



P M T

HOIST DRIVE GEARMOTORS

3,2 TO 40 TONS

High performance at the right cost

PMT

THE FEATURES

PMT Hoist gear motors are available in a very wide range of configurations.

They consist in a combination of parallel shaft gear motor plus a reliable brake motor ready to be assembled to your hoist drum with a very fast and cost effective procedure.

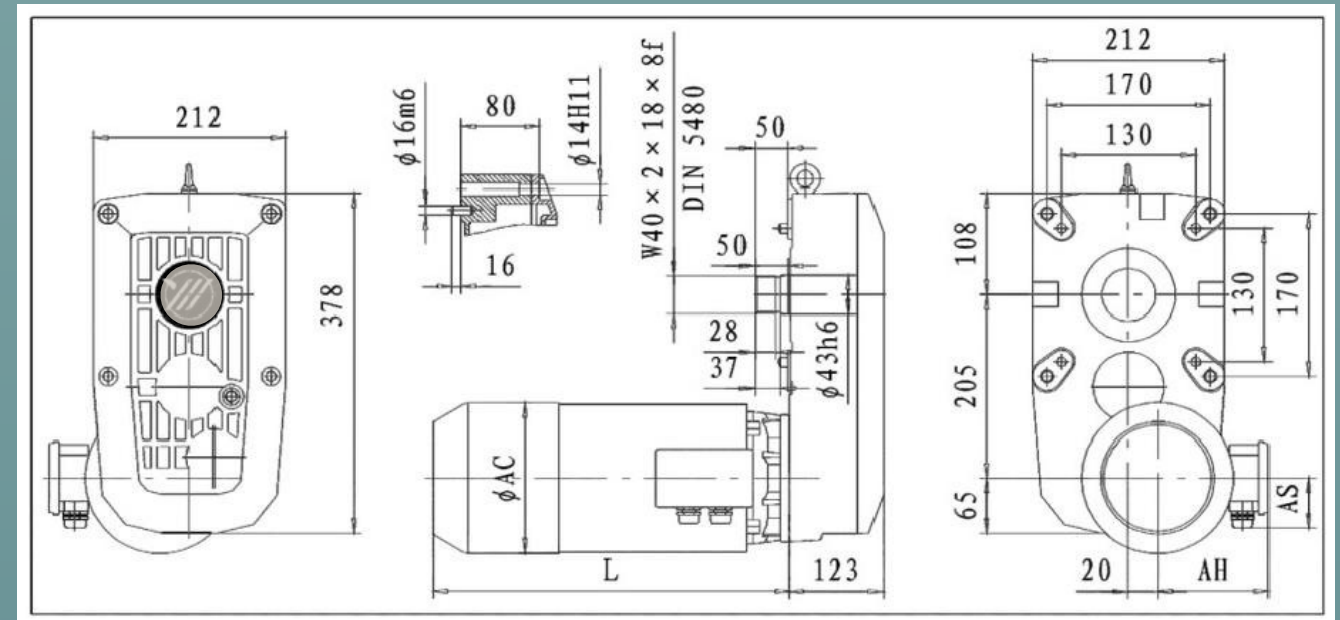
Motors can be 2 speeds or single speed for inverter duty.

PMT Gear motors have the following outstanding features:

- Optimized electromagnetic design, low starting current and high maximum torque
- Built-in thermistor or thermal switch for protection
- DC brake
- Protection level IP55

