

# SURFACE MINING

For decades, the Wire Rope Industries brand has been synonymous with surface mining and performance. We constantly push our manufacturing capabilities and engineering to the next level, as we pursue innovation to meet and exceed our clients' expectations.

WRI is continuously investing in its capabilities. We have recently installed one of the largest machines in the world and are in the process of upgrading other machinery to boost our versatility and responsiveness to the market. And in true WRI fashion, we are already working on the next generation of shovel and dragline ropes in cooperation with our flagship clients.



**WIRE ROPE**  
INDUSTRIES



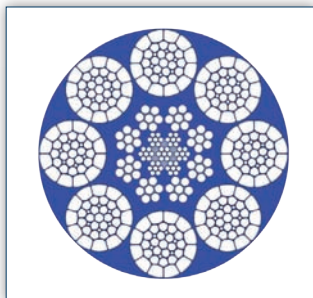
# SHOVELS

At Wire Rope Industries, we take special pride in our expertise and world-class products for shovel applications. Since electro-mechanical shovels emerged as productivity drivers in mines around the world, WRI has continuously been investing in innovation and pushing the boundaries of performance for these machines.

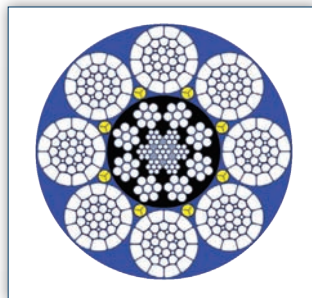
We were among the pioneers of thermo-plastic technology in the early 1980s, and our Cushion Ropes have been used by mining leaders throughout the Americas. The latest generation of patented Cushion-Pac Ultra™ ropes has raised the performance bar even further. Our ropes are now used by most major operators of large shovels in every type of commodity market.

The race for productivity does not stop with Cushion-Pac Ultra™. For our clients, we can go a step further and design unique high-end ropes specifically for their machinery and operating conditions. The custom design program sometimes results in new technological breakthroughs, like the Oil Sands Rope™, which edges out even the Cushion-Pac Ultra™ in terms of performance.

## PRODUCT LINE



**Cushion Rope**  
Industry Standard



**Cushion-Pac Ultra™**  
Premium

**Ultimate performance ropes engineered  
for your specific application**

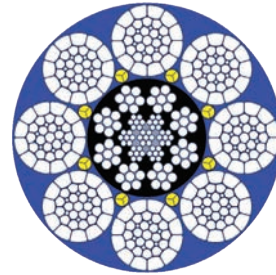
“Oil Sands Rope™”

**Custom Ropes**


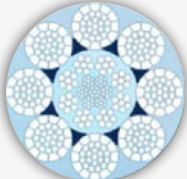
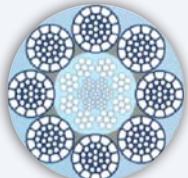
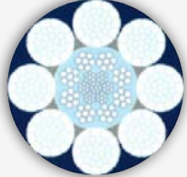


# CUSHION-PAC ULTRA™

The patented Cushion-Pac Ultra is our flagship premium rope for modern excavators. Developed through years of field analysis and product design, and perfected in cooperation with our clients, the Cushion-Pac Ultra™ has established itself as the industry benchmark for performance in all types of environments. This rope has outperformed the competition in oil sand, coal, iron ore, and copper mining across North and South America. If you want to maximize the productivity of your shovels, look no further.



## Design and Features

SPECIAL FEATURES	FEATURES	BENEFITS
<p><b>Advanced Plastic Technology</b></p> 	<ul style="list-style-type: none"> <li>» Protection against strand-to-core contacts</li> <li>» Lubricant retention</li> <li>» Superior outer strand support</li> </ul>	<ul style="list-style-type: none"> <li>» Less wire notching</li> <li>» Extended fatigue life</li> <li>» Improved dimensional stability</li> </ul>
 <p><b>Optimal Strand Positioning</b></p>	<ul style="list-style-type: none"> <li>» Exclusive wormings ensure evenly spaced strands</li> <li>» Minimized metal to metal contacts</li> </ul>	<ul style="list-style-type: none"> <li>» Even distribution of the working load</li> <li>» Extended fatigue life</li> </ul>
<p><b>DY-PAC Strands</b></p> 	<ul style="list-style-type: none"> <li>» Higher metallic area</li> <li>» Smooth outer surface</li> </ul>	<ul style="list-style-type: none"> <li>» Increased strength and crush resistance</li> <li>» Improved fatigue life and reduced wear on rope and drum</li> </ul>
 <p><b>Interlocking Outer Plastic Jacket</b></p>	<ul style="list-style-type: none"> <li>» Lubricant retention</li> <li>» Controlled outer plastic jacket</li> </ul>	<ul style="list-style-type: none"> <li>» Extended fatigue life</li> <li>» Minimized abrasion on the rope crowns, the drums and the sheaves</li> </ul>

