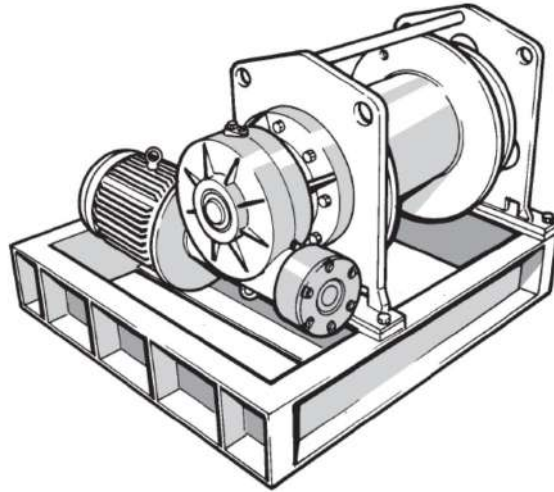


TAKE-UP WINCHES MK2



**New Design
Easier Maintenance
Lower Cost – Less Downtime**

GENERAL INFORMATION

The DYMOT range of power take-up winches have been specially developed for use on long overland and underground conveyors and are ideally suited for use with automatic tensioning systems. The unique design, using a combination of worm and epicyclic gears offer numerous advantages over the conventional designs.

The new design uses a failsafe disc brake with IP65 protection; this overcomes the problem previously encountered with rust which resulted in high maintenance and brake failure.

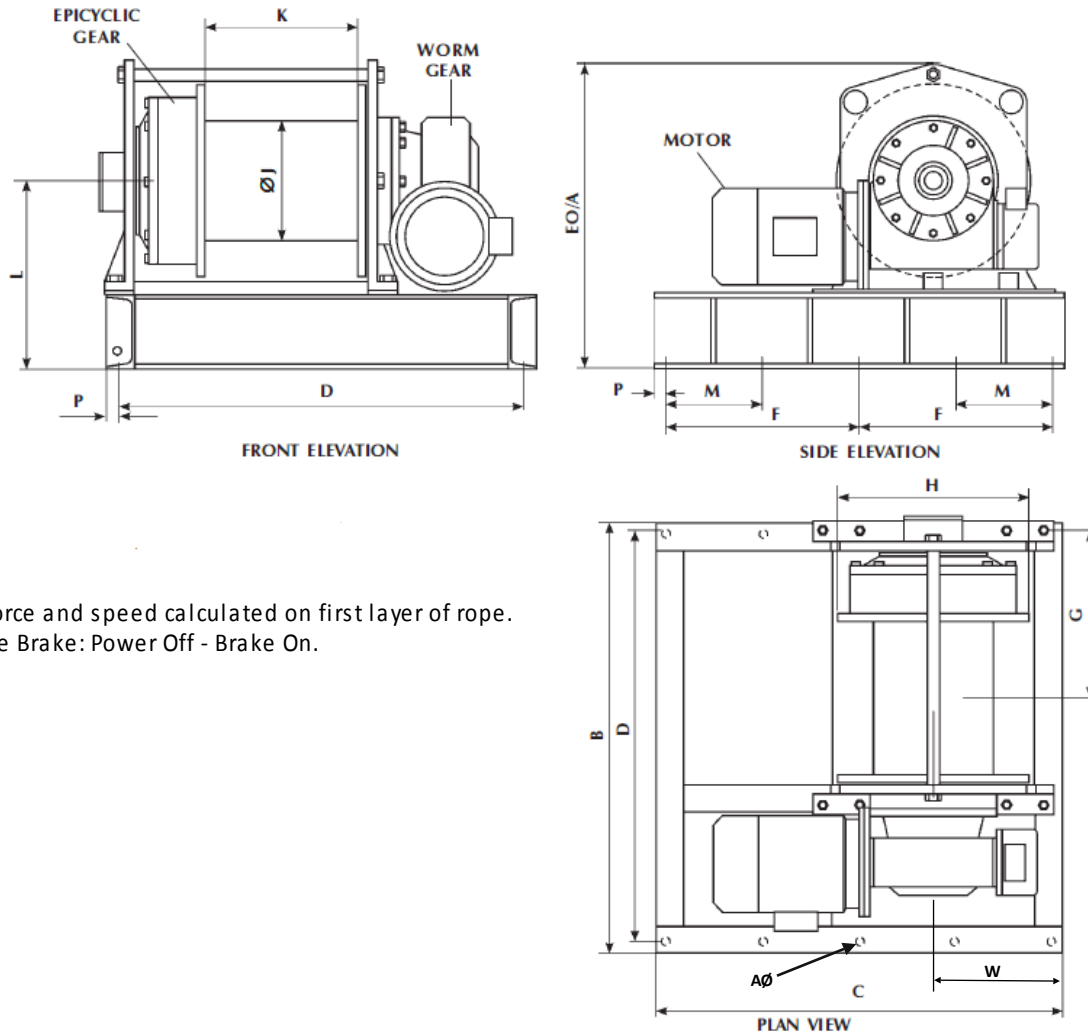
This design has also eliminated the need for a brake drum type coupling through the use of a double input shaft primary gearbox.

