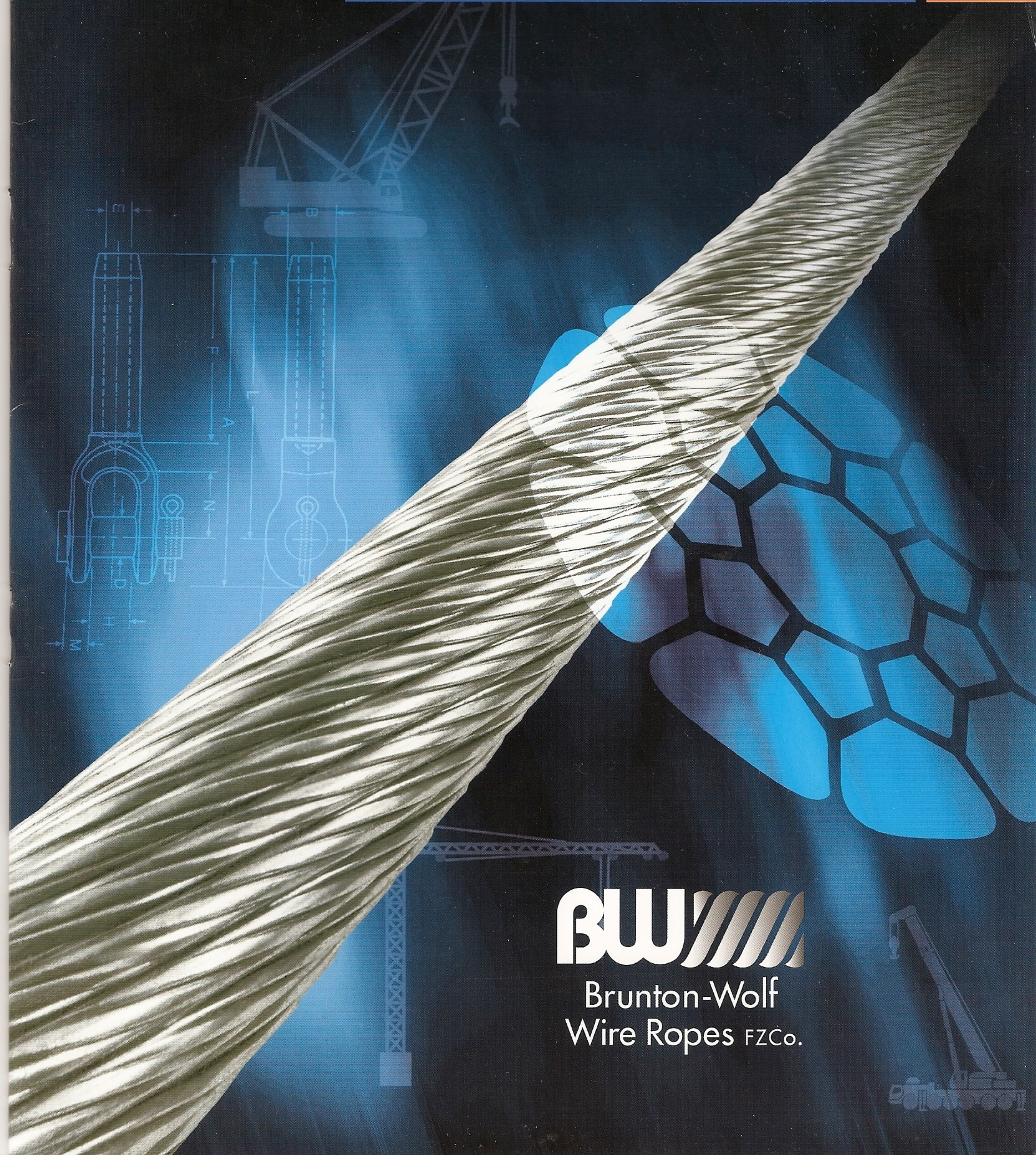
OIL & GAS | CONSTRUCTION | SHIPPING | FISHING | CRANE | ELEVATOR | SLINGS

Steel Wire Ropes



Brunton-Wolf
Wire Ropes FZCo.

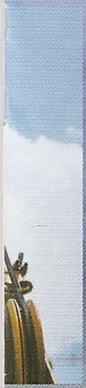
CONTENTS

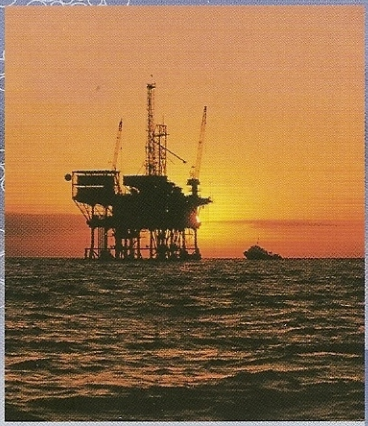
COMPANY PROFILE

Brunton Wolf Wire Ropes FZCo. is a joint venture between Usha Martin Limited of India, one of the world's largest rope producer and Gustav Wolf of Germany, leading producer of cord and speciality application ropes. The manufacturing facility was set up in September, 2003, which was inaugurated by Mr. Peter Woicke, Executive Vice President of International Finance Corporation & Managing Director of World Bank and Sultan Bin Suleyam, Chairman of Jebel Ali Free Zone, Dubai, with a focus on marketing the products in Middle East and Europe market. The product range includes general engineering rope, elevator rope, crane rope, offshore application rope, etc.

Usha Martin Group is in the business of steel and steel wire ropes since 1962. The group is one of the largest wire rope producer in the world having manufacturing facilities in India, Thailand, UK, Dubai and now USA. The group is having an integrated speciality steel plant of 360,000 MT capacity catering to the market in India, South East Asia, Far East, Australia and Middle East. Usha Martin's export share is almost 30% of its total turnover. Almost 2/3rd of rope production in India is exported mainly to America, Europe, Australia, Middle East, Asia, etc.

Established in 1887, Gustav Wolf can today look back on a history of more than 100 years. The growth of the Gustav Wolf group is based on modern development, founded on the long-years' experience in the production of steel wires, steel cord and steel wire ropes. Today, four production sites in Germany, France and India are active in the production of Gustav Wolf special products. About 700 employees manufacture more than 75,000 tons of steel wires and steel wire ropes annually.