# SHOVELS

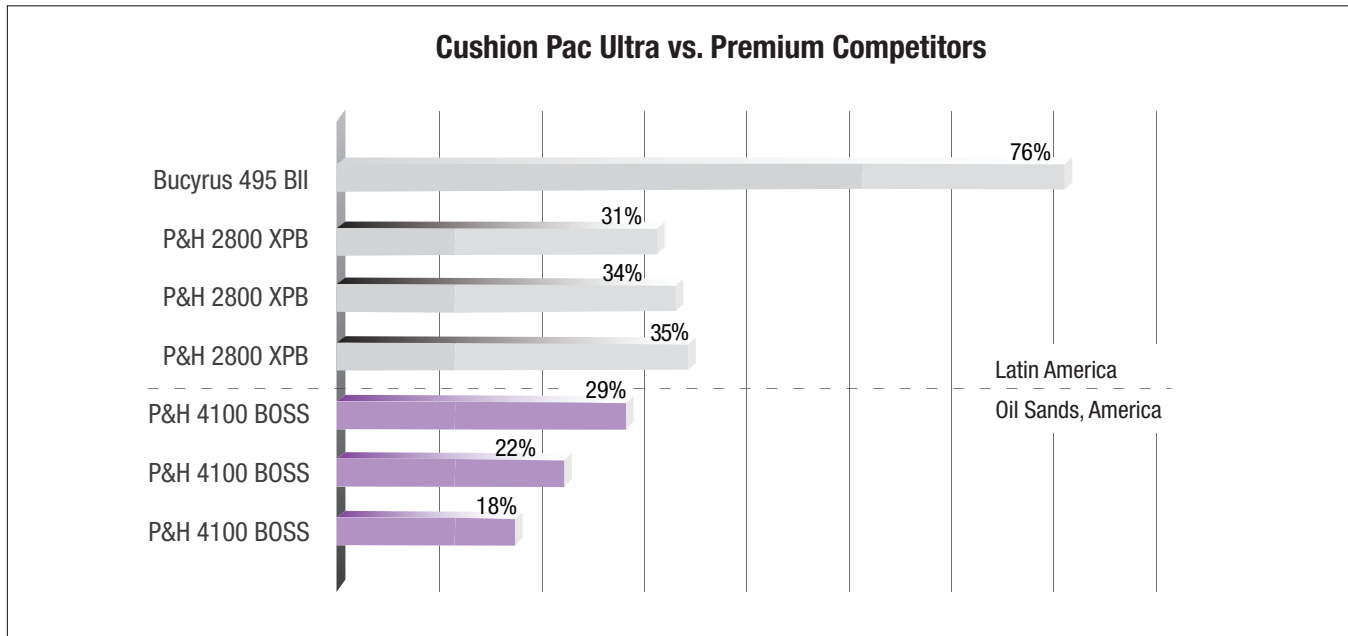
## Environment and Machinery

Cushion-Pac Ultra™ ropes have proven themselves in the environments as harsh as Oil Sands in Northwest Canada, where shovels operate around the clock in temperatures from -40° to +40°. Our clients dig material of various degrees of fragmentation, from well fragmented coal to frozen chunks of bitumen weighing tens of tons.

We supply the full range of P&H and Bucyrus shovels, including fleets of popular P&H 2300, 2800, and 4100, as well as Bucyrus 295, 395, and 495 machines. Cushion-Pac Ultra™ is currently used on the largest available shovels with bucket capacities over 70m<sup>3</sup>.



## Performance - Improvement in Rope Life



*Disclaimer: Our clients typically measure Hours of Operation, or Tons Excavated. Each row shows relative improvement in rope life on one of the customer shovels after switching to WRI product, relative to previous average life of competitor's product. Results may vary depending on the machine and digging conditions.*



# CUSTOM ROPES

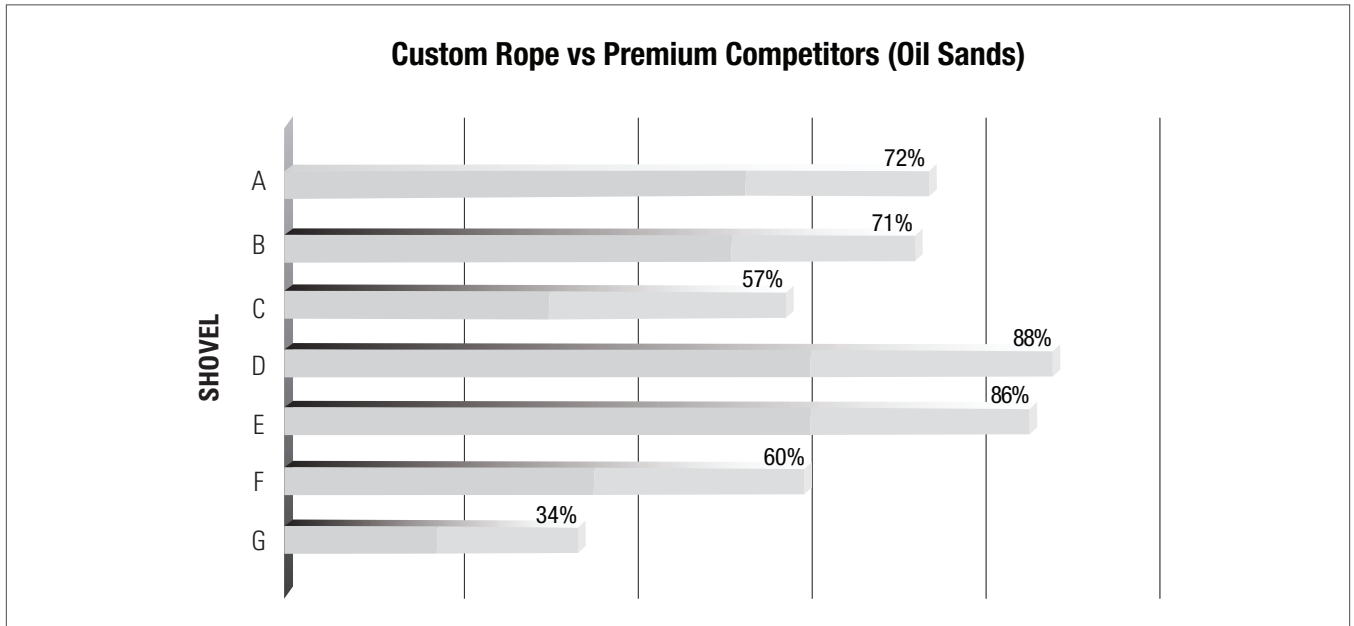
Wire Rope Industries has a successful track record of designing custom ropes for your unique combination of machinery, digging conditions, and operational demands. We maintain an extensive database of past R&D projects during which we tested hundreds of combinations of constructions and materials. This body of knowledge, coupled with expertise of our engineers, allows us to craft special purpose ropes with significantly better lifetime compared to off-the-shelf items. Some of the areas of customization are:

- » Advanced plastics and nylons
- » Advanced lubricants
- » Core and strand design
- » Specialized high-tensile wire and wire coatings
- » Outer reinforcements

The results below show the performance of one of our recent custom ropes, based on Cushion-Pac Ultra platform, against one of the premium offerings of our major competitor. Contact WRI to discuss your operational requirements and let us make better custom rope designed specifically to your needs.



## Performance - Custom Shovel Rope



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# SHOVELS

## OIL SANDS ROPE™



Developed specifically for the extreme operating conditions in the Oil Sands of Northwest Canada, the Oil Sands Rope™ (OSR) was recently launched after a successful testing phase. This rope is a result of more than two decades of experience in serving the Oil Sands clients, and sets the next standard for rope performance.

