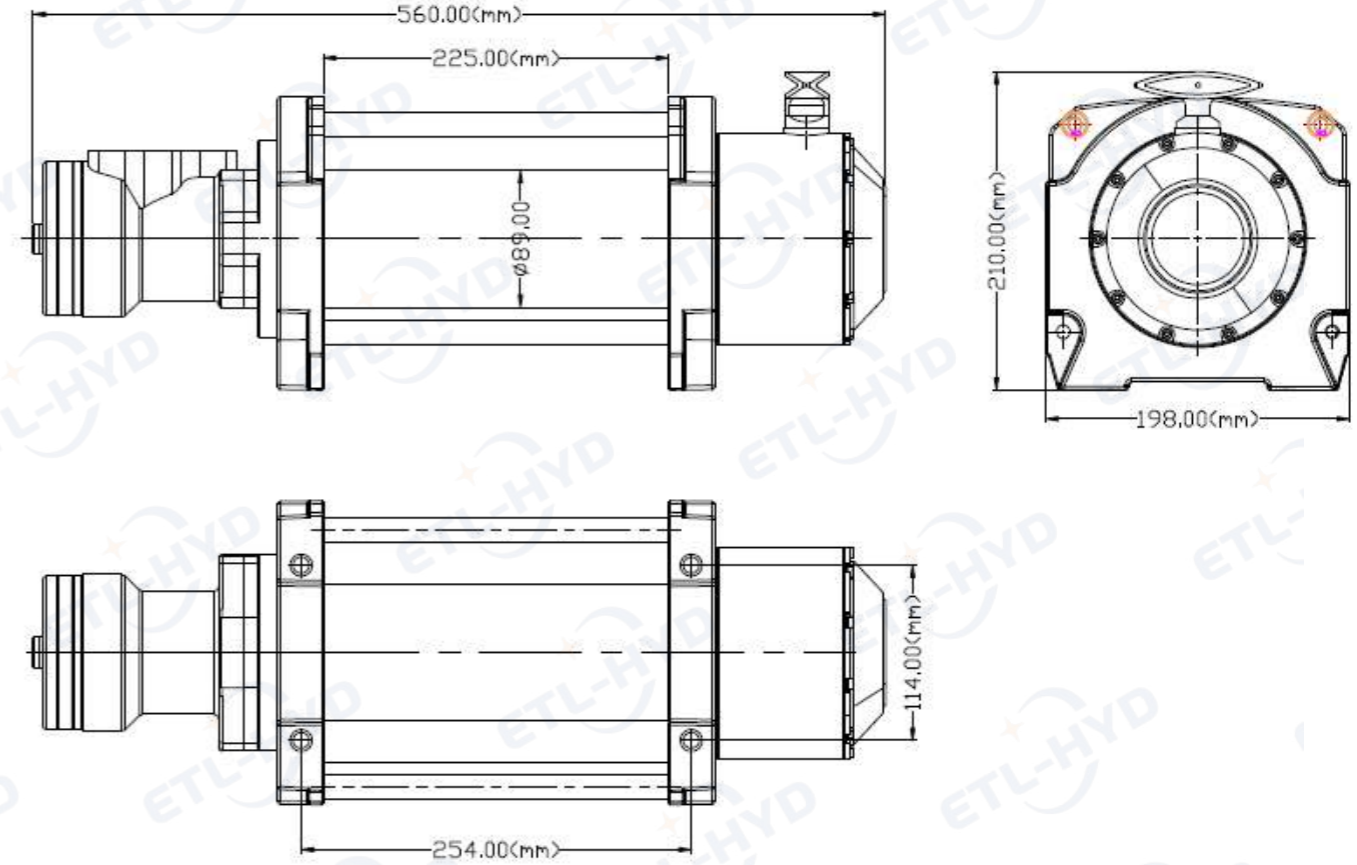


10000lbs-12000lbs



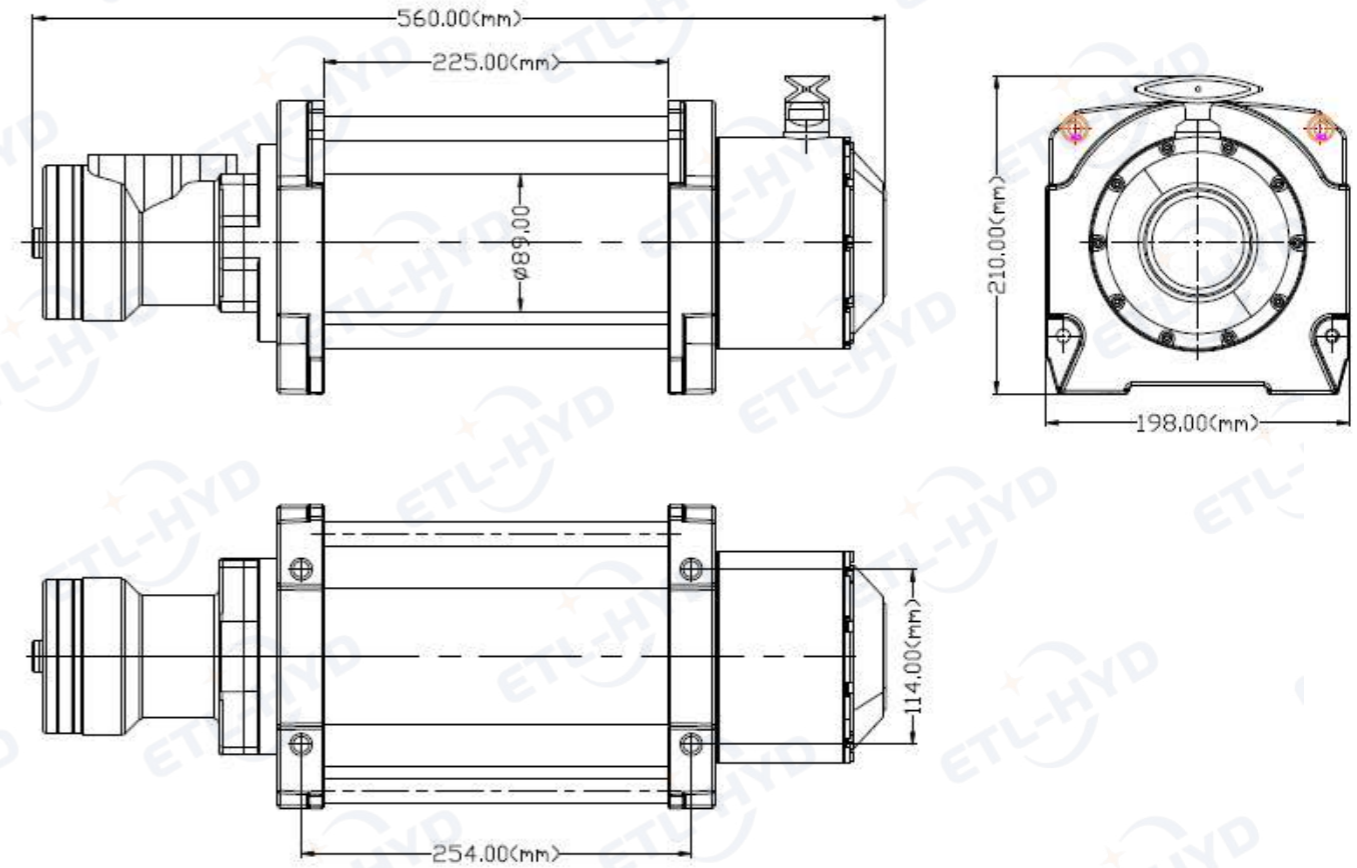
| | |
|-------------------------------------|---|
| Capacity | 10000-12000LBS |
| Gear Ratio: | 36/1 |
| Motor: | BMR63 |
| Mounting Bolt Pattern: | 10.00±0.015" × 4.50 ±0.010" (254mm × 114.3mm) |
| Cable: | Steel cable 9mm*24m |
| Drum Size: | 90mm*220mm |
| Overall Dimensions (L×W×H) : | 640mm × 330mm × 340mm |
| G.W (kg): | 42 |
| Fairlead: | 4-Way Roller Fairlead (四轮导绳器) |

