

# JBS GROUP<sup>®</sup>



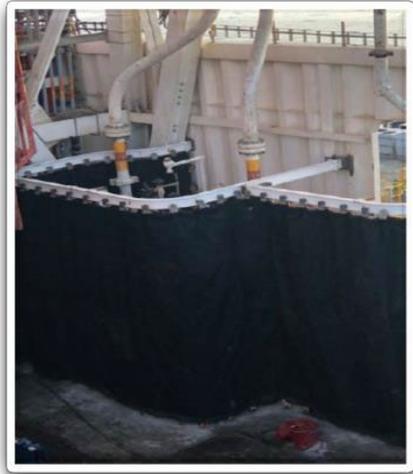
JBS Fabrication Ltd, JBS Group USA LLC, and ScrewConveyor Ltd is a wholly owned subsidiary of JBS Group (Scotland)Ltd

[www.jbsgroupscotland.co.uk](http://www.jbsgroupscotland.co.uk)

## Services



**Screw Conveyors**



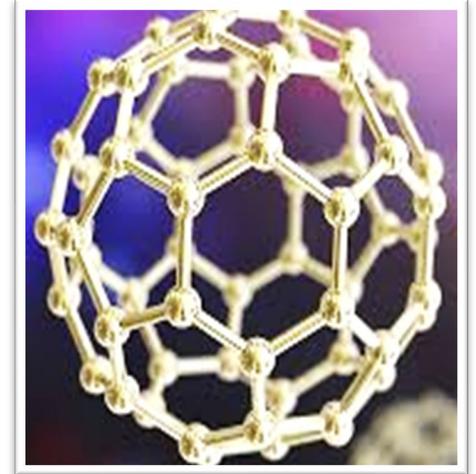
**Blast Containment**



**Fabrication  
&  
Engineering**



**Control  
Flow  
Excavation**

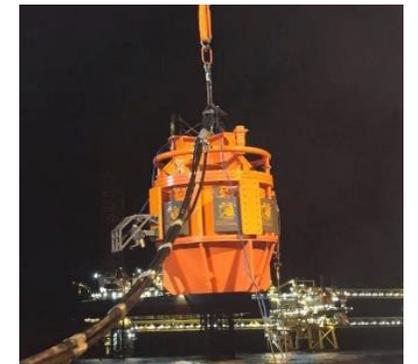


**5<sup>th</sup> Dimensional  
Nano Products**

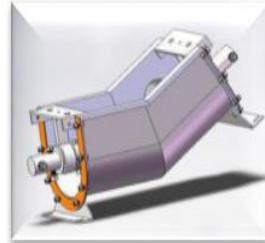
## Sectors



- **Defence** - arc flash protection for T26 Global Combat Ships, armor, ballistic glass, ballistic composite solutions, fireproofing, and IED blast mitigation.
- **Oil & Gas** - screw conveyors, fabrication & engineering, subsea excavation, blast, frag, fire and arc flash protection.
- **Renewable Energy** - PLAT I floating tidal energy platform, wind energy, subsea CFE, waveenergy and fabrication.
- **Power Generation** - ballistic glass, ballistic protection, blast, frag and fire protection.
- **Space** - blast mitigation, high pressure test enclosures, ballistic glass, heat resistance and nano enhancement.
- **Construction** - high-rises (55+ stories), shell buildouts, upscale residential, commercial, drywall, cement and high strength commercial glass.



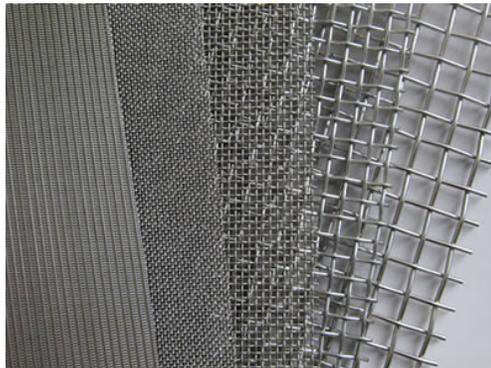
## Screw Conveyors from JBS Fabrication Ltd



JBS is an authorised distributor for Martin Sprocket USA, a Nord Drive Systems Stockist and an OEM for screw conveyors for the oil & gas industry.

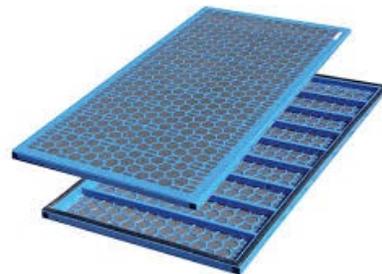
## Shaker Screen Enhancements

JBS 5<sup>th</sup> Dimensional formulas can Increase atomic bonding within adhesive agents that are currently used in screen manufacturing. Our 5<sup>th</sup> D products can easily be added to many different types of paints, coatings, treatments and resins currently used in screen manufacturing to provide different enhancement benefits.



