

High Performance Ropes for the elevator industry

CompactTrac PowerTrac TopTrac Hytrac

Product info

The continuing technical progress in the elevator industry, which includes larger and faster installations in conjunction with smaller sheaves, has markedly raised the demands on hoist ropes. Gustav Wolf has already acted on this trend by developing new ropes in diameters of less than 8mm. Gustav Wolf has taken an additional step by introducing a new generation of elevator ropes which are designed to meet the increasing demands of existing and new installations for diameters larger than equal to 8mm.

The result is our newly-designed **CompactTrac** and **PowerTrac** product - both with compacted strands. CompactTrac and PowerTrac feature:

Increased service life; Through greater bending resistance

Higher wear resistance; the larger surface area of the outer strands leads to better seat in the groove of the traction sheave resulting in a reduction of the concentrated (point) load on the elevator ropes. The surface pressure is more evenly distributed over the ropes resulting in

Reduction elongation; through the higher metallic cross-section the elongation properties of the ropes are considerably improved which reduces labor required for rope shortenings.

Smaller diameters; with their higher breaking loads it may be possible to achieve cost savings on new installations through the use of smaller diameter ropes.

Thanks to a longer service life as well as ease of maintenance, Gustav Wolf succeeded in developing a new generation of elevator ropes. They will be the perfect match for the future technical and commercial demands of elevator technology.

Our top of the line product **TopTrac** incorporates a high metallic cross-section and superior bending resistance. TopTrac features:
 9 outer strands to reduce the bending pressure on individual wires = **highest service life**
 Increase in the fill factor due to the double parallel lay = **transfer of higher tensile forces.**

HyTrac

The new Hybrid rope

8 x 19 W-SFC

In comparison to steel core ropes the same breaking load but 20% less weight.

SFC = 15 times stronger than steel

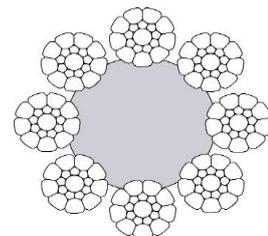
Technical data CompactTrac

Technical specification:	DIN EN 12385, ISO 4344
Material:	GW-Steel wire, DIN EN 10264, bright
Tensile grade of internal wires	1170 N/mm ²
Tensile grade of external wires	1180 N/mm ²

rope- ϕ (permissible tolerance)

no load:	with load (10% of Fmin)
max. 6% < 10 mm	min. 0% <= 10 mm
max. 5% > 10 mm	min. 0% > 10 mm

rope diameter (mm)	calculated (kg/m)	min. breaking load (kN)
8	0,200	29,4
9,5	0,320	41,8
12,7	0,580	75,8
16	0,920	119,8



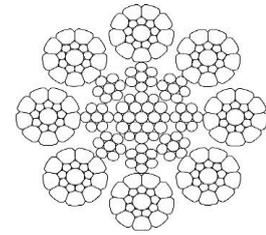
Technical data PowerTrac

Technical specification: DIN EN 12385, ISO 4344
 Material: GW-Steel wire, DIN EN 10264, bright or galvanized
 Tensile grade of internal wires 1570 N/mm²
 Tensilegrade of external wires DIN EN 10264, ISO 4101

rope-ø (permissible tolerance)

no load:	with load (10% of Fmin)
max. 3% < 10 mm	min. -1% ≤ 10 mm
max. 2% > 10 mm	min. -1% > 10 mm

rope diamter (mm)	calculated (kg/m)	min. breaking load (kN)
8	0,270	45,4
10	0,430	71,8
13	0,730	121,6
16	1,110	183,2

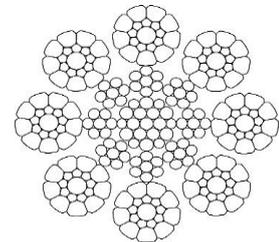
**Technical data TopTrac**

Technical specification: DIN EN 12385, ISO 4344
 Material: GW-Steel wire, DIN EN 10264, bright or galvanized
 Tensile grade of internal wires 1570 N/mm²
 Tensilegrade of external wires DIN EN 10264, ISO 4101

rope-ø (permissible tolerance)

no load:	with load (10% of Fmin)
max. 3% < 10 mm	min. -1% ≤ 10 mm
max. 2% > 10 mm	min. -1% > 10 mm

rope diamter (mm)	calculated (kg/m)	min. breaking load (kN)
8	0,280	46,6
10	0,420	71,9
13	0,730	123,4
16	1,110	186,2

**Technical data HyTrac**

Technical specification: DIN EN 12385, ISO 4344
 Material: GW-Steel wire, DIN EN 10264, bright or galvanized
 Tensile grade of internal wires 1570 N/mm²
 Tensilegrade of external wires DIN EN 10264, ISO 4101

rope-ø (permissible tolerance)

no load:	with load (10% of Fmin)
max. 3% < 10 mm	min. -1% ≤ 10 mm
max. 2% > 10 mm	min. -1% > 10 mm

rope diamter (mm)	calculated (kg/m)	min. breaking load (kN)
8	0,220	43,0
13	0,570	111,0

