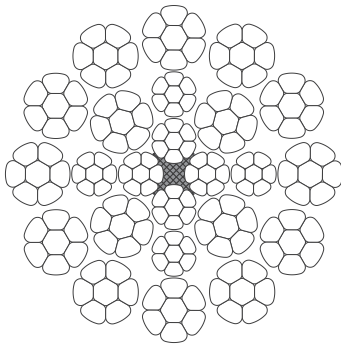


NRHD 24 CS (20-45mm)

A compacted rope engineered specifically for deep shaft mining applications.

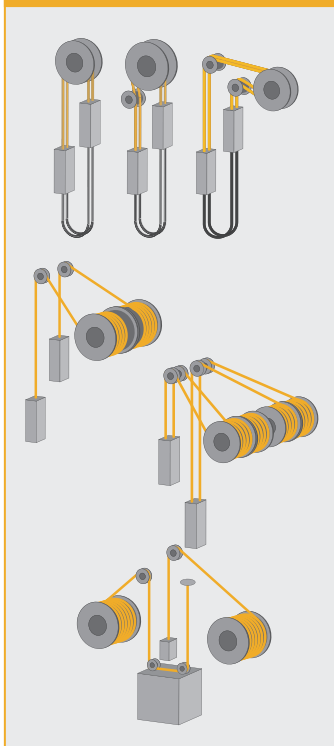
Engineered for use in deep shaft mining, NRHD 24 CS is a compacted rope for Koepe extraction, drum winders and sinking shafts. The compacted strands deliver increased rope density, decrease the internal stresses and improve MBL and fatigue resistance. The textile core absorbs pressure from surrounding strands and assists lubrication.



Advantages:

- Long service life
- Easy installation
- Cost effective

Applications:



NRHD 24 CS/2018/v1.0

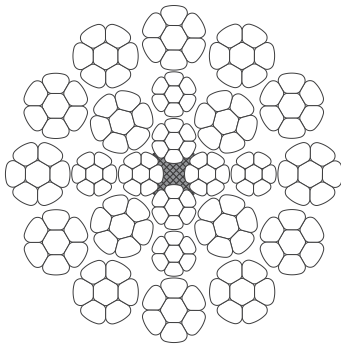
| Diameter | | Weight | | Minimum breaking load | | | |
|----------|--------|--------|--------|-----------------------|----------|----------|----------|
| mm | inch | kg/m | lbs/ft | kN | kN | kN | kN |
| | | | | 1570 MPa | 1960 MPa | 2060 MPa | 2160 MPa |
| 20 | - | 1.91 | 1.28 | 250 | 321 | 354 | 390 |
| 21 | - | 2.09 | 1.41 | 274 | 351 | 388 | 426 |
| 22 | 7/8 | 2.29 | 1.54 | 299 | 384 | 424 | 466 |
| 23 | - | 2.50 | 1.68 | 326 | 418 | 461 | 507 |
| 24 | 15/16 | 2.72 | 1.83 | 354 | 454 | 501 | 551 |
| 25 | - | 2.95 | 1.98 | 383 | 491 | 543 | 597 |
| 26 | 1" | 3.19 | 2.14 | 414 | 531 | 586 | 645 |
| 27 | - | 3.44 | 2.31 | 447 | 572 | 632 | 695 |
| 28 | - | 3.70 | 2.49 | 480 | 615 | 680 | 747 |
| 29 | 1" 1/8 | 3.98 | 2.67 | 515 | 660 | 729 | 802 |
| 30 | - | 4.26 | 2.86 | 552 | 707 | 781 | 859 |
| 31 | - | 4.55 | 3.06 | 589 | 755 | 834 | 917 |
| 32 | 1" 1/4 | 4.86 | 3.26 | 629 | 806 | 890 | 978 |
| 33 | - | 5.17 | 3.48 | 669 | 857 | 947 | 1041 |
| 34 | - | 5.50 | 3.69 | 711 | 911 | 1006 | 1106 |
| 35 | 1" 3/8 | 5.83 | 3.92 | 754 | 966 | 1067 | 1173 |
| 36 | - | 6.18 | 4.15 | 798 | 1023 | 1130 | 1243 |
| 37 | - | 6.53 | 4.39 | 844 | 1082 | 1195 | 1314 |
| 38 | 1" 1/2 | 6.90 | 4.63 | 891 | 1142 | 1261 | 1387 |
| 39 | - | 7.27 | 4.89 | 940 | 1204 | 1330 | 1462 |
| 40 | - | 7.66 | 5.15 | 989 | 1268 | 1400 | 1539 |
| 41 | 1" 5/8 | 8.05 | 5.41 | 1040 | 1333 | 1472 | 1619 |
| 42 | - | 8.46 | 5.68 | 1092 | 1400 | 1546 | 1700 |
| 43 | - | 8.87 | 5.96 | 1146 | 1468 | 1622 | 1783 |
| 44 | 1" 3/4 | 9.30 | 6.25 | 1200 | 1538 | 1699 | 1868 |
| 45 | - | 9.73 | 6.54 | 1256 | 1610 | 1778 | 1955 |

For larger sizes, see [NRHD 24 CS \(46-70mm\)](#)

NRHD 24 CS (46-70mm)

A compacted rope engineered specifically for deep shaft mining applications.

