto-lubrication standard

This standard option is available for HB130 and larger breakers. The auto-lubrication option will reduce wear and tear and increase the lifetime of the components. This will result in reduced downtime and lower total cost of ownership. There are two grease options available: Sencio Blue (regular) and Sencio White (biodegradable). Both products have a high load carrying capacity, and offer strong protection against corrosion, in addition to high levels of water and oxidation resistance, separation efficiency and wear reduction.



Swivel

When hoses are connected to the breaker, the swivel enables them to move and rotate more easily. It is recommended for breakers in heavy, continuous operation and will extend the lifetime of hoses.

Available for: HB210 and above.

Rod types

Various rod types are available for breakers, including the standard moil point, to suit a wide range of applications.

Type of rods	Shape	Major applications	Material	Occurence	Specifications	Rod
Flat rod		Secondary breaking in quarries, boulder breaking, concrete breaking, and slab breaking	Asphalt	Parking Roads	Soft structures	Wedge point/wide rod
		Multi-purpose applications,	Concrete	Thin floors.	Reinforced	Wedge point
Moil point		hard rock, hard rock, hard stone, and reinforced concrete, as well as excavation of bedrock.		walls	Not reinforced	Moil point
				Thick floors,	Reinforced	Wedge point
Wedge		Concrete breaking,		walls	Not reinforced	Moil point
point	B	excavation of bedrock, operations on the face		Foundations	Reinforced	Wedge point
		of slope, excavation of ditches, etc			Not reinforced	Moil point
				Recycling		Flat rod
Asphalt spading/ wide rod	Asphalt spading/ wide rod	Asphalt spading: Cuttig of asphalt or soft material. <u>Wide rod:</u>	Sedimentary rock (limestone, sand- stone, graywacke, calcareous sediment)	Trenching, foundation work, primary quarry breaking	Heavily fissured	Wedge point
		Breaking of asphalt in road building, knocking out of ladles, demolition of concrete or reinforced concrete	,		Lighly fissured	Moil point
					Monolithic	Moil point
Core rod (Ball Point Rod)	Core rod (Ball Point Rod)	Breaking metal ores, as well as quartzite and other highly abrasive objects		Breaking oversizes		Wedge point
			Crystaline rock (magma, greenstock, gabbro, granite, etc)	Trenching, foun- dation work, primary quarry breaking	Heavily fissured	Wedge point
				,	Lighly fissured	Flat rod
					Monolithic	Flat rod
				Breaking oversizes		Flat rod

Extra dust seal – for tunnelling applications

When breakers are used to demolish tunnels and are positioned upwards, they may need additional protection against falling debris. The extra dust seal prevents dust and sand from entering the breaker, is easy to replace and will extend the lifetime of the breaker. Available for HB130 and above.



Armour kit – for quarrying applications

These additional durable wear plates provide extra protection against wear for breakers used in challenging working environments.





Complete



Specifications

ZX10 to ZX65 excavators

			HB10	HB19	HB30	HB38	HB50
Operating weight	kg			112	157	208	280
Height with rod	mm			961	1062	1173	1276
Height with rod, XS	mm	XS					
Operating pressure	Мра	min	10	10	12	12	12
		max	14	14	16	16	16
Oil flow	l/min	min	10	18	24	30	40
		max	28	35	52	60	85
Impact rate 1/min	bpm	min	600	600	600	600	500
		max	1500	1500	1300	1100	1100
Rod diameter Ø	mm		36	45	52	60	68
Effective length Rod	mm		234	293	322	355	378
Rod weight	kg		2.6	5	8	11	15
Hose inner dia Ø HD, ND	mm		9	12	12	12	12
Guaranteed noise level	dB(A)			112	119	120	119
	dB(A)	XS					
Base machine weight	Ton		0.5-1.5	1-2.5	1.5-4	2.5-5.5	4.0-7.0

ZX65 and ZX85 excavators

			HB65	HB85
Operating weight		kg	365	535
Height with rod		mm	1400	1595
Operating pressure		Мра	10	12
	min		16	17
Oil flow	max	L/min	50	45
	min		150	150
Impact rate (frequency)	max	bpm	650	400
	min		1600	1400
Impact energy	max	joule	884	1305
Rod diameter		mm	75	90
Effective rod length		mm	450	500
Rod weight (standard)		kg	21.5	35.5
Hose inner diameter pressure/return		mm	12	19
Base machine weight		t	5.9-9	4.0-7.0

ZX130 to ZX890 excavators

			110400	110400	LIDATA	LIDOFO	110050	110 400	110000	LIDOOO
			HB130	HB160	HB210	HB250	HB320	HB490	HB690	HB880
Operating weight		kg	850	1000	1600	1800	2600	3200	4800	6550
Height with rod		mm	2005	2043	2411	2468	2715	2892	3390	3800
Operating pressure	min	Мра	16	16	16	16	16	16	16	16
	max		18	18	18	18	18	18	18	18
Oil flow	min	l/min	70	100	125	145	170	200	250	280
	max		120	160	190	220	260	300	340	420
Impact rate	min	bpm	400	450	350	350	300	250	250	200
	max		1000	900	850	620	550	450	420	375
Impact energy		joules	2320	3610	4580	5120	7310	9620	11850	13690
Rod diameter		mm	110	120	135	140	155	170	190	210
Effective rod length		mm	640	620	650	680	715	720	860	980
Rod weight		kg	69	81	120	143	167	229	315	434
Hose inner diameter		mm	19	19	25	25	25	32	32	32
Sound power level		dB	125	118	120	121	121	121	122	
Guaranteed sound power level		dB	129	120	121	122	123	124	124	128
Base machine weight		t	9-16	12-21	16-24	18-30	25-42	33-55	44-75	65-100



Ce



The HB130 and larger series is encased in plastic silence blocks to reduce noise and vibration, and minimise wear.

To find out more about Hitachi breakers for Zaxis excavators, please contact your local dealer or visit www.hitachicm.eu

© Hitachi Construction Machinery (Europe) NV (HCME). All rights reserved. Reproduction in whole or in part is forbidden except with the written permission of HCME. While every effort is made to ensure the accuracy of information published, HCME is not responsible for inaccuracies or omissions. All views expressed are not necessarily those of HCME.

Hitachi Construction Machinery (Europe) NV Siciliëweg 5 – haven 5112, 1045 AT Amsterdam PO Box 59239, 1040 KE Amsterdam, The Netherlands T: +31-(0)20 44 76 700 F: +31-(0)20 33 44 045 www.hitachicm.eu