| | |
|----------------------|---------------------------|
| Finish: | Painting: Black |
| Rubber Hoses: | 5/16"*1.5m |
| Connector: | G1/2*M16*1.5 |
| Gear Train: | 2 Stage planetary (2级行星轮) |
| Clutch: | Pull & Turn Gear |
| Brake: | Mechanical brake (机械刹车) |
| Hook: | 3/8" hook |
| Performance: | Hydraulic |

Pull, Speed, Pressure, Flow (First layer)

| Line pull lbs(kgs) | Pressure Mpa(Psi) | Flow G/min(L/min) | Line speed ft/min(m/min) |
|-----------------------|----------------------|----------------------|-----------------------------|
| 0 | 2.0(290.1) | 1.3(5.0) | 2.3 (0.7) |
| 3000(1361) | 3.4(453.1) | 2.6(10.0) | 4.6(1.4) |
| 6000(2722) | 6.8(986.2) | 5.3(20.0) | 8.9(2.7) |
| 9000(4082) | 10.3(1493.9) | 9.2(35.0) | 15.1(4.6) |
| 10000(4536) | 11.5(1668.0) | 10.6(40.0) | 17.4(5.3) |

15000lbs



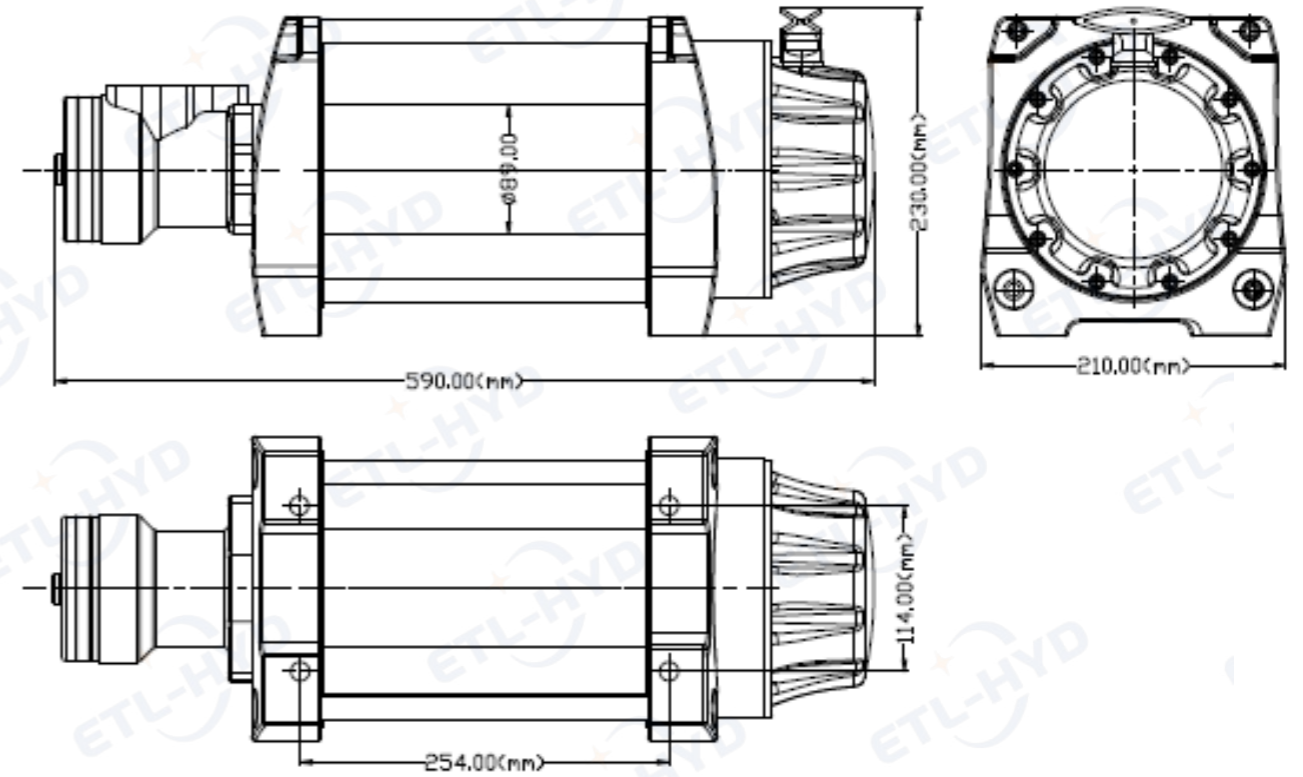
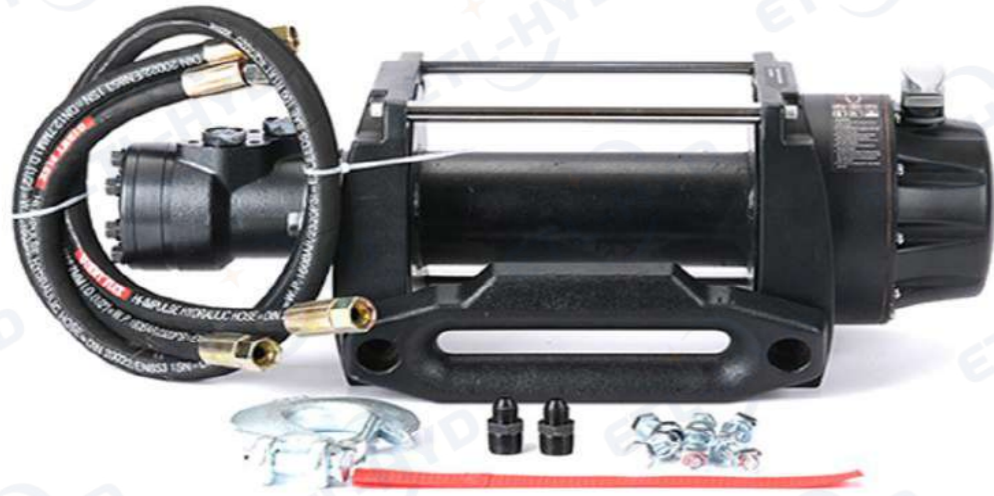
| | |
|-------------------------------------|---|
| Capacity | 15000LBS |
| Gear Ratio: | 36/1 |
| Motor: | BMR80 |
| Mounting Bolt Pattern: | 10.00±0.015" × 4.50 ±0.010" (254mm × 114.3mm) |
| Cable: | steel cable 10mm*24m |
| Drum Size: | 90mm*220mm |
| Overall Dimensions (L×W×H) : | 640mm × 330mm × 340mm |
| G.W (kg): | 45 |
| Fairlead: | 4-Way Roller Fairlead (四轮导绳器) |

| | |
|----------------------|---------------------------|
| Finish: | Painting: Black |
| Rubber Hoses: | 5/16"*1.5m |
| Connector: | G1/2*M16*1.5 |
| Gear Train: | 2 Stage planetary (2级行星轮) |
| Clutch: | Pull & Turn Gear |
| Brake: | Mechanical brake (机械刹车) |
| Hook: | 3/8" hook |
| Performance: | Hydraulic |

