

The Tirak™ principle

ONLY SETTLE FOR THE BEST
THE TIRAK™ SERIES IS THE MOST VERSATILE WIRE ROPE HOIST SERIES IN THE
WORLD.

INFINITE POSSIBILITIES

- For transporting both materials and passengers
- Unlimited lifting height or pulling length
- Unlimited wire rope length
- WLL varying from 300 to 3,000 kg
- No standard version: customized assembly and production
- The working load can be increased by reeving the wire rope

RELIABLE

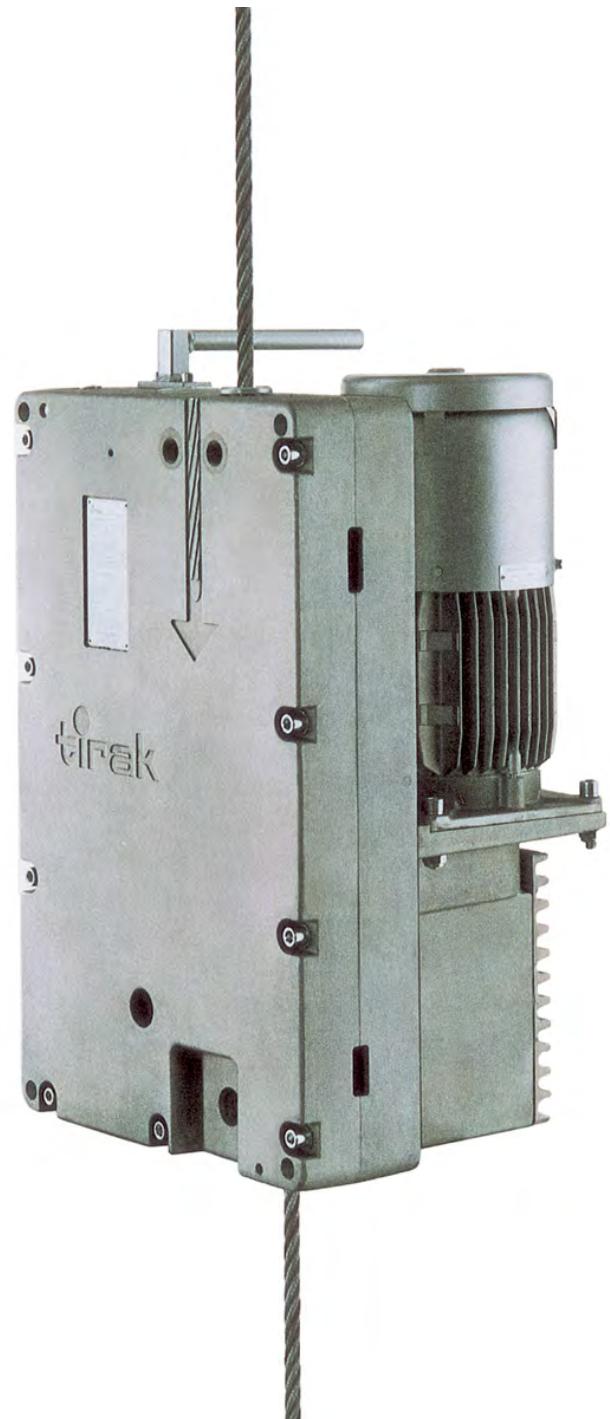
- Constant speed
- Constant lifting and pulling capacity
- Fixed position of ingoing and outgoing cables
- Integrated mechanical overload protection (≥ 1000 kg)
- Long service life

QUALITY

- Robust, durable and silent
- Areas of application: maritime, building, industry and utility
- Low-maintenance
- Spare parts available

FLEXIBLE

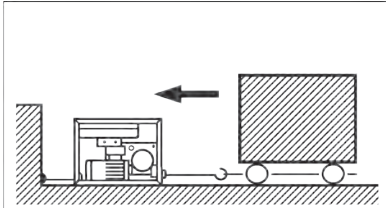
- Different versions for each application
- Various suspension adapters available
- Optionally available with transport reel and frame
- Lifting cable available in any required length
- Non-rotating lifting cable for non-guided loads



