The new Tirak X-300P and X-500P hoists compliment the standard T-500P and T-1000P units, which are designed for man-riding applications.

Lighter than the T-series, the X-series are most suited for bosun's chairs, inspection harnesses, one-man cradles and light suspended platforms.

The wire rope passes around a single drive pulley. The gripping of the wire rope around the pulley is achieved by a set of rollers, operated by a compression spring (see the drawing opposite).

			motor			wire	weight	dimensions					
	cap. for manriding 1	speed	type 2	cap.	operating factor	rope Ø 3	of unit	overal			Tirak mechanism		
								a	b	c	d	e	f
modèle	lbs. (daN/kg)	ft./mn (m/mn)	– –	kW	%	in. (mm)	lbs. (kg)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)	in. (mm)
X-300P	661 (300)	27.9 (8.5)	T	0.45	100	5/16 (8)	55 (25)	15 3/4 (400)	20 27/32 (250)	8 25/64 (213)	11 7/32 (285)	9 27/32 (250)	2 23/64 (60)
X-302P		58.8 (17)	T	0.9		5/16 (8)	55 (25)						
X-301P		27.9 (8.5)	M	0.45		5/6 (8)	57 (26)	16 15/16 (430)					
XA-300P	661 (300)	13 – 30 (4 – 9)	A	–	100	5/16 (8)	44 (20)	13 25/32 (350)	11 13/16 (300)	8 25/64 (213)	11 7/32 (285)	9 27/32 (250)	2 23/64 (60)
X-500P	1,102 (500)	30 (9)	T	0.9	100	5/16 (8)	89 (39)	19 3/32 (485)	11 11/16 (297)	9 27/32 (250)	14 9/16 (370)	11 11/16 (297)	2 23/64 (60)
X-502P		59 (18)	T	1.8		5/16 (8)	89 (39)	19 1/2 (495)					
X-501P		30 (9)	M	0.9		5/16 (8)	95 (43)	20 15/32 (520)					
X-520P		30 (9)	T	0.9		23/64 (9)	89 (39)	19 3/32 (485)					
X-522P		59 (18)	T	1.8		23/64 (9)	89 (39)	19 1/2 (495)					
X-521P		30 (9)	M	0.9		23/64 (9)	89 (43)	20 15/32 (520)					
XA-500P	1,102 (500)	13 – 30 (4 – 9)	A	–	100	5/16 (8)	77 (35)	15 3/4 (400)	11 11/16 (297)	9 27/32 (250)	14 9/16 (370)	11 11/16 (297)	2 23/64 (60)

1) The capacities indicated for manriding are calculated on the effective breaking strength of the wire rope (safety factor of 6). For countries which require higher safety standards, the manriding capacity should be calculated on this basis, with the knowledge that the effective breaking stregth is 4,800 kg for the Ø 8 mm and 6,800 kg for the Ø 9 mm wire rope.

2) T = 3-phase 220/380 V, 50 Hz, 1,500 rpm (9 m/mn) or 3,000 rpm (18 m/mn).
M = Single phase 220 V, 50 Hz, 1,500 rpm. Other voltages are available.
A = pneumatic motor, 6 bar air pressure. Air consumption: 0.75 m³/mn (XA-300P) and 1.5 m³/mn (XA-500P).

3) Effective breaking strain:
for Ø 8 mm wire rope = 4,800 kg;
for Ø 9 mm wire rope = 6,800 kg.

Tractel Group