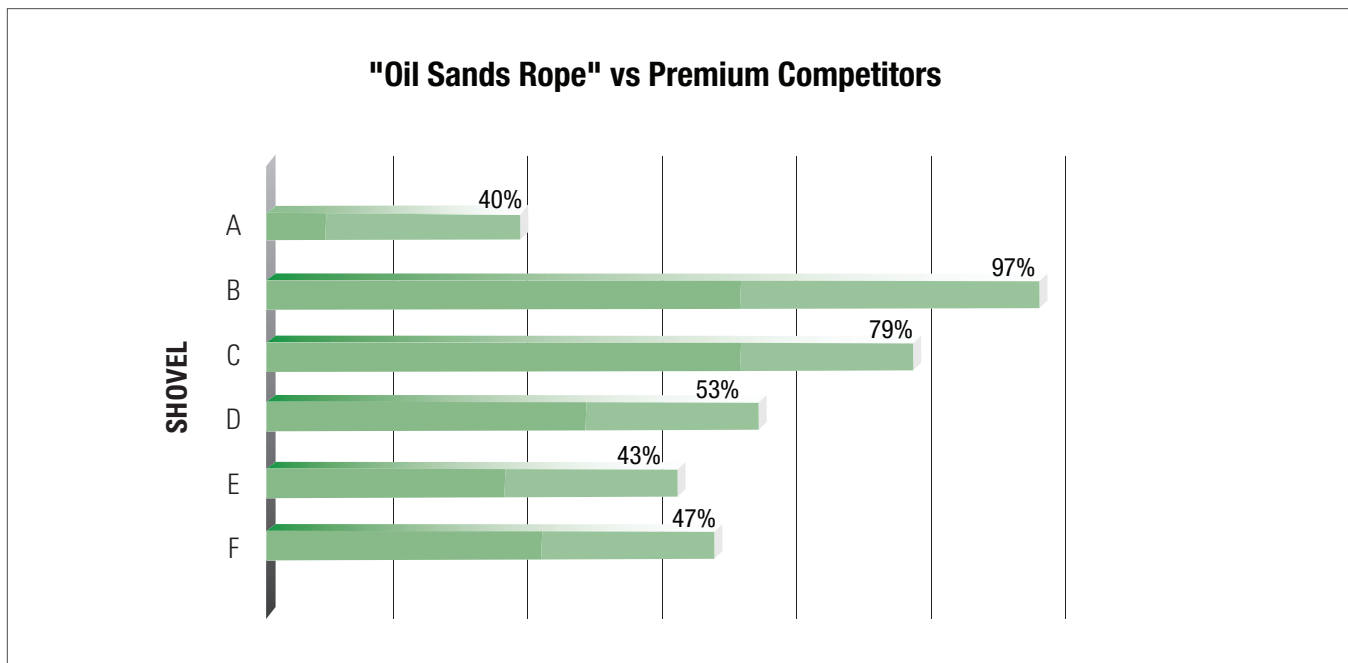
### Environment and Machinery

Oil Sands Rope™ is designed to operate in typical Oil Sands environment with temperature varying from -40° to +40° and difficult digging conditions with minimal fragmentation. The rope have been developed for and tested on P&H 4100C-BOSS and Bucyrus BI-495HF shovels.



### Performance

Shown below are some of the excellent results of OSR against the premium offerings of our competitors. Percentage improvements in rope life are based on the OSR performance measured by the clients relative to the average achieved by the incumbent ropes on the same machine.



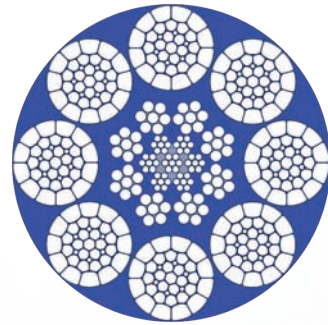
*Disclaimer: Our clients typically measure Hours of Operation, or Tons Excavated. Each row shows relative improvement in rope life on one of the customer shovels after switching to WRI product, relative to previous average life of competitor's product. Results may vary depending on the machine and digging conditions.*



## CUSHION ROPE™

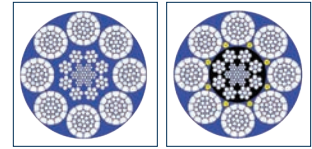
Our Cushion Rope™ for shovel excavators is considered a proven design with two decades of service behind it. Cushion Rope™ is a solution for mines looking for reliable performance and good value.

- » The Cushion Rope™ features rock solid 8-strand DyPac™ construction with exceptional strength, resistance to crushing, and resulting good fatigue life.
- » WRI's industry-leading thermal injection process ensures deep penetration of plastic into the rope, which provides core protection, strong strand support, keeps abrasives and moisture out, and maximizes the surface contact area.
- » Calibrated cut-lengths, high-efficiency ferrule brackets and available hairpin winding ensure correct installation and reduced downtime.



# PRODUCT SPECIFICATIONS

## BREAKING LOAD TABLES - SHOVELS



### Cushion Rope, Cushion Pac Ultra

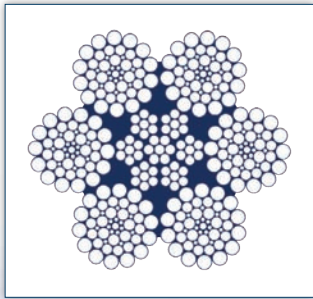
DIAMETER		CONSTRUCTION	APPROX. WEIGHT		MINIMUM BREAKING LOAD	
inches	mm		lb/ft	kg/m	Tons	kN
1 1/2	38	8 x 31 Dy-Pac 8 CR/CC & CPU	4.5	6.7	110	981
1 5/8	41	8 x 31 Dy-Pac 8 CR/CC & CPU	5.3	7.9	128	1,141
1 3/4	44	8 x 31 Dy-Pac 8 CR/CC & CPU	6.2	9.2	150	1,336
1 7/8	48	8 x 31 Dy-Pac 8 CR/CC & CPU	7.1	10.5	171	1,522
2	51	8 x 31 Dy-Pac 8 CR/CC & CPU	7.9	11.7	192	1,708
2 1/8	54	8 x 31 Dy-Pac 8 CR/CC & CPU	9.1	13.5	220	1,962
2 1/4	57	8 x 31 Dy-Pac 8 CR/CC & CPU	10.1	15.1	245	2,181
2 3/8	60	8 x 31 Dy-Pac 8 CR/CC & CPU	11.2	16.7	271	2,410
2 1/2	64	8 x 31 Dy-Pac 8 CR/CC & CPU	12.6	18.7	304	2,706
2 5/8	67	8 x 31 Dy-Pac 8 CR/CC & CPU	14.0	20.8	339	3,018
2 3/4	70	8 x 36 Dy-Pac 8 CR/CC & CPU	15.2	22.6	351	3,120
2 7/8	73	8 x 36 Dy-Pac 8 CR/CC & CPU	16.6	24.7	400	3,562
3	76	8 x 36 Dy-Pac 8 CR/CC & CPU	18.1	26.9	436	3,881



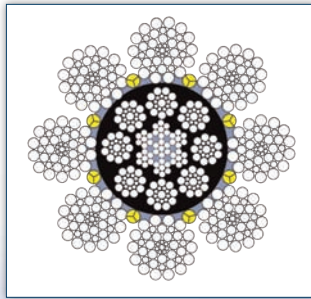
# DRAGLINES

## DRAGLINES

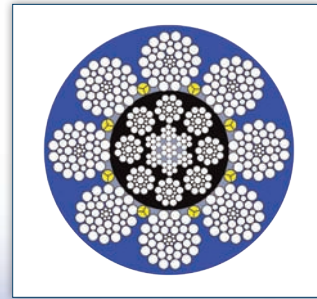
Built on our extensive experience and innovation in surface mining, Wire Rope Industries' product range for dragline excavators is unparalleled in the industry. We are the only manufacturer who offers a full line of products, from the industry-standard 6-strand basic ropes to the revolutionary Cushion Ultra™, which set the bar for performance. Our experts are available to assess your operations and help you find the rope that maximizes productivity and reduces maintenance costs.