The Tirak™ principle

THE UNIQUE APPLICATIONS! LIFTING AND PULLING

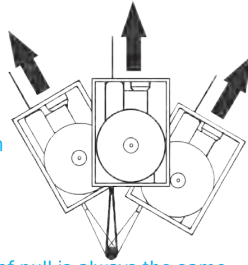
ANCHORED TO THE FRAME



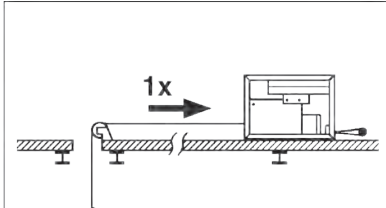
Secure the mobile hoist to a suitable anchor point by using a sling, chain or other securing method and you will be ready to start working.

ORIENTATION

The Tirak™ hoist will automatically rotate around its attachment in the direction of the force. Contrary to a drum hoist, the direction of pull is always the same because of the steady wire rope output. In addition, the speed and force are constant.

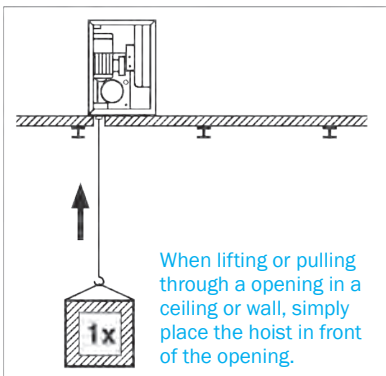


LIFTING LOADS



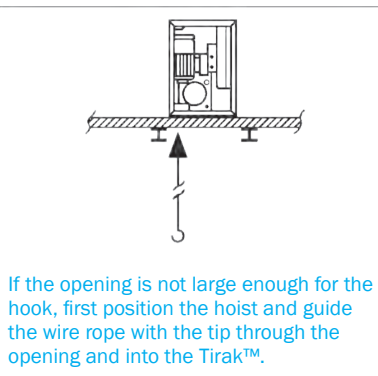
For lifting: secure the mobile hoist to a suitable anchor point and guide the wire rope through 1 or more sheave blocks.

DIRECT LIFTING OR PULLING



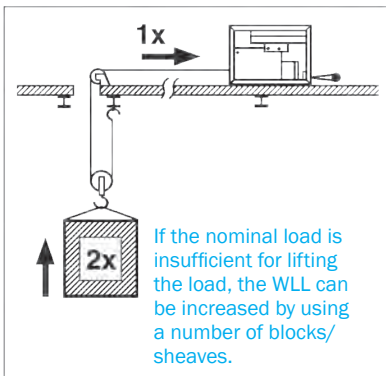
When lifting or pulling through a opening in a ceiling or wall, simply place the hoist in front of the opening.

POSITIONING



If the opening is not large enough for the hook, first position the hoist and guide the wire rope with the tip through the opening and into the Tirak™.

LIFTING AND REEVING



If the nominal load is insufficient for lifting the load, the WLL can be increased by using a number of blocks/sheaves.

