Media Lab

3D Animations & Videos

Engineering-based 3D animations, videos and visual storytelling for the oil and gas industry

Applications

Media Lab provides engineering-based 3D animations and videos for tools, assemblies, processes and safety incidents in the oil and gas industry. We help companies transform complex ideas and concepts into clear high-quality videos. These videos can be used on websites, exhibitions, conferences and client meetings to support marketing and sales efforts. They also serve as effective training and educational tools helping training centers explain complex engineering concepts in a practical and visually engaging way.

Features

- 3D animation videos can be developed for different durations ranging from a few seconds to several minutes or even long-form videos.
- 3D animations can be created for tools, assemblies, processes and/or incidents etc.
- Voice-over and/or subtitles can be added in any language to support local and international audiences.
- Videos can be delivered in different sizes and formats suitable for websites, social media, presentations, exhibitions, digital screens and training platforms.

Why to use Media Lab in your business?

- Enhances the visual quality of your website, social media, and marketing materials by presenting your tools, assemblies and processes through clean, professional and high-quality videos.
- Provides professional visual content that can be used in technical presentations, client meetings, exhibitions, conferences, office displays and/or digital screens etc.
- Helps increase sales and positions your company with a more professional and innovative image similar to major companies.
- Supports brand visibility through 3D animations and videos that strengthen your brand identity and increase market reach.
- Helps your company present new or complex tools, ideas, concepts and processes especially when the actual tool or the process is difficult to explain, unavailable for photography, unsafe or heavy to move and/or contains internal components that cannot be seen from the outside.
- Strengthens safety awareness by visualizing incidents, hazards, operating mistakes and correct procedures in a controlled and understandable format.
- Improves training and technical workshops by helping students, engineers, and/or trainees understand in a more practical and visually engaging way.

Want to explore more 3D animations and videos?

Visit our Youtube channel: Click Here

Media Lab

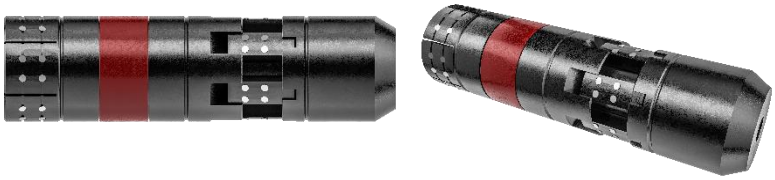
3D Design & 3D Printing

Engineering-based 3D designs, mockups and prototypes for the oil and gas industry

Applications

Media Lab provides engineering-based 3D design and 3D mockup of tools, assemblies and processes for the oil and gas industry. We help companies transform ideas and concepts into clear and high-quality visual models. These models can be used on websites, catalogues, exhibitions, client demonstrations or as giveaways to support marketing and sales efforts. They also serve as effective training and educational tools helping training centers explain complex engineering concepts in a practical, hands-on and visually engaging way.

3D Design Model



3D Printed Model

Features

- 3D designs of industrial tools, equipment, assemblies and/or processes.
- 3D designs ranging from single colored to fully colored high detail visualizations.
- 3D printing capabilities ranging from fingertip-sized to large human-sized models.
- 3D printing variations from a single color to different colors.
- 3D printing options include static models or functional models with movable parts.
- Various 3D printing material options ranging from standard display to stronger materials suitable for harsh environments and more resilient cases.
- Flexible options are available that include packages covering both 3D design and 3D printing or standalone 3D design services.

Why to use Media Lab in your business?

- Enhances the visual quality of your website, social media, catalogues, brochures and marketing materials by presenting your tools, assemblies and processes through clean, professional and high-quality visuals.
- Provides professional visual content that can be used in technical presentations, client meetings, exhibitions, conferences, office displays and/or digital screens etc.
- Helps increase sales and positions your company with a more professional and innovative image similar to major companies.
- Supports brand visibility through 3D printed mockup giveaways that strengthen your brand identity and increase market reach.
- Helps your company present new or complex tools, ideas, concepts and processes especially when the actual tool or the process is difficult to explain, unavailable for photography, unsafe or heavy to move and/or contains internal components that cannot be seen from the outside.
- Improves training and technical workshops by helping students, engineers, and/or trainees understand in a more practical, hands-on and visually engaging way.

Want to explore more models of 3D design and printing?

