

Smart® Band Hybrid



The Hybrid name points to the unique patented design of the teeth that sit within the buckle. The low profile buckle is made from a composite of materials allowing for greater flexibility and providing a significant increase in strength over the Standard system.

Smart® Band Hybrid is HCL's high strength composite polymer based band and buckle system. With a range of installation tools including the high speed 3000 pneumatic tool the Smart® Band Hybrid is the ideal solution for many offshore and onshore applications.

Smart® Band Hybrid is typically used as an alternative to high grade corrosion resistant alloy strapping solutions such as Inconel 625, Monel & Titanium. The Hybrid system combines a number of excellent qualities such as high strength, ease of use, high retention, relaxation properties and long life, to provide the ideal strapping solution for offshore & subsea use.

Key Features

- Low Profile Buckle
- High strength up to 2629kgf (5793lbf)
- Long-life materials
- Safe and easy to fit
- High speed installation
- High retention force – above 918kgf (2023lbf)
- Suitable for divers

19mm (¾ inch)

32mm (1¼ inch)



Performance & Material

System		Max System Strength		Min Diameter		Max Temp Resistance*		Flammability*	
Dimensions		Measured on 600mm diameter							
mm	in	Material	kgf	lbf	mm	in	°C	°F	
19	¾	PA12GF	1321	2911	200	4	110	230	HB
		POM	1017	2238	200	4	95	203	
		PA66	1297	2859	200	4	125	257	
32	1¼	PA12GF	2344	5166	400	8	110	230	

*Life expectancy is dependant on the working temperature..



Dimensions, Part Numbers & Packaging

System				Band Dimensions					Buckle Dimensions			Buckle	
Dimensions		HCL Part No		Width		Thickness		Band Reel Lengths*		Height	Length	Width	Pack Qty
mm	in	Band	Buckle	mm	in	mm	in	m	ft	mm/in	mm/in	mm/in	
19	¾	SB-BA-3/4	SB-BU-3/4-HY	19.2	0.76	3.6	0.14	30/60	100/200	12.8/0.50	99.0/3.90	53.0/2.09	50
32	1¼	SB-BA-1-1/4	SB-BU-1-1/4-HY	32.2	1.27	4.7	0.19	30	100	16.8/0.66	135.5/5.33	76.8/3.02	25

*Band is available in pre-cut lengths with buckle fitted for large volume orders.



Tool Options & Retention

System		Min System Retention*			Speed of Installation	Tool Type	Tension Control	
Dimensions		Tool	N	kgf				lbf
mm	in							
19	¾	SM-FT-1000-19	3500	357	787	20 secs	Manual	Torque Wrench
		SM-FT-2000-19	3000	306	674	10 secs	Manual	Hand
		SM-FT-3000-19	4000	408	899	5 secs	Pneumatic	Air Regulator
32	1¼	SM-FT-1000-32	7000	714	1574	20 secs	Manual	Torque Wrench
		SM-FT-2000-32	3500	357	787	10 secs	Manual	Hand
		SM-FT-3000-32	9000	918	2023	5 secs	Pneumatic	Air Regulator

*Values may be lower depending on materials chosen please refer to Technical Booklets for more information.

Note – Values may be lower depending on Buckle position, Material chose and Application Diameter. Please refer to the Technical Booklet for more information.