



Underwater Application of Beilite Hydraulic Breaker

2023.05.10, Meet The Different Needs Of Every Customers

Brief introduction of underwater application

The underwater demolition solution of Belite hydraulic breaker includes: Due to the uncertainty and blind spots of underwater construction, as well as the special underwater pressure, it may cause severe influences on the breaker, becoming a great challenge to the quality of the hydraulic breaker! The professional underwater set of Belite hydraulic breaker ensures safe and reliable underwater demolition;

- 1.Compressed air inlet for underwater applications: Belite hydraulic breakers equipped with an underwater operation intake channel.
- 2.Dealing with underwater blank fire: avoiding damage caused by blank strikes to Excavators.
- 3.Automatic lubrication assembly: saving a lot of manual labor, ensuring timely and accurate lubrication.



Brief introduction of under water application component

Beilite underwater working system consist of three parts

Cold dryer

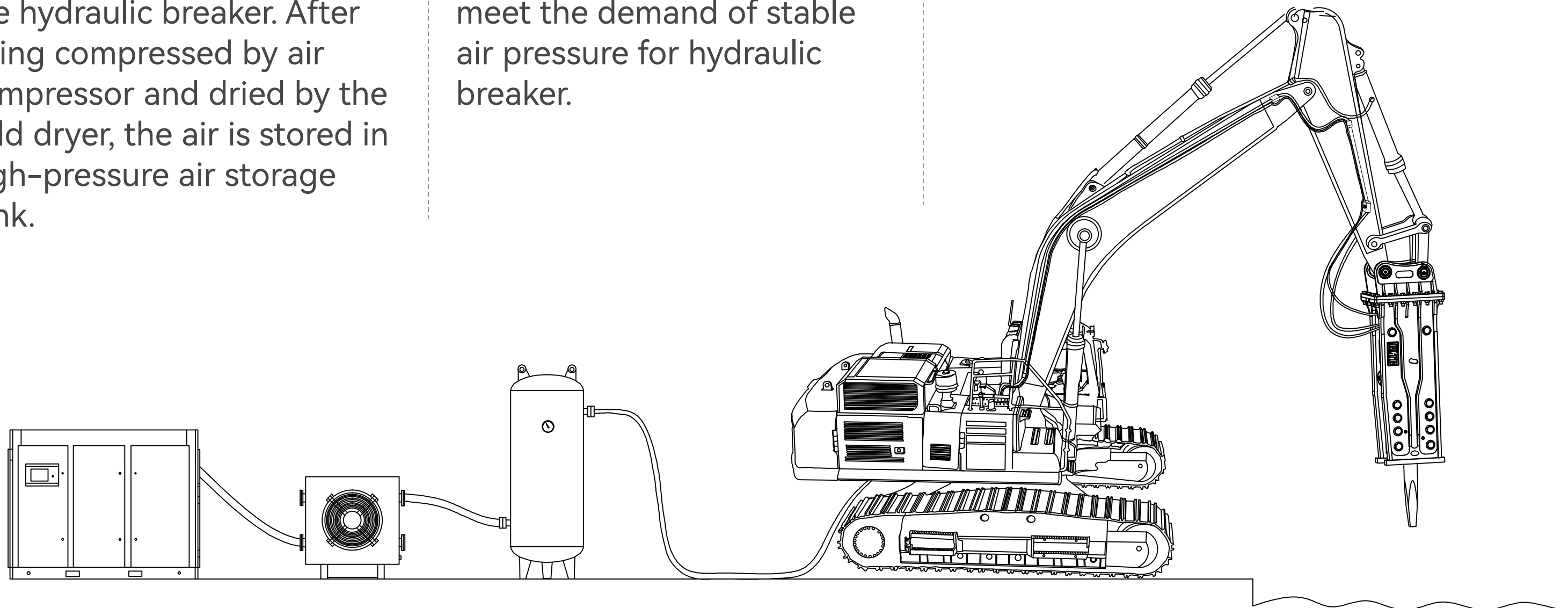
The cold dryer removes moisture from high-pressure air to keep it dry and prevent water vapor from corroding the hydraulic breaker. After being compressed by air compressor and dried by the cold dryer, the air is stored in high-pressure air storage tank.

High-pressure air storage tank

High-pressure air storage tank can ensure stable output air pressure for supplying hydraulic breaker, can meet the demand of stable air pressure for hydraulic breaker.

Air compressor

Air compressor can compress air into high-pressure air.