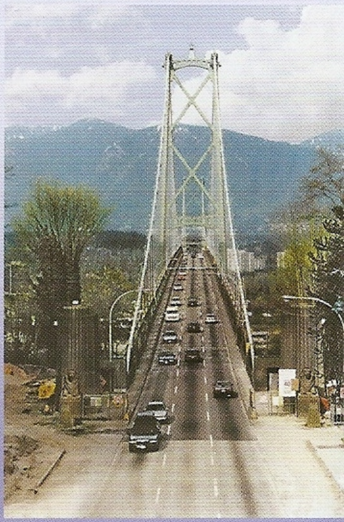




Brunton-Wolf Wire Ropes FZCo.

BRUNTON WOLF WIRE ROPES...

...The "EDGE" over Competition



QUALITY AND PERFORMANCE

The QUALITY POLICY is a statement relating to a broad spectrum of VALUE ADDED features, which together aim to ensure Quality, Reliability and Customer Delight. The following attributes give insight to the facts which precisely help you to identify what differentiates BRUNTON WOLF from its competitors–

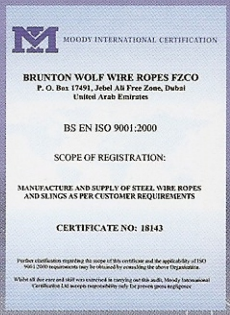
ENGINEERING

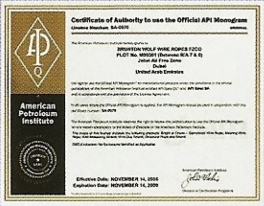
Brunton Wolf's engineering expertise differentiates itself from the competition. BWWR products are manufactured with Raw Materials from USHA MARTIN and GUSTAV WOLF, world leaders in speciality wire & rope products, using the state of art machineries. In house designed machinery and procedures for selecting and testing raw materials to allow for extra strength, extended fatigue performance and improved rotational resistance have resulted in BRUNTON WOLF being viewed as the STANDARD for the chosen industry, both Nationally and Internationally.

BWWR is proud to have its facility awarded certification for our Quality Assurance Program according to BS EN ISO 9001:2000 Standards. The plant has also been approved for API 9A certification.

BWWR is one platform which has integrated Product & Process technology, manufacturing excellence and testing standards, application engineering & training know-how of Brunton Show (UK), Gustav Wolf (Germany) & Usha Martin (India).


CERTIFICATE OF REGISTRATION
MOODY INTERNATIONAL CERTIFICATION
This is to certify that the Quality Management System of:
BRUNTON WOLF WIRE ROPES FZCO
have been assessed and registered against the following quality assurance standard:
BS EN ISO 9001:2000


MOODY INTERNATIONAL CERTIFICATION
BRUNTON WOLF WIRE ROPES FZCO
P. O. Box 17491, Jebel Ali Free Zone, Dubai
United Arab Emirates
BS EN ISO 9001:2000
SCOPE OF REGISTRATION:
MANUFACTURE AND SUPPLY OF STEEL WIRE ROPES AND SLINGS AS PER CUSTOMER REQUIREMENTS
CERTIFICATE NO: 18143


Certificate of Authority to use the Official API Monogram
BRUNTON WOLF WIRE ROPES FZCO
American Petroleum Institute

MOODY INTERNATIONAL
UKAS QUALITY MANAGEMENT

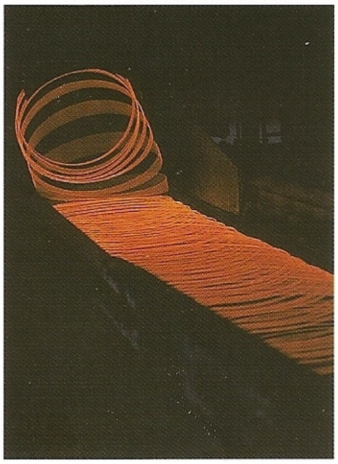
COMMITMENT TO QUALITY

Brunton Wolf tests a sample from each production batch to destruction in order to designate each rope by the actual breaking force which is stated on the test certificates. This gives the user a confirmation that the rope has met or exceeded its specified minimum breaking force value. Many of our competitors mention the calculated minimum breaking force value which is not verified until used by the Valued Customer. BWWR has also the testing facilities for fatigue life, crush resistance and rotational characteristics for the products within our High Performance Range.

CUSTOMER SERVICE

Service at Brunton Wolf is second to none. BWWR believes that excellence is achieved not only by having the product available when you want it, but by also providing a knowledgeable team of field sales representatives, a fully trained and capable Customer Services Team dealing specifically with enquiries and orders. The expert rope engineers provide a complete solution to the valued end user, with their ability to interpret their special needs from design through to manufacture and application. Brunton Wolf realizes that our customers should be knowledgeable about the properties, installation, use, inspection and maintenance of our products. Thus, we provide formal product training through seminars and continuous interaction.

Quality Guarantee



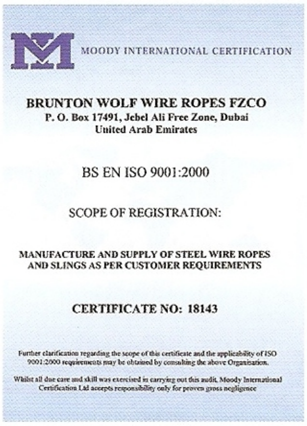
GUARANTEED RAW MATERIAL QUALITY – Good raw material input at the beginning of the rope making process combined with tight process control ensure consistently high quality in the finished rope. Usha Martin manufactures steel and rod to International standards and to even more exacting internal standards through its mini blast furnace - arc furnace - ladle furnace - vacuum degassing - electromagnetic stirring - continuous casting route.

A close and unique co-operation between company owned ISO 9001/9002 certified steel making, rod manufacturing and wire drawing facilities guarantee production feed materials which are "tailor made" to attain the required properties of ductility and tensile strength which are essential in the finished rope.

GUARANTEED BREAKING FORCE – As well as operating a rigorous programme of testing throughout the production process Brunton Wolf confirm the minimum breaking force of each and every finished rope with an actual test to destruction.

The test certificate which is supplied with every rope will indicate a minimum guaranteed breaking force and the actual breaking force at which the batch test sample broke.

GUARANTEED QUALITY SYSTEMS – Certification to ISO 9001 requires that Brunton Wolf document all work procedures, processes and related activities covering design, development, production, shipping and commercial activity.



