Planetary Crane Winches

FD SERIES

Specially designed for applications where space is at a premium, these compact and lightweight lifting winches are ideally suited for installation on cranes, davits and derricks. The single drum support enables the rope to leave the drum at any angle. The heavy duty planetary drive is partly located within and protected by the drum core. The large drum diameters ensure a healthy drum to cable diameter ratio and a sufficient working length despite the short drums.

Standard features:

- Heavy duty planetary gearbox
- FD E; IP 54 aluminium braked motor 400 VAC / 3 phase / 50 Hz.
- FD H; orbit or radial piston type hydraulic motor complete with brake valve
- FD LPR; radial piston type air motor complete with hand control valve and mufflers
- Steel drum with cable fixing point at flange
- Single drum support
- Single layer 1 component conservation, colour BS 20 (Medium Blue)

Available options:

- IP 56 TENV cast iron motor for marine applications
- Explosion proof motors
- Protective steel motor cover
- Drum pressure roller
- Alternative speeds
- Alternative supply voltages
- Drum guards
- Marine / offshore coating systems

Available control options:

- Control box IP 55 with pushbuttons and emergency stop built acc. to NEN 1010
- Control box IP 55 with low voltage IP 65 remote control built acc. to NEN 1010
- Load limiter (required by CE for applications exceeding 1000 kg W.L.L.)
- Frequency inverter for variable speed control
- Limit switches
- Slack wire switches
- Radio / Infra red remote control

Winch type	W.L.L. 1st layer kg.	W.L.L. top layer kg.	Recomm. rope diam. mm.	Speed 1st layer m/min.	Speed top layer m/min.	Drumcap. 1st layer m.	Drumcap. all layers m.	Motor power 400 VAC kW
FD 300 E	950	800/4	8	15	18	17	70/4	2,2
FD 301 E	1850	1500/4	11	15	19	12	53/4	4
FD 303 E	2300	2000/3	12	12	14	14	43/3	4
FD 305 E	3350	2800/3	14	14	17	13	42/3	7,5
FD 306 E	4100	3500/3	16	11	13	18	59/3	7,5
FD 307 E	5250	4500/3	18	15	18	19	60/3	11

Winch type	W.L.L. 1st layer kg.	W.L.L. top layer kg.	Recomm. rope diam. mm.	Speed 1st layer m/min.	Speed top layer m/min.	Drumcap. 1st layer m.	Drumcap. all layers m.	Pressure drop in bar	Flow in l/min.
FD 300 H	950	800/4	8	20	24	17	70/4	130	65
FD 301 H	1850	1500/4	11	15	19	12	53/4	120	70
FD 303 H	2300	2000/3	12	12	14	14	43/3	135	52
FD 305 H	3350	2800/3	14	14	17	13	42/3	140	50
FD 306 H	4100	3500/3	16	11	13	18	59/3	130	70
FD 307 H	5250	4500/3	18	15	18	19	60/3	140	70

EMCÉ

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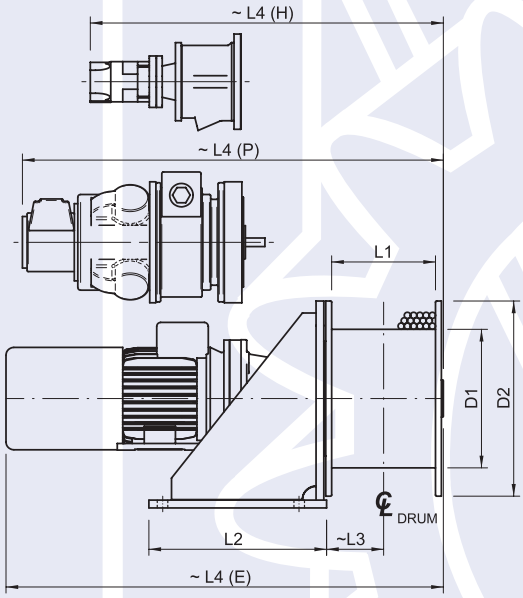
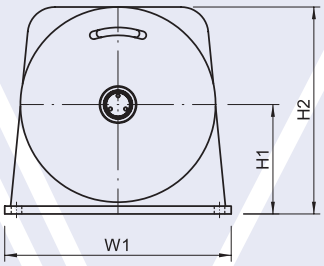
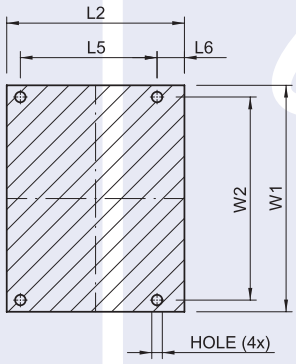
Winch type	W.L.L. 1st layer kg.	W.L.L. top layer kg.	Recomm. rope diam. mm.	Speed 1st layer m/min.	Speed 3rd layer m/min.	Drumcap. 1st layer m.	Drumcap. all layers kW	Pressure drop bar	Flow in l/sec.
FD 300 LPR1	800	675/4	8	8	10	17	70/4	7	30
FD 300 LPR2	950	800/4	8	18	20	17	70/4	7	85
FD 301 LPR2	1850	1500/4	11	9	11	12	53/4	7	85
FD 303 LPR2	2300	2000/3	12	7	8	14	43/3	7	90
FD 303 LPR3	2300	2000/3	12	15	18	14	43/3	7	140
FD 305 LPR3	3350	2800/3	14	12	14	13	42/3	7	150
FD 306 LPR4	4100	3500/3	16	15	18	18	59/3	7	225
FD 307 LPR4	5250	4500/3	18	13	15	19	60/3	7	240







FOOTPRINT
- TOP VIEW -

Type	Mass (kg)	D1	D2	L1	L2	L3	L4(E)	L4(H)	L4(P)	L5	L6	H1	H2	W1	W2	Hole Ø
300	120	244	380	176	310	93	774	548,5	742	240	44	215	405	440	400	18
301	140	244	380	176	310	93	832	557,5	765	240	44	215	405	440	400	18
303	200	272	410	191	350	107,5	894	623	928	275	50	235	440	500	450	22
305	240	272	410	210	350	116	1064	669	1054	275	50	235	440	500	450	22
306	370	355	500	266	455	146	1120	831	1110	350	70	280	530	580	520	27
307	590	406	625	270	510	150	1332	922	1258	400	75	355	668	750	680	27