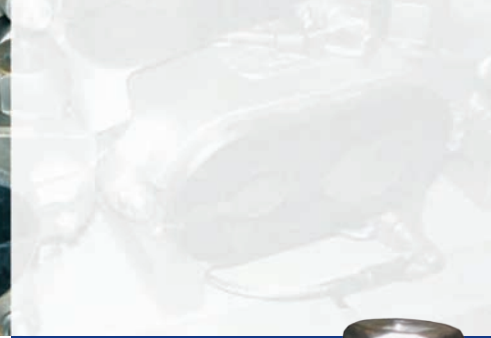


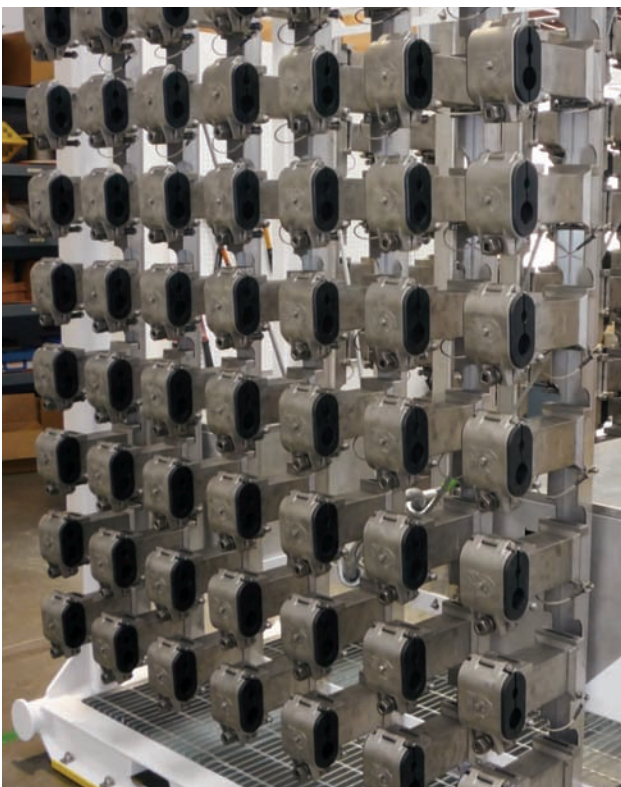
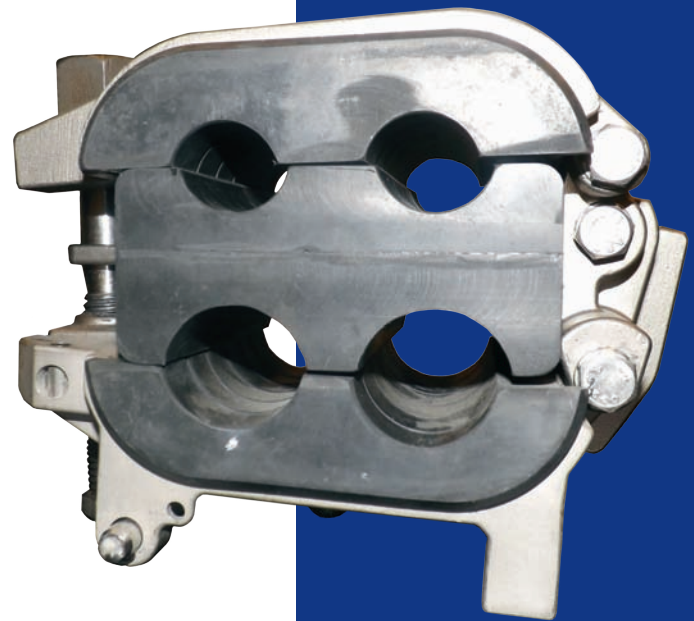
HSDW CLAMP



HSDW (High Strength Deep Water) Clamps are developed to meet the deepwater BOP control requirements of multiplex and hydraulic hot line installation on drilling risers. These clamps provide up to a sustained tension of 2000-lbf without inducing jacket slip or damaging the umbilical in the grip process. HSDW Clamps are made from stainless steel shells with customizable nitrile inserts and can be secured to a variety of mounting options.

Available in customizable sizes:

- A 2" HSDW Clamp that can hold up to 2 lines with a maximum line diameter of 2"
- A 3" HSDW Clamp that can hold up to 3 lines with a maximum line diameter of 3"
- A double-decker HSDW Clamp that can hold up to 4 lines with a maximum line diameter of 2"



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HSDW CLAMP

Technical Data



ABCO Subsea manufactures HSDW clamps in two sizes to accommodate nominal 2" and 3" lines. A Double-Decker HSDW Clamp is also available and can hold up to four lines. Generally, these clamps have a grip strength up to 2,000 lbf.

	2" HSDW Clamp	3" HSDW Clamp	Double Decker HSDW Clamp
Weight in Air:	10 lbs. (4.5 kg)	12.6 lbs. (5.7 kg)	13.57 lbs. (6.2 kg)
Weight in Water:	7.7 lbs. (3.5 kg)	8.9 lbs. (4.0 kg)	9.91 lbs. (4.5 kg)
Length:	7.05" (179.1 mm)	8.3" (210.8 mm)	7.95" (201.9 mm)
Width:	5.3" (134.6 mm)	5.3" (134.6 mm)	5.3" (134.6 mm)
Height:	4.6" (116.8 mm)	5.4" (137.2 mm)	6.4" (162.6 mm)
Pipe Size Range:	4" OD to 8.5" OD	4" OD to 8.5" OD	4" OD to 8.5" OD
# of Lines per Clamp:	1 or 2	1, 2, or 3	up to 4
Max Line OD:	2.0" (50.8 mm)	3.0" (76.2 mm)	2" (50.8 mm)

Material Specs:

CLAMP SHELL AND MOUNTING BRACKETS	
Material Designation	316 – L Stainless Steel
Manufacturing Process	Lost Wax Investment Casting
Tensile (min.)	81,000 psi
Yield (min.)	42,000 psi
Elongation at break	50%

FASTENERS	
Material Designation	316 – L Stainless Steel
Manufacturing Process	Cold Formed
Tensile (min)	85,000 psi
Yield (min)	45,000 psi
Elongation at break	50%

RUBBER INSERTS	
Material Designation	Nitrile Butadiene Rubber
Manufacturing Process	Injection Molded
Elongation at break	440%