CATALOGUE

WINCHES

INDEX

MAJOR PART OF WINCHES

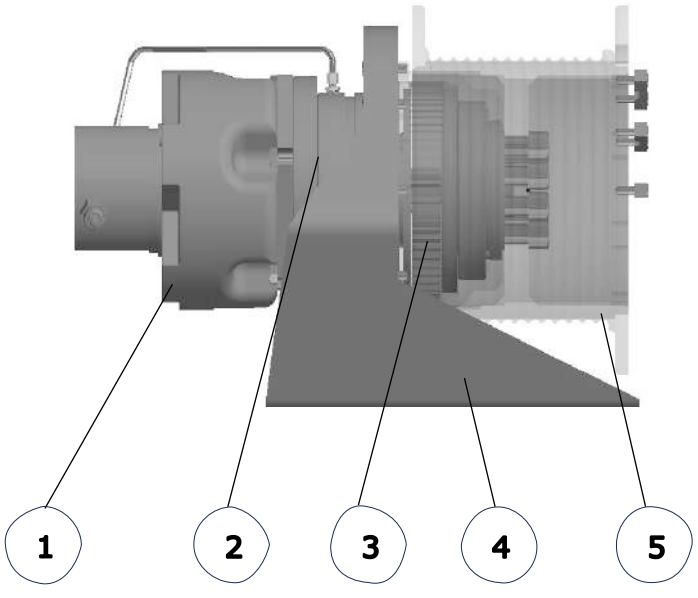
1. **DRIVE UNIT**
   Drive unit is major driving item of winch and gives power to operate. It will be DC/AC electric motor in case of electric winches, hydraulic orbital, radial piston motor, axial piston motor in case of hydraulic winches. In case of hydraulic, it comes with over-centre valve also for smooth lowering

2. **LOAD HOLDING UNIT**
   Negative brake is load holding unit in case of no working of winches. It can operate hydraulically, electrically as per requirement. Primarily it is connection between drive unit and gearbox

3. **GEARBOX**
   Drive units can't run at same speed and can't give the same torque as requested in application so to increase the torque and reduce the speed, gearbox is used. It can planetary, helical, worm as per customer and application specific requirement.

4. **Structure**
   Structure is required to make all items assembled and making winch a single unit and used to fix the complete winch on machine also.

5. **Drum**
   Drum accommodate the wire rope and act as a storage item for wire rope. It can be smooth, helical grooved or special grooved as per customer and application request.



Types of Rope Drums

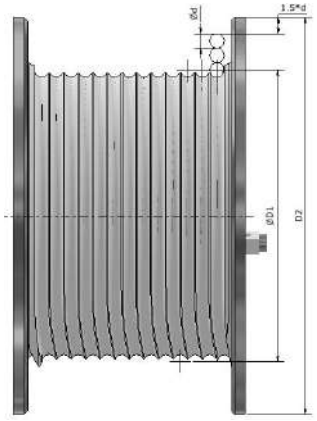
Special Grooves

Helical Grooves

Plain Drum

Special grooves helps in multi-layer winding on to grooves, as the crossover points of the rope in each layer always lie in the same section of the drum and the lift of the rope into the next layer is precisely defined. 8 and more layers can be accommodated without difficulty
Drums can be provided in castings, or ductile pipes(S355J0)

Rope Drum Diameter



Rope Drum Diameter D1
D1=20*d or as requested by application

Drum Flange Diameter D2
D2=D1+2(z+1)d

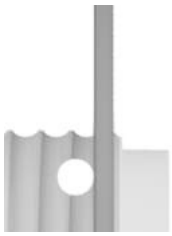
Length of wire rope
Including 4 safety turns

$$L_t = \left(\frac{L_d}{P} - a\right) * \left(D_1 + 0.866 * d(Z-1)\right) * \frac{Z * \pi}{1000}$$

Where
Lt : total length of wire rope
Ld : Drum length between flanges
D1 : Drum Diameter
d : wire rope diameter
Z : No of rope layers
a : 1 for helical grooves
0.5 for special grooves

Rope Fixings

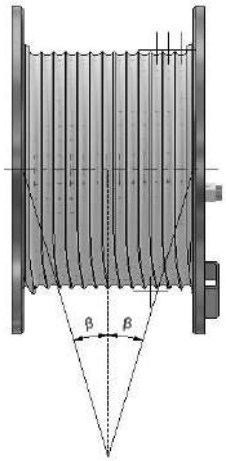
Rope clamp
outside of flange



Hole for rope
inside the drum

Socket and wedge
outside of flange

Fleet Angle



The Fleet angle β must within range of 0.5° to 1.5° on each to:-

- Prevent the rope from riding up the drum flange
- Ensure that it is guided safely on to the next layer.
- Prevent the rope in the first layer being pulled against the grooves
- Enable even winding up to the drum flanges.

If the deflection angle is greater, the working life of the rope will be negatively affected

