



FEATURES & BENEFITS

- Pinpoint or multi-perf cluster style fracturing
- Activated with single size fully degradable ball
- Large seat size allows bridge plugs and tools to pass through
- Full bore with no milling requirements
- Intervention-less stimulation
- Continuous pumping operations
- Multiple stages
- Use standard cementing practices
- Deploy in open hole with isolation packers

PRO-FRAC

UniFrac Cementable/Open Hole Single Size Ball Drop System

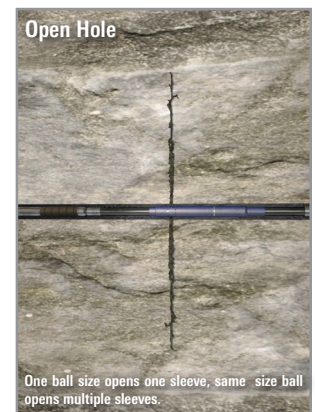
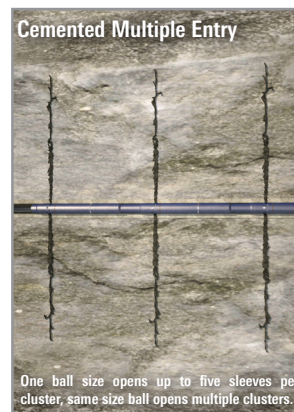
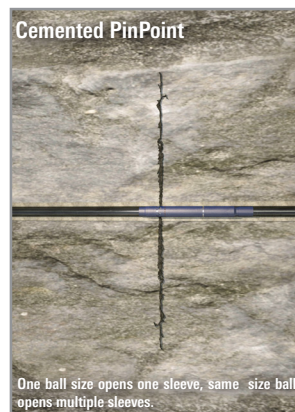
One Size Ball, Unlimited Stages

UniFRAC was engineered from the ground up to overcome the current stage limitations of existing single size ball drop systems. Spanning just four feet, it contains a proprietary sequencing mechanism allowing multiple stages for maximum economy and handling.

Designed for maximum efficiency, the UniFRAC allows the operator to increase the total number of stages in a well, while significantly reducing overall completion time.

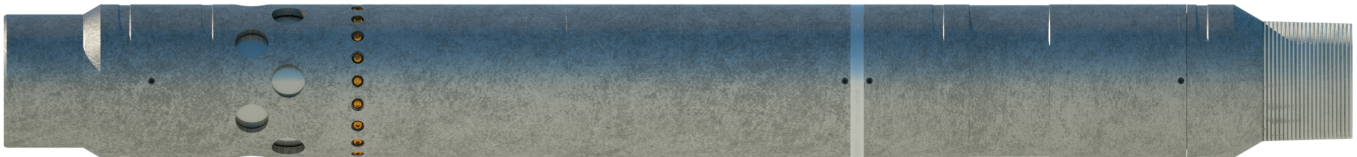
One size ball allows unlimited stages. The UniFRAC may be used to open either one sleeve at a time, or open a set of sleeves at a time to perform a plug and perf cluster style completion.

Stimulate longer horizontals and exceed the reach of coil tubing. Stages can be stimulated rapidly, with no pump down or coil tubing wait times, resulting in drastically reduced overall stimulation time-lines.



Copyright © Pro-Leading Energy Solutions
All rights reserved.

	Open Hole Ball Drop	Cemented Sleeves	Plug and Perf	Unicors
Continuous Pumping - Efficiency	Green	Red	Red	Green
Intervention-less	Green	Red	Red	Green
Full Bore	Red	Green	Yellow	Green
# of Stages	Yellow	Green	Yellow	Green
Cemented	Red	Green	Green	Green
Open Hole	Green	Yellow	Red	Green
Pin Point Stimulation	Yellow	Green	Red	Green
Multiple Entry	Red	Yellow	Green	Green
High Rate Volumes	Yellow	Red	Green	Green



PERFORMANCE SPECIFICATIONS				
Normal Size	3.5" / 88.9mm	4" / 101.6mm	4.5" / 114.3mm 11#-13#	4.5" / 114.3mm 15#
Material	P110	P110	P110	P110
OD	3.625" / 92.07mm	4.65" / 118.11mm	5.75" / 146.05mm	5.75" / 146.05mm
Ball Seat ID	2.06" / 52.32mm	3.00" / 76.2mm	3.625" / 92.07mm	3.625" / 92.07mm
Pressure Rating	10,000 PSI/ 69 MPa	10,000 PSI/ 69 MPa	10,000 PSI/ 69 MPa	10,000 PSI/ 69 MPa
Tensile	165,000 lbs/ 73400 dN	215,000 lbs/ 95000 dN	Meeting Casing Tensile	Meeting Casing Tensile
Stages	Unlimited	Unlimited	Unlimited	Unlimited
Length	4.00ft/ 1.2m	4.00ft/ 1.2m	4.00ft/ 1.2m	4.00ft/ 1.2m
Length per Stage	0.2" / 5.08mm	0.2" / 5.08mm	0.2" / 5.08mm	0.2" / 5.08mm
Ball Size	2.188" / 55.57mm	3.125" / 79.37mm	3.75" / 95.25mm	3.65" / 95.25mm