



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.



Performance & Material

System			Max System Strength		Min Diameter		Max Temp Resistance*		Flammability*
Dimensions		Material	kgf	lbf	mm	in	°C	°F	
mm	in								
19	3/4	PA12GF	1321	2911	200	4	100	212	HB
19	3/4	POM	1017	2238	200	4	95	203	HB
32	1 1/4	PA12GF	2344	5166	400	8	100	212	HB

* Life expectancy is dependant on the working temperature. Refer to the Smart Products Technical Booklet for Downhole Use..

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	3/4	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	1 1/4	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	3/4	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	1 1/4	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	1798	5 secs	Pneumatic	Air Regulator

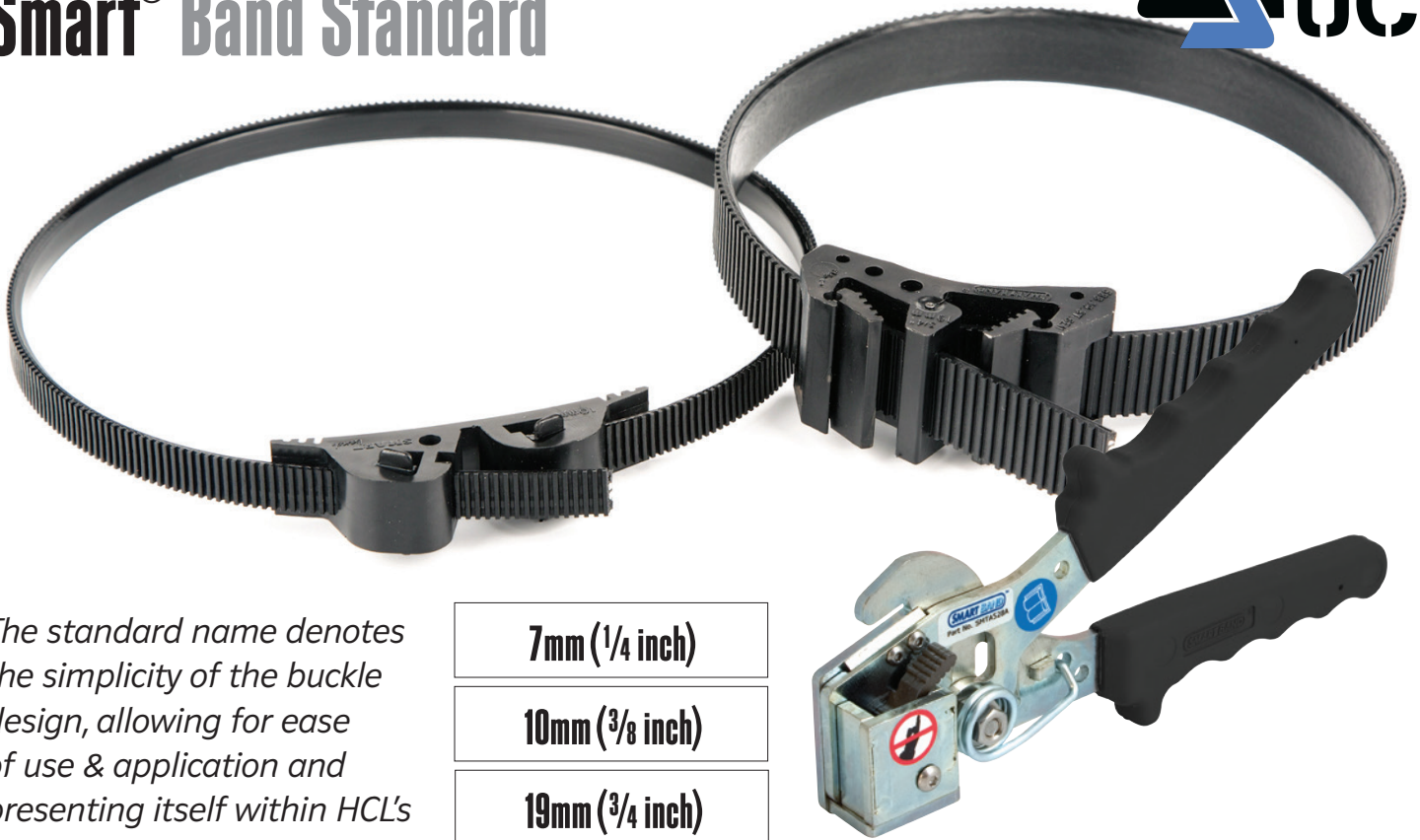
*Values may be lower depending on materials chosen please refer to Technical Booklets for more information.

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 2344kgf (5166lbf)
- Long-life materials
- Safe and easy to fit
- High speed installation
- High retention force - above 918kgf (1798lbf)
- Suitable for divers



The standard name denotes the simplicity of the buckle design, allowing for ease of use & application and presenting itself within HCL's product range as the general industry solution.

- 7mm (1/4 inch)
- 10mm (3/8 inch)
- 19mm (3/4 inch)

Smart® Band Standard is a non-metallic band and buckle system. Highly suited to lightweight applications such as temporary and permanent sign fixing and HVAC.

Smart® Band Standard system is available in a variety of materials, sizes and reel lengths. It offers long-life and non-corrosive properties, making it the ideal alternative to many high grade stainless steel strapping solutions.

Key Features

- Strength up to 264kgf (581lbf)
- Non-corrosive
- Safe and easy to fit
- Long life materials
- Lightweight easy to use hand tools
- Highly suited for temporary sign installation

Performance & Material

System		Material	Max System Strength		Min Diameter		Max Diameter		Max Temp Resistance*		Flammability*
mm	in		kgf	lbf	mm	in	mm	in	°C	°F	
7	1/4	PA66	90	197	100	3.94	600	24	125	260	V-2
10	3/8	PA66	264	581	76	2.96	600	24	125	260	V-2
10	3/8	PA12	127	280	76	2.96	600	24	100	212	HB
19	3/4	PA66	440	969	75	3.00	800	32	125	260	V-2

* Life expectancy is dependant on the working temperature. Refer to the Smart Products Technical Booklet for Downhole Use

Dimensions, Part Numbers & Packaging

System		Band Dimensions				Buckle Dimensions			Buckle Pack Qty				
Dimensions		HCL Part No		Width		Thickness		Band Reel Lengths		Height	Length	Width	
mm	in	Band	Buckle	mm	in	mm	in	m	ft	mm/in	mm/in	mm/in	
7	1/4	SB-BA-1/4	SB-BU-1/4-ST	6.9	0.27	2.6	0.1	30/250	100/820	19.2/0.76	76.0/2.99	15.1/0.59	100
10	3/8	SB-BA-3/8	SB-BU-3/8-ST	9.8	0.39	3.6	0.14	30/125	100/410	21.5/0.85	77.2/3.04	22.9/0.9	100
19	3/4	SB-BA-3/4	SB-BU-3/4-ST	19.0	0.75	3.6	0.14	30/60	100/200	28.3/1.11	63.8/2.51	30.2/1.19	50

Tool Options & Retention

System		Min System Retention			Speed of Installation	Tool Type	Tension Control		
Dimensions		Tool		N				kgf	lbf
mm	in								
7	1/4	SM-TA-528A		200	20	45	10 secs	Manual	Hand
10	3/8	SM-TA-528A		750	77	169	10 secs	Manual	Hand
19	3/4	SM-FT-1000-19		1200	122	270	20 secs	Manual	Torque Wrench
		SM-FT-2000-19		1200	122	270	10 secs	Manual	Hand