Pull , Speed, Pressure, Flow (First layer)

| Line pull lbs (kgs) | Pressure Mpa(Psi) | Flow G/min (L/min) | Line speed ft/min(m/min) |
|---------------------|-------------------|--------------------|--------------------------|
| 0 | 2.0(290.1) | 1.3(5.0) | 1.6 (0.5) |
| 5000(2268) | 4.3(623.7) | 2.6(10.0) | 3.3(1.0) |
| 10000(4536) | 8.7(1261.8) | 5.3(20.0) | 6.6(2.0) |
| 12000(5443) | 10.0(1450.3) | 7.9(30.0) | 9.8(3.0) |
| 15000(6804) | 13.0(1885.4) | 15.9(60.0) | 19.7(6.0) |

20000lbs

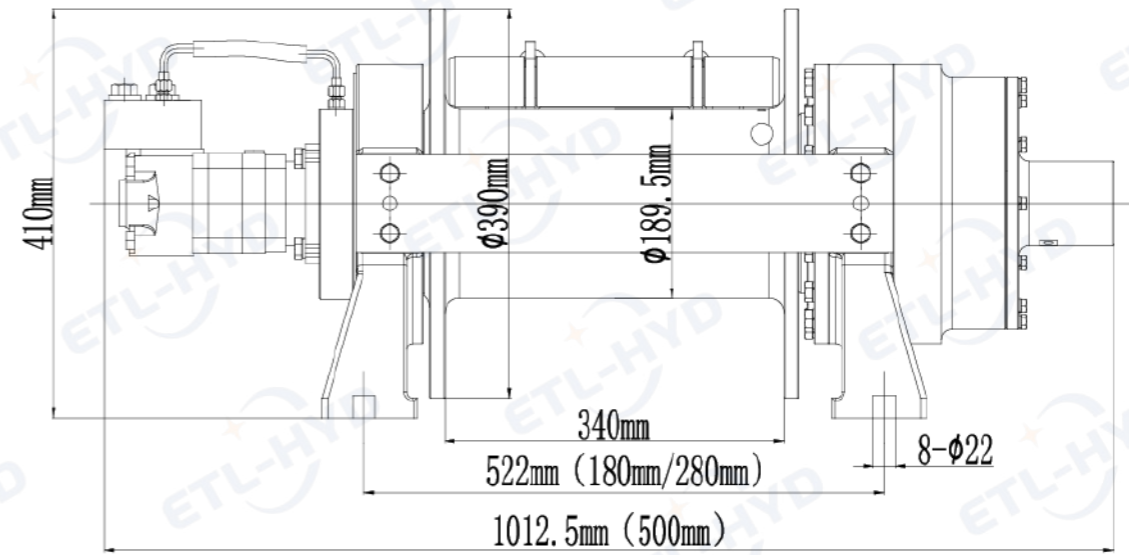
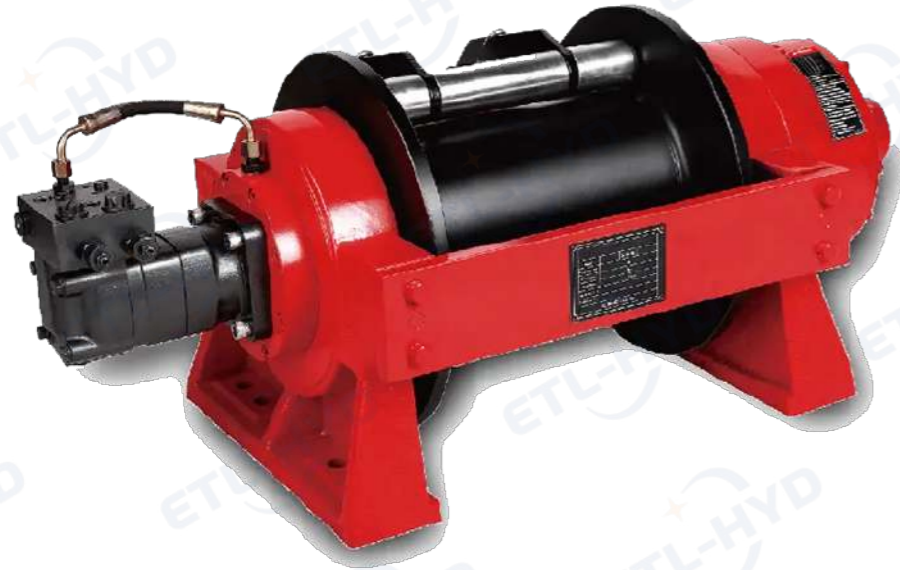


| | |
|-------------------------------------|---|
| Capacity | 20000LBS |
| Gear Ratio: | 36/1 |
| Motor: | BMR100 |
| Mounting Bolt Pattern: | 10.00±0.015" × 4.50 ±0.010" (254mm × 114.3mm) |
| Cable: | steel cable 12mm*24m |
| Drum Size: | 90mm*220mm |
| Overall Dimensions (L×W×H) : | 70 × 40 × 60cm |
| G.W (kg): | 68 |
| Fairlead: | iron casting fairlead (铸铁导绳器) |

| | |
|----------------------|---------------------------|
| Finish: | Painting: Black |
| Rubber Hoses: | 1/2"*1.3m |
| Connector: | G1/2"*M20*1.5 |
| Gear Train: | 2 Stage planetary (2级行星轮) |
| Clutch: | Turn Gear |
| Brake: | Mechanical brake (机械刹车) |
| Hook: | 1/2" hook |
| Performance: | Hydraulic |

Pull , Speed, Pressure, Flow (First layer)

| Line Pull lbs(kgs) | Pressure Mpa(Psi) | Flow G/min(L/min) | Line Speed ft/min(m/min) |
|-----------------------|----------------------|----------------------|-----------------------------|
| 0 | 2.5 (362.6) | 4.0 (15) | 5.9 (1.8) |
| 4000 (1814) | 4.2 (609.1) | 7.9 (30) | 11.8 (3.6) |
| 8000 (3629) | 8.5 (1232.8) | 13.2 (50) | 19.7 (6.0) |
| 15000 (6804) | 14.0 (2030.5) | 15.9 (60) | 23.6 (7.2) |
| 20000 (9072) | 17.5 (2538.1) | 19.9 (75) | 29.5 (9.0) |



SPECIFICATION(HWE100)