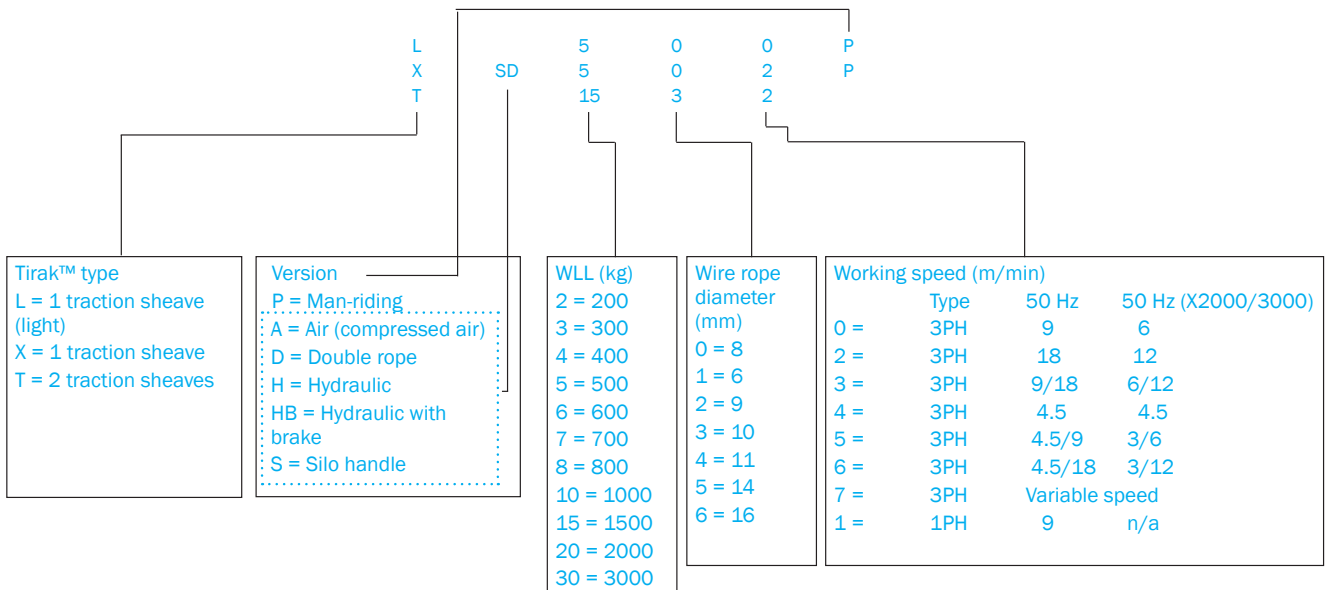
TYPE CODING STRUCTURE, INFINITE POSSIBILITIES

PROVEN TECHNOLOGY

- The Tirak™ combines proven technology with modern techniques and sophisticated production methods in order to obtain the highest possible quality standards.

CUSTOMIZATION

- Each Tirak™ is assembled and produced in accordance with customer requirements. We will be happy to advice and support you while assembling the optimal Tirak for your application.
- Type coding structure



TIRAK™ HOIST FOR MATERIAL HANDLING

The models mentioned below are only a few examples. For more information about customized solutions, please contact TRACTEL® Customer Service and Technical Support.

- WLL varying from 300 to 3,000 kg
- Unlimited wire rope length
- Compact size
- Equipped with a standard emergency descent system
- Overload protection ($\geq 1,000$ kg)



