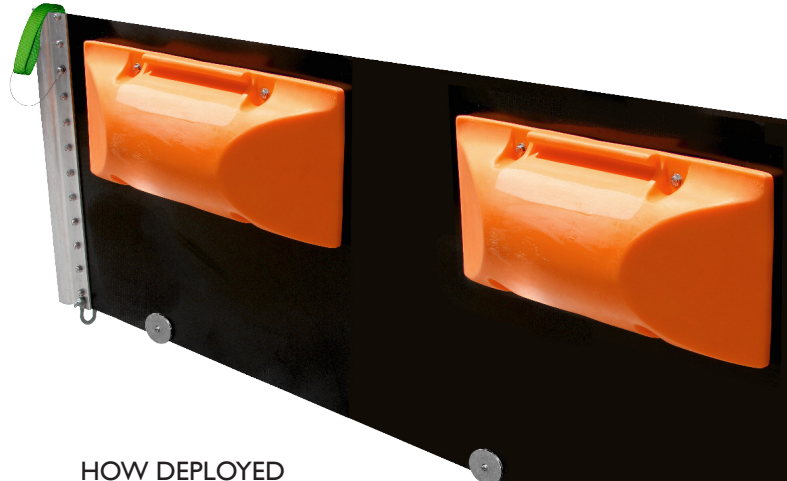


# Permanent Boom SPECIFICATIONS



Orion Permanent boom is a permanent installation containment and/or exclusion boom made with durable UV resistant belting impregnated with marine growth inhibitors. Constructed using high impact resistant molded floats offering high visibility and buoyancy.



#### DISCHARGE OR SPILL TYPE

Petroleum products, debris and other floating material.

#### TYPE OF CONNECTOR

Quick disconnect, heavy duty Universeal aluminum, tool free.

#### COMPATIBILITY

Universeal connectors interconnect with other ASTM connectors.

#### HOW DEPLOYED

Usually from shore.

#### TOWING SPEED

Up to 10 knots.

#### PERSONNEL REQUIRED

2 to 4 people.

#### HOW MOORED

Anchor points every 50'.