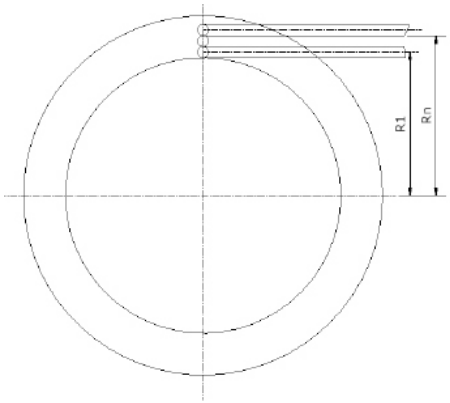
Direction of Steel wire lay

Wire rope should be always in opposite to lay of drum grooves

Right Hand Wire

Left Hand Wire

Calculations of Line Pull



Line Pull on 1st Layer: $F_1 = \frac{T_d}{R_1}$

Line Pull on nth Layer: $F_n = \frac{T_d}{R_n}$

Motor Torque: $T_m = \frac{T_d}{i * \eta_{dm}}$

Hoisting Pressure: $P_h = \frac{T_m * 628}{CC_m * \eta_m}$

where

T_d= Drum Torque

R_1=Drum radius of first layer

R_n=Drum radius of nth layer

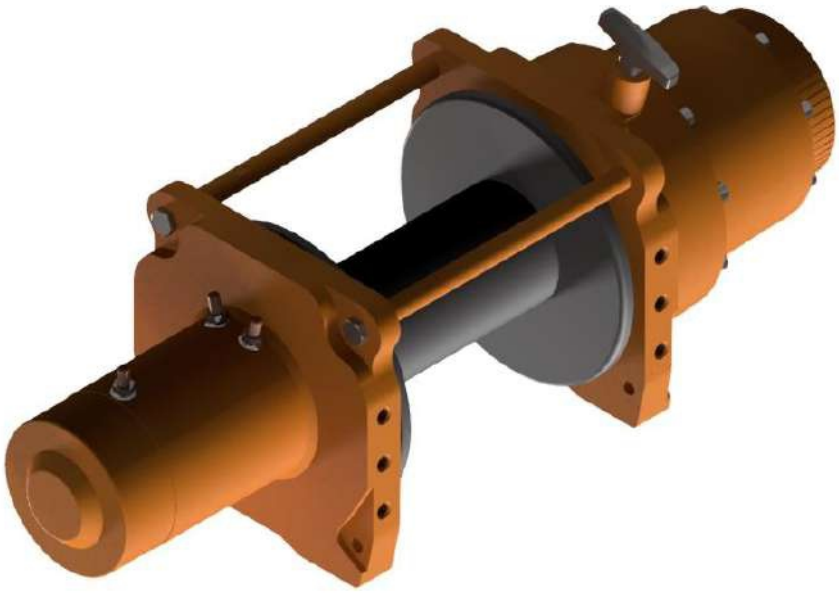
i=gear ratio

η_{dm}= Drum and gearbox efficiency

η_m = Motor mechanical efficiency

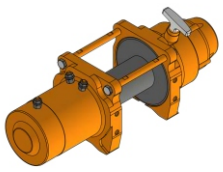
CC_m= Hydraulic motor volume in cc/rev

DC OPERATED RECOVERY WINCHES



Line Pull Range: 1,000kgs to 8,000kgs

DC OPERATED ELECTRIC WINCH



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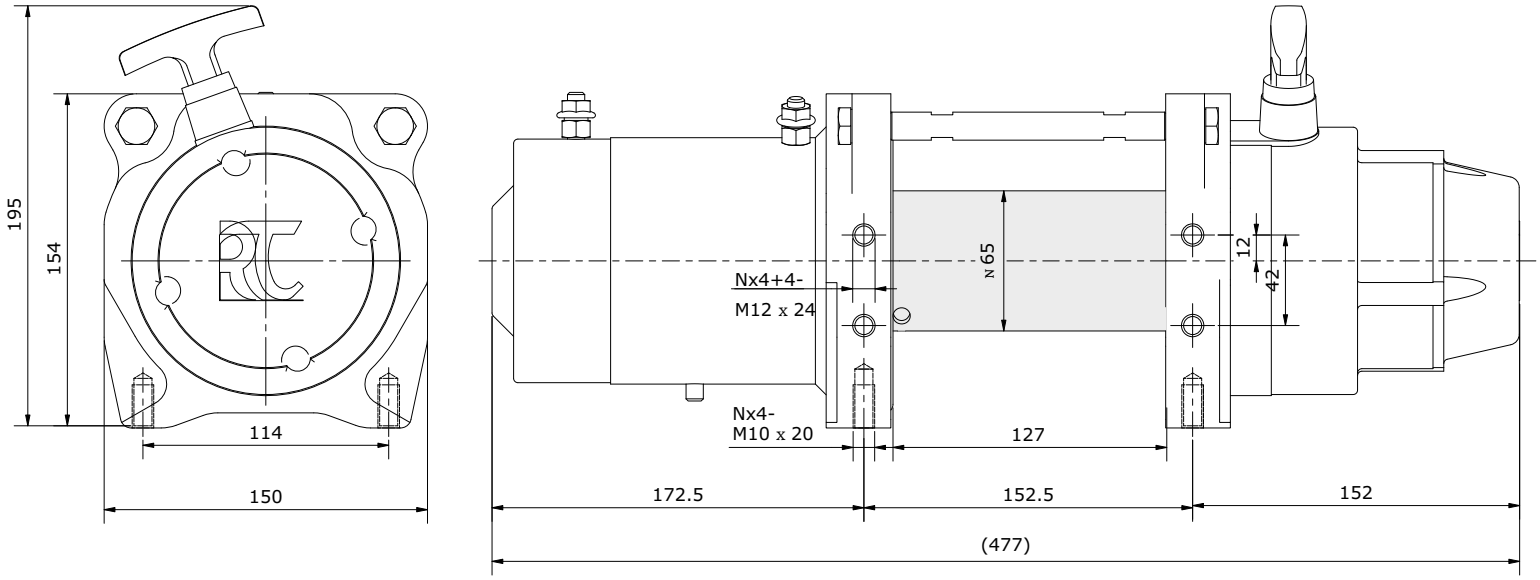


Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	2700	2.0	3
2	2200	2.4	7
3	1850	2.9	12
4	1600	3.3	18

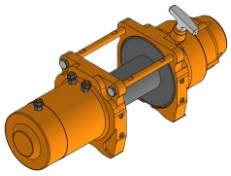
PARAMETER	SPECIFICATION
TYPE OF WINCH	ELECTRIC 24VDC
MOTOR POWER	3hp
STD ROPE DIAMETER	8mm
CURRENT DRAWN @ 2.7T LOAD	300A
GEAR RATIO	1:215
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
FREE SPOOLING MODE	MANUAL LEVER
WEIGHT OF WINCH	~30kgs