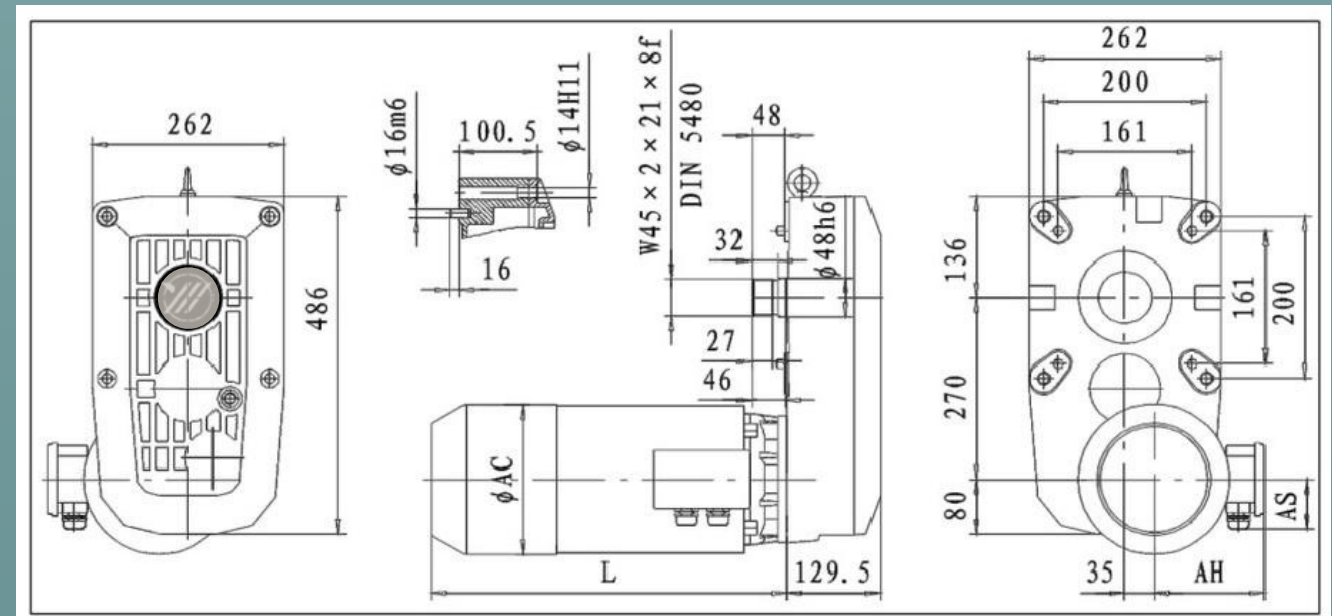


Lifting weight	Up to 3.2 tons
Lifting speed	4/5/6.3/8m/min (4/1 pulley ratio)
Drum diameter	140mm
Motor power	P=0.37/2.5-0.6/4.0kW (12/2-pole) or P=2.5-4.0 kW (4-pole@100Hz)
Output shaft DIN 5480	W40×2×18×8f



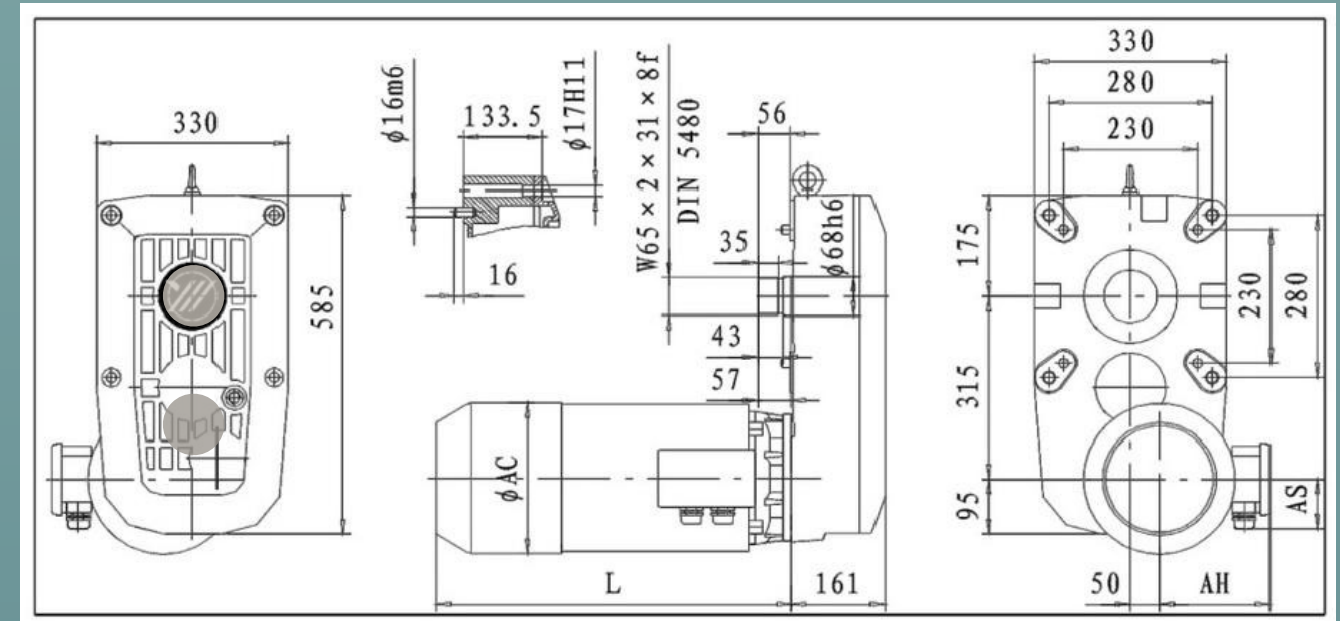
No.	Load (t)	ISO	FEM	Speed (m/min)	Power (kW)	Frequency (Hz)	Ratio 0	Braking Torque (N.m)	Type	Motor Size (mm)
1	3.2 2.5 2	M5 M6 M7	2m 3m 4m	0.66/4.0 (0.8/4.8)	0.37/2.5 (0.44/3.0)	50 (60)	78.63	28	205.1YHC 100L1-12/2/B40	AC:196 L:367 AS:90 AH:175
2	3.2 2.5 2	M5 M6 M7	2m 3m 4m	0.8/5.0 (1.0/6.0)	0.45/3.2 (0.54/3.8)	50 (60)	62.59	28	205.2YHC 100L2-12/2/B40	AC:196 L:367 AS:90 AH:175
3	3.2 2.5 2	M5 M6 M7	2m 3m 4m	1.0/6.3 (1.2/7.6)	0.6/4.0 (0.72/4.8)	50 (60)	49.46	40	205.3YHC 100L3-12/2/B40	AC:196 L:387 AS:90 AH:175
4	2.5 2 1.6	M5 M6 M7	2m 3m 4m	1.3/8.0 (1.6/9.6)	0.6/4.0 (0.72/4.8)	50 (60)	39.37	40	205.4/YHC 100L3-12/2/B40	AC:196 L:387 AS:90 AH:175