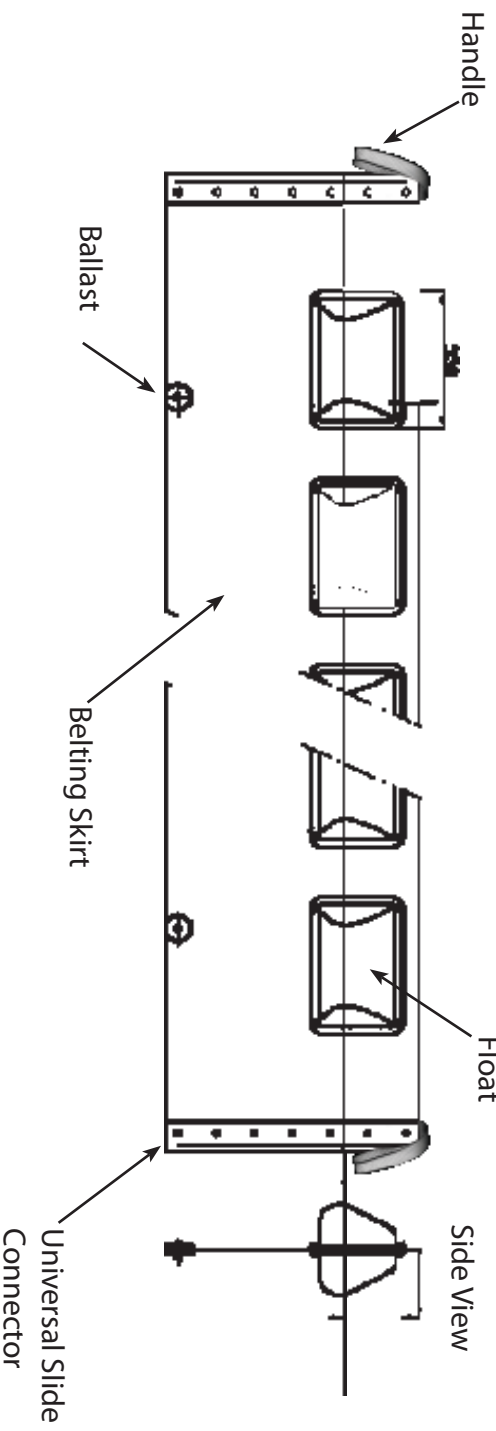
MODEL	PERMA18	PERMA24	PERMA36	PERMA48
Freeboard	8"	10"	12"	14"
Draft	10"	14"	24"	34"
Overall	18"	24"	36"	48"
Standard Length	50' and 100' sections	50' and 100' sections	50' and 100' sections	50' and 100' sections
End Connectors	ASTM quick connect, heavy duty universal aluminum tool free slide connector with optional zinc anodes.	ASTM quick connect, heavy duty universal aluminum tool free slide connector with optional zinc anodes.	ASTM quick connect, heavy duty universal aluminum tool free slide connector with optional zinc anodes.	ASTM quick connect, heavy duty universal aluminum tool free slide connector with optional zinc anodes.
Skirt Material*	150 oz. PVC coated Polyester belting fabric with Marine growth inhibitors.	150 oz. PVC coated Polyester belting fabric with Marine growth inhibitors.	150 oz. PVC coated Polyester belting fabric with Marine growth inhibitors.	150 oz. PVC coated Polyester belting fabric with Marine growth inhibitors.
Flotation	High buoyancy / high impact resistant closed cell foam filled ABS Plastic.	High buoyancy / high impact resistant closed cell foam filled ABS Plastic.	High buoyancy / high impact resistant closed cell foam filled ABS Plastic.	High buoyancy / high impact resistant closed cell foam filled ABS Plastic.
Ballast Material equally spaced	Galvanized. Optional Stainless Steel or Lead.	Galvanized. Optional Stainless Steel or Lead.	Galvanized. Optional Stainless Steel or Lead.	Galvanized. Optional Stainless Steel or Lead.
Ballast Weight	0.6 lb/ft	0.6 lb/ft	0.6 lb/ft	0.6 lb/ft
Anchor Points	OC every 50'	OC every 50'	OC every 50'	OC every 50'
Tension Member Strength	Belting = 1,500 lbs./in of height.	Belting = 1,500 lbs./in of height.	Belting = 1,500 lbs./in of height.	Belting = 1,500 lbs./in of height.
Weight/ft.	6.6 lbs. (approximate)	7.0 lbs. (approximate)	7.5 lbs (approximate)	8.0 lbs. (approximate)
Color	Black belting with high visibility yellow** float.	Black belting with high visibility yellow** float.	Black belting with high visibility yellow** float.	Black belting with high visibility yellow** float.

\*Optional material - 175oz. PVC or 80oz. Orange Polyurethane. Additional costs may apply.

\*\*Optional float colors are yellow, green or black. Additional costs apply.



# Permanent Boom



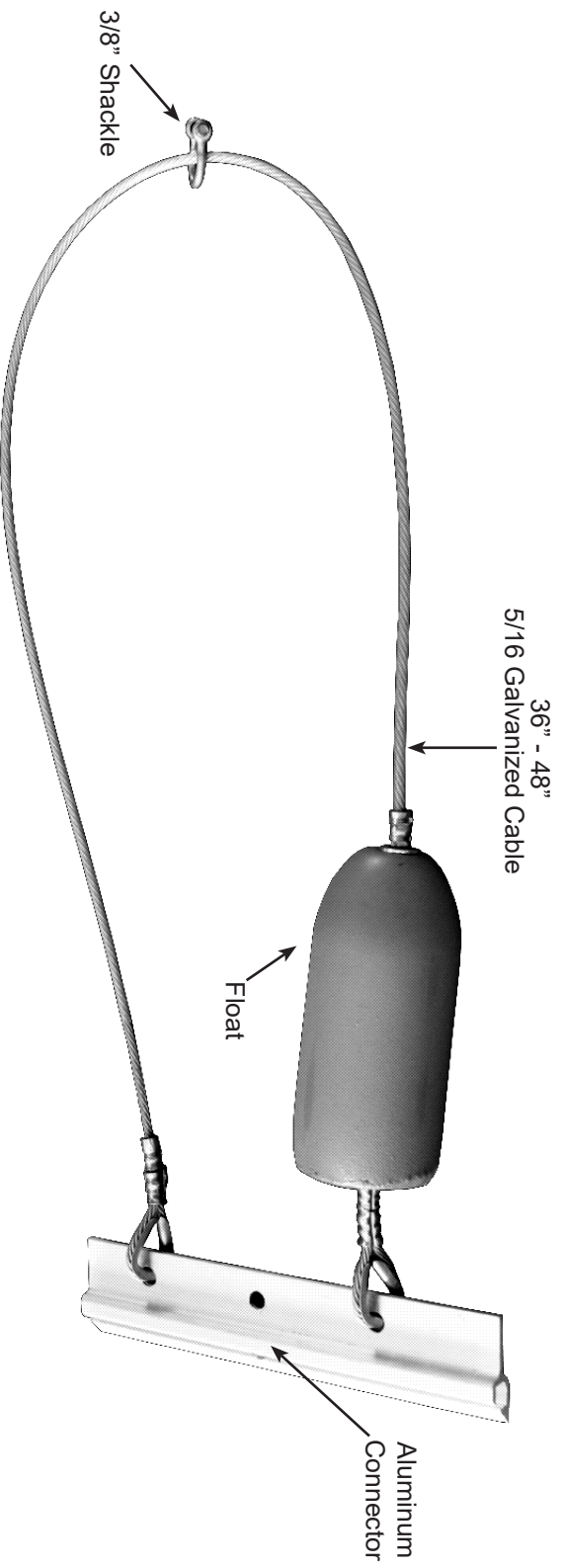
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## Orion Permanent Boom