**FOR CONNECTIONS REFER INSTALLATION & MAINTENANCE MANUAL

ACCESSORIES OF WINCH

- MANUAL LEVER DRUM FREE SPOOLING
- CONE BRAKE FOR HOLDING THE LOAD
- WIRED REMOTE WITH 5m CABLE TO OPERATE THE WINCH
- HAWSE FAIRLEAD FOR SYNTHETIC WIRE ROPE
- JUNCTION BOX FOR ELECTRICAL PANEL
- BATTERY LEAD WITH QUICK COUPLER
- PRESSURE ROLLERS FOR KEEPING THE WIRE ROPE ON DRUM(OPTIONAL)
- ROPE END CONTROL TO GIVE SIGNAL FOR KEEPING 4 WRAPS ON DRUM(OPTIONAL)
- ROLLER FAIRLEAD FOR STEEL WIRE ROPE(OPTIONAL)
- SNATCH BLOCK(OPTIONAL)
- WIRE ROPE Dia 8mm(OPTIONAL)
- THIS WINCH IS NOT MEANT FOR MAN-HANDLING
- WINDING IS POSSIBLE IN BOTH CW & CCW DIRECTION BY CHANGING THE WIRE ROPE LAY
- USE Nx4 M10 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS PRE-FILLED WITH LITHIUM BASED GREASE FOR POSITIVE TEMPERATURE WORKING RANGE
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS USE MECHANICAL Li-BASED GREASE FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- CONTACT RT Industrial Solutions, FOR OIL GRADE IF WORKING IN NEGATIVE TEMPERATURE
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

DC OPERATED ELECTRIC WINCH



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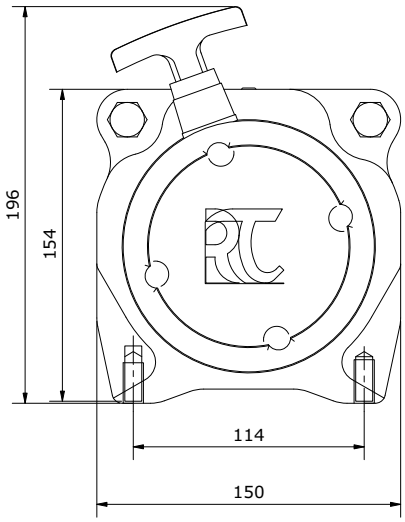
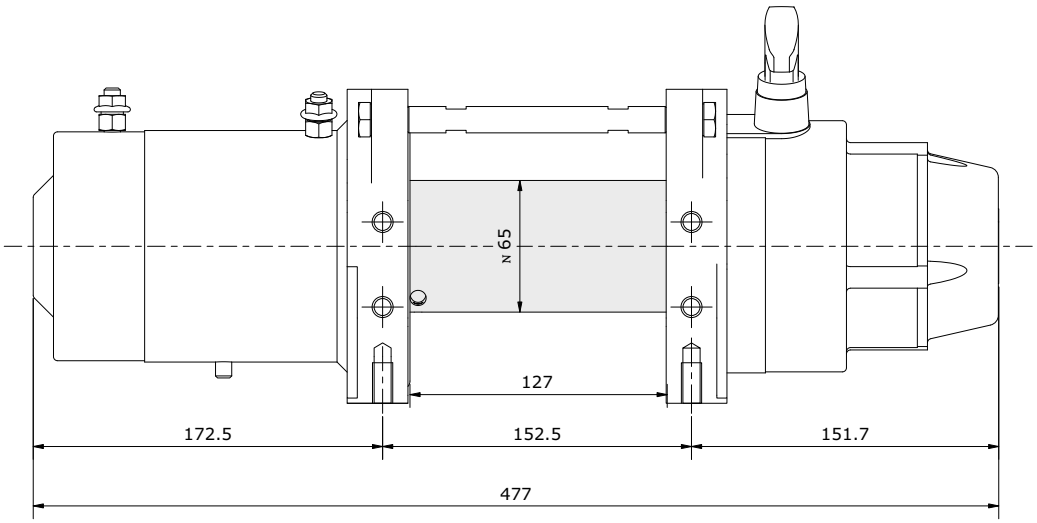




Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	4000	2.0	5
2	3250	2.4	11
3	2750	2.9	19
4	2400	3.3	28

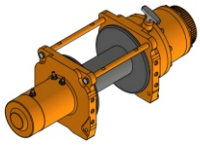
PARAMETER	SPECIFICATION
TYPE OF WINCH	ELECTRIC 24VDC
MOTOR POWER	2.5hp
STD ROPE DIAMETER	8mm
CURRENT DRAWN @ 2.7T LOAD	210A
GEAR RATIO	1:215
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
FREE SPOOLING MODE	MANUAL LEVER
WEIGHT OF WINCH	~40kgs

**FOR CONNECTIONS REFER INSTALLATION & MAINTENANCE MANUAL

ACCESSORIES OF WINCH

- MANUAL LEVER DRUM FREE SPOOLING
- CONE BRAKE FOR HOLDING THE LOAD
- WIRED REMOTE WITH 5m CABLE TO OPERATE THE WINCH
- HAWSE FAIRLEAD FOR SYNTHETIC WIRE ROPE
- JUNCTION BOX FOR ELECTRICAL PANEL
- BATTERY LEAD WITH QUICK COUPLER
- PRESSURE ROLLERS FOR KEEPING THE WIRE ROPE ON DRUM(OPTIONAL)
- ROPE END CONTROL TO GIVE SIGNAL FOR KEEPING 4 WRAPS ON DRUM(OPTIONAL)
- ROLLER FAIRLEAD FOR STEEL WIRE ROPE(OPTIONAL)
- SNATCH BLOCK(OPTIONAL)
- WIRE ROPE Dia 8mm(OPTIONAL)
- THIS WINCH IS NOT MEANT FOR MAN-HANDLING
- WINDING IS POSSIBLE IN BOTH CW & CCW DIRECTION BY CHANGING THE WIRE ROPE LAY
- USE Nx4 M10 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS PRE-FILLED WITH LITHIUM BASED GREASE FOR POSITIVE TEMPERATURE WORKING RANGE
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS USE MECHANICAL Li-BASED GREASE FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- CONTACT RT Industrial Solutions, FOR OIL GRADE IF WORKING IN NEGATIVE TEMPERATURE
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