**6S Basic**  
Industry Standard



**Ultra**  
Advanced



**Cushion Ultra™**  
Premium

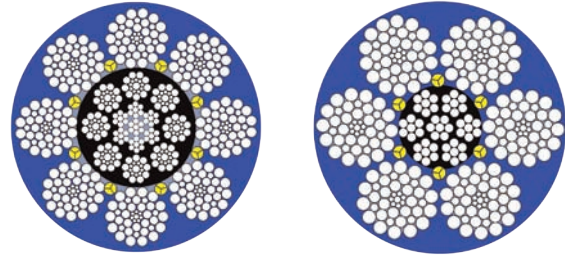


# DRAGLINES

## CUSHION ULTRA™



To address the growing productivity requirements of dragline mining industry, WRI developed a next generation of premium dragline ropes, which outperforms the basic 6-strand design by a large margin. Tested and proven on some of the biggest draglines in the world, these new ropes have become a benchmark for performance.



### Design and Features

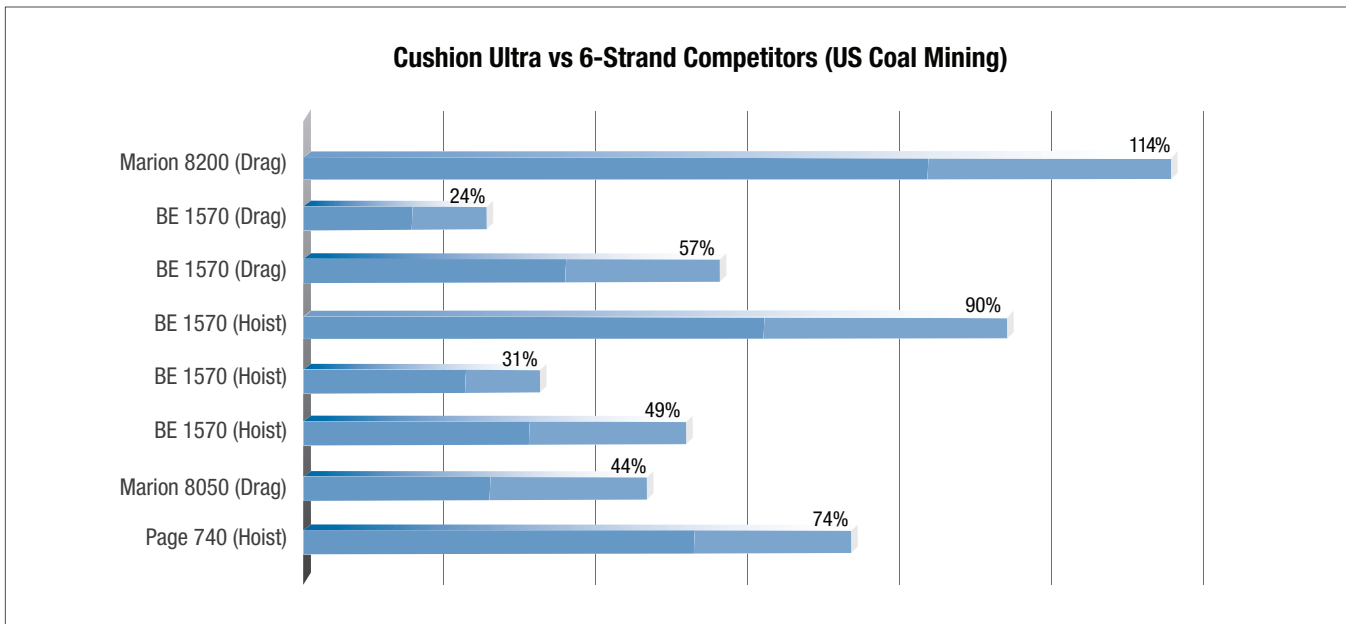
- » Cushion Ultra™ features a patented design with inter-strand spacers to minimize metal-to-metal contact and ensure ideal load distribution.
- » Heavy-duty core, built using proprietary high pressure plastic extrusion process
- » Best-in-industry outer plastic jacket retains internal lubrication and minimizes wear on sheaves and drums
- » 6-strand construction provides larger diameter strand for improved resistance to abrasion and is typically used for drag rope position.
- » 8-strand construction features increased flexibility and is typically used for hoist rope position.

### Benefits

The patented Cushion Ultra™ has been a great success in the North American market thanks to the clear value it creates for the clients relative to 6-strand standard ropes.

- » Longest lifetime of any dragline rope on the market
- » Significant reduction in downtime and number of rope change-outs
- » Minimized sheave and drum wear
- » Overall improvement in rope and machine cleanliness

### Performance



*Disclaimer: Our clients typically measure Hours of Operation, or Tons Excavated. Each row shows relative improvement in rope life on one of the customer draglines after switching to WRI product, relative to previous average life of competitor's product. Results may vary depending on the machine and digging conditions.*