FEATURES

- The combination of gears provides for greater mechanical protection due to the use of high ratio worm gears which will help to resist runaways in the event of a brake failure.
- The use of a separate motor and brake allows the winch to remain locked in position while a failed motor is repaired.
- The epicyclic final gear presents a massive face width of gear tooth to withstand the shock loads which can be encountered during belt start-up.
- The design and style of these winches are very compact, thus allowing easy positioning of the winch in the conveyor structure.
- The take-up winch speeds can be varied to suit customer's requirements by simply changing the worm gear ratios.



TAKE-UP WINCHES MK2



NOTE:

1. Rope force and speed calculated on first layer of rope.
2. Failsafe Brake: Power Off - Brake On.

TYPE / MODEL	ITEM NR	MOTOR	TEST LOAD LAYER 1	SWL TOP LAYER	ROPE SPEED LAYER 1	ROPE Ø	DRUM CAPACITY	WORKING LENGTH	MASS
1	4635	3kW - 4P	1.8 Ton	1.4 Ton	7.2 m/min	13 mm	160 m	112 m	476 kg
2	4500	4kW - 4P	2.5 Ton	2.2 Ton	5.8 m/min	13 mm	130 m	91 m	593 kg
3	4502	5,5kW - 4P	3.5 Ton	3.0 Ton	6.4 m/min	16 mm	90 m	63 m	721 kg
4	4462	7,5kW - 4P	5.5 Ton	4.5 Ton	5.4 m/min	20 mm	120 m	84 m	780 kg
5	4519	11kW - 4P	6.5 Ton	5.5 Ton	7.2 m/min	22 mm	190 m	133 m	1280 kg
6	4520	15kW - 4P	8.5 Ton	8.0 Ton	6.0 m/min	26 mm	130 m	91 m	1337 kg
7	4629	18.5kW - 4P	11.5 Ton	10.7 Ton	6.5 m/min	28 mm	180 m	126 m	1703kg
8	4387	22kW - 6P	15.0 Ton	12.8 Ton	6.0 m/min	32 mm	110 m	110 m	2535 kg

TYPE / MODEL	A Ø	B	C	D	E O/A	F	G	H	J Ø	K	L	M	P	W
1	22	973	850	923	580	400	408	460	260	400	360	.	25	250
2	22	940	800	880	740	315	395	460	260	300	510	.	30	250
3	22	1000	1000	940	752	470	395	460	290	305	522	.	30	250
4	22	1160	1100	1100	769	520	445	530	318	400	504	260	30	325
5	26	1440	1400	1370	993	650	621	640	400	600	634	150	35	350
6	26	1440	1400	1370	993	650	621	640	400	600	634	150	35	350
7	26	1661	1685	1591	1250	780	664	840	550	700	775	.	35	443
8	33	1695	1740	1625	1195	835	685	840	550	700	777	300	35	441