MOODY INTERNATIONAL CERTIFICATION

BRUNTON WOLF WIRE ROPES FZCO
P. O. Box 17491, Jebel Ali Free Zone, Dubai
United Arab Emirates

BS EN ISO 9001:2000

SCOPE OF REGISTRATION:

MANUFACTURE AND SUPPLY OF STEEL WIRE ROPES AND SLINGS AS PER CUSTOMER REQUIREMENTS

CERTIFICATE NO: 18143

Further clarification regarding the scope of this certificate and the applicability of ISO 9001:2000 requirements may be obtained by consulting the above Organisation.

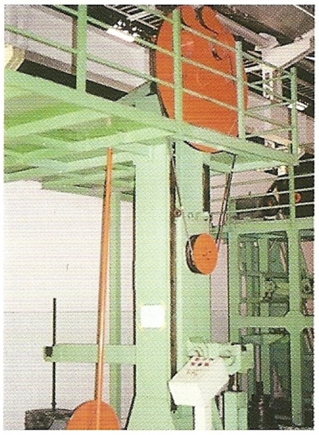
Whilst all due care and skill was exercised in carrying out this audit, Moody International Certification Ltd accepts responsibility only for proven gross negligence

More importantly certification to ISO 9001 requires a third party audit prior to attainment and ongoing auditing at six monthly intervals.

ISO 9001 is our customer's guarantee that we will do exactly what we say we are going to do.

GUARANTEED BENDING FATIGUE CHARACTERISTICS –

Bending fatigue resistance is the ability of the wire rope to withstand repeated bending over a sheave under constant or fluctuating loads.



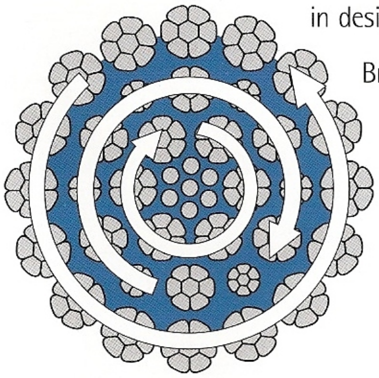
The ability to withstand bending fatigue will, along with other factors, determine the life of the rope and is therefore of interest to both the rope maker and the crane operator.

Brunton Wolf operate an ongoing fatigue testing programme which is designed to give comparative fatigue performance for various rope constructions and to provide information relative to product improvement and development.

GUARANTEED ROTATIONAL CHARACTERISTICS –

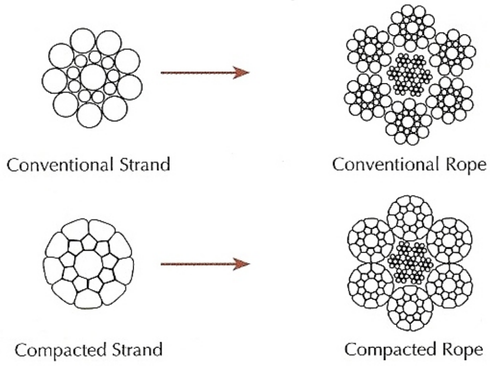
Each wire rope construction will have an inherent torque characteristic where both ends of the rope are secured and an applied force will generate torque at the fixing points. Each wire rope construction will have an inherent turn characteristic where one end of the rope is free to rotate and an applied force will cause the free end of the rope to turn.

With correct rope selection these characteristics should not cause a problem in service provided the rope has been correctly "balanced" in design and manufacture.

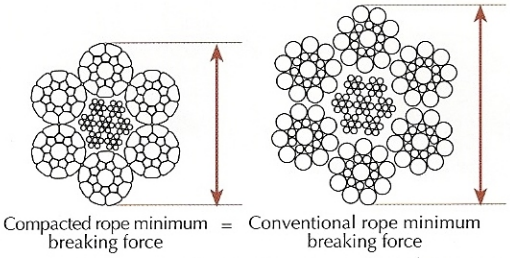


Brunton Wolf operate their own Torque/Turn testing machine which is used to confirm that all rotation resistant wire ropes possess the required rotational characteristics.

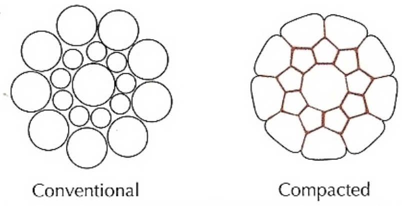
Cranemaster® Compacted Rope



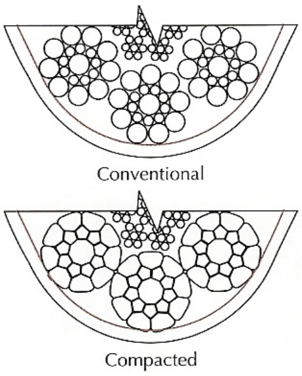
A Cranemaster® compacted rope is a steel wire rope which has been manufactured using individually compacted strands. During the compaction process the outside diameter of the strand is reduced and steel moves into the empty voids between the wires within the strand. The forming process also produces a very smooth exterior strand surface.



The resultant rope has a very high steel fill factor and consequently a relatively high minimum breaking force for any given diameter when compared with a conventional rope.

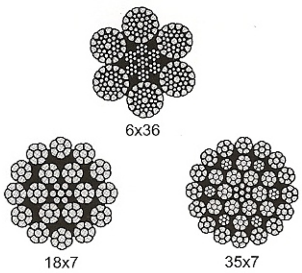


The compacted strand has very favourable internal contact conditions when compared with the point contact of round wires within a normal strand.



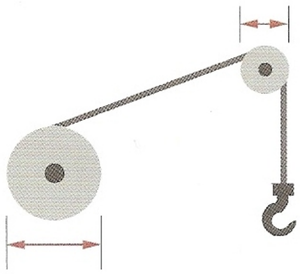
Exterior contact conditions are equally favourable.
The smooth surface of the compacted rope offers a wider bearing surface to the sheave or drum groove.

Inter strand contact between adjacent laps of rope on the winch drum is also improved.



Brunton Wolf compacted ropes are referred to as "Cranemaster®" and are available in a number of constructions.

Cranemaster®
Selection

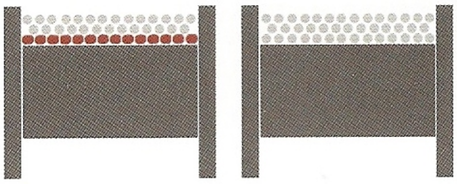


OPTIMISED CRANE DESIGN

The high breaking load to size relationship can allow crane manufacturers to optimise the design of crane components such as the winch drum and sheaves whilst still complying with international crane design standards.