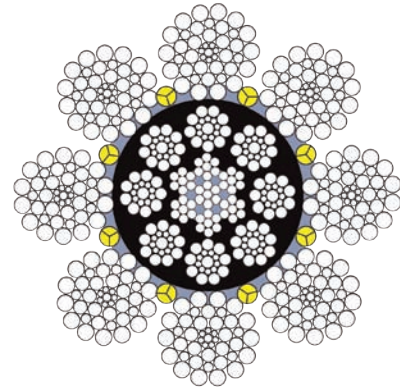


# ULTRA

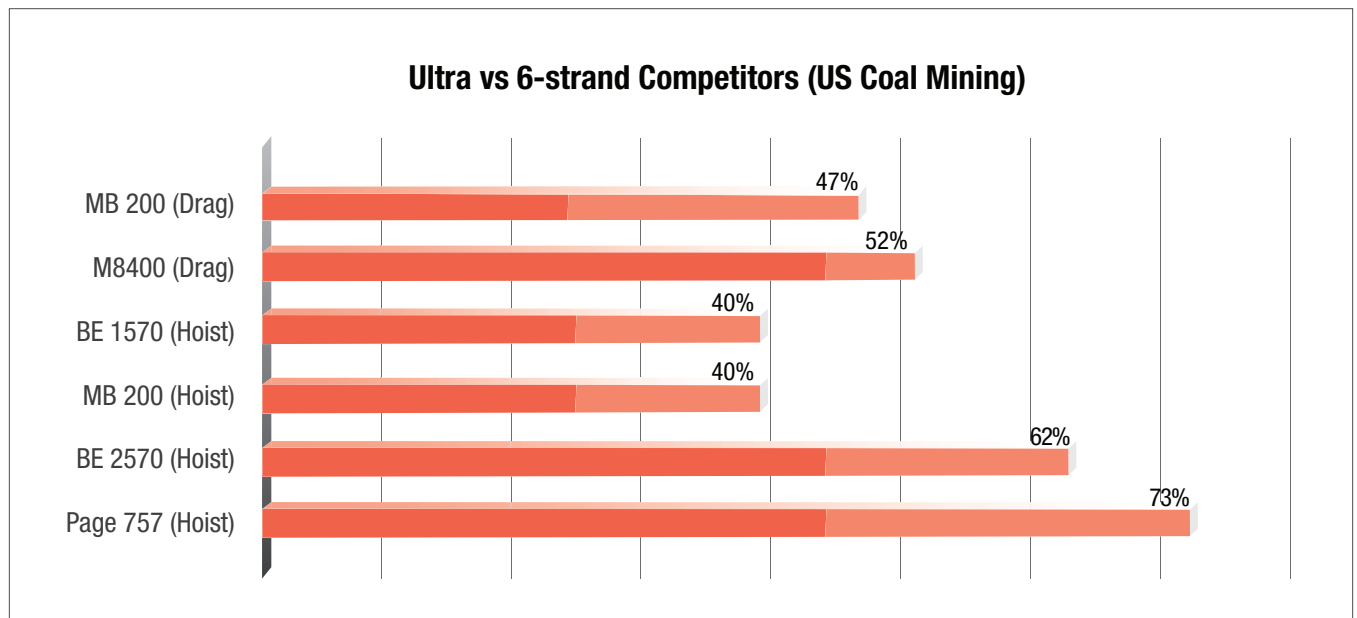
For clients who want the breakthrough construction of Cushion Ultra™, but require visibility of the outer strands for inspection purposes, WRI offers Ultra.

Ultra ropes feature the same construction as Cushion Ultra™, but without the outer plastic jacket. Although slightly behind Cushion Ultra™ in terms of performance, Ultra provides major improvement in rope life over standard 6-strand ropes, and is very popular upgrade choice among our clients.

Ultra is available in 6-strand design for drag position and 8-strand configuration for hoist position.



## Performance



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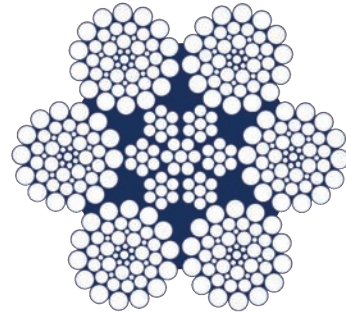
# DRAGLINES

## 6S BASIC

For the clients who prefer the proven 6-strand rope without jacketing, WRI offers the rock-solid 6S Basic.

- » Rugged 6 strand construction for excellent wear resistance
- » Specially selected wire tensiles and a heavy-duty IWRC core
- » Advanced lubricants extend rope life and reduce fly-off

Many of our clients who tested Cushion Ultra and Ultra have converted from 6S Basic. Contact our application experts to learn how switching to our premium ropes can create value for your operation.





## BRIDGE STRANDS AND SOCKETS FOR SURFACE MINING

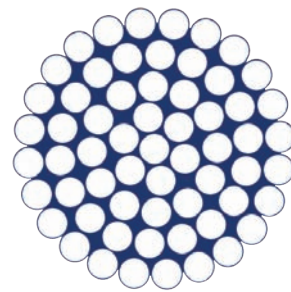
### PS 1000™ BOOM PENDANTS

For the boom support applications, we offer our PS 1000 line of products, specially designed and tested for superior performance.

- » Wide range of sizes up to 4 1/2" (114 mm) diameter
- » Pre-stretch and socketing capabilities include one of the largest facilities in the world with a 960 ft (295 m) long, 800 000 lbs (365 000 kg) capacity pre-stretch bed and 40 ft. (12.2 m) socketing tower.
- » Accurate high quality pendants are supplied consistently by incorporating quality control processes including socket inspection and testing, under tension length markings and precision cuts, and specially designed socketing equipment.
- » Pendants can be correctly positioned and efficiently installed with special length markings and custom manufactured transport reels.
- » Equipment operation and safety is enhanced with the low stretch, equally balanced support of strand pendants.
- » Greater metallic area and higher strength-to-diameter ratios reduce stretch and increase service life when compared to rope pendants

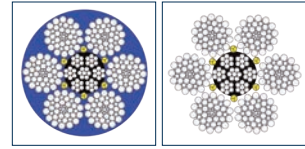
#### **PS 1000 pendants are cost effective**

- » Reduced long term capital purchase costs resulting from increased service life.
- » Reduced equipment maintenance costs resulting from more stable boom structures.



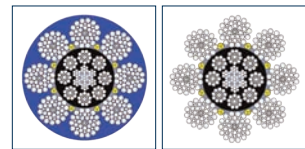
# PRODUCT SPECIFICATIONS

## BREAKING LOAD TABLES- DRAGLINES



### 6 Strand Cushion Ultra & 6 Strand Ultra

DIAMETER		CONSTRUCTION	APPROX. WEIGHT		MINIMUM BREAKING LOAD	
inches	mm		lb/ft	kg/m	Tons	kN
2 3/4	(70)	6 Strand Ultra / Cushion Ultra	12.7	18.9	311	2,765
2 7/8	(73)	6 Strand Ultra / Cushion Ultra	13.9	20.7	341	3,035
3	(76)	6 Strand Ultra / Cushion Ultra	15.2	22.6	371	3,297
3 1/8	(79)	6 Strand Ultra / Cushion Ultra	16.5	24.6	402	3,576
3 1/4	(83)	6 Strand Ultra / Cushion Ultra	18.0	26.8	440	3,915
3 3/8	(86)	6 Strand Ultra / Cushion Ultra	19.4	28.9	468	4,168
3 1/2	(89)	6 Strand Ultra / Cushion Ultra	20.8	31.0	543	4,836
3 5/8	(92)	6 Strand Ultra / Cushion Ultra	22.5	33.5	583	5,191
3 3/4	(95)	6 Strand Ultra / Cushion Ultra	24.0	35.7	625	5,563
3 7/8	(98)	6 Strand Ultra / Cushion Ultra	25.7	38.2	646	5,749
4	(102)	6 Strand Ultra / Cushion Ultra	27.5	40.9	689	6,130
4 1/8	(105)	6 Strand Ultra / Cushion Ultra	29.3	43.6	732	6,519
4 1/4	(108)	6 Strand Ultra / Cushion Ultra	31.2	46.4	777	6,916
4 3/8	(111)	6 Strand Ultra / Cushion Ultra	33.4	49.7	824	7,330
4 1/2	(114)	6 Strand Ultra / Cushion Ultra	35.2	52.4	871	7,753
4 5/8	(117)	6 Strand Ultra / Cushion Ultra	37.2	55.4	921	8,193
4 3/4	(121)	6 Strand Ultra / Cushion Ultra	39.3	58.5	971	8,641
4 7/8	(124)	6 Strand Ultra / Cushion Ultra	41.4	61.6	1,023	9,106
5	(127)	6 Strand Ultra / Cushion Ultra	43.5	64.7	1,076	9,579