DC OPERATED ELECTRIC WINCH



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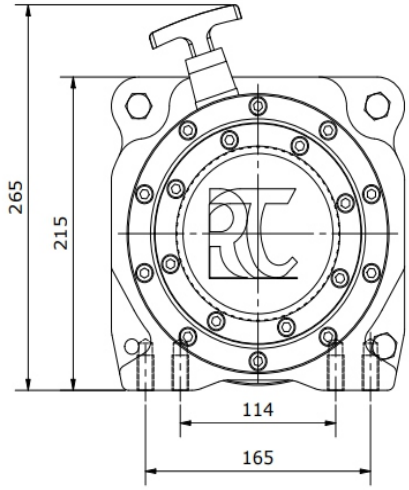
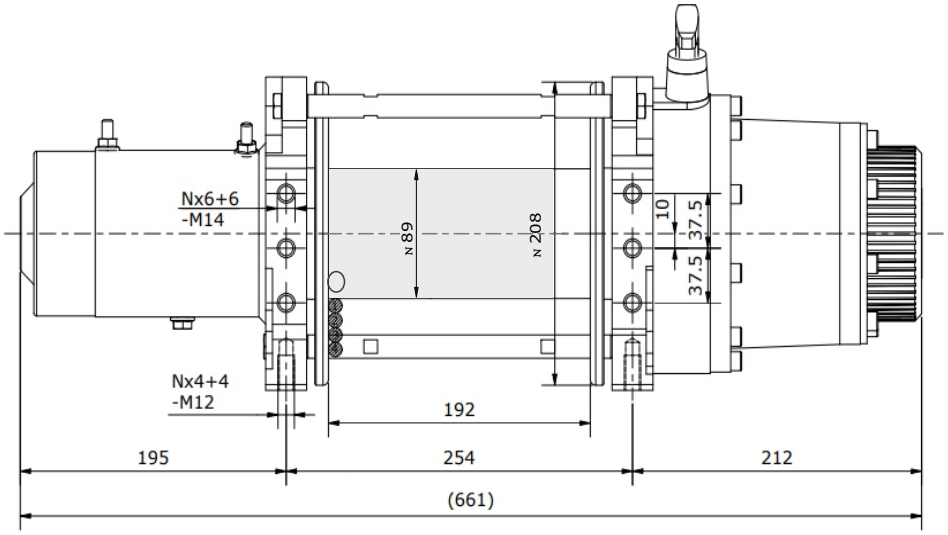




Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	5500	1.2	5
2	4400	1.5	12
3	3700	1.8	20
4	3200	2.0	30

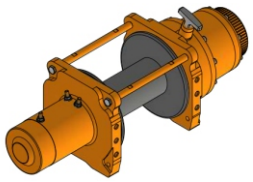
PARAMETER	SPECIFICATION
TYPE OF WINCH	ELECTRIC 24VDC
MOTOR POWER	6hp
STD ROPE DIAMETER	10mm
CURRENT DRAWN @ 2.7T LOAD	300A
GEAR RATIO	1:315
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
FREE SPOOLING MODE	MANUAL LEVER
WEIGHT OF WINCH	~75kgs

**FOR CONNECTIONS REFER INSTALLATION & MAINTENANCE MANUAL

ACCESSORIES OF WINCH

- MANUAL LEVER DRUM FREE SPOOLING
- CONE BRAKE FOR HOLDING THE LOAD
- WIRED REMOTE WITH 5m CABLE TO OPERATE THE WINCH
- HAWSE FAIRLEAD FOR SYNTHETIC WIRE ROPE
- JUNCTION BOX FOR ELECTRICAL PANEL
- BATTERY LEAD WITH QUICK COUPLER
- PRESSURE ROLLERS FOR KEEPING THE WIRE ROPE ON DRUM(OPTIONAL)
- ROPE END CONTROL TO GIVE SIGNAL FOR KEEPING 4 WRAPS ON DRUM(OPTIONAL)
- ROLLER FAIRLEAD FOR STEEL WIRE ROPE(OPTIONAL)
- SNATCH BLOCK(OPTIONAL)
- WIRE ROPE Dia 10mm(OPTIONAL)
- THIS WINCH IS NOT MEANT FOR MAN-HANDLING
- WINDING IS POSSIBLE IN BOTH CW & CCW DIRECTION BY CHANGING THE WIRE ROPE LAY
- USE Nx8 M12 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS PRE-FILLED WITH LITHIUM BASED GREASE FOR POSITIVE TEMPERATURE WORKING RANGE
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS USE MECHANICAL Li-BASED GREASE FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- CONTACT RT Industrial Solutions, FOR OIL GRADE IF WORKING IN NEGATIVE TEMPERATURE
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY
- TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