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# Tow Bridle



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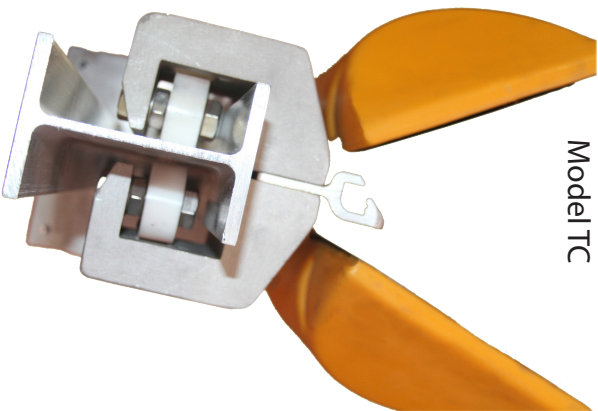
## Tow Bridle

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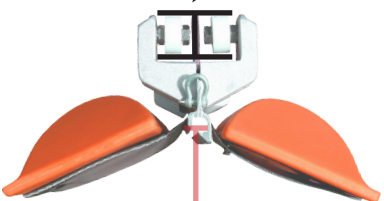
# Tidal Compensator Model Comparison

Model TC



Eight wheel model set up on one plane. High forward center action.

This line represents where the tidal compensator is connected to the I-Beam.



This line represents where the boom or curtain is connected to the tidal compensator via the universal slide connector.

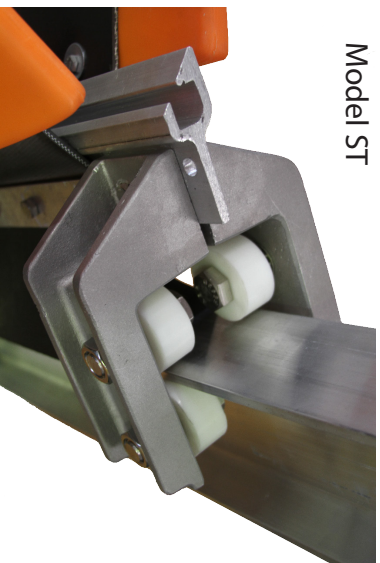
Model HD



Eight wheel model set up on three planes. Wheels make contact with all planes resulting in less forward and backward as well as side to side center.

Each GEI Works Tidal Compensator has an eight wheel bracket that connects to a metal I-Beam. Each model has varying levels of center. Please see the descriptions captioned below each photo for details. The high impact floats are made with rigid polyethylene and a foam interior which provides 21lbs. of buoyancy per float.

Model ST



Eight wheel model set up on two planes. Wheels make contact with both sides of plane decreasing forward and backward center.



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## Tidal Compensator Models TC, ST and HD

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Drawing:

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By: