

# INTRODUCING TITAN. THE WIRE ROPE CENTRE IN EUROPE FOR THE WORLD



**ONE STOP SHOPPING FOR ALL YOUR MOORING,  
ANCHORING AND TOWING NEEDS**

**TITAN** WIRE ROPE  
CENTRE  
EUROPE

MOORING . ANCHOR HANDLING . TOWING

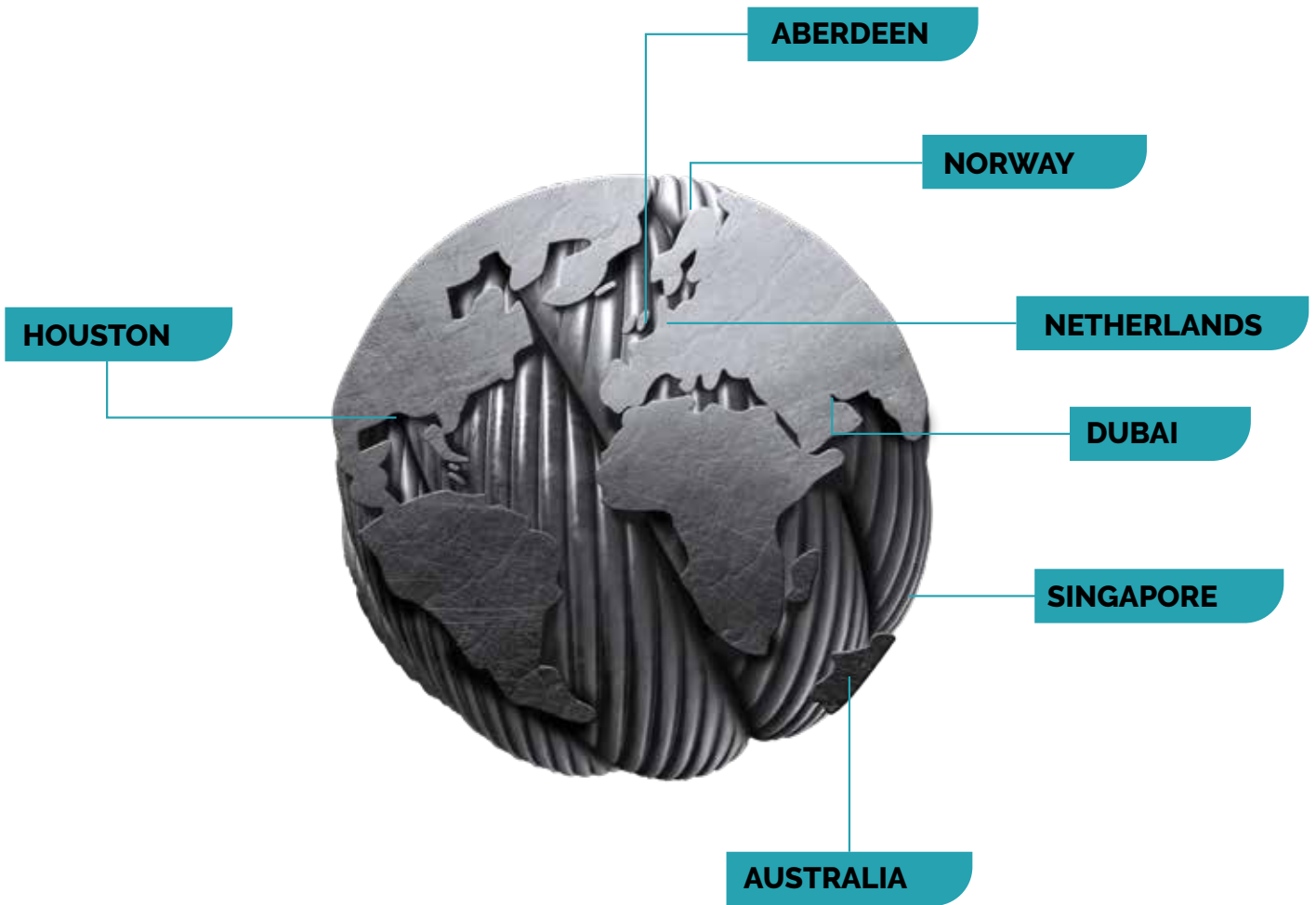
POWERED BY  USHA  
MARTIN

Over the years, Usha Martin has developed into one of the largest and most preferred designers, producers and suppliers of heavy duty wire ropes towards the Oil & Energy, Offshore Wind and Marine sectors.

Under its brand name TITAN, Usha Martin's range of mooring, towing and anchor handling wire ropes is unrivalled and daily used by the largest players active in these market segments.

In order to better accommodate the growth perspective within its main market segments and in close conjunction with its customer base, Usha Martin opened its dedicated European Mooring, Towing & Anchor Handling Wire Rope Centre. The Wire Rope Centre will have its main base in Aberdeen and further European locations in The Netherlands and Norway. In addition, the Wire Rope Centre is fully integrated within Usha Martin's main distribution hubs in Singapore, Houston, Australia and Dubai. Consequently, providing world-wide coverage for its customer base.





