



# HyperTEN – made with STS- Stronger Than Steel<sup>®</sup> technology

**Our extremely stable high strength fiber rope HyperTEN is made of UHMWPE fibers, thermally pre-stretched and optionally available with PES (HyperTEN-Pro P) or UHMWPE (HyperTEN-Pro U) cover.**

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## Your benefits

- ✓ 7 times less weight than comparable steel wire ropes
- ✓ Extremely high breaking force - higher than that of most steel wire ropes of the same diameter available in the market
- ✓ No corrosion and/or soiling caused by rope grease
- ✓ Reduced danger of injury, easy and quick handling
- ✓ Flexible design
- ✓ Extremely high abrasion resistance due to smooth surface, especially when provided with a cover
- ✓ Very high reverse bending fatigue strength and extremely long service life
- ✓ The kinetic energy released on rope damage is considerably lower than in case of steel wire ropes
- ✓ Very low initial and working stretch (already eliminated during production)
- ✓ The extremely firm and circular cross-section ensures the smooth running behavior

## Applications and fields of use

Wherever highest breaking forces combined with lowest weight and minimal stretch are required (especially for replacing steel wire ropes of the same dimension without the need for converting the equipment), for example for:

- In vehicle winches for off-road, maintenance, recovery and military vehicles
- Overhead line construction
- Motor winches
- High performance ropes for camera systems
- Mounting ropes
- Installation ropes for ropeways
- and much more

## The STS-Stronger Than Steel® technology

When looking for a particularly high performing rope, one will automatically think of steel wire ropes. But now we have STS-Stronger Than Steel®. Engineered by TEUFELBERGER's development team, this fiber rope, by its very nature, is not only considerably lighter than a steel rope, but also

takes performance to a higher level. This has become possible thanks to its combination of high tech fibers, its optimized rope design, and an unprecedented stretching process that changes the rope's structure in a way that makes it ideally suited for most industrial applications.

HyperTEN		HyperTEN Pro (P = PES, U = UHMWPE)					HyperTEN / HyperTEN Pro
Rope Ø	Weight	Core Ø Pro-P / Pro-U	Rope Ø Pro-P	Weight Pro-P	Rope Ø Pro-U	Weight Pro-U	MBL*
mm	g/m	mm	mm	g/m	mm	g/m	kN
3	9	3	5	20	5	15	21
5	19	5	7	42	7	31	40
6	26	6	8	57	8	44	50
7	36	7	9	77	9	58	70
8	49	8	10	98	10	72	90
9	60	9	11	109	11	84	94
10	64	10	12	127	12	96	115
11	76	11	13	165	13	124	135
12	100	12	15	204	15	151	180
14	125	14	17	250	17	188	235
15	146	15	18	286	18	212	250
16	156	16	20	300	20	224	280
18	199	18	23	410	23	301	355
20	209	20	25	445	25	331	440
22	260	22	28	495	28	370	505
24	329	24	30	635	30	470	550
26	366	26	32	790	32	587	610
28	425	28	34	878	34	670	700
30	488	30	36	990	36	756	800
32	555	32	39	1.105	39	846	900
34	626	34	41	1.230	41	939	1.010

\* minimum breaking load of spliced rope

### WARNING

Using these products may be dangerous. Only use our products for the purposes they are intended for. Customers must ensure that the persons using these products are familiar with their correct use and the necessary safety precautions. Please bear in mind that any of these products may cause damage or harm when used improperly or subjected to excessive loads. STS-Stronger Than Steel®, TEUFELBERGER® and 拖飞宝® are internationally registered trademarks of TEUFELBERGER Group.

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