Visit our website: Click Here

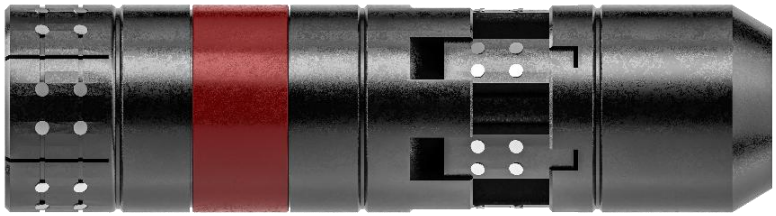
BullCore

Fully composite fracture plug

Repeatable plug, perforation and fracturing with less time to mill to total depth

Applications

Plug and perforation for multistage hydraulic fracturing operations.



Features

- The bore is sealed with a ball while the zone above the plug is being fractured.
- The plug can be deployed with ball already installed or a ball can be dropped from the surface once the plug is in place.
- Plug special profile that allows better pump down performance. With an option of pump down ring.
- Different button materials and optimized slip materials to minimize amount of hardened material to reduce milling time and decrease damaging debris.
- Slip design to prevent button chipping and plug slipping.
- Sealing packer element which withstands high bottomhole pressures and temperatures and compatible with pump down fluids.
- Shear ring that simplifies assembly onto the wireline adapter kits.

How BullCore improves multistage fracturing operations

- BullCore fracture plugs are run in and set in wells via wireline, coiled tubing and/or pipe in complete range of casing sizes and weights.
- Antipreset mechanism that prevents premature setting of the plugs at higher run-in hole speeds.
- Special chamfered profile that allows faster pump down and run-in hole speeds.
- An optional pump down ring that reduces fluid bypass and time.
- BullCore plugs can be integrated with a single use wireline adapter kit and plug setting tool which eliminates the potential for human error and operational delays.
- BullCore are designed for milling out with low torque and circulating debris to surface at lower circulation rates.
- They use a packer element compound that drills out into small pieces which are easily swept to surface.

BullCore

BullCore Specifications

Specifications	4.5 in, Standard Plug	5 in, Standard Plug	5.5 in, Standard Plug
Casing size, in [mm]	4.5 [114]	5 [127]	5.5 [140]
Casing weight, lb/ft [kg/m]	9.5 – 15.1 [14.1 – 22.5]	13.0 – 24.1 [19.3 – 35.9]	
Plug outside diameter, in [mm]	3 [76]	4 [102]	4.5 [114]
Plug inside diameter, in [mm]	1 [25]	1 [25]	1.25 [132]
Ball diameter, in [mm]	1.25 [132]	1.25 [132]	1.5 [38]
Length, in [mm]	14 [356]	15 [381]	16 [406]
Setting length, in [mm]	10 [254]	11 [280]	12 [305]
Plug weight, lb [kg]	6 [152]	7 [178]	10 [254]
Setting force, lbf [N]	25,000 [11,1200]	35,000 [156,000]	45,000 [200,170]
Pressure rating, psi [bar]	7,000 psi [482]	7,000 psi [482]	7,000 psi [482]
Temperature rating, °F [°C]	250 [121]	250 [121]	250 [121]
Button type	Metal or ceramic	Metal or ceramic	Metal or ceramic
Pump down ring	Optional	Optional	Optional

BullCore Specifications

Specifications	4.5 in, HPHT Plug	5 in, HPHT Plug	5.5 in, HPHT Plug
Casing size	4.5 [114]	5 [127]	5.5 [140]
Casing weight	9.5 – 15.1 [14.1 – 22.5]	13.0 – 24.1 [19.3 – 35.9]	15.5 – 43.1 [394 – 1,095]
Plug outside diameter	3 [76]	4 [102]	4.5 [114]
Plug inside diameter	1 [25]	1 [25]	1.25 [132]
Ball diameter, in [mm]	1.25 [132]	1.25 [132]	1.5 [38]
Length, in [mm]	14 [356]	15 [381]	16 [406]
Setting length	10 [254]	11 [280]	12 [305]
Plug weight	6 [152]	7 [178]	10 [254]
Setting force, lbf [N]	25,000 [111,200]	35,000 [156,000]	45,000 [200,170]
Pressure rating, psi [bar]	10,000 [690]	10,000 [690]	10,000 [690]
Temperature rating, °F [°C]	300 [149]	300 [149]	300 [149]
Button type	Metal or ceramic	Metal or ceramic	Metal or ceramic
Pump down ring	Optional	Optional	Optional

All specifications are subject to modifications without further notice and upon client's request.

Disclaimer:
The product depicted in this catalogue is conceptual, non-operational illustrative model developed exclusively to showcase our 3D design and 3D printing capabilities. It is not an actual or commercially available product and is not meant to represent, reproduce, imitate, duplicate, or be derived from any product, design, or intellectual property owned by any company or manufacturer. Any similarity to existing products is entirely coincidental.