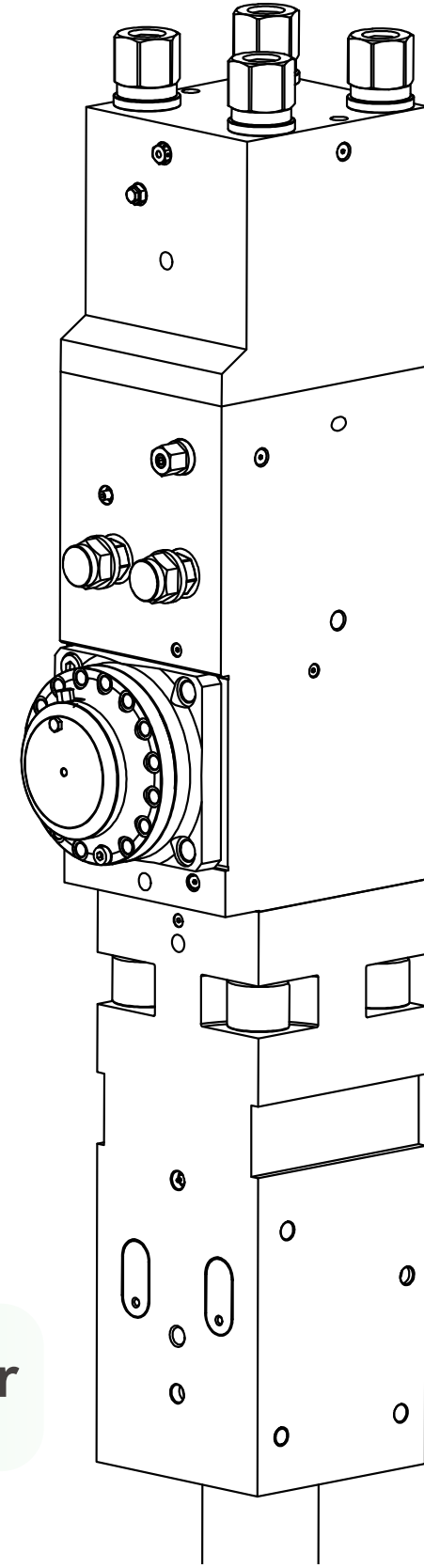


Application range for underwater



- deepening of navigation channels
- underwater rock breaking
- demolition
- bridge piers and wharf
- coastal defense structure
- concrete pile
- other foundation

Model recommendation



Beilite Specific model for underwater

BLTB100A-3	BLTB125A-3	BLTB135A-3	BLTB140A-3	BLTB150-3	BLTB155-3
BLTB165-3-W	BLTB175L-3-W	BLTB190-3-W	BLTB200-3-W	BLTB210-3-W	BLTB230-3-W

Model recommendation

Recommend hydraulic breaker model



Best selection recommendation for hydraulic breaker for 90T excavator:

Taking into account factors such as the customer's excavator model and average operating water depth of 15 meters, etc

As the preferred selection recommendation, "BLTB-210" has the following advantages:

- A.High yield
- B.Maximize the value of equipment
- C.High matching with the tonnage of the extended arm excavator



Model recommendation

Requirements for supporting air compressors

BLTB-210 breaker supporting air compressor: select according to the operating water depth of 15 meters.

A . Minimum pressure of air compressor: 3.1bar

B . Minimum gas displacement of air compressor: 15m³/min

*Suggestion: Please reserve a safety margin of 30% -50% considering factors such as potential water depth operations exceeding 15 meters and stable air compressors in the future

Model	Air compressor gas production	Water depth(m)	Working gas pressure(bar)
BLTB100-BLTB140	4m ³ /min	2	1.7
		4	1.9
BLTB150-BLTB155	5m ³ /min	6	2.1
		8	2.3
BLTB165-BLTB175	7.5m ³ /min	10	2.5
		12	2.7
BLTB190-BLTB200	10m ³ /min	14	2.9
		16	3.1
BLTB210	15m ³ /min	18	3.3
		20	3.5
BLTB230	20m ³ /min		

Brief introduction of under water application component

Underwater application system



- In 2021, BLTB210 installed on Sany 650 for deepening the Liujiang River

Brief introduction of under water application component

Underwater application system



- In 2022, BLTB175 installed on Carter 349 for the renovation of the Yujiang River

Brief introduction of under water application component

Underwater application system



- In 2022, BLTB210 installed on Liugong 990 used to deepen Hongshui River



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