DC OPERATED ELECTRIC WINCH



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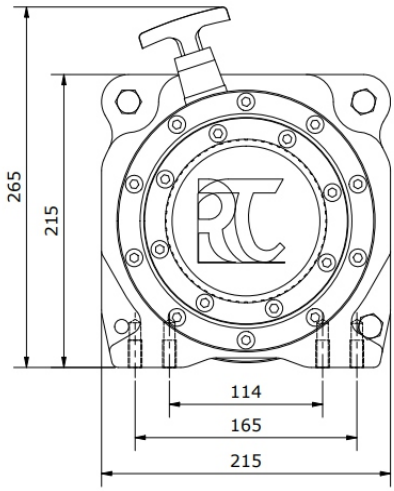
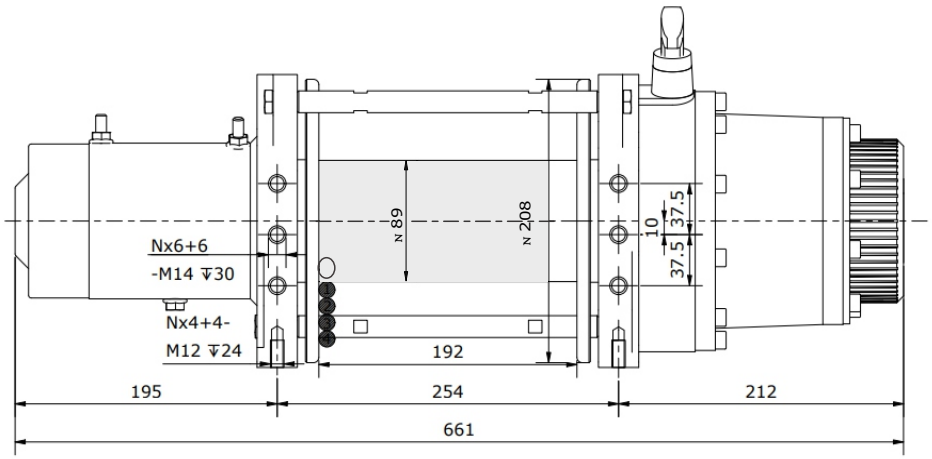




Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	8000	1.0	5
2	6500	1.2	10
3	5400	1.5	17
4	4650	1.7	25

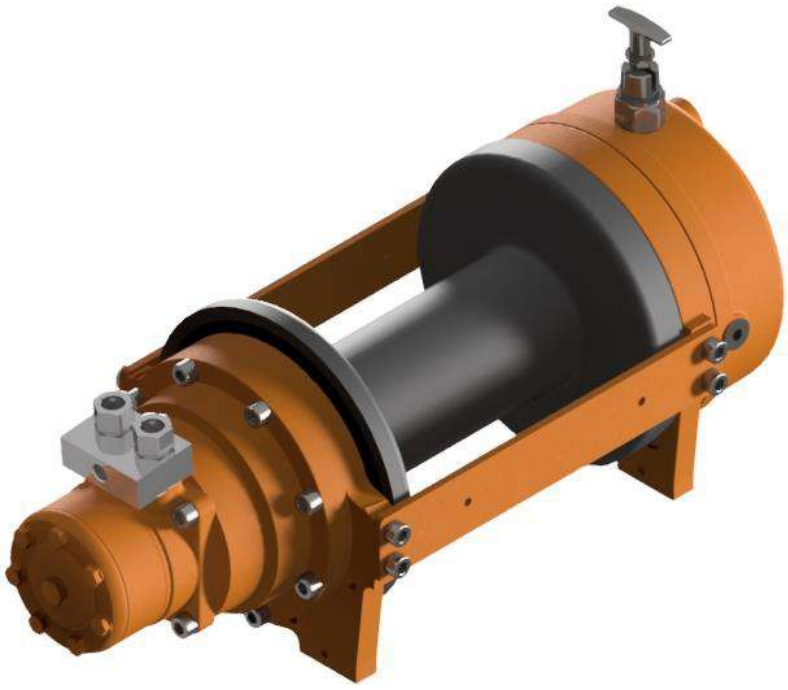
PARAMETER	SPECIFICATION
TYPE OF WINCH	ELECTRIC 24VDC
MOTOR POWER	6hp
STD ROPE DIAMETER	12mm
CURRENT DRAWN @ 2.7T LOAD	300A
GEAR RATIO	1:315
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
FREE SPOOLING MODE	MANUAL LEVER
WEIGHT OF WINCH	~30kgs

**FOR CONNECTIONS REFER INSTALLATION & MAINTENANCE MANUAL

ACCESSORIES OF WINCH

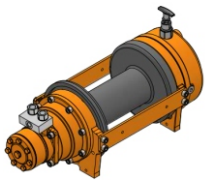
- MANUAL LEVER DRUM FREE SPOOLING
- CONE BRAKE FOR HOLDING THE LOAD
- WIRED REMOTE WITH 5m CABLE TO OPERATE THE WINCH
- HAWSE FAIRLEAD FOR SYNTHETIC WIRE ROPE
- JUNCTION BOX FOR ELECTRICAL PANEL
- BATTERY LEAD WITH QUICK COUPLER
- PRESSURE ROLLERS FOR KEEPING THE WIRE ROPE ON DRUM(OPTIONAL)
- ROPE END CONTROL TO GIVE SIGNAL FOR KEEPING 4 WRAPS ON DRUM(OPTIONAL)
- ROLLER FAIRLEAD FOR STEEL WIRE ROPE(OPTIONAL)
- SNATCH BLOCK(OPTIONAL)
- WIRE ROPE Dia 12mm(OPTIONAL)
- THIS WINCH IS NOT MEANT FOR MAN-HANDLING
- WINDING IS POSSIBLE IN BOTH CW & CCW DIRECTION BY CHANGING THE WIRE ROPE LAY
- USE Nx8 M12 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS PRE-FILLED WITH LITHIUM BASED GREASE FOR POSITIVE TEMPERATURE WORKING RANGE
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS USE MECHANICAL Li-BASED GREASE FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- CONTACT RT Industrial Solutions, FOR OIL GRADE IF WORKING IN NEGATIVE TEMPERATURE
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY
- TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC RECOVERY WINCHES