Lifting weight	Up to 6.8 tons
Lifting speed	4/5/6.3/8m/min (4/1 pulley ratio)
Drum diameter	170mm
Motor power	P=0.8/4.9-1.6/9.8kW (12/2-pole) or P=4.9-9.5kW (4-pole @ 100Hz)
Output shaft DIN 5480	W45×2×21×8f



No.	Load (t)	ISO	FEM	Speed (m/min)	Power (kW)	Frequency (Hz)	Ratio 0	Braking Torque (N.m)	Type	Motor Size (mm)
1	6.8	M5	2m	0.66/4.0 (0.8/4.8)	0.8/4.9 (1.0/5.9)	50 (60)	91.2	45	270.1/YHC 112M1-12/2/B60	AC:221 L:490 AS:90 AH:175
2	6.8	M5	2m	0.8/5.0 (1.0/6.0)	1.0/6.1 (1.2/7.3)	50 (60)	74.8	60	270.2/YHC 112M2-12/2/B60	AC:221 L:520 AS:90 AH:175
3	6.8	M5	1Am	1.0/6.3 (1.2/7.6)	1.3/7.7 (1.5/9.3)	50 (60)	59.9	80	270.3/YHC 132L1-12/2/B100	AC:260 L:620 AS:90 AH:195
4	6.8	M5	1Am	1.3/8.0 (1.6/9.6)	1.5/9.5 (1.8/11.4)	50 (60)	49.1	100	270.4/YHC 132L2-12/2/B100	AC:260 L:620 AS:90 AH:195