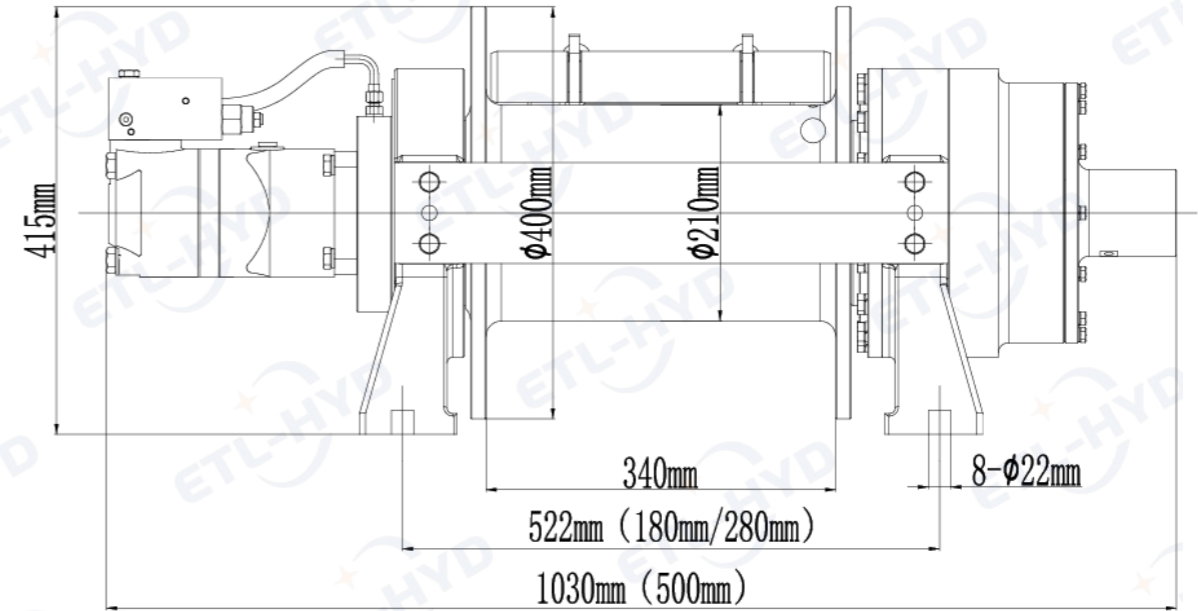
| | |
|----------------------------|--|
| Rated line pull | 22000 lbs (10000 kgs) |
| Motor displacement | 200ml/r |
| Oil flow | 15~75L/min |
| Pressure | 16Mpa |
| Gear reduction ratio | 37.8:1 |
| Cable (Dia. × L) | Ø5/7"×131' (Ø18mm×40m) |
| Drum size(Dia. × L) | Ø7.46 "× 13.39"(Ø189.5mm×340mm) |
| Mounting bolt pattern | 20.55 "×7.09"× 11.02" (522mm×180mm×280mm) 8-M20 |
| Overall dimensions (L×W×H) | 39.86" × 19.69" × 16.14" 1012.5mm × 500mm × 410mm |
| Net weight | 340kg |

Pull , Speed, Pressure, Flow (First layer)

| Line pull lbs (kgs) | Pressure Mpa(Psi) | Flow G/min (L/min) | Line speed ft/min(m/min) |
|---------------------|-------------------|--------------------|--------------------------|
| 0 | 3.5(507.5) | 4.0(15) | 4.3(1.3) |
| 14500(6577) | 7(1015) | 10.6(40) | 10.8(3.3) |
| 16300(7394) | 10.5(1522.5) | 13.2(50) | 13.5(4.1) |
| 18700(8482) | 14(2030) | 15.9(60) | 15.8(4.8) |
| 22000(10000) | 16(2320) | 19.8(75) | 20.0(6.1) |

Line Pull And Rope Capacity Inlayer

| Layer of wire rope | Rated line pull lbs(kgs) | Total rope on drum ft (m) |
|--------------------|--------------------------|---------------------------|
| 1 | 22000(10000) | 32.8(10.0) |
| 2 | 18700(8482) | 72.2(22.0) |
| 3 | 16300(7394) | 118.1(36.0) |
| 4 | 14500(6577) | 131(40.0) |



SPECIFICATION(HWE150)

| | |
|----------------------------|--|
| Rated line pull | 33000 lbs (15000 kgs) |
| Motor displacement | 250ml/r |
| Oil flow | 10~120L/min |
| Pressure | 20Mpa |
| Gear reduction ratio | 40.6:1 |
| Cable (Dia.× L) | Ø7/8"×131' (Ø22mm×40m) |
| Drum size(Dia.× L) | Ø8.27 "× 13.39"(Ø210mm×340mm) |
| Mounting bolt pattern | 20.55 "×7.09"×11.02" (522mm×180mm×280mm) 8-M20 |
| Overall dimensions (L×W×H) | 40.55"×19.69"×16.34" 1030mm ×500mm ×415mm |
| Net weight | 400kg |

Pull , Speed, Pressure, Flow (First layer)

| Line pull lbs (kgs) | Pressure Mpa(Psi) | Flow G/min (L/min) | Line speed ft/min(m/min) |
|---------------------|-------------------|--------------------|--------------------------|
| 0 | 4(580.2) | 5.3(20) | 4.3(1.3) |
| 21000(9526) | 10(1450.4) | 15.9(60) | 13.8(4.2) |
| 23900(10841) | 12(1740.5) | 21.1(80) | 18(5.5) |
| 27700(12565) | 15(2175.6) | 26.4(100) | 22.6(6.9) |
| 33000(15000) | 18(2610.7) | 33(125) | 27.9(8.5) |

Line Pull And Rope Capacity Inlayer

| Layer of wire rope | Rated line pull lbs(kgs) | Total rope on drum ft (m) |
|--------------------|--------------------------|---------------------------|
| 1 | 33000(15000) | 30(9.0) |
| 2 | 27700(12565) | 66(20.0) |
| 3 | 23900(10841) | 108(33.0) |
| 4 | 21000(9526) | 131(40.0) |

SPECIFICATION(HWE200)

| | |
|----------------------------|--|
| Rated line pull | 44000 lbs (20000 kgs) |
| Motor displacement | 315ml/r |
| Oil flow | 10~120L/min |
| Pressure | 20Mpa |
| Gear reduction ratio | 36:1 |
| Cable (Dia. × L) | Ø1.02"×131' (Ø26mm×40m) |
| Drum size(Dia. × L) | Ø8.27"×13.39"(Ø210mm×340mm) |
| Mounting bolt pattern | 20.94"×6.3"×11.02" (532mm×160mm×280mm) 8-M24 |
| Overall dimensions (L×W×H) | 45.6"×20.2"×16.54" 1158mm ×513mm ×420mm |
| Net weight | 505kg |

Pull , Speed, Pressure, Flow (First layer)

| Line pull lbs (kgs) | Pressure Mpa(Psi) | Flow G/min (L/min) | Line speed ft/min(m/min) |
|---------------------|-------------------|--------------------|--------------------------|
| 0 | 7.5(1087.8) | 5.3(20) | 3.3(1.0) |
| 22000(10000) | 10(1450.4) | 13.2(50) | 8.9(2.7) |
| 33000(15000) | 15(2175.6) | 22.5(85) | 15.4(4.7) |
| 44000(20000) | 20(2900.8) | 31.7(120) | 23.0(7.0) |