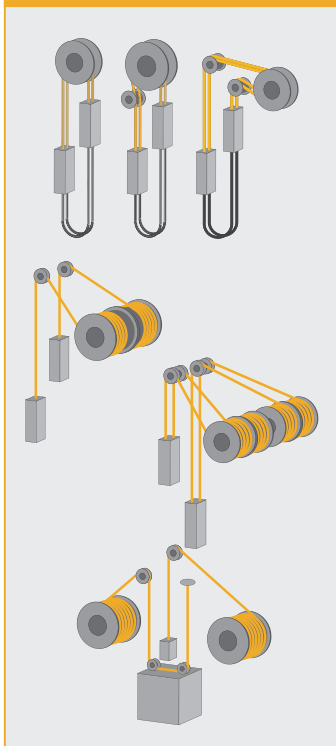
Engineered for use in deep shaft mining, NRHD 24 CS is a compacted rope for Koepe extraction, drum winders and sinking shafts. The compacted strands deliver increased rope density, decrease the internal stresses and improve MBL and fatigue resistance. The textile core absorbs pressure from surrounding strands and assists lubrication.



Advantages:

- Long service life
- Easy installation
- Cost effective

Applications:



NRHD 24 CS/2018/v1.0

| Diameter | | Weight | | Minimum breaking load | | | |
|----------|--------|--------|--------|-----------------------|----------|----------|----------|
| mm | inch | kg/m | lbs/ft | kN | kN | kN | kN |
| | | | | 1570 MPa | 1960 MPa | 2060 MPa | 2160 MPa |
| 46 | - | 10.18 | 6.84 | 1313 | 1683 | 1859 | 2044 |
| 47 | - | 10.63 | 7.14 | 1372 | 1758 | 1942 | 2135 |
| 48 | 1" 7/8 | 11.09 | 7.45 | 1431 | 1834 | 2026 | 2227 |
| 49 | - | 11.57 | 7.77 | 1492 | 1912 | 2112 | 2322 |
| 50 | - | 12.05 | 8.10 | 1554 | 1992 | 2200 | 2418 |
| 51 | 2" | 12.54 | 8.43 | 1617 | 2073 | 2289 | 2517 |
| 52 | - | 13.04 | 8.76 | 1681 | 2155 | 2380 | 2617 |
| 53 | - | 13.55 | 9.11 | 1747 | 2239 | 2473 | 2719 |
| 54 | 2" 1/8 | 14.07 | 9.46 | 1813 | 2324 | 2567 | 2822 |
| 55 | - | 14.60 | 9.81 | 1881 | 2411 | 2663 | 2928 |
| 56 | - | 15.14 | 10.17 | 1950 | 2500 | 2761 | 3035 |
| 57 | 2" 1/4 | 15.69 | 10.54 | 2020 | 2589 | 2860 | 3144 |
| 58 | - | 16.24 | 10.92 | 2091 | 2681 | 2960 | 3255 |
| 59 | - | 16.81 | 11.30 | 2164 | 2773 | 3063 | 3367 |
| 60 | 2" 3/8 | 17.38 | 11.68 | 2237 | 2867 | 3167 | 3482 |
| 61 | - | 17.97 | 12.07 | 2312 | 2963 | 3272 | 3598 |
| 62 | - | 18.56 | 12.47 | 2387 | 3060 | 3379 | 3715 |
| 63 | - | 19.16 | 12.88 | 2464 | 3158 | 3488 | 3835 |
| 64 | 2" 1/2 | 19.77 | 13.29 | 2542 | 3257 | 3598 | 3956 |
| 65 | - | 20.39 | 13.70 | 2620 | 3358 | 3709 | 4078 |
| 66 | - | 21.02 | 14.13 | 2700 | 3461 | 3822 | 4202 |
| 67 | 2" 5/8 | 21.66 | 14.55 | 2781 | 3564 | 3937 | 4328 |
| 68 | - | 22.30 | 14.99 | 2863 | 3669 | 4052 | 4456 |
| 69 | - | 22.96 | 15.43 | 2946 | 3776 | 4170 | 4585 |
| 70 | 2" 3/4 | 23.62 | 15.87 | 3030 | 3883 | 4289 | 4715 |

For smaller sizes, see [NRHD 24 CS \(20-45mm\)](#)