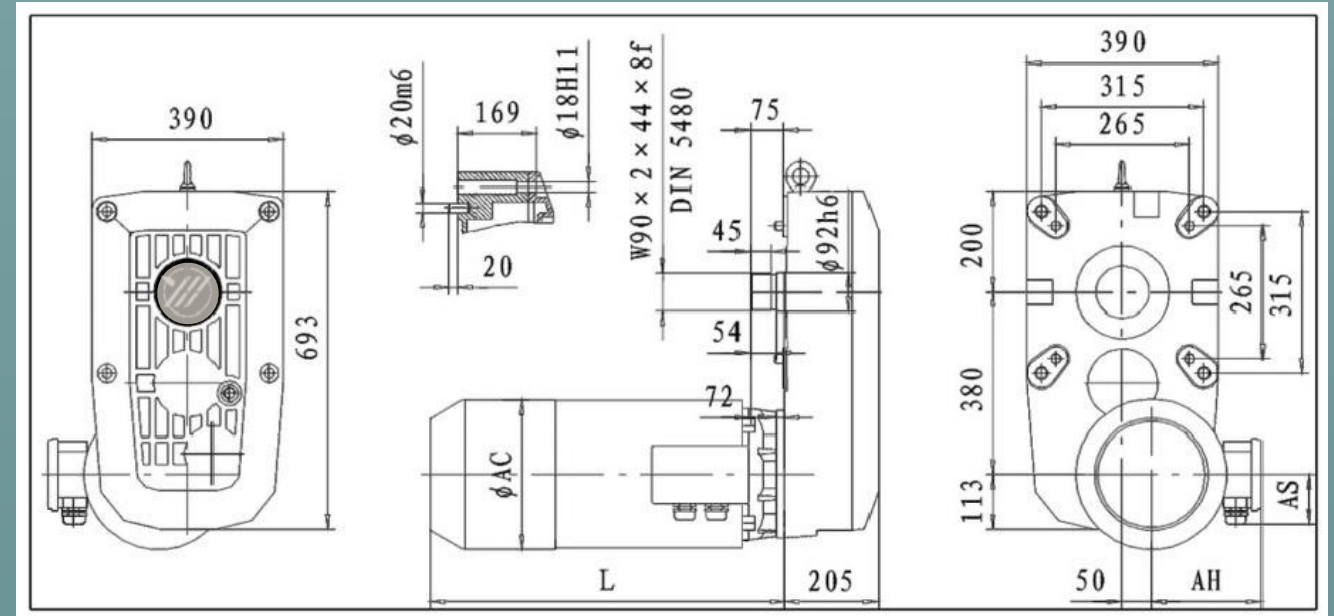
Lifting weight	Up to 12,5 tons
Lifting speed	4/5/6.3/8m/min (4/1 pulley ratio)
Drum diameter	266mm
Motor power	P = 1.2/7.6-2.0/12.5kW (12/2-pole) or P = 7.6-12.5kW (4-pole @ 100Hz)
Output shaft DIN 5480	W65×2×31×8f



No.	Load (t)	ISO	FEM	Speed (m/min)	Power (kW)	Frequency (Hz)	Ratio 0	Braking Torque (N.m)	Type	Motor Size (mm)
1	10 8 6.3	M5 M6 M7	2m 3m 4m	0.66/4.0 (0.8/4.8)	1.3/7.7 (1.56/9.3)	50 (60)	152.9	80	315.1/YHC 132L1-12/2/B100	AC: 260 L: 585
2	10 8 6.3	M5 M6 M7	2m 3m 4m	0.8/5.0 (1.0/6.0)	1.5/9.5 (1.8/11.4)	50 (60)	118.5	100	315.2/YHC 132L2-12/2/B100	AC: 260 L: 610
3	8 6.3 5	M5 M6 M7	2m 3m 4m	1.0/6.3 (1.2/7.6)	1.5/9.5 (1.8/11.4)	50 (60)	93.9	100	315.3/YHC 132L2-12/2/B100	AC: 260 L: 610
4	6.3 5 4	M5 M6 M7	2m 3m 4m	1.3/8.0 (1.6/9.6)	1.5/9.5 (1.8/11.4)	50 (60)	73.6	100	315.4/YHC 132L2-12/2/B100	AC: 260 L: 610
5	12.5 10 8	M5 M6 M7	2m 3m 4m	0.66/4.0 (0.8/4.8)	1.5/9.5 (1.8/11.4)	50 (60)	152.9	100	315.1/YHC 132L2-12/2/B100	AC: 260 L: 610
6	12.5 10 8	M4 M5 M6	1Am 2m 3m	0.8/5.0 (1.0/6.0)	2.0/12.5 (2.4/15.0)	50 (60)	118.5	100	315.2/YHC 132L3-12/2/B100	AC: 260 L: 640
7	10 8 6.3	M4 M5 M6	1Am 2m 3m	1.0/6.3 (1.2/7.6)	2.0/12.5 (2.4/15.0)	50 (60)	93.9	100	315.3/YHC 132L3-12/2/B100	AC: 260 L: 640
8	8 6.3 5	M4 M5 M6	1Am 2m 3m	1.3/8.0 (1.6/9.6)	2.0/12.5 (2.4/15.0)	50 (60)	73.6	100	315.4/YHC 132L3-12/2/B100	AC: 260 L: 640