Line Pull Range: 1,000kgs to 15,000kgs

HYDRAULIC RECOVERY WINCH



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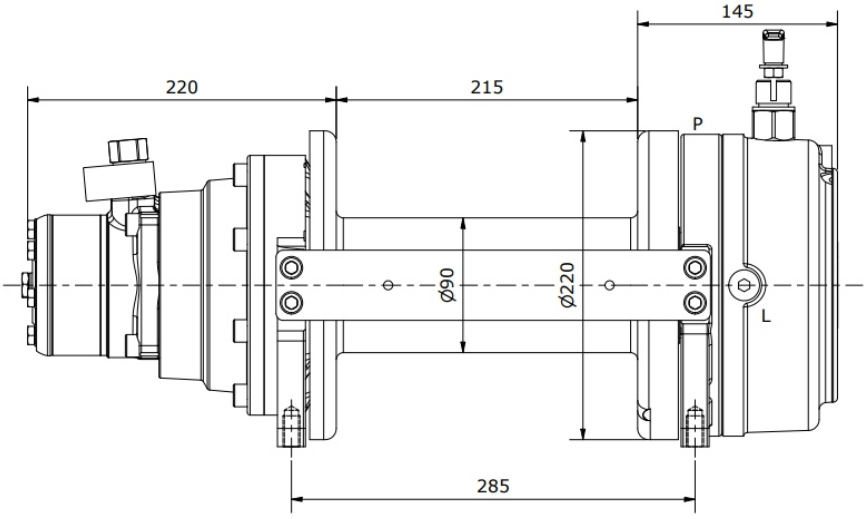
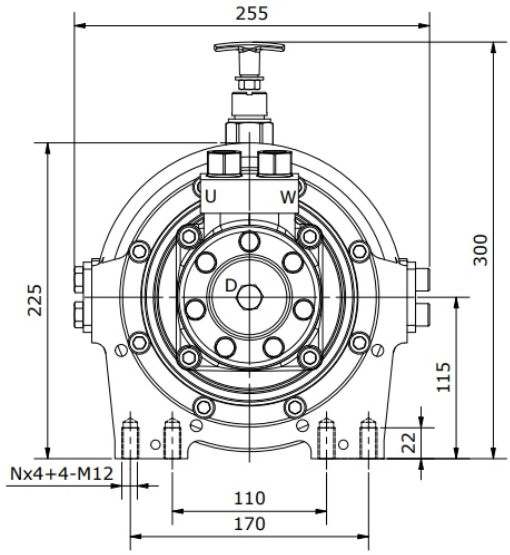




Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	2000	10	6
2	1650	12	14
3	1400	14	23
4	1250	16	33

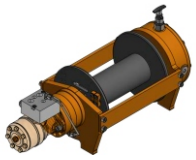
PORT DETAILS

PORT NAME	PORT SIZE
UN-WINDING PORT "U"	3/8"G (F)
WINDING PORT "W"	3/8"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD RECOVERY
MOTOR VOLUME(cc/rev)	160
MOTOR POWER(kW)	4
RATED FLOW(lpm)	40
STD ROPE DIAMETER(mm)	10
HYDRAULIC PRESSURE @ 2T LOAD(bar)	100
GEAR RATIO	1:5
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~55

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 30BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- USE Nx4+4 M12x1.75 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC RECOVERY WINCH



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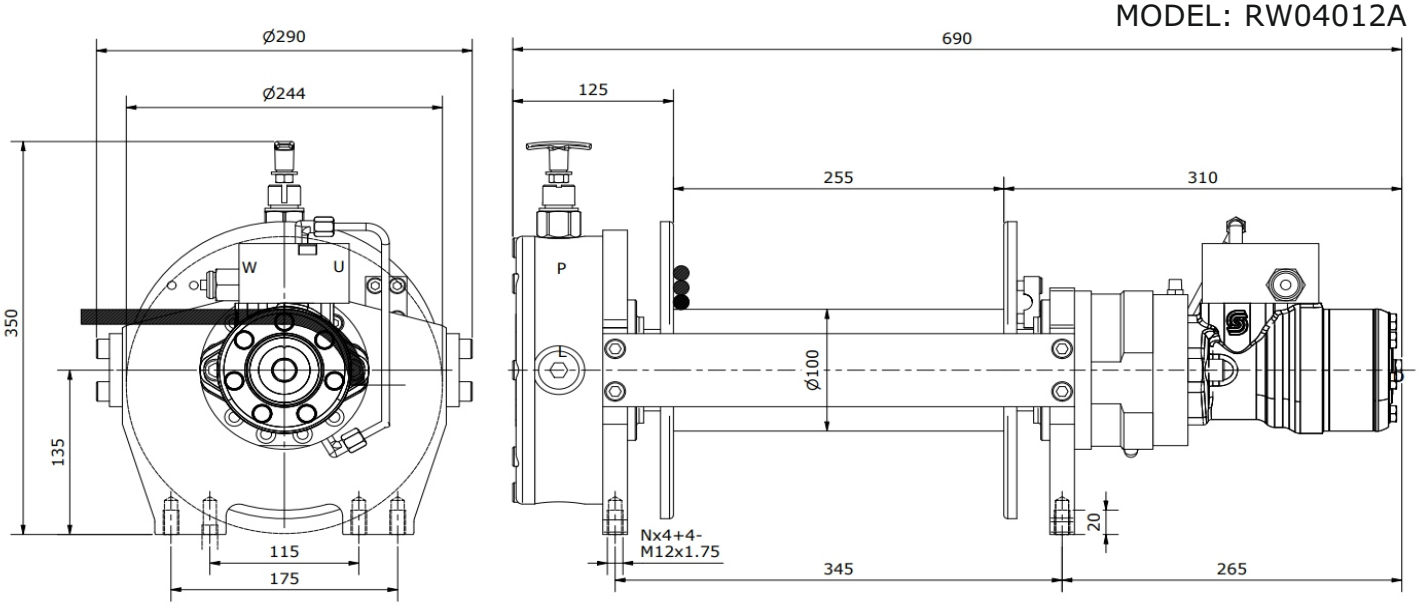


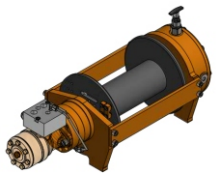
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	4000	13.5	7
2	3250	16.5	15
3	2800	19.0	26
4	2400	22.0	37

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD RECOVERY
MOTOR VOLUME(cc/rev)	200
MOTOR POWER(kW)	12
RATED FLOW(lpm)	40
STD ROPE DIAMETER(mm)	12
HYDRAULIC PRESSURE @ 2T LOAD(bar)	165
GEAR RATIO	1:5
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~100