## Global Installation & Inspection Services

**Correct and safe installation of wire ropes is key to maximize performance and durability of your mooring, towing and anchor handling wireropes.** Usha Martin's vision to act as a globally oriented turnkey and one-stop-shop results in a unique and privileged position within the wire rope industry. Throughout its owned and specialized service and rigging centres it can provide inspection and installation services on mooring, towing and anchor handling wire ropes on a world-wide basis. These service & rigging centres are offered and coordinated in Aberdeen and also offered throughout its sister companies and strategic partners in The Netherlands, Norway, Singapore, Dubai and Houston.



## Unrivalled Inventory Position

As no other, Usha Martin understands the local and global needs of its customer base. This resulted in a carefully selected range of heavy duty wire ropes available for immediate processing and delivery. Our global inventory position comprises of 5000T of mooring, towing and anchor handling wire ropes and growing. To fully comply with the needs of our customer base, the majority of our wire ropes come with 3rd party certification, including DNV-OS-ST-E304 on demand. Within our state-of-the-art rigging centres, all wire ropes can be cut to length and equipped with the desired end terminations. All done in-house and often within 24 hours.



## Global Production Capabilities

Our range of TITAN wire rope solutions are produced in multiple locations within the Usha Martin Group, and with main manufacturing bases in India and the UK. Depending upon your geographic needs, we offer you complete flexibility and choice of production. This to ascertain speed of supply against the highest quality standards available in the market.

## Unique Selection of Wire Ropes

Our range of TITAN wire ropes is carefully designed and developed in line with the needs of our customer base and market conditions. Depending upon the application we offer a choice of wire ropes in various constructions and rope grades, both round strand as compacted. Below overview shows our range of capacity, which can be further finetuned to your specific needs in terms of performance, safety, reliability and sustainability.



**DISCOVER  
THE STRENGTH  
OF OUR ROPES**

- ✓ Suitable for anchor mooring and pennants
- ✓ Conforming to API Specification 9A and other International Standards
- ✓ Special ropes for anchor mooring and pennants
- ✓ Special ropes for mooring and anchor lines
- ✓ High load capacity
- ✓ High shock resistance
- ✓ MBF, dimensions and lay type can be designed on request

## CONVENTIONAL ROPES 6 STRAND



- ✓ Suitable for anchor mooring and pennants
- ✓ Conforming to API Specification 9A and other International Standards

NOMINAL DIAMETER		MASS				MINIMUM BREAKING			
Metric	Imperial	Metric		Imperial		Force		Load	
		Air	Water	Air	Water	EIPS	EEIPS	EIPS	EEIPS
mm	inches	kg/m <sup>2</sup>	kg/m	lb/ft	lb/ft	kN	kN	Tonnes	Tonnes
52	2	10.5	8.86	7.05	5.96	1680	1840	171	188
54	2-1/8	11.0	9.28	7.39	6.24	1760	1930	179	197
58	2-1/4	12.4	1.05	8.33	7.06	1970	2160	201	220
58	2-1/4	13.9	11.7	9.34	7.86	2200	2420	224	247
60	2-3/8	15.5	13.1	10.4	8.80	2400	2690	245	274
64	2-1/2	17.3	14.6	11.6	9.81	2690	2950	274	301
67	2-5/8	19.1	16.1	12.8	10.8	2930	3240	299	330
71	2-3/4	20.1	16.9	13.6	11.4	3170	3420	323	348
71	2-3/4	20.8	17.5	14.0	11.8	3270	3520	333	360
74	2-7/8	22.2	18.7	14.9	12.7	2450	3740	351	381
74	2-7/8	22.8	19.2	15.3	12.9	3540	3840	361	392
77	3	24.2	20.4	16.3	13.7	3730	4070	380	415
77	3	24.7	20.8	16.6	14.0	3810	4160	389	424
80	3-1/8	26.8	22.6	18.0	15.2	4090	4490	417	458
83	3-1/4	29.0	24.5	19.5	16.5	4380	4830	447	493
87	3-3/8	30.4	25.6	20.4	17.2	4640	5030	473	513
87	3-3/8	31.3	26.4	21.0	17.7	4780	5180	487	528
90	3-1/2	33.8	28.5	22.7	19.2	5090	5520	519	563
92	3-5/8	35.4	29.9	23.8	20.1	5360	5860	547	598
96	3-3/4	38.7	32.6	26.0	21.9	5740	6270	585	639
96	3-3/4	42.8	36.1	28.8	24.2	6340	6500	646	663
103	4	44.0	37.1	29.6	24.9	6520	6680	665	681

These figures are for guidance only. Other features, such as MBF, dimensions and lay type can be designed on request.