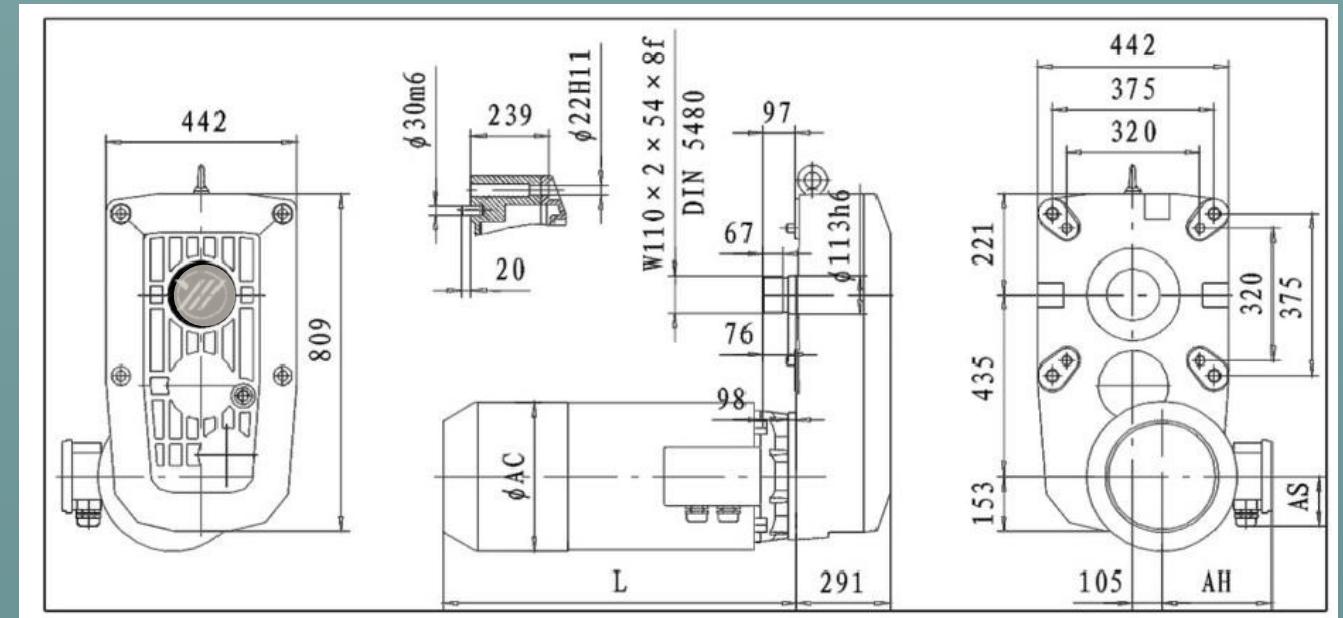
No .	Load (t)	ISO	FEM	Speed (m/min)	Power (kW)	Frequen cy (Hz)	Ratio θ	Braking Torque (N.m)	Type	Motor Size (mm)
1	16 12.5 10 8	M5 M6 M7	2m 3m 4m 4m	0.66/4.0 (0.8/4.8)	2.0/12.5 (2.4/15.0)	50 (60)	169	100	365.1/YHC 132L3-12/2/B100	AC:260 L:610 AS:90 AH:190
2	20 16 12.5 10	M4 M5 M6 M7	1Am 2m 3m 4m	0.66/4.0 (0.8/4.8)	2.6/16.0 (3.1/19.2)	50 (60)	169	150	365.1/YHC 160L1-12/2/B150	AC:313 L:695 AS:100 AH:200
3	16 12.5 10 8	M4 M5 M6 M7	1Am 2m 3m 4m	0.8/5.0 (1.0/6.0)	2.6/16.0 (3.1/19.2)	50 (60)	132.9	150	365.2/YHC 160L1-12/2/B150	AC:313 L:695 AS:100 AH:200
4	12.5 10 6.3	M4 M5 M6 M7	1Am 2m 3m 4m	1.0/6.3 (1.2/7.6)	2.6/16.0 (3.1/19.2)	50 (60)	109.3	150	365.3/YHC 160L1-12/2/B150	AC:313 L:695 AS:100 AH:200
5	10 8 6.3 5	M4 M5 M6 M7	1Am 2m 3m 4m	1.3/8.0 (1.6/9.6)	2.6/16.0 (3.1/19.2)	50 (60)	85.1	150	365.4/YHC 160L1-12/2/B150	AC:313 L:695 AS:100 AH:200