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	1/2"G (F)
WINDING PORT "W"	1/2"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 30BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- USE Nx4+4 M12x1.75 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC RECOVERY WINCH



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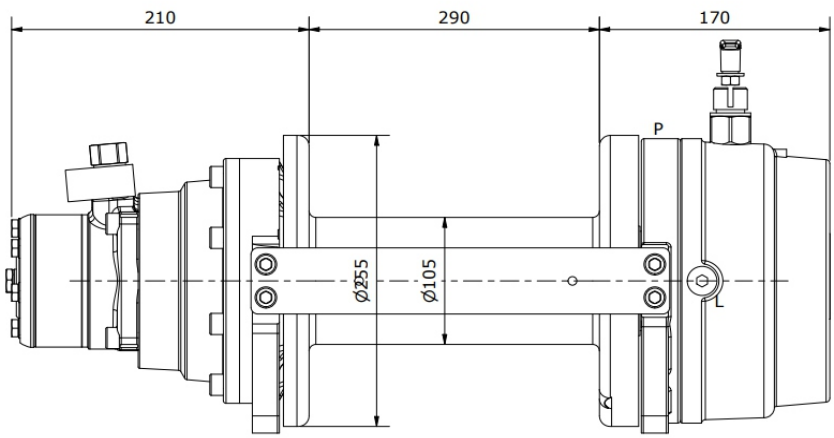
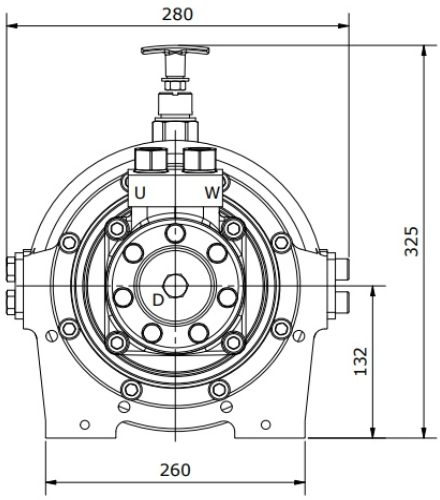




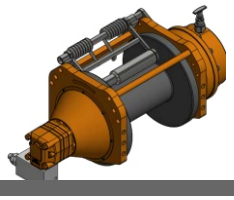
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	6000	6	7
2	4800	8	16
3	4000	9	27
4	3500	11	40

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD RECOVERY
MOTOR VOLUME(cc/rev)	125
MOTOR POWER(kW)	10
RATED FLOW(lpm)	40
STD ROPE DIAMETER(mm)	14
HYDRAULIC PRESSURE @ 2T LOAD(bar)	170
GEAR RATIO	1:15
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~100

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/8"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 30BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- USE WELDING ON CROSS-BEAM PLATE FOR FIXING THE WINCH WITH STRUCTURE
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC RECOVERY WINCH



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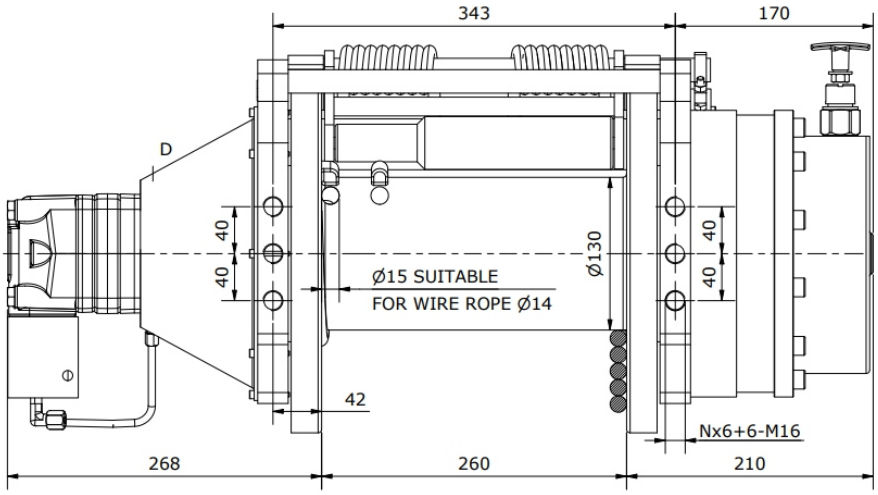
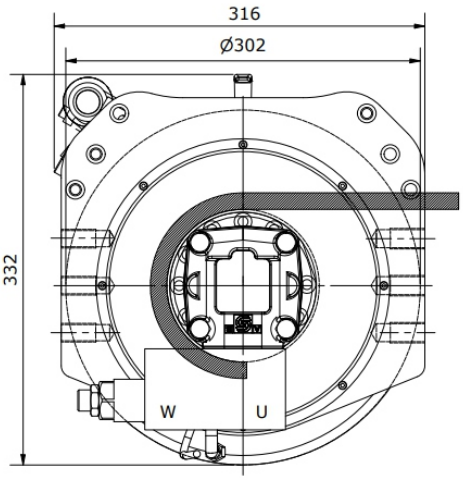




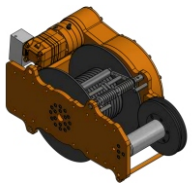
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	10000	7.5	8
2	8350	9	17
3	7200	10.5	28
4	6700	12	41
5	5600	13.5	55

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD RECOVERY
MOTOR VOLUME(cc/rev)	200
MOTOR POWER(kW)	16
RATED FLOW(lpm)	60
STD ROPE DIAMETER(mm)	16
HYDRAULIC PRESSURE @ 2T LOAD(bar)	180
GEAR RATIO	1:16.4
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~125

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 30BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- USE Nx6+6 M16 HEX BOLTS OF GRADE 12.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC RECOVERY WINCH