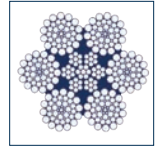


### 8 Strand Cushion Ultra & 8 Strand Ultra

DIAMETER		CONSTRUCTION	APPROX. WEIGHT		MINIMUM BREAKING LOAD	
inches	mm		lb/ft	kg/m	Tons	kN
2 3/4	70	8 Strand Ultra / Cushion Ultra	12.9	19.2	313	2,782
2 7/8	73	8 Strand Ultra / Cushion Ultra	14.1	21.0	342	3,044
3	76	8 Strand Ultra / Cushion Ultra	15.4	22.9	371	3,306
3 1/8	79	8 Strand Ultra / Cushion Ultra	16.7	24.9	403	3,585
3 1/4	83	8 Strand Ultra / Cushion Ultra	18.3	27.2	439	3,906
3 3/8	86	8 Strand Ultra / Cushion Ultra	19.6	29.2	470	4,185
3 1/2	89	8 Strand Ultra / Cushion Ultra	21.1	31.4	505	4,498
3 5/8	92	8 Strand Ultra / Cushion Ultra	22.3	33.2	542	4,828
3 3/4	95	8 Strand Ultra / Cushion Ultra	24.2	36.0	580	5,166
3 7/8	98	8 Strand Ultra / Cushion Ultra	26.0	38.7	628	5,589
4	102	8 Strand Ultra / Cushion Ultra	27.8	41.4	669	5,952
4 1/8	105	8 Strand Ultra / Cushion Ultra	29.8	44.3	719	6,400
4 1/4	108	8 Strand Ultra / Cushion Ultra	31.8	47.3	764	6,798
4 3/8	111	8 Strand Ultra / Cushion Ultra	33.9	50.4	816	7,263
4 1/2	114	8 Strand Ultra / Cushion Ultra	36.0	53.6	856	7,618
4 5/8	117	8 Strand Ultra / Cushion Ultra	38.3	57.0	904	8,049
4 3/4	121	8 Strand Ultra / Cushion Ultra	40.4	60.1	954	8,488
4 7/8	124	8 Strand Ultra / Cushion Ultra	42.5	63.2	1,005	8,945
5	127	8 Strand Ultra / Cushion Ultra	44.8	66.7	1,057	9,410



## 6S Basic



DIAMETER		CONSTRUCTION	APPROX. WEIGHT		MINIMUM BREAKING LOAD	
inches	mm		lb/ft	kg/m	Tons	kN
1 1/2	38	6x41 RLL IWRC	4.2	6.2	108	964
1 5/8	41	6x41 RLL IWRC	5.0	7.4	126	1,125
1 3/4	44	6x41 RLL IWRC	5.7	8.4	145	1,294
1 7/8	48	6x41 RLL IWRC	6.5	9.7	165	1,471
2	51	6x41 RLL IWRC	7.6	11.4	188	1,674
2 1/8	54	6x41 RLL IWRC	8.4	12.4	210	1,869
2 1/4	57	6x41 RLL IWRC	9.4	13.9	235	2,088
2 3/8	60	6x41 RLL IWRC	10.2	15.2	243	2,164
2 1/2	64	6x41 RLL IWRC	11.3	16.9	277	2,469
2 5/8	67	6x41 RLL IWRC	12.5	18.6	311	2,765
2 3/4	70	6x41 RLL IWRC	13.8	20.5	344	3,061
2 7/8	73	6x43 RLL IWRC	14.9	22.2	378	3,365
3	76	6x43 RLL IWRC	16.3	24.2	411	3,661
3 1/8	79	6x43 RLL IWRC	17.6	26.3	445	3,957
3 1/4	83	6x43 RLL IWRC	19.5	29.1	479	4,261
3 3/8	86	6x43 RLL IWRC	20.5	30.5	512	4,557
3 1/2	89	6x49 RLL IWRC	21.8	32.5	545	4,853
3 5/8	92	6x49 RLL IWRC	23.8	35.5	580	5,157
3 3/4	95	6x49 RLL IWRC	25.3	37.7	613	5,453
3 7/8	98	6x49 RLL IWRC	27.3	40.6	683	6,079
4	102	6x49 RLL IWRC	29.1	43.4	731	6,502
4 1/8	105	6x49 RLL IWRC	31.5	46.9	777	6,916
4 1/4	108	6x49 RLL IWRC	33.4	49.8	825	7,339
4 3/8	111	6x49 RLL IWRC	35.4	52.7	872	7,761
4 1/2	114	6x49 RLL IWRC	37.3	55.4	943	8,395
4 5/8	117	6x49 RLL IWRC	39.1	58.3	984	8,757
4 3/4	121	6x49 RLL IWRC	41.7	62.1	1,057	9,410
4 7/8	124	6x49 RLL IWRC	43.9	65.3	1,115	9,926
5	127	6x49 RLL IWRC	46.3	68.8	1,171	10,425

