

✓ The First and Only Plant in Indonesia



DAYATECH

## OILWELL SHAPED CHARGES

High strength and for perforation detonator sensitive emulsion explosives

Shaped Charges dikenal sebagai drilling explosives yang digunakan oleh perusahaan minyak untuk kegiatan perforasi, sehingga minyak mengalir melalui lubang perforasi ke dalam pipa casing dan dapat dipompa keluar.

Penggunaan Shaped Charges pada kegiatan perforasi sumur minyak mulai dilakukan pada tahun 1946 menggantikan tradisi perforator dengan peluru.

Pengembangan dilakukan secara terus menerus, teknik perforasi menggunakan shaped charges mengalami evolusi dan menjadi suatu cara perforasi yang populer dan biaya yang efektif.

Di bawah manajemen Joint Operation PT DAHANA-Chartered Oiltech Singapore Pte Ltd Singapore, telah didirikan fasilitas manufaktur Shaped Charges di Tasikmalaya, Jawa Barat.

Pabrik ini merupakan yang pertama dan satu-satunya di Indonesia yang mampu memproduksi Shaped Charges untuk memenuhi kebutuhan industri perminyakan di Indonesia dan Asia Tenggara.

*Shaped Charges which is known as Drilling Explosive used by Oil companies to make holes on steel pipe (casing) with cement surrounded, which has been put in the hole of the oil well, so that through that holes oil will flow in and can be pumped out.*

*In 1946, the explosives Shaped Charges was adapted for oil well perforating supplanting the tradition bullet perforator.*

*With continues improvement over the year, the technique has evolved to be the most cost effective and popular method for oil well completion.*

*Under joint operation arrangement PT DAHANA and Chartered Oiltech Services Pte Ltd Singapore, established an oilwell shaped charges manufacturing facility at Tasikmalaya, West of Java.*

*This facility is the first and only one in Indonesia with capability to develop and manufacture advanced oil well shaped charges to meet the requirement of oil industry both in Indonesia and South East Asia Regions.*

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## JENIS - JENIS SHAPED CHARGES

Fasilitas produksi Shaped Charges di Tasikmalaya mampu memproduksi produk-produk shaped charges yang komprehensif meliputi:

1. Deep Penetrating Shaped Charges (DP) untuk High Shot and Ported Carrier System. Produk ini dirancang untuk aplikasi daerah limestone padat dan formasi batuan pasir.
2. Big Hole Charges (BH) untuk High Shot dan Ported Carrier System. Produk ini dirancang untuk aplikasi pada lingkungan Gravel Pack dan sand control completion.
3. Encapsulated Charges, tersedia dalam tipe Deep Penetration atau Big Hole Liner untuk aplikasi perforasi menggunakan Through Tubing Perforator.
4. Liner dan Circular Shaped Charges digunakan untuk pekerjaan perbaikan kapal dan pipa.

## ISIAN BAHAN PELEDAK

Isian dari Shaped charges adalah bahan peledak jenis RDX atau HMX. Permintaan isian bahan peledak dengan temperatur tinggi dapat dilakukan, apabila dibutuhkan. Umumnya berat isian berkisar 6 sampai dengan 54 gram per charge.

## DIAMETER

JO DAHANA-Oiltech menawarkan berbagai macam ukuran gun yang populer dengan ukuran diameter luar gun mulai dari 1-9/16" sampai dengan 7".

## DESAIN DAN STANDAR MANUFAKTUR

Semua Shaped Charges disertifikasi dengan standar API dan melalui proses kontrol kualitas yang ketat dalam produksi. Pabrik ini tersertifikasi dengan standar ISO 9002 dan diperbarui menjadi ISO 9001.

Produk DOJO (Dahana Olitech Joint Operation) telah memenuhi standar API RP 43 dan berusaha untuk memenuhi API RP 19B. Selain itu, DOJO Plant juga telah mendapatkan sertifikasi standar keselamatan OHSAS 18000 oleh SGS. DOJO telah menerapkan ISO 9001: 2000 sejak May 3, 2004.

## JENIS DAN UKURAN CARRIER

1. Stripes & Capsule 1-11/16" OD, 2-1/8" OD dan 1-1/2" OD
2. High Shot Density 2.00" OD, 2-7/8" OD, 3" OD, 3-1/8" OD, 4" OD, 4 1/2" OD dan 7.00" OD
3. Ported Carries 3-3/8" OD, 4-00" OD and 5-00" OD
4. Tersedia ukuran panjang dalam dimensi metrik atau imperial

## TYPES OF THE SHAPED CHARGES

A comprehensive range of perforating charges which is manufactured in Tasikmalaya facility include :

1. Deep Penetrating Charges (DP) for High Shot Density and Ported Carrier System, especially designed for application in deeper more compacted limestone and sand stone formations.
2. Big Hole Charges (BH) for High Shot Density and Ported Carrier System, used for application in Gravel Pack and sand control completions.
3. Encapsulated Charges available multi phased with Deep Penetrating or Big Hole Liners for Through Tubing Perforating applications.
4. Liner and circular charges for salvage and pipe recovery works.

## EXPLOSIVES LOADS

The perforating charges are loaded with RDX or HMX. Other higher temperature rated explosives may be loaded on request. The explosives charges weight ranges from 6 to 54 grams per charge.

## DIAMETER

The company offers a full range of all the popular gun sizes from 1-9/16" Outside Diameters to 7" Outside Diameters.

## DESIGN AND MANUFACTURING STANDARD

All the shaped charges are certified to the current API standard and strict quality control processes are instituted in production. The plant is certified to ISO 9002 standard and being updated to ISO 9001.

DOJO (Dahana Olitech Joint Operation) Product has met the standard of API RP 43 and been striving to meet API RP 19B. Besides, DOJO Plant has also been certified to safety standard of OHSAS 18000 by SGS. DOJO has been applying ISO 9001:2000 since May 3, 2004.

## CARRIER TYPES AND SIZES

1. Stripes & Capsule 1-11/16" OD, 2-1/8" OD and 1-1/2" OD
2. High Shot Density 2.00" OD, 2-7/8" OD, 3" OD, 3-1/8" OD, 4" OD, 4 1/2" OD and 7.00" OD
3. Ported Carries 3-3/8" OD, 4-00" OD and 5-00" OD
4. Available cut to length in metric or imperial dimensions.



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