| model | WLL (kg) | lifting speed (m/min) | power (f / VAC / Hz) | power (kW) | wire rope \varnothing (mm) | weight (kg) | code |
|--------------|----------|-----------------------|----------------------|------------|------------------------------|-------------|--------|
| X300 | 300 | 9 | 3 / 400 / 50 | 0.5 | 8.3 | 27 | 188639 |
| X302 | | 18 | 3 / 400 / 50 | 0.9 | 8.3 | 27 | 188649 |
| X301 | | 9 | 1 / 230 / 50 | 0.5 | 8.3 | 29 | 188659 |
| X400 | 400 | 9 | 3 / 400 / 50 | 0.9 | 8.3 | 29 | 188669 |
| X402 | | 18 | 3 / 400 / 50 | 1.8 | 8.3 | 31 | 188679 |
| X403 | | 9-18 | 3 / 400 / 50 | 0.9-1.8 | 8.3 | 35 | 188689 |
| X401 | | 9 | 1 / 230 / 50 | 0.9 | 8.3 | 32 | 188699 |
| X500 | 500 | 9 | 3 / 400 / 50 | 0.9 | 8.3 | 40 | 188709 |
| X501 | | 18 | 3 / 400 / 50 | 1.8 | 8.3 | 43 | 188719 |
| X502 | | 9-18 | 3 / 400 / 50 | 0.9-1.8 | 8.3 | 47 | 188729 |
| X503 | | 9 | 1 / 230 / 50 | 0.9 | 8.3 | 49 | 188739 |
| X800 | 800 | 9 | 3 / 400 / 50 | 1.6 | 8.3 | 45 | 188749 |
| X802 | | 18 | 3 / 400 / 50 | 3.2 | 8.3 | 49 | 188759 |
| X803 | | 9-18 | 3 / 400 / 50 | 1.75-3.5 | 8.3 | 49 | 188779 |
| X805 | | 4.5-9 | 3 / 400 / 50 | 0.8-1.6 | 8.3 | 50 | 188769 |
| X1020 | 980 | 9 | 3 / 400 / 50 | 1.9 | 9.5 | 45 | 188789 |
| X1023 | | 9-18 | 3 / 400 / 50 | 1.9-3.8 | 9.5 | 56 | 188819 |
| X1025 | | 4.5-9 | 3 / 400 / 50 | 0.9-1.9 | 9.5 | 55 | 188799 |
| X1026 | | 4.5-18 | 3 / 400 / 50 | 0.9-3.8 | 9.5 | 71 | 188809 |
| T1020 | 980 | 9 | 3 / 400 / 50 | 1.9 | 9.5 | 71 | 188829 |
| T1023 | | 9-18 | 3 / 400 / 50 | 1.9-3.8 | 9.5 | 85 | 188859 |
| T1025 | | 4.5-9 | 3 / 400 / 50 | 0.9-1.8 | 9.5 | 84 | 188839 |
| T1026 | | 4.5-18 | 3 / 400 / 50 | 1.9-3.8 | 9.5 | 94 | 188849 |
| X1530 | 1,500 | 9 | 3 / 400 / 50 | 2.8 | 10.2 | 49 | 188879 |
| X3050 | 3,000 | 6 | 3 / 400 / 50 | 3.8 | 14.3 | 105 | 188889 |
| X3052 | | 12 | 3 / 400 / 50 | 7.5 | 14.3 | 117 | 188899 |

The above-mentioned Tirak™ models have a standard integrated control box and control pendant (Up-Down-Emergency Stop) with a 1.5 m cable.

Excluding Maxiflex wire rope. See page 28 and 29 for wire ropes and other accessories.

The Maxiflex wire rope has been developed especially for optimal use guaranteed by Tractel®, in combination with the Tirak™ hoists.

TIRAK™ MAN-RIDING HOIST

The models mentioned below are only a few examples. For more information about customized solutions, please contact TRACTEL® Customer Service and Technical Support.

- WLL varying from 300 to 2000 kg
- Unlimited wire rope length
- Compact size
- Equipped with a standard emergency descent system
- Integrated mechanical overload protection in conformity with EN1808

