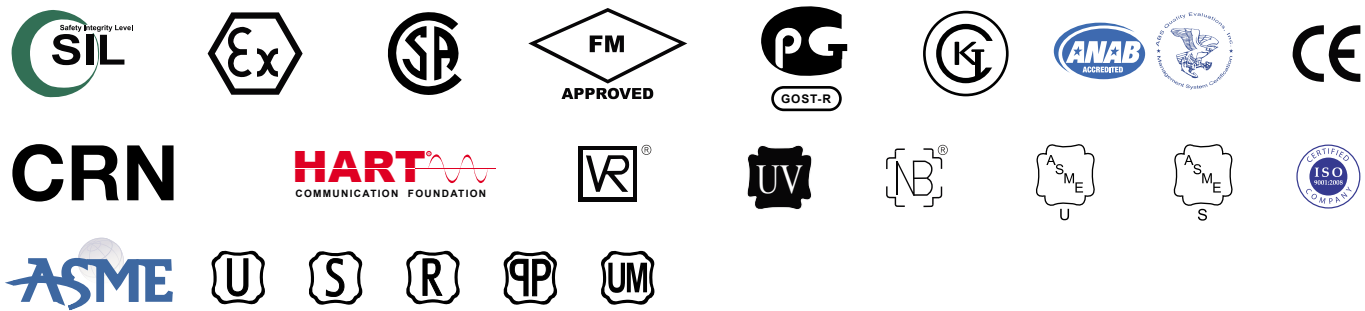


Approvals



Certifications



Other Certification: PED | ISO 9001 : 2008 | ISO 14001 : 2004 | OHSAS 18001 : 2007

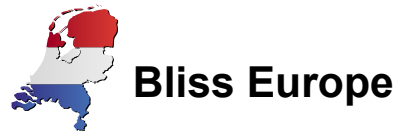
BLISS EUROPE

THE **SPiRiT**
TO WALK AN EXTRA
MiLE

Product Development Cell
(R & D)



www.blisseurope.eu



Maidstone 48, 5026 SK, Tilburg, The Netherlands
Tel.: +31 (0) 13 304 0111, Fax.: +31 (0) 13 533 9688
Email: sales@blisseurope.eu, info@blisseurope.eu

www.blisseurope.eu

GLOBAL PRESENCE | USA | CANADA | EUROPE | SOUTH AMERICA | MIDDLE EAST | SAUDI ARABIA | ASIA |

Manufacturing Unit:

AMERICAS
3400 Awesome Lane
La Porte, Texas 77571. USA.
Tel.: +1 (281) 479-2547 (BLIS)
Fax.: +1 (281) 542-7000
e-mail: sales@blissamericas.com

MIDDLE EAST
P. O. Box: 18576, RA 08, WF 04,
Jebel Ali Free Zone, Dubai, U.A.E.
Ph. : +971 4 883 56 33
Fax : + 971 4 883 56 44
e-mail : gages@eim.ae

ASIA
Plot No. 240, Sector-3,
Growth Center, HSIIDC,
Bawal, Haryana-India
Ph. : +91(1284) 269400-99
Fax : +91 124 2290884
e-mail : sales@blissanand.com

SAUDI ARABIA
Production Unit #929
3rd Industrial City,
Dammam, Saudi Arabia
Zip Code : 34856
Ph: +966 (0)13 845 4262
e- mail: ksa@blissanandusa.com

18-1291L5-3D



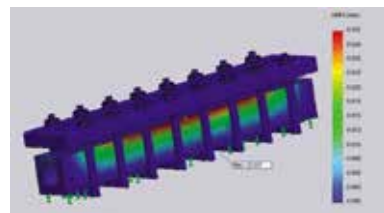
Product Development Cell

- To develop new products and optimizing existing products using advance technology through FEA and CFD using SOLIDWORKS software and it's related modules.
- In House well trained Technicians to optimize our product line.