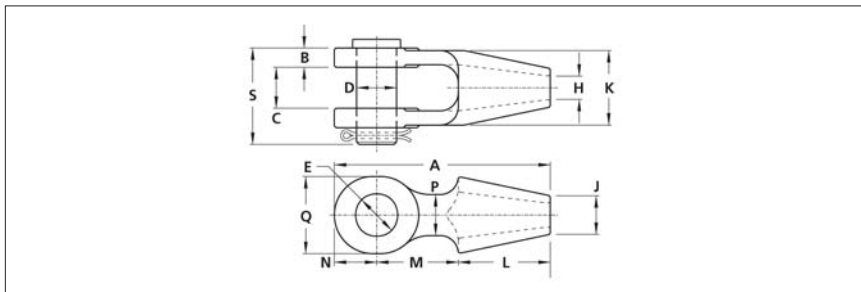
# PRODUCT SPECIFICATIONS

## BREAKING LOAD TABLES- DRAGLINES

### OPEN SPELTER SOCKETS

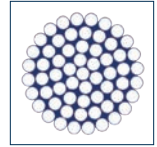
STRAND DIAMETER	ROPE DIAMETER	A	B	C	ØD	ØE	ØH	ØJ	K	L	M	N	P	Q	S	WT LBS.
1/2	9/16-5/8	6.75	0.56	1.25	1.19	1.25	0.69	1.13	2.38	3	2.56	1.25	1.25	2.25	3.06	4
9/16-5/8	3/4	7.94	0.69	1.5	1.38	1.44	0.81	1.38	2.74	3.5	3	1.44	1.5	2.63	3.44	7
11/16-3/4	7/8	9.25	0.81	1.75	1.63	1.69	1	1.63	3.25	4	3.5	1.75	1.75	3.25	3.94	10
13/16-7/8	1	10.56	0.94	2	2	2.06	1.13	1.75	3.75	4.5	4	2.06	2	3.75	4.63	15
15/16-1	1-1/8	11.88	1	2.25	2.25	2.31	1.25	1.94	4.25	5.06	4.5	2.31	2.38	4.13	5.13	23
1-1/16-1-1/8	1-1/4-1-3/8	13.06	1.13	2.5	2.5	2.56	1.5	2.19	4.69	5.38	5	2.69	2.88	4.63	5.81	33
1-3/16-1-1/4	1-1/2	15.13	1.19	3	2.75	2.81	1.63	2.75	5.38	6	6	3.13	3	5.38	6.25	43
1-5/16-1-3/8	1-5/8	16.25	1.31	3	3	3.06	1.75	2.88	5.63	6.5	6.5	3.25	3.25	5.75	6.5	52
1-7/16-1-5/8	1-3/4-1-7/8	18.38	1.63	3.5	3.5	3.56	2	3.13	6.25	7.5	7	3.88	3.88	6.5	7.63	83
1-11/16-1-3/4	2-2-1/8	21.75	1.81	4	3.75	3.81	2.25	3.75	7.5	8.5	9	4.25	4.25	7.25	8.88	127
1-13/16-1-7/8	—	21.75	1.81	4	4	4.06	2.25	3.75	7.5	8.5	9	4.25	4.25	7.25	9	130
1-15/16-2	2-1/4-2-3/8	23.75	2.13	4.5	4.25	4.31	2.5	4	8.38	9	10	4.75	4.38	8	10	178
2-1/16-2-1/8	—	23.75	2.13	4.5	4.5	4.56	2.5	4	8.38	9	10	4.75	4.38	8	10	184
2-3/16-2-1/4	2-1/2-2-5/8	26	2.38	5	4.75	4.81	2.88	4.5	9.25	9.75	11	5.25	4.75	8.5	11.25	236
2-5/16-2-3/8	2-3/4-2-7/8	28.25	2.88	5.25	5	5.06	3.13	5.31	10.13	11.5	11.5	5.25	5.25	9	12.5	315
2-7/16-2-9/16	3-3-1/8	29.75	3	5.75	5.25	5.31	3.38	7.5	10.75	12.5	11.5	5.75	5.5	9.5	13.25	424
2-5/8-2-3/4	3-1/4	30.5	3	6	5.75	5.81	3.5	7.38	11.5	12.5	12	6	5.5	9.75	13.5	484
2-7/8-3	3-3/8	31.75	3.13	6.25	6	6.06	3.63	7.63	11.5	12.5	12	7.25	6	12	14.25	558
3-1/8-3-1/4	3-1/2	32.5	3.25	6.75	6.5	6.56	3.88	8.25	12.25	13.25	12.5	6.75	7	11.25	15	627
3-3/8-3-1/2	3-5/8	34.75	3.38	7.25	6.75	6.81	4	8.63	13.25	14	13	7.75	7.25	11.75	15.63	734
3-5/8-3-3/4	3-3/4-4	36.25	3.5	7.5	7	7.06	4.25	9.25	14.25	15	13.5	7.75	7.5	13	16.25	844
3-7/8-4	4-1/8	38.75	3.63	8	7.25	7.31	4.5	9.75	14.5	15.5	14.25	9	8	14.5	17	999
4-1/8-4-3/8	4-1/4-4-1/2	44.38	3.88	8.25	7.25	7.31	5.25	9.5	16	18.5	16.5	9.38	8.5	15	17.25	1217
4-1/2-4-3/4	4-3/4-5	46.25	4	8.5	7.5	7.56	5.5	10.5	16.5	19	17.25	10	8.5	16	18.13	1405
4-7/8-5-1/8	5-1/4-5-1/2	49.25	4.5	8.75	8	8.06	6	11	17.15	21	18	10.25	9	16.5	19	1645
5-1/4-5-1/2	5-3/4-6	52.63	4.88	9	8.75	8.81	6.38	12	18.75	22.5	19	11.13	10	18	20	2090

All dimensions are in inches.





