



Fastening Solutions
for Green Energy
Applications



A Green World Joined Together By Howmet Fastening Systems



Applications

Howmet products offer tangible benefits across a myriad of applications in the Green Energy market.



Lattice Tower Frame

Application



BobTail™

Frame construction



Huck 360™



Monolithic Tower

Application



BobTail™

Tower construction



Huck 360™



Nacelle and Blade

Application



BobTail™

Gearbox
Blade attachment
Cone attachment



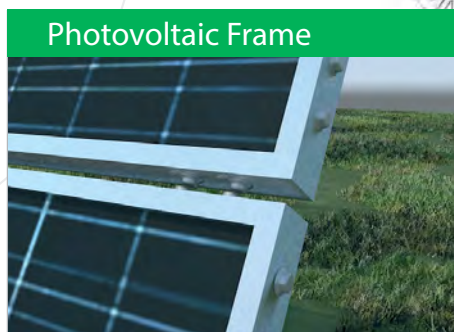
CAM-PT10

Step gate removal



Nylstop

Segment attachment



Photovoltaic Frame

Application



BobTail™

Floor standing frame



BOM™



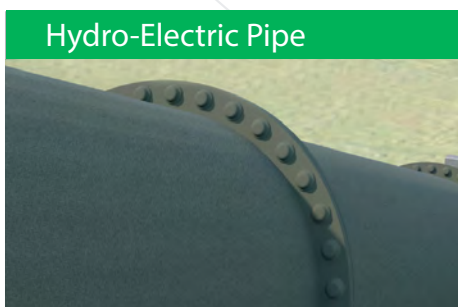
Blinds

Panel structure



CAM-PT10

Roof attachment
bracketry



Hydro-Electric Pipe

Application



BobTail™

Pipe construction



BOM™



Parabolic Trough Frame

Application



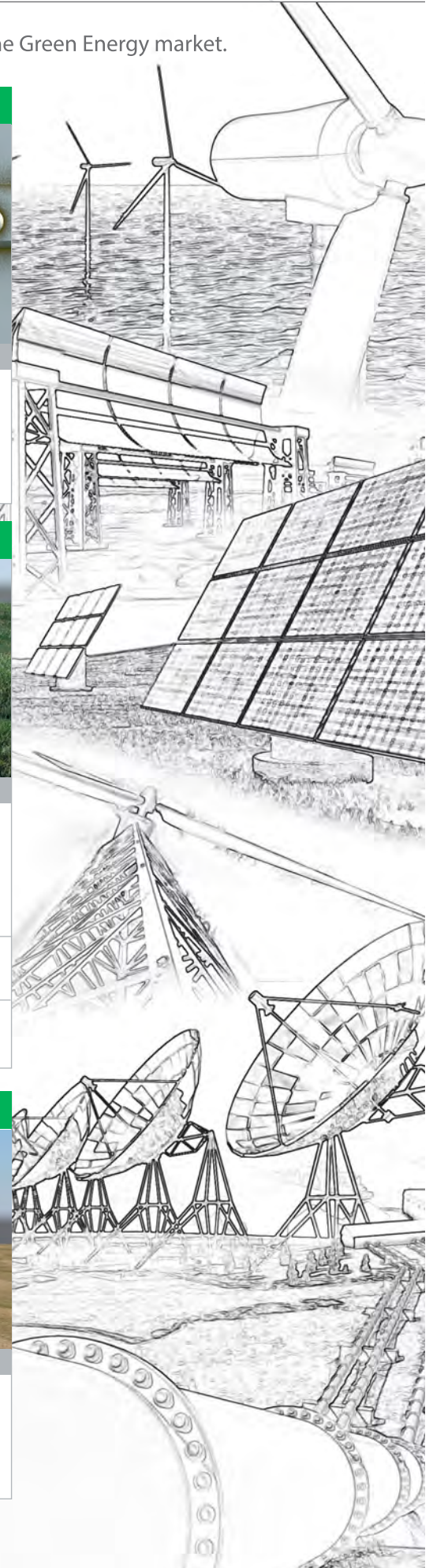
BobTail™

Frame



Hucklok™

Tower construction



LockBolts and Blind Fasteners





<p>Next Step in LockBolt Evolution - BobTail</p> 	<p>Large Diameter Structural Blind Fasteners</p> 	<p>Small Diameter Structural Blind Fasteners</p> 	<p>Marson Non Structural Blind Fasteners</p> 	<p>Tooling Solutions</p> 
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Benefits:

- Tamperproof - once installed cannot be removed without specialist tooling
- Maintenance free joints - no need to torque or re-torque
- Will not loosen even under extreme vibration
- High speed, easy to install systems can reduce production time by 75%
- Improves health and safety - replace welded joints

Quick Release Fastening Solutions



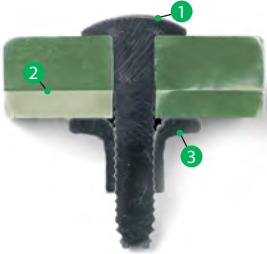
<p>Quick Release Fasteners</p> 	<p>Draw Latches</p> 	<p>Locks</p> 	<p>Hinges</p> 	<p>Handles</p> 	<p>Customised Solutions</p> 
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Benefits:

- Fasteners can be locked and unlocked in a matter of seconds - saving time and reducing costs
- Vibration resistant - performs well in even the most intensive applications
- The capability to develop and produce parts according to your requirements

Solutions For Joining Composite Materials

Huck LockBolts are ideal for joining composite material together



- 1) Consistent and predictable clamp force, important when using composite materials
- 2) Large diameter head reduces stress concentration on material
- 3) Wide flange collar increases surface contact, reducing the stress on joined material

Introducing Howmet Fastening Systems

Howmet Fastening Systems offers the greatest breadth and depth of fastening solutions available including from our standard range: slotted nuts, self-locking nuts, 1/4 turn fasteners, high tensile latches, threaded inserts, lockbolts & structural blind fasteners.

Alternatively, through decades of experience working closely with major manufacturers from a myriad of markets, Howmet can develop specially engineered parts designed to your specific fastening needs.

With manufacturing and distribution facilities on the major continents, Howmet is ideally suited to work with customers on a global basis.

These strengths combined with Howmet's long-standing leadership and commitment to excellence make Howmet Fastening Systems the best choice to answer your fastening system needs.



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