Finite Element Analysis (FEA)

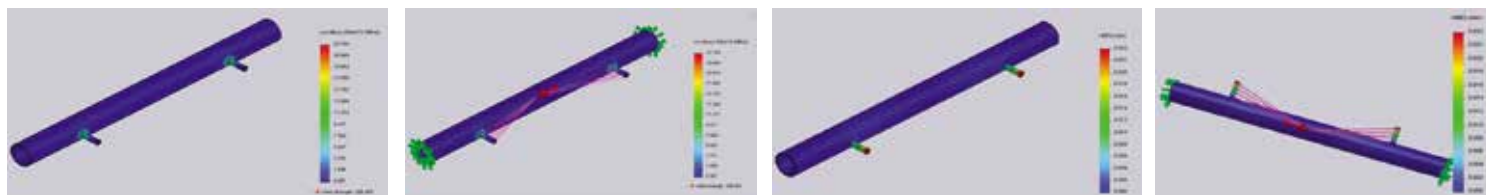
SOLIDWORKS Simulation uses FEA methods to calculate the displacements and stresses in our product due to perational loads such as:

- ✓ Forces
- ✓ Pressures
- ✓ Accelerations
- ✓ Temperatures
- ✓ Contact between components



Stress Analysis of RLG

Stress Analysis

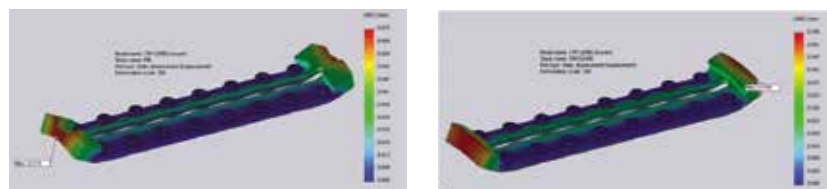


Study Results

Name	Type	Min	Max
Stress 1	VON: Von Mises Stress	0.000972408 N/mm ² (MPa) Node: 13639	22.7439 N/mm ² (MPa) Node: 46524

Computational Fluid Dynamics (CFD)

- SOLIDWORKS Simulation uses CFD analysis to enable quick, efficient simulation of fluid flow and heat transfer.
- Easily calculate fluid forces and understand the impact of a liquid or gas on product performance.
- Reduces the need for costly prototypes.
- Eliminates re-work and delays.
- Saves time & development costs.



Research & Development Lab – Houston, Texas.

ACURAGE™ - U.S. Patent Auto Calibrating Unique Radar Gauge

Advantages:

- ▶ Spot Calibration of Radar Transmitter
- ▶ Real time True Level of Process Liquid
- ▶ Color of Process Liquid can be watched by Operator
- ▶ Interface Visibility (Transparent type only)
- ▶ True Redundancy
- ▶ Inevitable in critical level monitoring applications
- ▶ Flashing Application
- ▶ Foaming Application
- ▶ Cryogenic Application
- ▶ No Fear of Magnetic Ferrous Particles interfering with operation, unlike Magnetic Level Gauges
- ▶ Changes in specific gravity of process liquid do not pose a problem, unlike in Magnetic Level Gauges, showing errors in level
- ▶ Full Function in Power Failure Modes
- ▶ Steam Application (ASME sec-1) - Port Type
- ▶ Illuminator - LED Type / Conventional - Optional
- ▶ Radar Options
 - Contact Radar (Guided Wave)
 - Non Contact Radar
- ▶ Glass field replaceable by Isolating Gauge from process fluid
- ▶ Scale available with custom made units (linear, volume or percentage)



Patented Level Solutions:

FEATURES	Radar + Bridle	MLG + Radar	ACURAGE™
Field calibration	✗	✗	✓
Real-time True Level	✗	?	✓
Color of liquid	✗	✗	✓
Interface visibility	✗	✗	✓
Field Servicable	✗	✗	✓
Ultra low SG (< 0.3)	✓	✗	✓
Change in SG does not affect true reading	?	✗	✓
Magnetic particle traps are not required	✓	✗	✓
Full function in power failure mode	✗	✓	✓