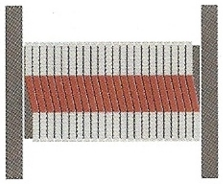
LONG LIFE

Laboratory fatigue testing indicates that it is possible to achieve up to two times normal rope life when comparing a Cranemaster® rope with a conventional rope of equivalent construction.



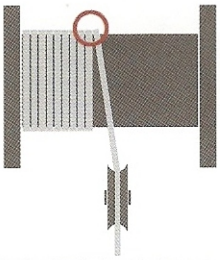
GREATER RESISTANCE TO CRUSHING IN MULTI-LAYER COILING SITUATIONS

Cranemaster® ropes are recommended for all multi-layer coiling situations where crushing on lower layers is inevitable. The more solid cross section of the Cranemaster® rope offers much greater resistance to this type of damage.



MORE EFFECTIVE RESISTANCE TO CRUSHING AT CROSSOVER POINTS

Because of the higher steel fill factor Cranemaster® ropes offer much better resistance to crushing damage at crossover points on the winch drum.



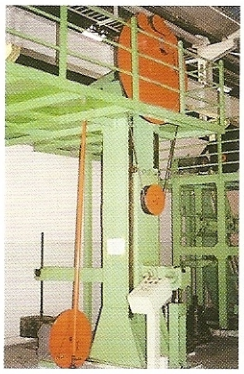
GREATER RESISTANCE TO "INTERFERENCE" AT THE DRUM

Abrasive wear between adjacent laps of rope which is normally most severe where the rope moves on and off the drum can be minimised by using a Cranemaster® rope.

REDUCED WEAR ON SHEAVES

The smooth exterior of the Cranemaster® rope can lead to reduced abrasive wear on both the sheave and rope.

Bend Fatigue Testing

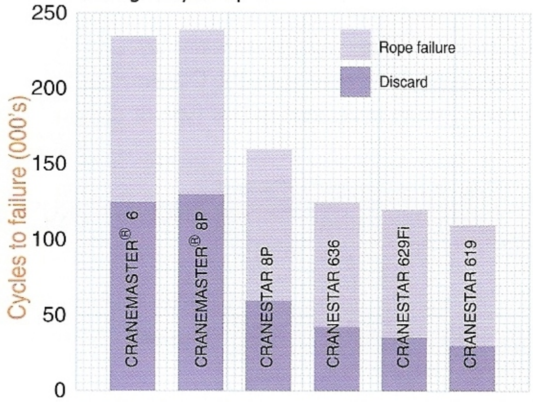


Resistance to bend fatigue is a key factor in determining the service life of wire rope and is therefore of great interest to both the rope manufacturer and the crane operator. Extensive comparative bend fatigue testing is carried out at Brunton Wolf in order to continuously develop and improve crane rope products.

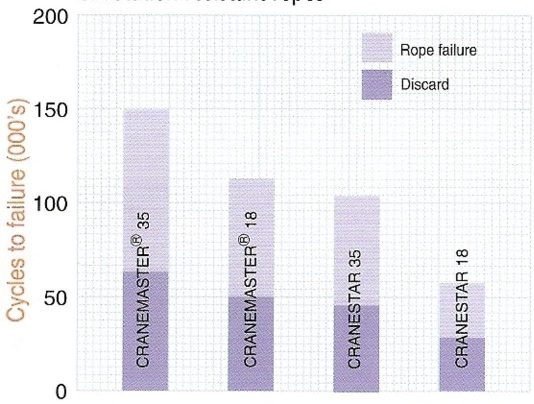
Fatigue testing involves cycling a length of rope through a sheave at a constant tension. The number of operating cycles is recorded at a point where the rope is rejectable under recommended discard levels specified under ISO 4309. The test continues until the rope under test is unable to sustain the load any longer and again the number of cycles is recorded.

Based on results obtained from an ongoing bend fatigue testing programme the following charts give an indication of the likely comparative performance which can be obtained from various rope constructions. The lower charts show the importance of lubrication in-service and the relative improvement in performance as sheave diameter (D:d ratio) increases.

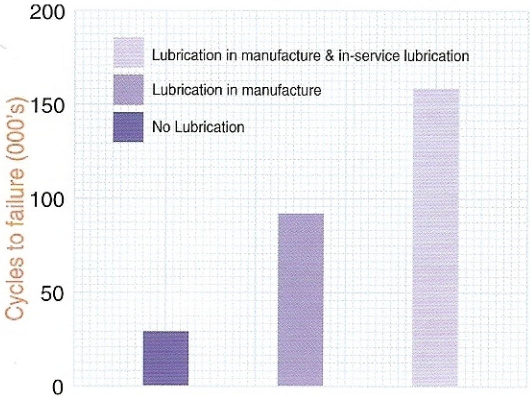
Comparative bending fatigue resistance of single layer ropes



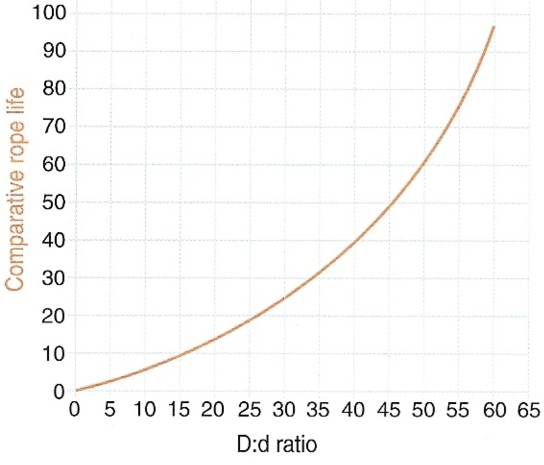
Comparative bending fatigue resistance of rotation resistant ropes



Effect of manufacturing lubricant and in-service lubrication on bending fatigue resistance