Line Pull And Rope Capacity Inlayer

| Layer of wire rope | Rated line pull lbs(kgs) | Total rope on drum ft (m) |
|--------------------|--------------------------|---------------------------|
| 1 | 44000(20000) | 28.9(8.8) |
| 2 | 36128(16388) | 64 (19.5) |
| 3 | 30600(13882) | 105 (32.0) |
| 4 | 26543(12040) | 131(40.0) |

SPECIFICATION(HWE250)

| | |
|----------------------------|---|
| Rated line pull | 55000 lbs (25000 kgs) |
| Motor displacement | 315ml/r |
| Oil flow | 10~120L/min |
| Pressure | 18Mpa |
| Gear reduction ratio | 53:1 |
| Cable (Dia. × L) | Ø1.18"×131' (Ø30mm×40m) |
| Drum size(Dia. × L) | Ø10.63 "×14.2"(Ø270mm×360mm) |
| Mounting bolt pattern | 24 "×6.7"×11.2" (610mm×170mm×310mm) 8-M27 |
| Overall dimensions (L×W×H) | 48.6"×25.2"×21.3" 1235mm ×640mm ×540mm |
| Net weight | 850kg |

Pull , Speed, Pressure, Flow (First layer)

| Line pull lbs (kgs) | Pressure Mpa(Psi) | Flow G/min (L/min) | Line speed ft/min(m/min) |
|---------------------|-------------------|--------------------|--------------------------|
| 0 | 7(1015.3) | 5.3(20) | 2.9(0.9) |
| 22000(10000) | 8.5(1232) | 13.2(50) | 7.8(2.4) |
| 44000(20000) | 15(2175) | 22.5(85) | 13.7(4.2) |
| 55000(25000) | 18(2610) | 31.7(120) | 19.0(5.8) |

Line Pull And Rope Capacity Inlayer

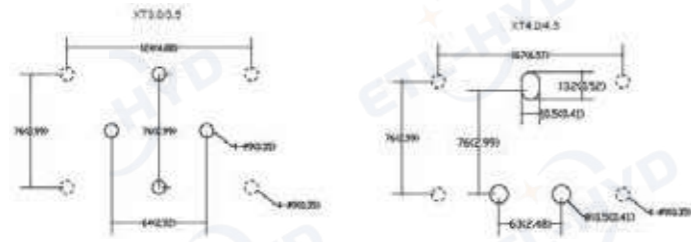
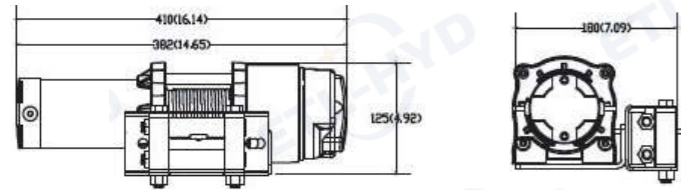
| Layer of wire rope | Rated line pull lbs(kgs) | Total rope on drum ft (m) |
|--------------------|--------------------------|---------------------------|
| 1 | 55000(25000) | 30.8(9.4) |
| 2 | 45832(20833) | 65.6(20) |
| 3 | 39285(17857) | 108.2(33) |
| 4 | 34375(15625) | 131(40) |



电动绞盘参数图/Electric winch parameter diagram

| 拉力选择 Pull force selection | 电机 Pull force selection | 齿轮比 Gear Ratio | 继电器 Relay | 绳子种类 Rope Type | 绳子长度 Rope length | 控制方式 Control method |
|------------------------------|--|--|--|---|--|---|
| 2000-22000lbs | A: Standard B: Customized (customer provides parameters) | A: Standard B: Customized (customer provides parameters) | A: Standard B: Customized (customer provides parameters) | A: Steel wire rope B: Synthetic rope | A: Standard B: Customized (customer provides parameters) | A: Wired control B: Wireless control |

DAO-U005A(S)



Part Number : DY-U005A(S)
 UTV 4000LBS WINCH FEATURES AND SPECIFICATIONS
 a. pulling rate: 4000lbs. (1812kgs) single-line
 b. motor : DC 12V 1.9hp/ 1.4kw permanent magnet
 c. gear ratio: 185:1 three stage planetary geartrain
 d. clutch:Turning
 e. brake : mechanical
 f. switch : handlebar mount mini-rocker wire control and wireless remotecontrol included
 g. roller fairlead
 H. Wire Rope: 50', 5.5mm diameter (15m, 5.5mm diam)
 I. Mounting Bolt Pattern: 76 X 167mm
 J. wirings ,solenoid (IP67) INCLUDED
 Optional kits
 Snatch block
 winch cover
 gloves
 hook & strap

PULL,SPEED,AMPERES,VOLTS

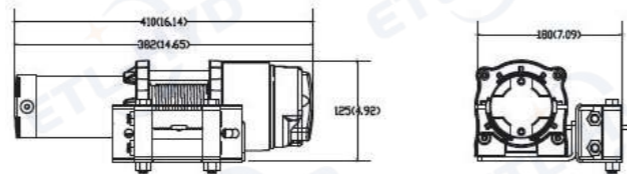
| Line Pull lbs(kgs) | Line speed ft/min/(m/min) | Current A |
|--------------------|---------------------------|-----------|
| 0 | 23.6(7.2) | 19.1 |
| 500(227) | 18.5(5.6) | 54.9 |
| 1500(680) | 13.7(4.2) | 113.7 |
| 2500(1134) | 8.4(2.6) | 175.0 |
| 3500(1588) | 5.7(1.7) | 241.3 |
| 4500(2041) | 2.9(0.9) | 318.0 |

Part Number :DY-U006A(S)

Performance: DC 12 V
 UTV 5000LBS WINCH FEATURES AND SPECIFICATIONS

a. pulling rate: 5000lbs. (2038kgs) single-line
 b. motor : 2.2hp/ 1.7kw permanent magnet
 c. gear ratio: 185:1 three stage planetary geartrain
 d. clutch:Turning
 e. brake : mechanical
 f. switch : handlebar mount mini-rocker wire control and wireless remote control included
 g. roller fairlead
 H. dyneema Rope: 50', 6.5mm diameter (15m, 6.5mm in dia)
 I. mounting Bolt Pattern: 76 X 167mm
 J. wirings ,solenoid (IP67) INCLUDED
 Optional kits
 Snatch block
 winch cover
 gloves
 hook & strap

DAO-U006A(S)



PULL,SPEED,AMPERES,VOLTS

| Line Pull lbs(kgs) | Line speed ft/min/(m/min) | Current A |
|--------------------|---------------------------|-----------|
| 0 | 23.6(7.2) | 19.1 |
| 1000(454) | 16.7(5.1) | 84.7 |
| 2000(907) | 11.2(3.4) | 144.7 |
| 3000(1361) | 7.3(2.2) | 206.3 |
| 4000(1814) | 3.6(1.1) | 278.8 |
| 5000(2268) | 2.9(0.9) | 318.0 |