Man-riding transport: Tirak™ for central control



Man-riding transport: Tirak™ with control pendant



| model | WLL (kg) | lifting speed (m/min) | power (f / VAC / Hz) | power (kW) | wire rope Ø (mm) | weight (kg) | code ¹⁾ | code ²⁾ |
|---------------|----------|-----------------------|----------------------|------------|------------------|-------------|--------------------|--------------------|
| X300P | 300 | 9 | 3 / 400 / 50 | 0.5 | 8.3 | 28 | 188189 | 188209 |
| X301P | | 9 | 1 / 230 / 50 | 0.5 | 8.3 | 29 | 188229 | 188239 |
| X302P | | 18 | 3 / 400 / 50 | 0.9 | 8.3 | 28 | 188199 | 113059 |
| X400P | 400 | 9 | 3 / 400 / 50 | 0.9 | 8.3 | 29 | 188259 | 188269 |
| X401P | | 9 | 1 / 230 / 50 | 0.9 | 8.3 | 32 | 188329 | 188339 |
| X402P | | 18 | 3 / 400 / 50 | 1.8 | 8.3 | 31 | 188279 | 188289 |
| X403P | | 9-18 | 3 / 400 / 50 | 0.9-1.8 | 8.3 | 35 | 188299 | 188319 |
| L500P | 500 | 9 | 3 / 400 / 50 | 0.9 | 8.3 | 29 | 188349 | 188359 |
| X500P | | 9 | 3 / 400 / 50 | 0.9 | 8.3 | 41 | 188379 | 188399 |
| X501P | | 9 | 1 / 230 / 50 | 0.9 | 8.3 | 49 | 188439 | 188449 |
| X502P | | 18 | 3 / 400 / 50 | 1.8 | 8.3 | 44 | 188389 | 188409 |
| X503P | | 9-18 | 3 / 400 / 50 | 0.9-1.8 | 8.3 | 51 | 188419 | 188429 |
| X820P | 800 | 9 | 3 / 400 / 50 | 1.6 | 9.5 | 47 | 188509 | 188459 |
| X823P | | 9-18 | 3 / 400 / 50 | 1.75-3.5 | 9.5 | 53 | 188519 | 188469 |
| X1030P | 1,000 | 9 | 3 / 400 / 50 | 1.8 | 10.2 | 47 | 188549 | 188589 |
| X1033P | | 9-18 | 3 / 400 / 50 | 1.9-3.6 | 10.2 | 58 | 188559 | 188599 |
| X2050P | 2,000 | 6 | 3 / 400 / 50 | 2.2 | 14.3 | 100 | 188569 | 188609 |
| X2052P | | 9-12 | 3 / 400 / 50 | 5.5 | 14.3 | 117 | 188579 | 188619 |
| X2058P | | 18 | 3 / 400 / 50 | 7.5 | 14.3 | 117 | - | 212509 |

¹⁾ code for connection to central control

²⁾ code with control pendant (UP/DOWN/ EMERGENCY STOP)

Excluding Maxiflex wire rope. See page 28 and 29 for wire ropes and other accessories.

The Maxiflex wire rope has been developed especially for optimal use guaranteed by Tractel®, in combination with the Tirak™ hoists. If the hoist is used for man-riding, a lifting and safety rope with secondary safety device must be present at all times, in accordance with the Machinery Directive.

The extremely reliable Tractel® Blocstop™ can be deployed as a secondary safety device on the safety cable.

The CE certificate supplied with a Tirak™ man-riding hoist shall apply to the product as a whole. After any modification or addition, the entire product must be certified again.

TIRAK™ with cable reel

Because of its unique design, the Tirak™ can be used without a cable reel. The end of the cable will hang freely. If this situation is undesirable, a cable reel can be used to safely wind and store the wire rope.

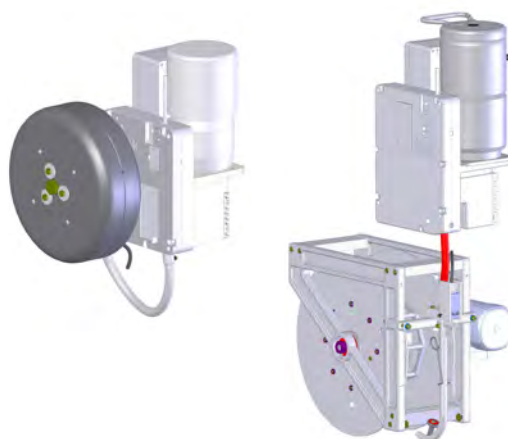
Three different cable reels are available:

- Free-running cable reel
- Driven cable reel (directly by Tirak™ drive shaft)
- Cable reel driven by a separate electric motor (very long lengths)

The models mentioned below are only a few examples. For more information about customized solutions, please contact TRACTEL® Customer Service and Technical Support.

- WLL varying from 300 to 3,000 kg
- Storage capacity up to 520 m
- Choice between material handling or man-riding application
- Compact size

free-running cable reel cable reel with electric motor



driven cable reel

GM = driven by a separate electric motor
 optional GM = optional electric motor
 others = directly driven by Tirak™ drive shaft
 (xxx m) = max. usable length