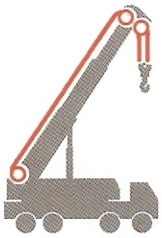


Effect of D:d ratio on wire rope service life

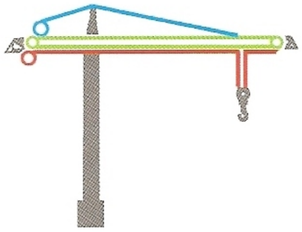


Guide to Application & Rope Duty

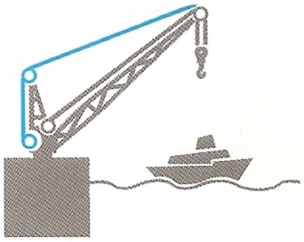
MOBILE



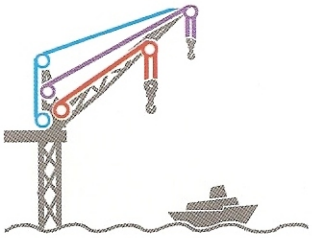
TOWER



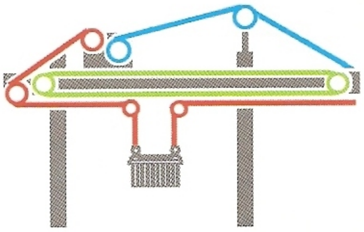
DOCKSIDE



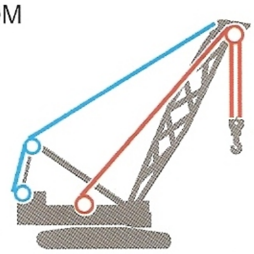
OFFSHORE
PEDESTAL



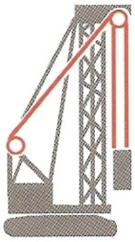
CONTAINER



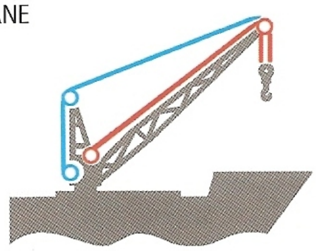
LATTICE BOOM



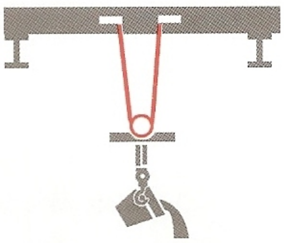
PILING



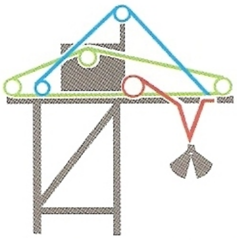
DECK CRANE



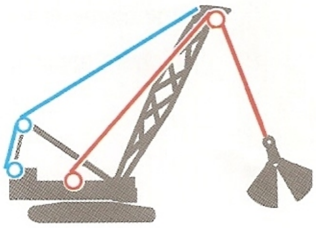
STEELWORKS
LADLE



UNLOADER



SWIMGRAB



- MAIN HOIST
- BOOM HOIST
- TROLLEY/RACKING ROPE
- WHIP HOIST

Brunton-Wolf
Wire Ropes FZCo.

Infrastructure

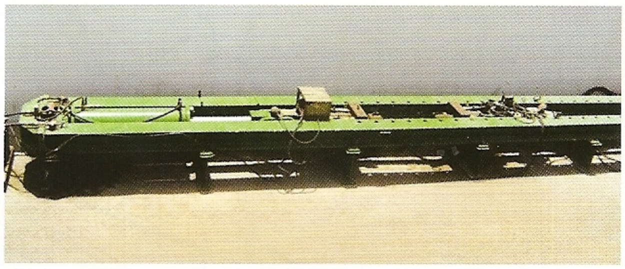
View of the Plant office


View of the Wire Spooling & Long Stranding Machines (18 Bobbin, 25 Bobbin & 3 no. 36 Bobbin)

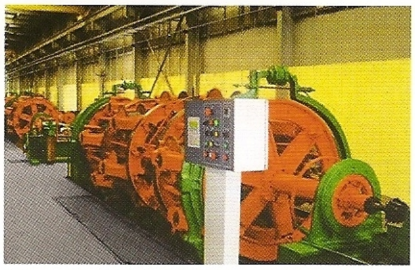

Seven Bobbin Skip Strander


6 x 60 Closer


600 T Press


200 T capacity 25 M Tensile Testing Machine


8 Bobbin closer


6+12+18 Planetary Strander for non-rotational Crane Ropes


High Speed Wire Rewinders


Fatigue Testing Machine

Brunton Wolf Wire Ropes FZCo. has comprehensive manufacturing and testing facilities to make a wide range of wire ropes of various Constructions & Applications, starting from wire. At present it has large number of machines, some of them are listed below.

- High Speed Wire Rewinders
- 37 Bobbin stranding machines
- 25, 19 & 18 Bobbin stranding machines
- Series of 6 & 7 Bobbin stranding machines
- High Speed Skip Strander
- 8 & 6 Bobbin Closing Machines
- Planetary Stranding and Closing Machine
- 'State of the Art' 25 Mtrs long 200 T Tensile Testing Machine
- Wire Tensile Testing Machine
- Fatigue Testing Machine for Elevator Rope
- Rigging shop with 'Hydraulic Presses', Automatic cut to length machine & Rigging Towers

The Company proposes to add wire drawing facility in near future as well as a large closing machine to address large diameter ropes for mining and offshore applications.

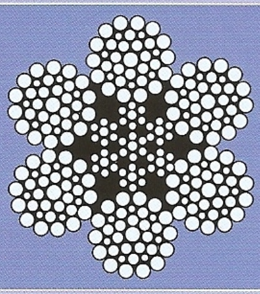
Brunton-Wolf
Wire Ropes FZCo.

Crane Ropes

The global success of Brunton Wolf Cranemaster® compacted crane rope and Hyflex non compacted crane rope is based on an uncompromising commitment to quality and product development which has been driven by a dynamic and technically demanding marketplace.

State of the art ISO 9001:2000 certified manufacturing facilities and tight process control from steel making to rod manufacture and through to finished wire rope ensure consistently high quality in the finished crane rope.

All Brunton Wolf crane ropes are supported by an expanding global distribution network which can offer expert advice to both crane manufacturers and operators.

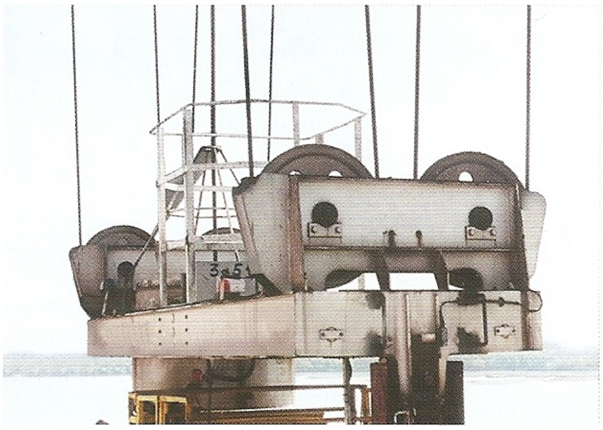


Cranestar 636

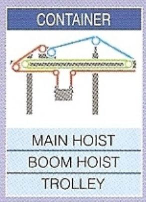
Typical Construction
6x36(14-7+7-7-1)-CWR
6x41(16-8+8-8-1)-CWR

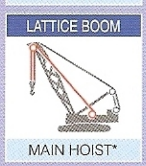
Cranestar 636

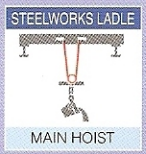
- High quality flexible 636 class crane rope.
- Consistent performance.
- Fully lubricated in manufacture – Luberite.
- Independent wire rope core.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values – Loadrite.
- Supplied in high strength 1960N/mm² grade as standard.