DAO-8000C

DAO-8000B



DAO-8000



DAO-8000A

8000 LBS Features and Specifications :

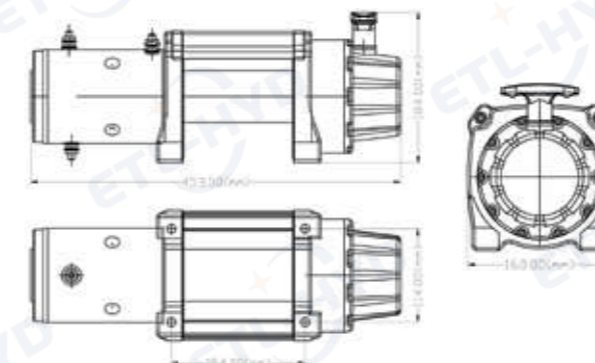
- PN : DAO-8000A
- Single line rated pull: 8000lbs (4082 kgs)
- Motor: 5.0hp/3.67kw series –wound
- Braking action: Automatic locking with motor
- Clutch: Sliding ring gear
- Gear train : 3 –stage planetary
- Gear ratio: 216: 1
- Switch: Wire remote control with black hand bar and Wireless remote control
- Fairlead: Aluminum hawse
- Steel rope: $\Phi 8.0 \times 50 \text{ ft} (\Phi 8.0 \times 15\text{m})$ **(Please note if there are special circumstances)**
- Weight: 50.6 pound (23kg)
- Overall dimension: 510mm x 290mm x 350mm
- Mounting bolt pattern: 6.45" x 4.5" (164mm x 114.3mm)

Line Speed And Amp Draw (First Layer)

| Line Pull | lb | NO | 4000 | 6000 | 8000 | 9000 | |
|---------------|--------|------|-------|-------|-------|-------|------|
| | kg | LOAD | 1812 | 2718 | 3624 | 4082 | |
| Line speed | ft/min | | 33.60 | 20.90 | 14.33 | 10.90 | 8.86 |
| | m/min | | 10.24 | 6.38 | 4.37 | 3.28 | 2.70 |
| Motor current | Amps | | 72 | 152 | 198 | 256 | 328 |

Line Speed And Amp Draw (First Layer)

| Layer of cable | | 1 | 2 | 3 | 4 |
|---------------------------|----|------|------|------|------|
| Rated line pull per layer | lb | 6000 | 4600 | 3100 | 2500 |
| | kg | 2720 | 2084 | 1404 | 1132 |
| Length of cable on drum | ft | 9.3 | 17.3 | 29.4 | 47 |
| | m | 2.8 | 5.7 | 9.8 | 14 |



DAO-12000



DAO-12000A

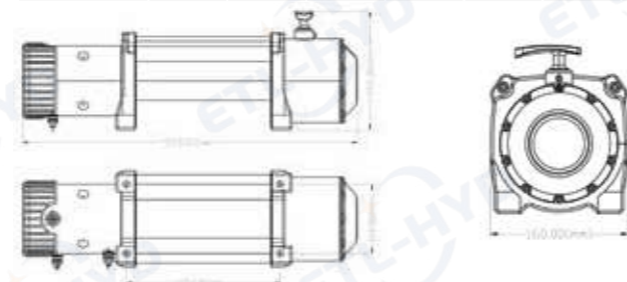


12,000lbs Features and Specifications :

- Performance: 12 /24 VDC
- Single line rated pull: 12,000lbs (5436kg)
- Motor: 6.5hp/4.8kw series –wound
- Braking action: Automatic locking with motor
- Clutch: Sliding ring gear
- Gear train : 3 –stage planetary
- Gear ratio: 265: 1
- Remote Switch: 11ft ,wire remote control with black hand bar , wireless remote control ready
- Battery: Recommended:650CCA minimum for winching
- Battery Leads: 2 Gauge 72”(1.83m)
- Fairlead: 4-way roller fairlead
- Steel cable: $\Phi 9 \times 72 \text{ ft}$ ($\Phi 9 \times 24 \text{ m}$) (Please note if there are special circumstances)
- Weight: 79.2 pound (36kg)
- Overall dimension: 625mm x 220mm x 350mm
- Mounting bolt pattern: 10" x 4.5" (254mm x 114.3mm)

Line Speed And Amp Draw (First Layer)

| Line Pull | lb | NO | 4000 | 6000 | 8000 | 10000 | 13000 |
|---------------|--------|------|------|------|------|-------|-------|
| | kg | LOAD | 1812 | 2718 | 3624 | 4304 | 5896 |
| Line speed | ft/min | 22.8 | 11.8 | 10.2 | 8.5 | 7.0 | 6.0 |
| | m/min | 6.95 | 3.6 | 3.1 | 2.6 | 2.13 | 1.83 |
| Motor current | Amps | 78 | 166 | 207 | 248 | 310 | 372 |



DAO-12000B



DAO-12000C





DAO-9500A

DAO-9500



DAO-9500B

9500 LBS Features and Specifications
 Single line rated pull: 9500lbs (4304kg)
 Motor: 5.8hp/4.3kw series -wound
 Braking action: Automatic locking with motor
 Clutch: Sliding ring gear
 Gear train : 3 -stage planetary
 Gear ratio: 216: 1
 Switch: Wire remote control with black hand bar ,
 Wireless remote control optional
 Fairlead: 4-way roller fairlead
 Weight: 80.6 pound (36.5kg)
 Steel cable: $\Phi 9 \times 85.4 \text{ ft}$ ($\Phi 9 \times 24 \text{ m}$)
 Weight: 80.6 pound (36.5kg)
 Overall dimension: 625mm x 220mm x 350mm
 Mounting bolt pattern: 10" x 4.5" (254mm x 114.3mm)

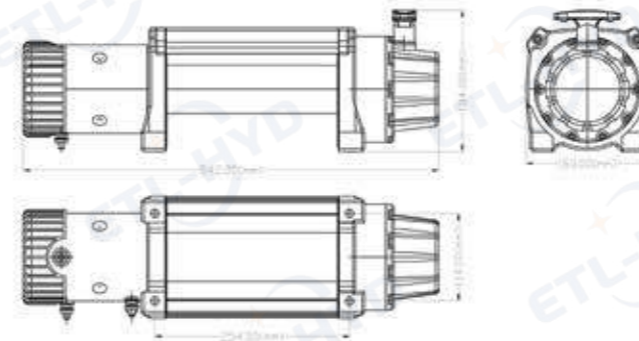
(Please note if there are special circumstances)

Line Speed And Amp Draw (First Layer)

| Line Pull | Line Speed And Amp Draw (First Layer) | | | | | | |
|---------------|---|------|-------|------|------|------|------|
| | lb | NO | 4000 | 6000 | 8000 | 9500 | |
| | kg | LOAD | 1812 | 2718 | 3624 | 4309 | |
| Line speed | ft/min | | 33.5 | 14.1 | 12.6 | 10.7 | 7.90 |
| | m/min | | 11.74 | 4.29 | 3.84 | 3.08 | 2.50 |
| Motor current | Amps | | 78 | 143 | 201 | 276 | 353 |

Line Pull And Cable Capacity

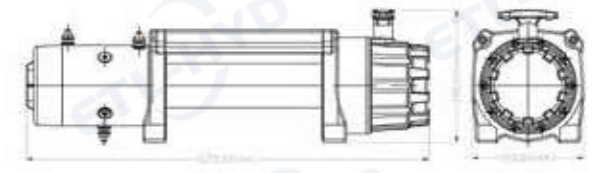
| Layer of cable | | 1 | 2 | 3 | 4 |
|---------------------------|----|------|-------|-------|-------|
| Rated line pull per layer | lb | 9500 | 7250 | 6125 | 5150 |
| | kg | 4304 | 3285 | 2775 | 2333 |
| Length of cable on drum | ft | 16.5 | 39.6 | 64.2 | 85.40 |
| | m | 5.03 | 12.70 | 19.57 | 26.00 |