list free-running cable reel

| model | WLL (kg) | wire rope Ø (mm) | Ø 350 mm (m) | Ø 400 mm (m) | Ø 450 mm (m) | Ø 600 mm (m) | 90 m (plastic) (m) | 120 m (opt. GM) (m) | 220 m (opt. GM) (m) | 320 m (opt. GM) (m) |
|--------|----------|------------------|--------------|--------------|--------------|--------------|--------------------|---------------------|---------------------|---------------------|
| X300 | 300 | 8.3 | 40 | 60 | - | - | 90 (75) | - | - | - |
| X400 | 400 | 8.3 | 40 | 60 | - | - | 90 (75) | - | - | - |
| X310 | 300 | 6 | 60 | 80 | - | - | 160 (140) | - | - | - |
| X510 | 350 | 6 | 60 | 80 | - | - | 160 (140) | 200 (189) | 360 (341) | 520 (492) |
| X500 | 500 | 8.3 | 40 | 60 | 80 | - | 90 (75) | 120 (110) | 220 (205) | 320 (300) |
| L500 | 500 | 8.3 | 40 | 60 | - | - | - | - | - | - |
| X600 | 600 | 8.3 | 40 | 60 | 80 | - | 90 (75) | 120 (110) | 220 (205) | 320 (300) |
| X800 | 800 | 8.3 | 40 | 60 | 80 | - | 90 (75) | 120 (110) | 220 (205) | 320 (300) |
| X520 | 500 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X620 | 600 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X820 | 800 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X1020 | 980 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X1220 | 1,250 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X1030 | 1,000 | 10.2 | 27 | 40 | 55 | - | - | 80 (70) | 150 (135) | 220 (200) |
| X1530 | 1,500 | 10.2 | 27 | 40 | 55 | - | - | 80 (70) | 150 (135) | 220 (200) |
| X2050 | 2,000 | 14.3 | - | - | 40 | 110 | - | 55 (G) | 65 (G) | - |
| X3050 | 3,000 | 14.3 | - | - | 40 | 110 | - | 55 (G) | 65 (G) | - |
| X300P | 300 | 8.3 | 40 | 60 | - | - | 90 (75) | - | - | - |
| X400P | 400 | 8.3 | 40 | 60 | - | - | 90 (75) | - | - | - |
| X500P | 500 | 8.3 | 40 | 60 | 80 | - | 90 (75) | 120 (110) | 220 (205) | 320 (300) |
| X520P | 500 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X620P | 600 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X820P | 800 | 9.5 | 33 | 50 | 65 | - | 70 (55) | 95 (85) | 170 (155) | 250 (230) |
| X1030P | 1,000 | 10.2 | 27 | 40 | 55 | - | - | 80 (70) | 150 (135) | 220 (200) |
| X2050P | 2,000 | 14.3 | - | - | 40 | 110 | - | 55 (G) | 65 (G) | - |

Excluding Maxiflex wire rope. See page 28 and 29 for wire ropes and other accessories.

The Maxiflex wire rope has been developed especially for optimal use guaranteed by Tractel®, in combination with the Tirak™ hoists. If the hoist is used for man-riding, a lifting and safety rope with secondary safety device must be present at all times, in accordance with the Machinery Directive.

The extremely reliable Tractel® Blocstop™ can be deployed as a secondary safety device on the safety cable.

TIRAK™ MOBILE WINCH in frame with cable reel

The Tirak™ Mobile Winch has a very robust frame for optimal protection of the Tirak™ and the cable reel. The frame can be easily transported by using the lifting eyes. The device is supplied with a control pendant and a lifting eye to anchor the Tirak™ to an anchor point.

The models mentioned below are only a few examples.

For more information about customized solutions, please contact TRACTEL® Customer Service and Technical Support.