## Shaker Screen Enhancements

- **Increased surface strength** - provides less structural and or integral failures from coarse abrasive cuttings & materials, therefore extending screen life by at least 30%. By applying 5<sup>th</sup> D coatings during the manufacturing process, surface strength is increased on an atomic level. These hydrophobic structures are natively stronger, but also combat mold, mildew and prevents oils, chemicals, dirt's and greases from adhering and or degrading.
- **Reducing oxidation by at least 27%** - by adding our 5<sup>th</sup> D formulas, atomic memory of pre-existing metal-based screens are changed, therefore reducing the oxidation process (recently proved by MIT's professor - Michael Short)
- **Reduced screen clogging** - enhancing antifoulant aspects and not reducing the current cut point while still ultimately improving the condition of the drilling fluid coming out of the hole. This is achievable by using a nano based median in our 5<sup>th</sup> D formulas that might otherwise reduce aspect ratios and or micron/cut point ranges.



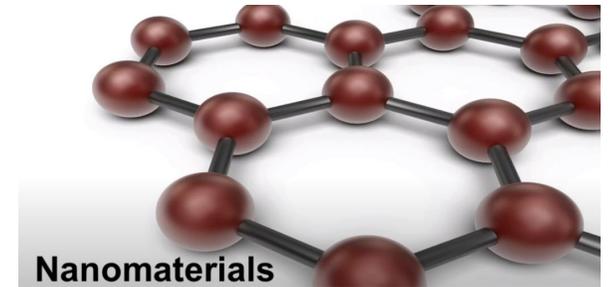
## Shaker Screen Enhancements

- **UV protection increase by approximately 50%** - optimized atomic bonding provides a barrier to fend against UV degradation.
- **Green product**, not effected by chemicals and will not effect chemical compositions. Zero negative environmental impact.
- **Our product allows temperatures in excess of 300 deg C.**

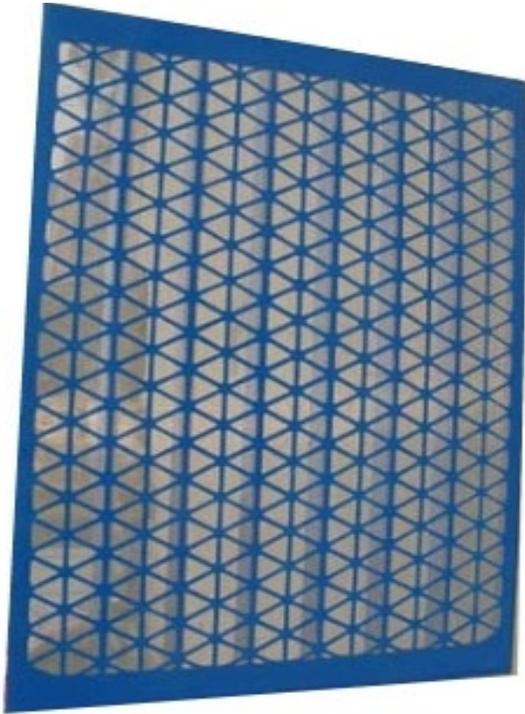


## Shaker Screen Enhancements

- Reduced effects of both blinding & saltwater blinding, prevents using finer screens.
- Eliminates saltwater damage to plate & screen, also reducing plate delamination and or plate corrosion.
- Reduced downtimes (NPT), increased overall efficiency of operation and reduces number of screens used per well.
- Reduced dilution costs.
- Reduced fatigue failure at edges of support aperture as well as increased BER.
- Allows for greater screen capacities and assists with material distribution across the screen correctly. Also assists with cutting transportation, prevents low cutting rates and fine mesh screen conductance.



## Application Methods



- Preferred methods would be to apply our 5<sup>th</sup> D formulas at various times throughout the entire manufacturing process to build up a multi-layered system.
  - a. apply directly to all types of raw screen materials within the manufacturing process to ensure all layers are coated evenly and efficiently, mainly for triple & quadruple layered screens before frame bonding is introduced.
  - b. apply directly to frames before screen to frame bonding.
  - c. apply to entire completed bonded frame & screen postproduction.
  - d. incorporate directly into glue/bonding agents (eliminates any potential heat issues and increases overall adherence).
  - e. Low Pressure (LP) type application.

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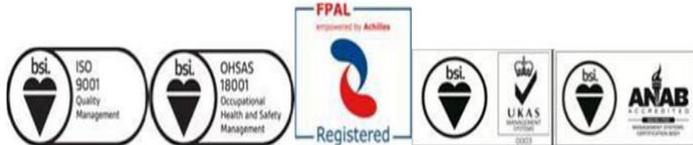
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