NRHD 24 CS wire rope properties

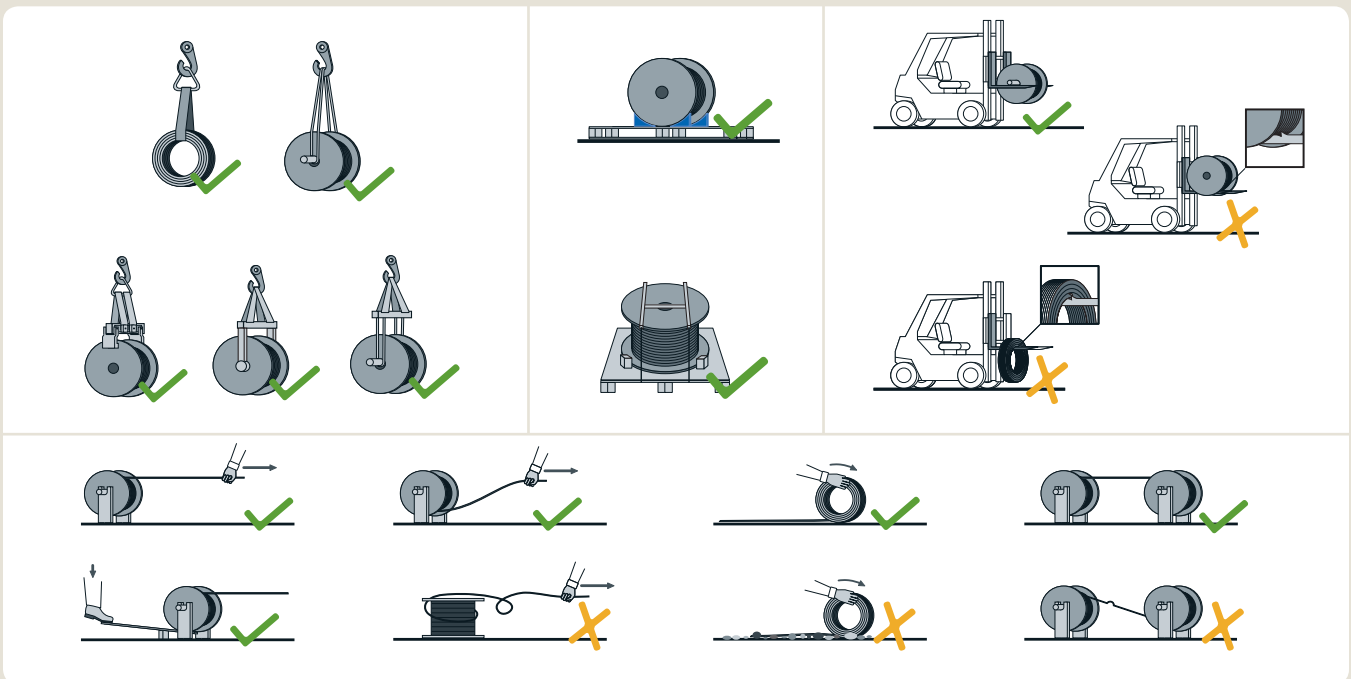
| | | | | | | |
|---------------------|--|--|--|---|---|--|
| Standard Properties |  Lubrication |  Rotation Resistance |  Stretch Resistant |  Pre-Shaped |  Compaction |  Regular Lay Rope |
| On Demand |  Bright Wire |  Galvanised Wire |  Corzal® Wire |  Electromagnetic Inspection |  Lang Lay Rope |  Right/Left Hand Lay |

Storage and maintenance

The rope must be adequately maintained and regularly lubricated, as often as it is necessary, but at least when the rope works in extreme conditions and before/after prolonged inactivity. The lubricant must be compatible with the original grease. Before re-lubrication, the wire rope must be dry and cleaned by scraping. Cleaning by cloth, cryogenic spray, high pressure cleaner and solvents are forbidden.

When stored, the rope should be kept in a dry and ventilated environment with no direct contact with the floor and an air flow under the reel. Visual inspection is necessary before the use of a stored wire rope. In case of doubt of the quality of the wire rope, we can help you to find and make additional inspection analysis.

EWRIS handling recommendations



The diagrams illustrate various handling scenarios for wire rope reels and coils. Green checkmarks indicate correct practices, while orange X marks indicate incorrect practices. Correct practices include: using proper lifting techniques with slings and hooks; using pallets for transport; using forklifts to move reels without dragging them; and ensuring proper tensioning and alignment on drums. Incorrect practices include: dragging reels on the ground; using forklifts to lift reels from the side; and applying excessive force or sharp bends to the rope.

At all times, contact of the rope with any metallic pieces should be avoided to prevent early damage.



EWRIS
European Federation of Steel Wire Rope Industries

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High performance Mining Ropes for the most demanding environments

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