- WLL varying from 350 to 2,000 kg
- Storage capacity up to 1,000 m
- Also available in a double reel version (2 wire ropes)
- Choice between material handling or man-riding application
- Very robust
- Equipped with lifting eyes

free-running cable reel



cable reel on drive shaft



cable reel with electric motor



driven cable reel

GM = driven by a separate electric motor
 others = directly driven by Tirak™ drive shaft
 (xxx m) = max. usable length

| model | WLL (kg) | wire rope Ø (mm) | MW (m) | MW 120 m (m) | MW 220 m (m) | MW 300 m GM (m) | MW 500 m (m) | MW 800 m GM (m) | MW 1000 m GM (m) |
|---------------|----------|------------------|----------|--------------|--------------|-----------------|--------------|-----------------|------------------|
| X510 | 350 | 6 | 80 | 200 (189) | 360 (341) | - | 820 (793) | - | - |
| X500 | 500 | 8.3 | 60 | 120 (110) | 220 (205) | - | 500 (480) | - | 1000 (987) |
| X600 | 600 | 8.3 | 60 | 120 (110) | 220 (205) | - | 500 (480) | - | 1000 (987) |
| X800 | 800 | 8.3 | 60 | 120 (110) | 220 (205) | - | 500 (480) | - | 1000 (987) |
| X520 | 500 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X620 | 600 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X820 | 800 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X1020 | 980 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X1220 | 1,250 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X1030 | 1,000 | 10.2 | 40 | 80 (70) | 150 (135) | - | 350 (333) | - | 700 (686) |
| X1530 | 1,500 | 10.2 | 40 | 80 (70) | 150 (135) | - | 350 (333) | - | 700 (686) |
| X2050 | 2,000 | 14.3 | 40 / 110 | - | - | 300 (287) | - | - | - |
| X3050 | 3,000 | 14.3 | 40 / 110 | - | - | 300 (287) | - | - | - |
| X500P | 500 | 8.3 | 60 | 120 (110) | 220 (205) | - | 500 (480) | - | 1,000 (987) |
| X520P | 500 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X620P | 600 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X820P | 800 | 9.5 | 50 | 95 (85) | 170 (155) | - | 400 (380) | - | 800 (780) |
| X1030P | 1,000 | 10.2 | 40 | 95 (85) | 170 (155) | - | 350 (333) | - | 700 (686) |
| X2050P | 2,000 | 14.3 | 40 / 110 | - | - | 300 (287) | - | 800 (765) | - |

Excluding Maxiflex wire rope. See page 28 and 29 for wire ropes and other accessories. The Maxiflex wire rope has been developed especially for optimal use guaranteed by Tractel®, in combination with Tirak™ hoists, and can be used under the most extreme circumstances.

If the hoist is used for man-riding, a lifting and safety rope with secondary safety device must be present at all times, in accordance with the Machinery Directive. The extremely reliable Tractel® Blocstop™ can be deployed as a secondary safety device on the safety cable.

TIRAK™ wire rope

MAXIFLEX WIRE ROPE, STANDARD

The Maxiflex wire rope has been developed especially for optimal use guaranteed by Tractel®, in combination with Tirak™ hoists, and can be used under the most extreme circumstances.

Upon request also available on a drum reel and in any required length.

- Developed especially for Tirak™
- Supplied on a transport reel.
- Including certificate
- Standard version with tip and hook
- Hook with safety catch
- Available in any required length



| length (m) | code ø 8.3 | price | code ø 9.5 | price | code ø 10.2 | price | code ø 14.3 |
|------------|------------|--------|------------|--------|-------------|--------|-------------|
| 20 | 490540 | 139.33 | 491520 | 150.56 | 493590 | 183.15 | 496050 |
| 30 | 490600 | 188.76 | 491540 | 203.37 | 493620 | 246.07 | 496060 |
| 40 | 490680 | 237.08 | 491560 | 257.30 | 493650 | 308.99 | 496070 |
| 50 | 490730 | 283.08 | 491590 | 310.11 | 493670 | 371.99 | 496080 |
| 60 | 490760 | 333.71 | 491600 | 361.80 | 493680 | 433.71 | 496090 |
| 70 | 490810 | 383.15 | 491610 | 415.73 | 493700 | 497.75 | 496100 |
| 80 | 490840 | 431.46 | 491640 | 468.54 | 493720 | 559.55 | 496120 |
| 90 | 490880 | 480.90 | 491650 | 519.10 | 493730 | 623.60 | 496130 |
| 100 | 490890 | 528.09 | 491670 | 573.04 | 493750 | 684.27 | 496140 |

MAXIFLEX NON-ROTATING WIRE ROPE

The Maxiflex non-rotating wire rope has been developed especially to prevent non-guided loads from rotating if they are suspended freely in the air. Upon request the non-rotating wire rope will be produced and manufactured especially for you.