Lifting weight	Up to 25 tons
Lifting speed	4/5/6.3/8m/min (4/1 pulley ratio)
Drum diameter	325mm
Motor power	P=2.0/12.5-2.6/16.0kW (12/2-pole) or P=12.5-16.0kW (4-pole @ 100Hz)
Output shaft DIN 5480	W90×2×44×8f



No.	Load (t)	ISO	FEM	Speed (m/min)	Power (kW)	Frequency (Hz)	Ratio 0	Braking Torque (N.m)	Type	Motor Size (mm)
1	20 16 12.5	M4 M5 M6	1Am 2m 3m	0.53/3.4 (0.63/4.1)	2.0/12.5 (2.4/15.0)	50 (60)	216.6	100	380.1/YHC 132L3-12/2/B100	AC: 260 L: 610
2	16 12.5 10	M4 M5 M6	1Am 2m 3m	0.65/4.23 (0.8/5.1)	2.0/12.5 (2.4/15.0)	50 (60)	174.9	100	380.2/YHC 132L3-12/2/B100	AC: 260 L: 610
3	12.5 10 8	M4 M5 M6	1Am 2m 3m	0.83/5.35 (1.03/6.4)	2.0/12.5 (2.4/15.0)	50 (60)	138.5	100	380.3/YHC 132L3-12/2/B100	AC: 260 L: 610
4	10 8 6.3	M4 M5 M6	1Am 2m 3m	1.03/6.7 (1.24/8.1)	2.0/12.5 (2.4/15.0)	50 (60)	110.7	100	380.4/YHC 132L3-12/2/B100	AC: 260 L: 610
5	25 20 16	M4 M5 M6	1Am 2m 3m	0.53/3.4 (0.63/4.1)	2.6/16.0 (3.2/19.2)	50 (60)	216.6	150	380.1/YHC 160L1-12/2/B100	AC: 313 L: 695
6	20 16 12.5	M4 M5 M6	1Am 2m 3m	0.65/4.23 (0.8/5.1)	2.6/16.0 (3.2/19.2)	50 (60)	174.9	150	380.2/YHC 160L1-12/2/B100	AC: 313 L: 695
7	16 12.5 10	M4 M5 M6	1Am 2m 3m	0.83/5.35 (1.03/6.4)	2.6/16.0 (3.2/19.2)	50 (60)	138.5	150	380.3/YHC 160L1-12/2/B100	AC: 313 L: 695
8	12.5 10 8	M4 M5 M6	1Am 2m 3m	1.03/6.7 (1.24/8.1)	2.6/16.0 (3.2/19.2)	50 (60)	110.7	150	380.4/YHC 160L1-12/2/B100	AC: 313 L: 695

Lifting weight	Up to 40 tons
Lifting speed	2.6/3.3/4.2m/min (6/1 pulley ratio)
Drum diameter	405mm
Motor power	P=5.0/20.0kW (8/2-pole) or P=38kW (4-pole @ 75Hz)
Output shaft DIN 5480	W110×2×54×8f



No.	Load (t)	ISO	FEM	Speed (m/min)	Power (kW)	Frequency (Hz)	Ratio θ	Braking Torque (N.m)	Type	Motor Size (mm)
1	40 32 25 20	M5 M6 M7 M7	2m 3m 4m 4m	0.6/2.6 (0.8/3.2)	5/20 (6/24.2)	50 (60)	232	150	435.1/YHC 160L2-8/2/B150	AC:320 L:765 AS:90 AH:250
2	32 25 20 16	M5 M6 M7 M7	2m 3m 4m 4m	0.8/3.3 (1.0/4.0)	5/20 (6/24.2)	50 (60)	182.6	150	435.2/YHC 160L2-8/2/B150	AC:320 L:765 AS:90 AH:250
3	25 20 16 12.5	M5 M6 M7 M7	2m 3m 4m 4m	1.0/4.2 (1.3/5.1)	5/20 (6/24.2)	50 (60)	144	150	435.3/YHC 160L2-8/2/B150	AC:320 L:765 AS:90 AH:245