DAO-12000E

12,000 LBS Features and Specifications:
 Performance: 12 or 24 VDC
 Single line rated pull: 12,000 lbs(5665kg)
 Motor: 6.5hp/4.8kw series -wound
 Braking action: Automatic locking with motor
 Clutch: Sliding ring gear
 Gear train: 3 -stage planetary
 Gear ratio: 216:1
 Remote Switch: 11ft, wire remote control with black hand bar, wireless remote control included
 Battery: Recommended: 650CCA minimum for winching
 Battery Leads: 2 Gage 72" (1.83m)
 Fairlead: 4-way roller fairlead
 Rope: $\Phi 9.5 \times 78 \text{ ft}$ ($\Phi 9.5 \times 24 \text{ m}$)
 Weight: 61 pound (28kg)
 Overall dimension: 625mm x 220mm x 350mm
 Mounting bolt pattern: 10" x 4.5" (254mm x 114.3mm)



DAO-12000



DAO-12000D





DAO-12000



DAO-12000F

DAO-12000G

13,500lbs Features and Specifications :

Performance: 12 /24 VDC
 Single line rated pull: 13,500lbs (6136kg)
 Motor: 6.5hp/4.8kw series –wound
 Braking action: Automatic locking with motor
 Clutch: Sliding ring gear
 Gear train : 3 –stage planetary
 Gear ratio: 265: 1
 Remote Switch: 11ft ,wire remote control with black hand bar , wireless remote control ready
 Battery: Recommended:650CCA minimum for winching
 Battery Leads: 2 Gauge 72”(1.83m)
 Fairlead: 4-way roller fairlead
 Steel cable: $\Phi 9.5 \times 78 \text{ ft } (\Phi 9.5 \times 24 \text{ m})$ (Please note if there are special circumstances)
 Weight: 61 pound (28kg)
 Overall dimension: 650mm x 220mm x 350mm
 Mounting bolt pattern: 10" x 4.5" (254mm x 114.3mm)

Line Speed And Amp Draw (First Layer)

| Line Pull | lb | NO | 4000 | 6000 | 8000 | 9500 | 12500 |
|---------------|--------|------|------|------|------|------|-------|
| | kg | LOAD | 1812 | 2718 | 3624 | 4304 | 5665 |
| Line speed | ft/min | 22.8 | 11.8 | 10.2 | 8.5 | 7.0 | 6.0 |
| | m/min | 6.95 | 3.6 | 3.1 | 2.6 | 2.13 | 1.83 |
| Motor current | Amps | 78 | 166 | 207 | 248 | 310 | 372 |

Line Pull And Cable Capacity

| Layer of cable | | 1 | 2 | 3 | 4 |
|---------------------------|----|-------|-------|-------|-------|
| Rated line pull per layer | lb | 12500 | 9927 | 8250 | 7045 |
| | kg | 5665 | 4497 | 3737 | 3191 |
| Length of cable on drum | ft | 17.8 | 38.2 | 64.2 | 72 |
| | m | 5.93 | 12.73 | 19.57 | 24.00 |



DAO-12000H





DAO-12500



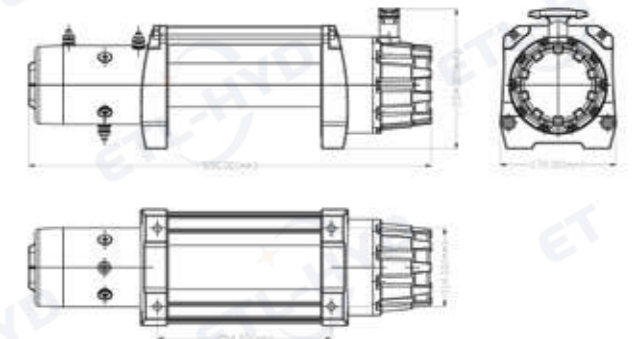
DAO-12500A

12,500 LBS Features and Specifications :

- Performance: 12 VDC
- Single line rated pull: 12,500lbs (5681kg)
- Motor: 7.2hp/5.3kw series –wound , fast speed
- Braking action: Automatic locking with motor
- Clutch: Rotating ring gear ,stainless T-clutch handle
- Gear train : 3 –stage planetary ,modules of 1.75 big gears ,all metal ,smooth weld planetary plate
- Gear ratio: 216: 1
- Remote Switch: 12ft ,wire remote control with black handbar , wireless remote control (optinal)
- Battery: Recommended:650CCA minimum for winching
- Battery Leads: 2 Gauge 72”(1.83m)
- Fairlead: 4-way roller fairlead
- Drum: 2.5”/8.8”(64mm x 224mm)
- Steel cable: $\Phi 9 \times 78 \text{ ft}$ ($\Phi 9 \times 24 \text{ m}$) (Please note if there are special circumstances)
- Weight: 79 pound (36kg)
- Overall dimension: 650mm x 260mm x 380mm
- Mounting bolt pattern: 10” x 4.5” (254mm x 114.3mm)

Line Speed And Amp Draw (First Layer)

| Line Pull | lb | NO | 4000 | 6000 | 8000 | 10000 | 12500 | |
|---------------|--------|------|------|------|------|-------|-------|-----|
| | kg | LOAD | 1812 | 2718 | 3624 | 4304 | 4309 | |
| Line speed | ft/min | | 43.2 | 9.2 | 8.2 | 6.9 | 5.9 | 4.2 |
| | m/min | | 13.2 | 2.8 | 2.5 | 2.1 | 1.9 | 1.3 |
| Motor current | Amps | | 75 | 180 | 230 | 280 | 340 | 420 |





DAO-13500B



DAO-13500C

DAO-13500



DAO-13500A

13,500 LBS Features and Specifications :

- Performance: 12 VDC
- Single line rated pull: 13,500lbs (6136kg)
- Motor: 7.2hp/5.3kw series –wound , fast speed
- Braking action: Automatic locking with motor
- Clutch: Rotating ring gear ,stainless T-clutch handle
- Gear train : 3 –stage planetary ,all metal ,smooth weld planetary plate
- Gear ratio: 265: 1
- Remote Switch: 12ft ,wire remote control with black handbar , wireless remote control included
- Battery: Recommended:650CCA minimum for winching
- Battery Leads: 2 Gauge 72"(1.83m)
- Fairlead: 4-way roller fairlead (Forged hawse optional)
- Drum: 2.5"/8.8"(64mm x 224mm)
- Steel cable: Φ 9x 78 ft (Φ 9x 24 m) (Please note if there are special circumstances)
- Weight: 79 pound (36kg)
- Overall dimension: 650mm x 260mm x 380mm
- Mounting bolt pattern: 10" x 4.5" (254mm x 114.3mm)

Line Speed And Amp Draw (First Layer)

| Line Pull | lb | NO | 4000 | 6000 | 8000 | 10000 | 13500 |
|---------------|--------|------|------|------|------|-------|-------|
| | kg | LOAD | 1812 | 2718 | 3624 | 4304 | 6123 |
| Line speed | ft/min | 43.2 | 9.2 | 8.2 | 6.9 | 5.9 | 4.2 |
| | m/min | 13.2 | 2.8 | 2.5 | 2.1 | 1.9 | 1.3 |
| Motor current | Amps | 75 | 180 | 230 | 280 | 340 | 420 |