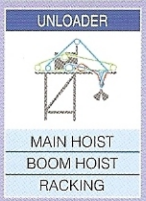


TYPICAL APPLICATIONS







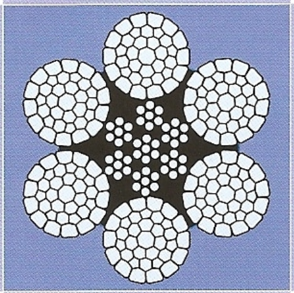


BOOM HOIST
MAIN HOIST
RACKING/TROLLEY

** For higher lifting heights a rotation resistant rope should be selected.*

Cranestar 636

NOM. ROPE DIA. mm	APPROX. MASS kg/100m		MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED ROPE GRADE							
			1770 N/mm²				1960 N/mm²			
			kN		TONNES		kN		TONNES	
	FC	CWR	FC	CWR	FC	CWR	FC	CWR	FC	CWR
8	24	26	37.4	40.3	3.81	4.11	41.4	44.6	4.22	4.5
9	30	33	47.3	51.0	4.83	5.20	52.4	56.5	5.34	5.8
10	37	41	58.4	63.0	5.96	6.42	64.7	69.7	6.60	7.1
11	44	50	70.7	76.2	7.21	7.77	78.3	84.4	7.98	8.6
12	53	59	84.2	90.7	8.58	9.24	93.2	101	9.50	10.2
13	62	69	98.8	106	10.1	10.8	109	118	11.15	12.0
14	72	80	114.5	124	11.7	12.6	127	137	12.93	14.0
16	94	105	150	161	15.2	16.4	166	179	16.89	18.3
18	119	133	189	204	19.3	20.8	210	226	21.37	23.1
19	133	148	211	228	21.5	23.2	234	252	23.81	25.7
20	147	164	234	252	23.8	25.7	259	279	26.39	28.5
22	178	198	283	305	28.8	31.1	313	338	31.93	34.4
24	212	236	337	363	34.3	37.0	373	402	38.00	40.9
26	248	277	395	426	40.3	43.4	437	472	44.59	48.1
28	288	321	458	494	46.7	50.4	507	547	51.72	55.8
30	330	368	526	567	53.6	57.8	582	628	59.37	64.1
32	376	419	598	645	61.0	65.8	663	715	67.55	72.9
36	476	531	757	817	77.2	83.3	839	904	85.49	92.1
38	530	591	844	910	86.0	92.8	934	1010	95.25	103.0
40	588	655	935	1008	95.3	102.8	1035	1120	105.54	114.2
44	711	793	1131	1220	115.3	124.4	1253	1350	127.71	137.6
48	846	943	1346	1452	137.2	148.0	1491	1610	151.98	164.1
52	993	1107	1580	1704	161.1	173.7	1750	1890	178.37	192.7
56	1152	1284	1833	1976	186.8	201.5	2029	2190	206.86	223.3
60	1320	1474	2104	2269	214.4	231.3	2330	2510	237.47	255.9



Cranemaster 636

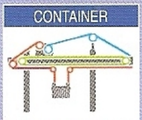
Typical Construction
6xK36SW(14-7+7-7-1)-CWR
6xK41SW(16-8+8-8-1)-CWR

Cranemaster 636

- Cranemaster® 6 is a high strength rugged six strand rope ideal for situations where longer service life is required.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values – Loadrite.
- Cranemaster® 6 can be substituted for any six strand construction to improve service life and reduce total cost.
- High fatigue life resulting from the unique compaction process.
- Maximum resistance to crushing. Recommended for multi-layer spooling operations.
- Increased abrasion resistance resulting from the unique compaction process.
- Fully lubricated in manufacture – Luberite.

TYPICAL APPLICATIONS

CONTAINER



MAIN HOIST
BOOM HOIST
TROLLEY

LATTICE BOOM

MAIN HOIST*
BOOM HOIST

DOCKSIDE

BOOM HOIST

STEELWORKS LADLE

MAIN HOIST

OFFSHORE PEDESTAL

BOOM HOIST

UNLOADER

MAIN HOIST
BOOM HOIST
RACKING

BOOM HOIST
MAIN HOIST
RACKING/TROLLEY

** For higher lifting heights a rotation resistant rope should be selected.*

Cranemaster 636

NOM. ROPE DIA. mm	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED ROPE GRADE 1960 N/mm² kN	1960 N/mm² TONNES	2160 N/mm² kN	2160 N/mm² TONNES
13	81	147	14.9	162	16.5
14	94	170	17.3	183	18.7
15	106	195.0	19.88	208.0	21.2
16	117	218.0	22.22	228	23.2
17	139	246.0	25.08	271	27.6
18	153	276.0	28.13	298	30.4
19	166	304	31.0	324	33.0
20	182	335	34.1	355	36.2
22	217	400	40.8	423	43.1
24	266	489	49.8	519	52.9
25	280	514	52.4	547	55.8
26	313	578	58.9	611	62.3
28	359	657	67.0	701	71.5
30	414	757	77.2	807	82.3
32	469	846	86.2	915	93.3
34	509	916	93.4	961	98.0
36	592	1065	108.6	1122	114.4
38	643	1165	118.8	1192	121.5
40	DATA AVAILABLE ON REQUEST				
42					
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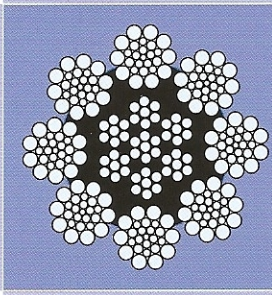
56					
60					



Cranestar 826
Cranestar 836

Typical Construction
8x26(10-5+5-5-1)-CWR
8x36(14-7+7-7-1)-CWR

Cranestar 826
Cranestar 836

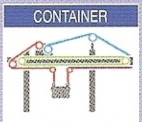
- Cranestar is a flexible high strength eight strand steel wire rope and can also be supplied with plastic impregnated core.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values.
- Good bending fatigue life.
- Greater surface contact area resulting from the eight strand construction.
- Fully lubricated in manufacture – Luberite.
- Plastic impregnation of the steel core (P signifies full plastic impregnation of the steel core).

