



In recent years, the global oil spill accident emerge in endlessly, Current technologies to resist these pollutions are manifestly inadequate, inefficient and expensive, with not only poor pollution treatment results, but also secondary pollution, while the precious oil resources are destroyed due to inability to be effectively recycled.

### The comparison of commonly used spilled oil treatments

	Mechanic method	Absorption method	Burning methods	Dispersant method	Biological method
Basic principle	Due to different density of oil and water, this method use such methods as surface oil skimming, vortex oil collection and centrifugal oil reception to separate oil and water.	This method uses oil-absorbing material(such as oil-absorbing carpet and active carbon) to absorb oil from the water, and then transfer it to land to be burned or buried.	Since oil is combustible, this method ignite and burn directly the leaked oil floating on the water.	This method is powerless to treat emulsified oil, and burning oil can cause air pollution while damaging creatures in the water body.	Since some micro-organisms can disintegrate oxycarbide, this method use them to disintegrate oil film.
Problems of the method	Low oil removal precision, oil incapable of recycling by concentration, and impossibility to deepen purification of the polluted water body.	Low oil removal precision and oil unable to be received. Expensive and low efficiency. Burning or burying can lead to secondary pollution.	Powerless to treat emulsified oil, burning can cause air pollution while damaging the creatures in the water body.	It is only surface oil removal. The oil inside the water body is still there while chemical substance is added into the water, which makes the water quality even worse.	Low efficiency. And it is hard to evaluate the ecological impact of the entry of micro-organisms into the water.

## Intelligentized Interception type Separation And Recycle equipment for oil spillage

Developed by Bidun company using its globally advanced interception type oil removal technology, the "International Number One" spilled oil pollution

treatment device can automatically separate water and oil, purify and recycle them respectively at the site of oil spillage, transforming the spilled oil into renewable energy and releasing water in accordance with legal standard. In this way, the spilled oil can be promptly, effectively and high-quality recycled, while the water quality is also purified. This technology is purely a physical process with no chemical agents added and no secondary pollution incurred, thereby resolving the three difficult spilled oil treatment problems faced by the world.



Small test device

Company's related technology has obtain the patents of the **United States, Russia, South Korea, Japan**; and has obtained patent licenses of **EU six countries**. The company has six national invention patents, seven utility model patents. has been handled by such countries as the United Kingdom, France, Germany, Sweden and Norway.



## The 5 technical advantages:

### High precision:

The concentration of oil received  $\geq 95\%$  oil content of outgoing water  $\leq 10\text{ppm}$ .

### Pollution treatment on the spot:

Oil and water is synchronically separated, oil with original quality is received while water is released in accordance with legal standard.

### Clean and environment friendly:

It is purely a physical process with no chemical agent added and no secondary pollution incurred.

### Extensive adaptability to oil content:

This device can equally and effectively treat spilled oil with oil content ranging from miniscule to 100%.

### Extensive spectrum of oil:

This device can effectively and equally treat all kinds of oil ranging from crude oil to light oil, and to all kinds of mineral oil.