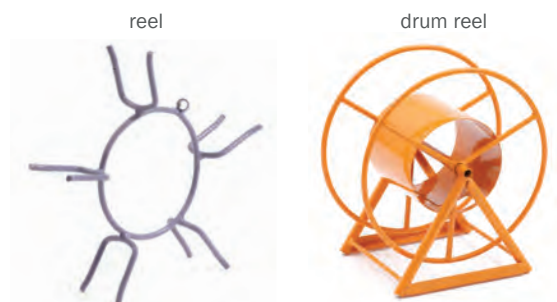
The Maxiflex wire rope is guaranteed by Tractel®, in combination with Tirak™ hoists, and can be used under the most extreme circumstances.

- Non-rotating rope for non-guided loads
- Developed especially for Tirak™
- Including certificate
- Available in any required length
- Standard version with tip and hook
- Hook with safety catch

| length (m) | code ø 8.3 | price | code ø 9.5 | price | code ø 10.2 | price | code ø 14.3 |
|------------|------------|--------|------------|--------|-------------|--------|-------------|
| 50 | 492630 | 538.20 | 498010 | 656.18 | 499070 | 875.28 | |

TIRAK™ accessories

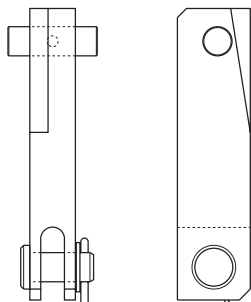
MAXIFLEX WIRE ROPE REELS



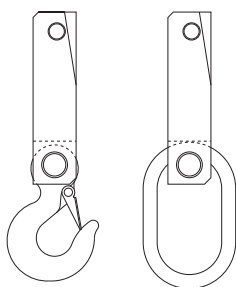
| model | max. wire rope length (m) | | | code |
|---------------|---------------------------|----------------|----------------|--------|
| | C8 ø 8.3 (m) | C12 ø 11.5 (m) | C16 ø 16.3 (m) | |
| reel No. 0 | max. 25 | | | 463110 |
| reel No. 1 | 26 - 50 | max. 25 | | 463120 |
| reel No. 2 | 51 - 75 | 26 - 50 | max. 25 | 463140 |
| reel No. 3 | 75 - 100 | 51 - 75 | 26 - 50 | 463130 |
| drum reel 200 | 76 - 150 | 51 - 75 | 26 - 50 | 000878 |
| drum reel 300 | 151 - 200 | 76 - 150 | 51 - 75 | 000868 |
| drum reel 400 | 201 - 300 | max. 200 | max. 100 | 000858 |

SUSPENSION ADAPTERS FOR TIRAK™ HOISTS

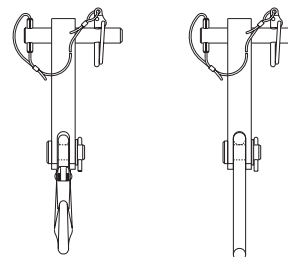
type A suspension adapter



type B suspension adapter



type C suspension adapter



| model | description | for | code |
|-------|--|------------|--------|
| A | suspension adapter | X300-X1530 | 048657 |
| B | suspension adapter with hook | X300-X1530 | 048727 |
| B | suspension adapter with eye | X300-X1530 | 048717 |
| C | suspension adapter with removable hook | X300 | 180157 |
| C | suspension adapter with removable eye | X300 | 180167 |
| C | suspension adapter with removable hook | X500-X1530 | 058527 |
| C | suspension adapter with removable eye | X500-X1530 | 058537 |

AIR PREPARATION UNIT FOR TIRAK™ XA HOISTS



| description | code |
|--|--------|
| air preparation unit for 1 XA series hoist | 008368 |
| air preparation unit for 2 XA series hoist | 008378 |