Standard Characteristics Cranestar 836		
Construction	8PIx26SW(10-5+5-5-1)-CWR	
Compacted	Yes	No
		◆
Tensile Grade N/mm^2	1960	2160
	◆	
Finish	Bright	Galvanised
	◆	◆
Lay Direction	Right Hand	Left Hand
	◆	◆
Lay Type	Ordinary	Langs
	◆	
Average Fill Factor (%)	59.8	
Turn value at 20% of breaking force degrees/rope lay	87	
Nominal rope lay length (NRD = Nominal Rope Diameter)	6.5 x NRD	
Discard Criteria	Refer to ISO 4309:1990	

Warning: Hyflex 8P in Langs lay must only be used in applications where both ends are secured and are unable to rotate.

TYPICAL APPLICATIONS

CONTAINER



MAIN HOIST
BOOM HOIST
TROLLEY

SWIMGRAB

MAIN HOIST

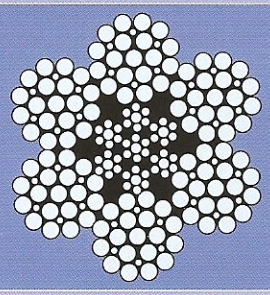
BOOM HOIST
MAIN HOIST
RACKING/TROLLEY

Cranestar 836

NOM. ROPE DIA. mm	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED ROPE GRADE					
		1770 N/mm²		1960 N/mm²		2160 N/mm²	
		kN	TONNES	kN	TONNES	kN	TONNES
	CWR	CWR		CWR		CWR	
12	60.0	90.7	9.2	100	10.24	111	11.3
13	70.5	106	10.9	118	12.02	130	13.2
14	81.8	124	12.6	137	13.95	151	15.4
16	107	161	16.5	179	18.22	197	20.1
18	135	204	20.8	226	23.05	249	25.4
19	151	228	23.2	252	25.69	278	28.3
20	167	252	25.7	279	28.46	308	31.4
22	202	305	31.1	338	34.44	372	38.0
24	240	363	37.0	402	40.99	443	45.2
26	282	426	43.4	472	48.10	520	53.0
28	327	494	50.4	547	55.79	603	61.5
30	376	567	57.8	628	64.04	692	70.6
32	427	646	65.8	715	72.86	788	80.3
36	541	817	83.3	905	92.22	997	101.6
38	602	910	92.8	1008	102.75	1111	113.2
40	667	1009	102.8	1117	113.85	1231	125.5
44	807	1220	124.4	1351	137.76	1489	151.8
48	961	1452	148.1	1608	163.94	1772	180.7
52	1130	1705	173.8	1887	192.41	2080	212.0
56	1310	1977	201.5	2189	223.14	2412	245.9
60	1500	2269	231.3	2513	256.16	2769	282.3

Cranestar 619

Typical Construction
6x19S(9-9-1)-CWR
6x19W(6+6-6-1)-CWR
6x25F(12-6F+6-1)-CWR
6x26SW(10-5+5-5-1)-CWR



Cranestar 619

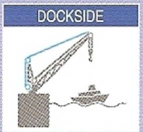
- High quality flexible 619 class crane rope.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values – Loadrite.
- Good resistance to abrasion.
- Consistent performance.
- Independent wire rope core.
- Fully lubricated in manufacture – Luberite.
- Supplied in high strength 1960N/mm2 grade as standard.

TYPICAL APPLICATIONS

LATTICE BOOM

BOOM HOIST

DOCKSIDE

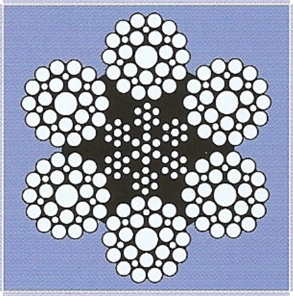


BOOM HOIST

BOOM HOIST

Cranestar 619

NOM. ROPE DIA. mm	APPROX. MASS kg/100m		MINIMUM BREAKING FORCE							
			GALVANISED AND UNGALVANISED							
			ROPE GRADE							
			1770 N/mm²				1960 N/mm²			
			kN		TONNES		kN		TONNES	
	FC	CWR	FC	CWR	FC	CWR	FC	CWR	FC	CWR
6	12.9	14.4	21	22.7	2.14	2.31	23.3	25.1	2.375	2.56
7	17.6	19.6	28.6	30.9	2.92	3.15	31.7	34.2	3.23	3.49
8	23.0	25.6	37.4	40.3	3.82	4.11	41.5	44.7	4.23	4.56
9	29.1	32.4	47.3	51.0	4.82	5.20	52.5	56.5	5.35	5.76
10	35.9	40.0	58.4	63.0	5.95	6.42	64.8	69.8	6.60	7.12
11	43.3	48.4	70.7	76.2	7.21	7.77	78.4	84.4	7.99	8.60
12	51.7	57.6	84.1	90.7	8.57	9.24	93.3	100	9.51	10.2
13	60.7	67.6	98.7	106	10.1	10.8	109	118	11.16	12.0
14	70.4	78.4	114	124	11.7	12.6	127	137	12.94	14.0
16	91.9	102	150	161	15.3	16.4	166	179	16.90	18.2
18	116	130	189	204	19.3	20.8	210	226	21.39	23.0
19	130	144	211	227	21.5	23.1	234	252	23.83	25.7
20	144	160	234	252	23.8	25.6	259	279	26.41	28.4
22	174	194	283	305	28.8	31.1	313	338	31.95	34.4
24	207	230	336	363	34.3	37.0	373	402	38.03	41.0
26	243	270	395	426	40.2	43.4	438	472	44.63	48.1
28	281	314	458	494	46.6	50.4	508	547	51.76	55.8
30	323	360	525	567	53.5	57.8	583	628	59.42	64.0
32	368	410	598	645	60.9	65.8	662	715	67.48	72.8
35	440	490	716	772	72.9	78.7	792	855	80.73	87.1
36	465	518	757	817	77.2	83.3	838	904	85.41	92.2
38	518	578	843	910	85.9	92.8	934	1010	95.16	103.0
40	574	640	935	1010	95.3	103.0	1040	1120	106.01	114.2
44	695	774	1130	1220	115.2	124.4	1250	1350	127.42	137.6
48	827	922	1350	1450	137.6	147.8	1490	1610	151.89	164.1
52	971	1082	1580	1700	161.1	173.3	1750	1890	178.39	192.7
56	1126	1254	1830	1980	186.5	201.8	2030	2190	206.89	223.2
60	1293	1440	2100	2270	214.1	231.4	2330	2510	237.50	255.9