**PS 1000 - Boom Pendants - Bridge Strand High Quality  
Structural Strand (ASTM-A-586)**



DIAMETER INCHES (MM)	APPROX. WEIGHT LBS/FT (KG/M)	MINIMUM BREAKING LOAD-TONS (KN)
7/8 (22)	1.61 (2.40)	46 (409)
15/16 (24)	1.85 (2.75)	54 (480)
1 (25)	2.10 (3.13)	61 (543)
1-1/16 (27)	2.37 (3.53)	69 (614)
1-1/8 (29)	2.66 (3.96)	78 (694)
1-3/16 (30)	2.96 (4.40)	86 (765)
1-1/4 (32)	3.28 (4.88)	96 (854)
1-5/16 (33)	3.62 (5.39)	106 (943)
1-3/8 (35)	3.97 (5.91)	116 (1 032)
1-7/16 (37)	4.34 (6.46)	126 (1 121)
1-1/2 (38)	4.73 (7.04)	138 (1 228)
1-9/16 (40)	5.13 (7.63)	150 (1 335)
1-5/8 (41)	5.55 (8.26)	162 (1 441)
1-11/16 (43)	5.98 (8.90)	176 (1 566)
1-3/4 (44)	6.43 (9.57)	188 (1 673)
1-13/16 (46)	6.90 (10.27)	202 (1 797)
1-7/8 (48)	7.39 (11.00)	216 (1 922)
1-15/16 (49)	7.89 (11.74)	230 (2 046)
2 (51)	8.40 (12.50)	245 (2 180)
2-1/16 (52)	8.94 (13.30)	261 (2 322)
2-1/8 (54)	9.49 (14.12)	277 (2 464)
2-3/16 (56)	10.05 (14.95)	293 (2 607)
2-1/4 (57)	10.64 (15.83)	310 (2 758)
2-5/16 (59)	11.24 (16.73)	327 (2 909)
2-3/8 (60)	11.85 (17.63)	344 (3 060)
2-7/16 (62)	12.48 (18.57)	360 (3 203)
2-1/2 (64)	13.13 (19.54)	376 (3 345)
2-9/16 (65)	13.80 (20.53)	392 (3 488)
2-5/8 (67)	14.47 (21.53)	417 (3 710)
2-11/16 (68)	15.16 (22.56)	432 (3 843)
2-3/4 (70)	15.88 (23.63)	452 (4 021)
2-7/8 (73)	17.36 (25.83)	494 (4 395)
3 (76)	18.90 (28.12)	538 (4 786)
3-1/8 (79)	20.51 (30.52)	584 (5 196)
3-1/4 (83)	22.18 (33.00)	625 (5 561)
3-3/8 (86)	23.92 (35.59)	673 (5 988)
3-1/2 (89)	25.73 (38.29)	724 (6 441)
3-5/8 (92)	27.60 (41.07)	768 (6 833)
3-3/4 (95)	29.50 (43.90)	822 (7 313)
3-7/8 (98)	31.50 (46.87)	878 (7 811)
4 (101)	33.60 (50.00)	925 (8 230)
4-1/8 (105)	35.70 (53.12)	990 (8 810)
4-1/4 (108)	37.90 (56.40)	1 050 (9 350)
4-3/8 (111)	40.20 (59.82)	1 110 (9 880)
4-1/2 (114)	41.30 (61.45)	1 175 (10 460)

## GREEN REEL PROGRAM™

For many years, reels have been considered no more than the packaging for wire rope. However, with many clients concerned with environmental impact and real estate, used reels have come to present a serious inconvenience.

Based on discussions with our mining clients, WRI has developed a Green Reel Program™. We strongly believe that this program results in win-win situation and creates significant value for our clients. The program not only focuses on clients who receive products on wood reels, but also on clients who use steel reels but without a coordinated reel return program in place.

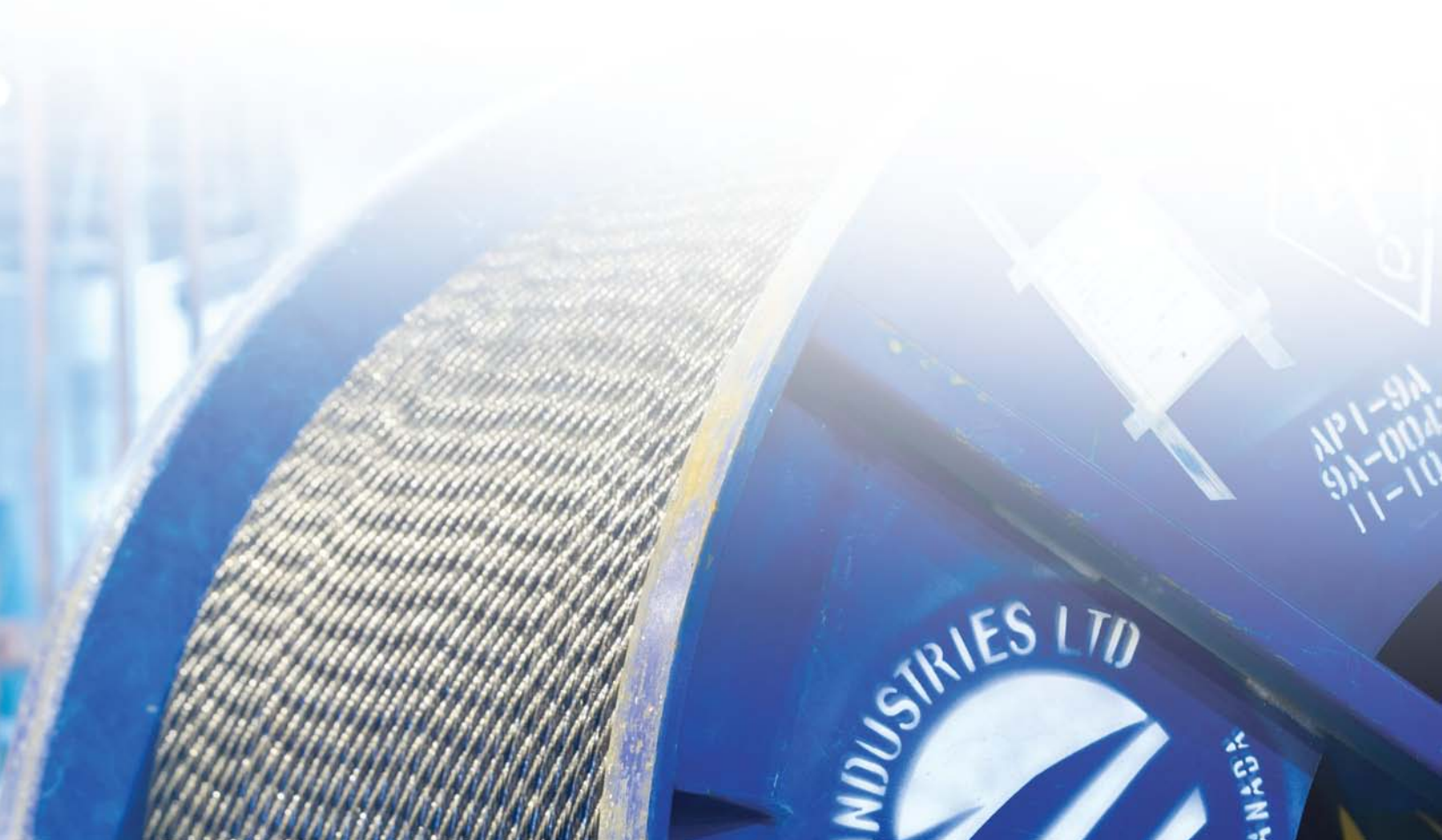
**Please contact us if you are interested in enjoying the benefits of the Green Reel Program™.**

### Benefits:

- » Virtual elimination of waste caused by the used wood reels
- » Less real estate needed for on-site storage of reels
- » Reduced environmental impact
- » Lower costs by switching from wood to steel reels over the length of contract
- » If a customer already uses steel reels, savings from higher reuse of the existing reels

### Example: A major shovel rope client

- » Reduction from 850 wood reels to just 100 steel reels over the course of the contract
- » Elimination of stock of more than 200 discarded wood reels on site
- » Savings of 10% on the cost of reels
- » Reduction of environmental impact



# CONTACTS

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