

HYBRID PIPELINE SLEEPER

The Strength of Steel & the Durability of Plastic

The strength of steel

- Engineered internal steel support structure
- Rated to support loads of 25,000 lbs on virgin soil

The durability and longevity of plastic

- Heavy-duty, high-impact, UV-stabilized HDPE shell
- Impermeable to water and frost
- 25+ year expectancy covers the life of your project

Universal saddle for versatility and value

- Supports any pipe from 4" to 48" OD
- 10" of clearance for easy flange access
- Saddle acts as a guide and provides ovality resistance
- Custom units available for any pipe diameter or clearance between grade and bottom of pipe

Sleeper moves with your pipeline

- Sleeper moves with pipeline as it expands and contracts without toppling or damaging pipeline
- Pipeline also moves along the saddle meaning no costly wear pads and less maintenance

Easy to handle and quick to install

- Lightweight at about 63.2 pounds (28.7 kg)
- Built in lifting points for easy handling

Install on virtually any surface

- Install directly on unconsolidated virgin soils or engineered surfaces with level and vertical grades

Low installation and transport costs

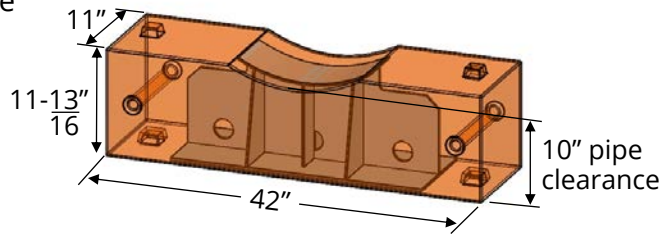
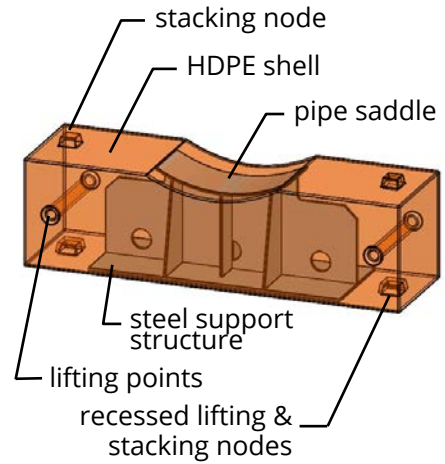
- No skilled trades people or heavy equipment
- Hundreds of sleepers fit on a truck

Environmentally and pipeline friendly

- HDPE is inert & softer than most pipeline coatings
- Corrosion-free and no soil contamination
- 100% recyclable after its 25+ year life expectancy

Increase worksite safety and diversity

- Built-in lifting points for easy handling
- High-visibility colors or glow in the dark
- Interlocking nodes for stacking and storage
- No metal-to-metal contact, straps or hot work
- Easy access to flanges for pipeline maintenance



Field-proven in the Oil Sands

- Tough and built to last for 25+ years

Countless applications

- Crude oil and natural gas pipelines
- Hot process water lines
- Mine tailings and slurry lines
- Water transmission lines
- Commercial and residential piping
- HVAC systems
- Stringing and welding
- Integrity digs
- Pipe inspection and fabrication
- Pipe storage and transportation

Contact us to discuss a free and no obligation custom design

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Technical Specifications of our base model

- Load rating: 25,000 pounds (110 kN)
- Steel insert: CSA G40.21 A36/44W (350WT CAT 4 also available)
- Shell: Rotationally molded 3/8" UV-stabilized HDPE (custom thicknesses available)
- Dimensions: 42"L x 11"W x 11-13/16"T (1,067mm L x 300mm W x 279mm H)
- Universal saddle accommodates any pipe diameter between 4" and 48"
- 254mm (10") of clearance below pipe (custom heights available)
- Sleeper weight: 63.2 lbs (28.67 kg)
- Proudly made in Canada by Koenders Mfg. in Englefeld, Saskatchewan
- **Custom designs available at no cost and with no obligation**

30" OD Pipe Load Applicator Results									
-40° F / -40° C Testing					104° F / 40° C Testing				
Total Load (lb)	Deflection (1/1000 in.)	Rotation (degrees)	Coefficient of Friction		Total Load (lb)	Deflection (1/1000 in.)	Rotation (degrees)	Coefficient of Friction	
			Static	Dynamic				Static	Dynamic
10,722	88	0.3	0.36	0.31	11,068	99	1.7	0.39	0.33
21,514	132	0.3	0.33	0.30	20,588	130	1.2	0.33	0.30
30,148	154	0.3	0.32	0.30	30,170	146	1.5	0.31	0.29
40,172	174	0.5	0.32	0.29	41,040	162	1.0	0.32	0.29
50,300	196	0.7	0.32	0.29	50,572	180	1.0	0.32	0.29



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