Line Pull And Cable Capacity

| Layer of cable | | 1 | 2 | 3 | 4 |
|---------------------------|----|-------|-------|-------|-------|
| Rated line pull per layer | lb | 13500 | 10800 | 9000 | 7200 |
| | kg | 6116 | 4892 | 4077 | 3270 |
| Length of cable on drum | ft | 15.8 | 32.3 | 58.70 | 65.7 |
| | m | 5.21 | 10.70 | 19.30 | 21.80 |



DAO-15000

DAO-15000B

DAO-15000A



15,000 LBS Features and Specifications :

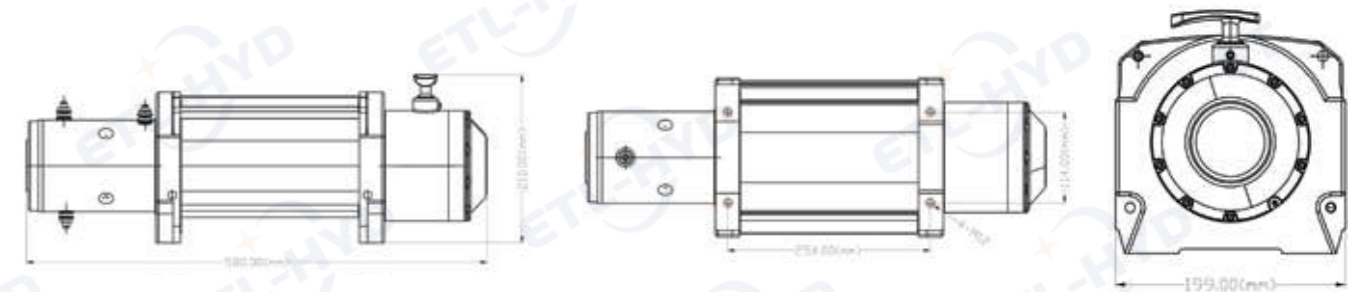
- Performance: 12 VDC
- Single line rated pull: 15,000lbs (6803kg)
- Motor: 7.2hp/6.0kw series –wound , fast speed
- Braking action: Automatic locking with motor
- Clutch: Rotating ring gear ,stainless T-clutch handle
- Gear train : 3 –stage planetary ,all metal ,smooth weld planetary plate
- Gear ratio: 265: 1
- Remote Switch: 12ft ,wire remote control with black handbar , wireless remote control included
- Battery: Recommended:650CCA minimum for winching
- Battery Leads: 2 Gauge 72”(1.83m)
- Fairlead: 4-way roller fairlead (Forged hawse optional)
- Drum: 3.5”/8.8”(89mm x 224mm)
- Steel cable: 25/64” x 85” (Φ10 x 24.5 m) (Please note if there are special circumstances)
- Weight: 105 pound (49kg)
- Overall dimension: 650mm x 260mm x 380mm
- Mounting bolt pattern: 10” x 4.5” (254mm x 114.3mm)

Line Speed And Amp Draw (First Layer)

| Line Pull | NO | | | | | | | |
|---------------|--------|------|------|------|------|-------|-------|-----|
| | lb | kg | 4000 | 6000 | 8000 | 13500 | 15000 | |
| | | LOAD | 1812 | 2718 | 3624 | 6116 | 6803 | |
| Line speed | ft/min | | 43.2 | 9.2 | 8.2 | 6.9 | 5.9 | 4.2 |
| | m/min | | 13.2 | 2.8 | 2.5 | 2.1 | 1.9 | 1.3 |
| Motor current | Amps | | 75 | 180 | 230 | 280 | 340 | 420 |

Line Pull And Cable Capacity

| Layer of cable | | 1 | 2 | 3 | 4 |
|---------------------------|----|-------|-------|-------|-------|
| Rated line pull per layer | lb | 15000 | 12500 | 1075 | 8200 |
| | kg | 6795 | 5663 | 4869 | 3714 |
| Length of cable on drum | ft | 15.8 | 32.3 | 58.70 | 65.7 |
| | m | 5.21 | 10.70 | 19.30 | 21.80 |

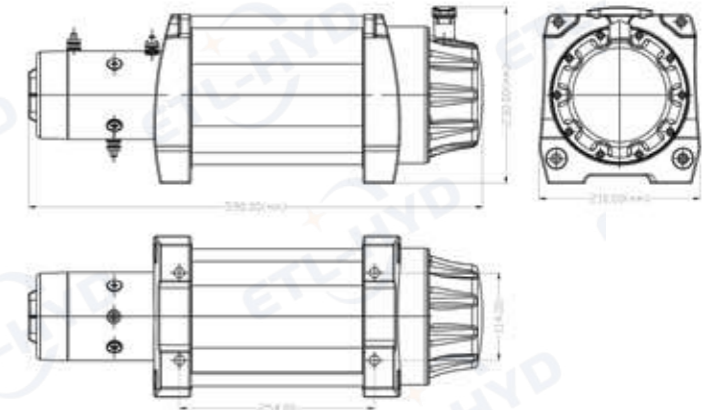




DAO-20000B

20,000 LBS Features and Specifications :

- Performance: 12 VDC
- Single line rated pull: 20000lbs (9090kg)
- Motor: 7.2hp/5.3kw series –wound , fast sp
- Braking action: Automatic locking with motor
- Clutch: Rotating ring gear ,stainless T-clutch
- Gear train : 3 –stage planetary ,all metal ,smoo planetary plate
- Gear ratio: 365: 1
- Remote Switch: 12ft ,wire remote control with b wireless remote control included
- Battery: Recommende minimum for winchi
- Battery Leads: 2 Ga
- Fairlead: 4-way roller fairlead (Forged hawse option:
- Drum: 3.5”/8.8”(89mm x 224mm)
- Steel cable: $\Phi 12 \times 78 \text{ ft}(\Phi 12 \times 24 \text{ m})$ (Please note if there are special circumstances)
- Weight: 119 pound (54kg)
- Overall dimension: 650mm x 260mm x 380mm
- Mounting bolt pattern: 10” x 4.5” (254mm x 114.3mm)



DAO-20000

DAO-20000A





DAO-HP9901



Hydraulic power 10000lbs winch Features and Specifications :
 Single line pulling : 10000lbs (4530 kg)
 Motor : Hydraulic Motor with high torque(8.5MPa)
 Gear Ratio: 63:1
 Drum Size : 89mm x 224mm
 Cable : 9.5mmx24.5m
 Switch : wireless and wire remote controls
 Mounting Bolt Pattern : 10'x4.5' (254mm x 114mm)

| Pull, speed, pressure, flow (first layer) | | | |
|---|----------|--------------|------------|
| Line Pull | pressure | Flow | Line speed |
| Lbs. | Mpa | G/min(L/min) | M/min |
| 0 | 1 | 5.3(20) | 0.7 |
| 8000 | Mpa 5 | 7.9(30) | 0.85 |
| 10000 | 7 | 13.2(50) | 0.9 |

- Optional kits :
- a. snatch block
 - b. tow hook
 - c. strap protector
 - d. winch mounting plate