## TITAN 6 STRAND

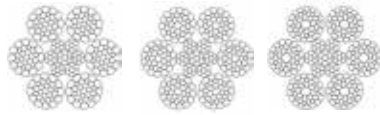


- ✓ Suitable for anchor mooring and pennants
- ✓ Conforming to API Specification 9A and other International Standards

NOMINAL DIAMETER		MASS				MINIMUM BREAKING					
Metric	Imperial	Metric		Imperial		Force	Load	Force	Load	Force	Load
		Air	Water	Air	Water	TITAN		SUPERTITAN		TITANMAX	
mm	inches	kg/m	kg/m	lb/ft	lb/ft	kN	Tonnes	kN	Tonnes	kN	Tonnes
52	2	10.7	9.02	7.19	6.06	1950	199	2120	217		
54	2-1/8	11.2	9.45	7.53	6.35	2040	208	2220	227		
54	2-1/8	12.7	10.7	8.54	7.19	2300	234	2490	254		
58	2-1/4	14.2	12.0	9.54	8.06	2540	259	2760	282		
60	2-3/8	15.7	13.2	10.6	8.87	2810	287	3060	312		
64	2-1/2	17.5	14.8	11.8	9.95	3100	316	3370	343		
67	2-5/8	19.3	16.3	13.0	11.0	3390	346	3690	376		
71	2-3/4	20.5	17.3	13.7	11.6	3590	366	3900	397		
71	2-3/4	21.2	17.9	14.2	12.0	3710	378	4030	410		
74	2-7/8	22.6	19.1	15.2	12.9	3930	400	4270	435		
74	2-7/8	23.0	19.6	15.6	13.2	4030	411	4380	447		
77	3	24.8	20.9	16.6	14.0	4280	437	4650	474	4840	494
77	3	25.3	21.3	17.0	14.3	4370	446	4750	484	4940	504
80	3-1/8	27.4	23.1	18.4	15.5	4710	480	5120	522	5320	543
83	3-1/4	29.6	25.0	19.9	16.8	5070	517	5510	562	5730	584
87	3-3/8	21.1	26.2	20.9	17.6	5170	526	5730	584	5960	608
87	3-3/8	32.0	27.0	21.5	18.1	5320	542	5900	602	6140	626
90	3-1/2	34.4	29.0	23.1	19.5	5670	578	6290	642	6670	680
92	3-5/8	36.8	31.0	24.7	20.8	5990	611	6660	679	6970	710
96	3-3/4	39.5	33.3	26.5	22.4	6330	645	7030	717	7260	740
96	3-3/4	43.2	36.4	29.0	24.4	6930	706	7700	784		
103	4	44.4	37.4	29.8	25.1	7120	726	7910	806		
105	4-1/8	47.4	40.0	31.9	26.9	7310	745	8120	828		
108	4-1/4	50.2	42.3	33.7	28.4	8030	819	8930	910		
115	4-1/2	56.2	47.4	37.8	31.9	8860	903	9850	1000		
121	4-3/4	62.6	52.8	42.1	35.5	9760	995	10840	1110		
127	5	69.4	58.5	46.6	39.3	10800	1100	12000	1220		

These figures are for guidance only. Other features, such as MBF, dimensions and lay type can be designed on request.

# TITAN COMPACTED 6 STRAND



- ✓ Recommended for mooring and anchor lines
- ✓ High load capacity
- ✓ High shock resistance

NOMINAL DIAMETER		MASS				MINIMUM BREAKING	
Metric	Imperial	Metric		Imperial		Force	Load
		Air	Water	Air	Water		
mm	inches	kg/m <sup>2</sup>	kg/m	lb/ft	lb/ft	kN	Tonnes
	2	11.6	9.78	7.80	6.57	2300	234
52		12.2	10.3	8.20	6.92	2400	245
54	2-1/8	13.2	11.1	8.87	7.46	2590	264
56		14.1	12.0	9.48	8.00	2790	284
58	2-1/4	14.8	12.5	9.95	8.40	2900	296
60	2-3/8	16.2	13.7	10.9	9.21	3200	326
64	2-1/2	18.2	15.3	12.2	10.3	3580	365
67	2-5/8	20.1	17.0	13.5	11.4	3950	403
	2-3/4	22.0	18.6	14.8	12.5	4340	443
71		22.7	19.1	15.3	12.8	4480	457
	2-7/8	24.0	20.2	16.1	14.0	4740	483
74		24.7	20.8	16.6	14.0	4860	496
	3	26.2	22.1	17.6	14.9	5160	526
77		26.7	22.5	17.9	15.1	5270	537
80	3-1/8	28.4	24.0	19.1	16.1	5600	571
83	3-1/4	30.8	26.0	20.7	17.5	6060	618
	3-3/8	33.1	27.9	22.2	18.8	6530	666
87		34.1	28.8	22.9	19.4	6730	686
90	3-1/2	35.6	30.0	23.9	20.2	7020	716
92	3-5/8	38.2	32.2	25.7	21.6	7290	743
96	3-3/4	41.0	34.6	27.6	23.3	7820	797
	3-7/8	43.7	36.9	29.4	24.8	8140	830
	4	46.6	39.3	31.3	26.4	8680	885
103		47.8	40.3	32.1	27.1	8910	909

*These figures are for guidance only. Other features, such as MBF, dimensions and lay type can be designed on request.*



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