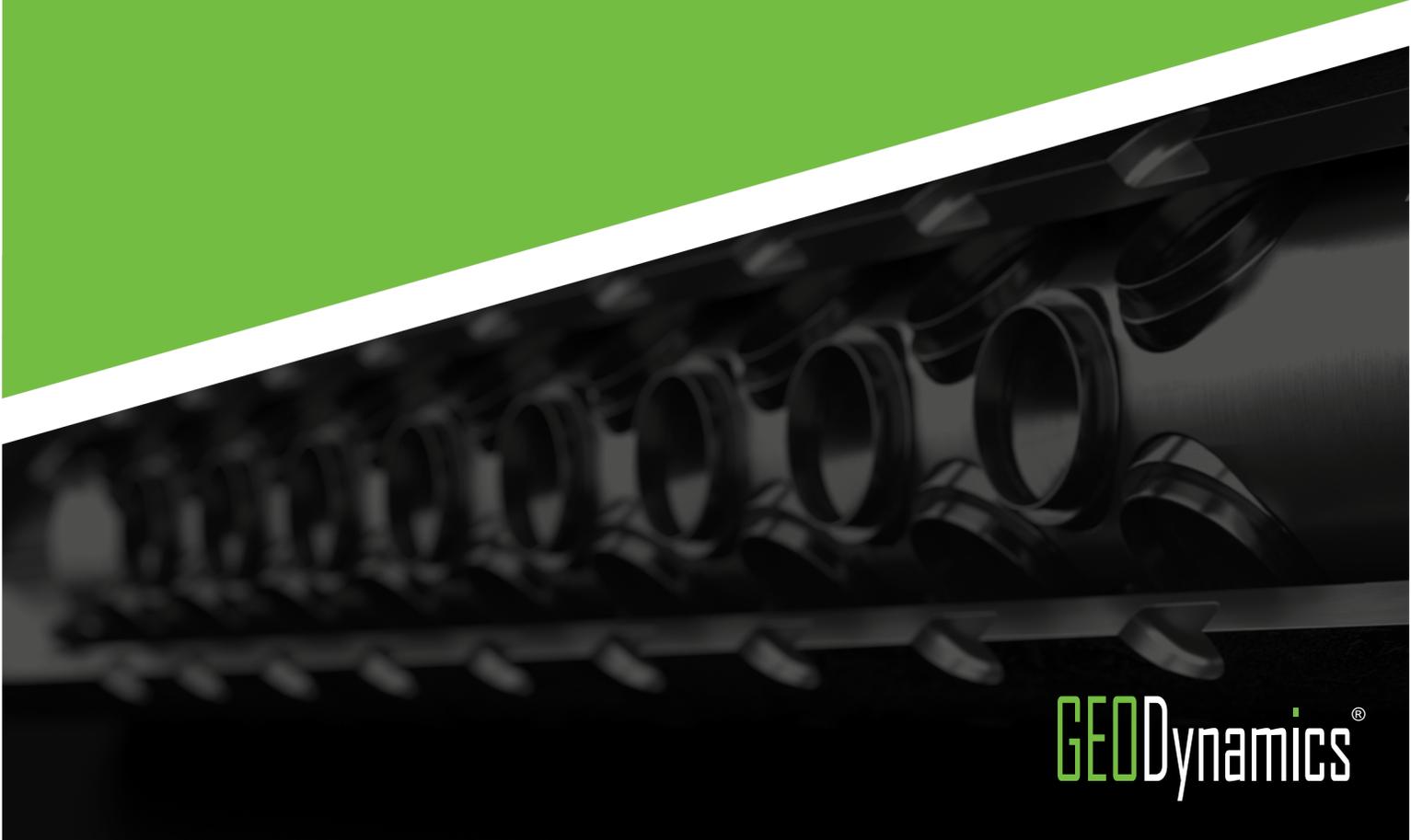


EclipseTM

ECLIPSE THE COMPETITION



GEODynamics[®]

Eclipse™

The Eclipse™ gun assembly uses bi-directional boosters, non-lead azide explosives, customized connectors and inserts, and a high-velocity, low-shrink detonating cord. Additionally, all GEODynamics gun assemblies are scalloped to optimize charge performance and prevent casing damage from perforating exit hole burrs. Shot phasing is designed to maintain the integrity and collapse resistance of the casing after perforating. These attributes, along with premium quality gun material and gun connectors, allow GEODynamics to deliver safe, efficient, and reliable perforating gun solutions to our customers.

GEODynamics utilizes a single sub gun connector system, a pin x pin sub (tandem) is threaded into the top of the gun carrier and the box connection on the lower end of the perforating gun is used as the box connection in the makeup process. The explosive train (bi-directional boosters and detonating cord) is fully contained within tandem sub and gun box ensuring the safety of the system. When the connection is made at the rig floor the explosive train is perfectly aligned and creates a path for the gun to gun explosive transfer. The single connector gun system is both extremely reliable and safe. More importantly, this is the most shot efficient system available in the industry.

CHARGE LISTING

Charge Name/Type: 7" 20 spf Super Big Hole
Part Number: EC2-70K5232
Explosive Load/Type: 52.0 gram HMX
Phasing: 90°/45°
Entrance Hole: 1.42"
Penetration: 7.06"

FEATURES / BENEFITS

- Increase in shot efficiency due to reduction in gun to gun connection length
- Reduction in potential leak paths
- Simplified gun loading process and quality control
- Available for all gun sizes

SPECIFICATIONS

Gun size	7.000"
Nominal O.D.	7.000"
Post detonation swell	7.22"
Shots per foot	20 spf
Standard shot phasing	90°/45°
Perforating environment	Fluid Only
Weight per foot loaded	55.94 lbs/ft
Weight per foot spacer	34.27 lbs/ft
Collapse pressure	11,500 psi
Calculated tensile	770,700 lbs

*Custom shaped charge, shot density & phasing design available on request

*API Section-IV perforation flow laboratory testing available

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