Cranestar 629Fi

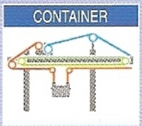
Typical Construction
6x29Fi(14-7F+7-1)-CWR

Cranestar 629Fi

- High quality flexible crane rope.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values – Loadrite.
- Consistent performance.
- Independent wire rope core.
- Fully Lubricated in manufacturing – Luberite.
- Manufactured to J.I.S. G. 3525

TYPICAL APPLICATIONS

CONTAINER

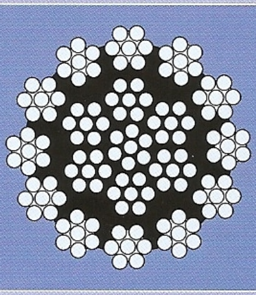


MAIN HOIST
BOOM HOIST
TROLLEY

BOOM HOIST
MAIN HOIST
RACKING/TROLLEY

Cranestar 629Fi

NOM. ROPE DIA. mm	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED	
		1620 N/mm² GRADE A kN	1770 N/mm² GRADE B kN
10	44	63.6	67.7
11.2	55.2	79.8	84.9
12.5	68.8	99.4	106
14	86.3	125	133
16	113	163	173
18	143	206	219
20	176	254	271
22.4	221	319	340
25	275	398	423
28	345	499	531
30	396	573	609
31.5	437	631	672
33.5	494	714	760
35.5	555	802	853
37.5	619	895	952
40	704	1020	1080



Cranestar 187

Typical Construction
18x7(12x7:6x7-1x7)

Cranestar 187

BALANCE RITE · LOAD RITE · LUBE RITE · SIZE RITE

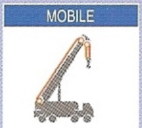
- Cranestar 187 is a high quality rotation resistant hoist rope.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values - Loadrite.
- Good resistance to rotation verified by testing on the in-house torque/turn machine - Balancerite.
- Consistent performance.
- Also available in fibre core construction.
- Fully lubricated in manufacture - Luberite.

Cranestar 187

NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED ROPE GRADE 1960 N/mm²		2160 N/mm²	
			kN	TONNES	kN	TONNES
6		14.6	25.0	2.5	27.0	2.8
7		19.9	34.0	3.5	36.7	3.7
8		26.0	45.0	4.6	48.6	5.0
9		32.9	56.5	5.8	61.0	6.2
10		40.6	70.0	7.1	75.6	7.7
11		49.1	84.0	8.6	90.7	9.2
12		58.5	101	10.3	109	11.1
	1/2	65.5	113	11.5	121	12.3
13		68.6	118	12.0	127	12.9
14		79.6	137	14.0	148	15.1
15		91.4	157	16.0	169	17.2
16	5/8	104	180	18.3	194	19.8
17		117	203	20.7	219	22.3
18		132	226	23.0	244	24.9
	3/4	147	253	25.8	273	27.8
20		162	279	28.4	301	30.7
22		197	339	34.6	366	37.3
	7/8	201	346	35.3	374	38.1

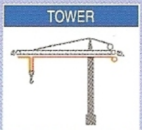
TYPICAL APPLICATIONS

MOBILE



MAIN HOIST

TOWER

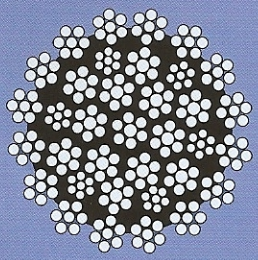


MAIN HOIST

MAIN HOIST

Note : For higher lifting heights, consideration should be given to using a 35x7 construction with improved rotational characteristics.

Brunton-Wolf
Wire Ropes FZCo.



Cranestar 357

Typical Construction
35x7(16x7:6x7+6x7-6x7-1x7)

Cranestar 357

BALANCE RITE

LOAD RITE

LUBE RITE

SIZE RITE

- Cranestar 357 is a high strength flexible hoist rope.
- A sample of rope from each production batch is tested to destruction in order to confirm compliance with catalogue breaking force values – Loadrite.
- Maximum resistance to rotation verified by testing on the in-house torque/turn machine – Balancerite.
- Suitable for use on single part and multi-part hoist reeving systems.
- Langs lay construction offers maximum resistance to wear.
- Fully lubricated in manufacture – Luberite.

MAIN HOIST

WHIP HOIST

Cranestar 357

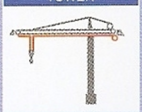
NOM. ROPE DIA. mm	NOM. ROPE DIA. in	APPROX. MASS kg/100m	MINIMUM BREAKING FORCE GALVANISED AND UNGALVANISED ROPE GRADE			
			1960 N/mm²		2160 N/mm²	
			kN	TONNES	kN	TONNES
10		44.8	76.0	7.7	86.5	8.8
11		54.2	91.0	9.3	104	10.6
12		64.5	107	10.9	125	12.7
	1/2	72.0	123	12.5	137	14.0
13		76.0	128	13.0	146	14.9
14		88.0	148	15.1	168	17.1
16	5/8	115	194	19.8	221	22.5
18		145	242	24.7	277	28.2
19	3/4	162	277	28.2	312	31.8
20		179	301	30.7	337	34.4
21		198	335	34.1	370	37.7
22		217	370	37.7	412	42.0
	7/8	221	376	38.3	418	42.6
24		258	441	45.0	498	50.8
	1	289	491	50.1	546	55.7
26		303	517	52.7	581	59.2
28		351	599	61.1	681	69.4
	1-1/8	366	621	63.3	704	71.8
30		403	679	69.2	775	79.0
32	1-1/4	459	769	78.4	865	88.2
35	1-3/8	549	945	96.3	1044	106
36		581	983	100	1085	111
38	1-1/2	647	1078	110	1205	123
40		717	1202	123	1335	136
42		790	1227	125		
44		867	1347	137		
	1-3/4	885	1375	140		
46		948	1472	150		
48		1032	1603	163		
50		1120	1740	177		
	2	1156	1796	183		
52		1211	1881	192		

TYPICAL APPLICATIONS

MOBILE

MAIN HOIST

TOWER



MAIN HOIST

OFFSHORE PEDESTAL

MAIN HOIST

WHIP HOIST