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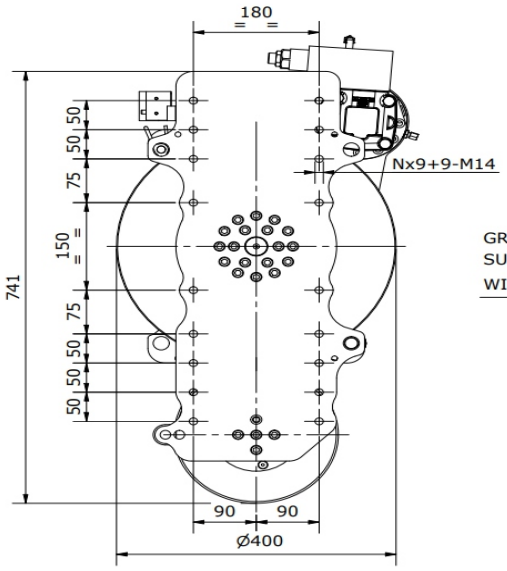

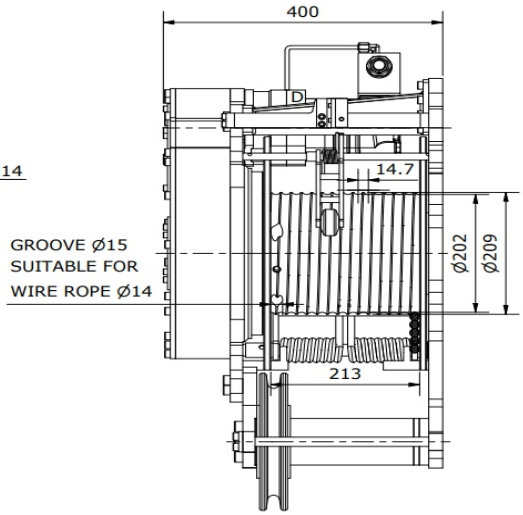

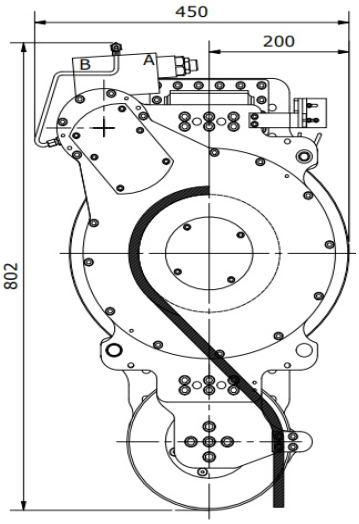

Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	10000	7	9
2	8850	8	20
3	7900	9	31
4	7200	10	43
5	6550	11	58

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD RECOVERY
MOTOR VOLUME(cc/rev)	200
MOTOR POWER(kW)	16
STD ROPE DIAMETER(mm)	16
HYDRAULIC PRESSURE @ 2T LOAD(bar)	180
GEAR RATIO	1:27
TYPE OF DRUM	GROOVED
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~180

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)
PNEUMATIC FREE SPOOL "X"	1/4"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 30BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- USE Nx9+9 M14 HEX BOLTS OF GRADE 12.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
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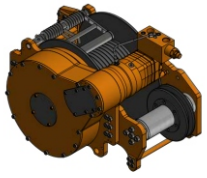
HYDRAULIC RECOVERY WINCH



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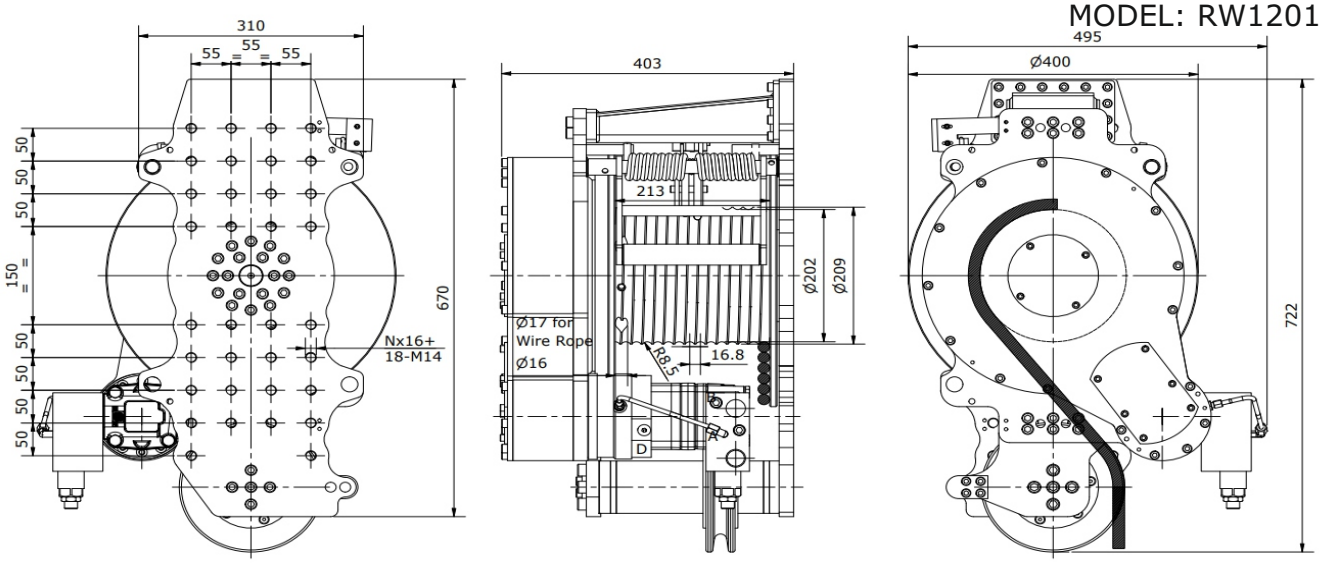


Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	12000	7	8
2	10450	8	17
3	9250	9	27
4	8300	10	39
5	7550	11	51
6	6900	12.5	65

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD RECOVERY
MOTOR VOLUME(cc/rev)	200
MOTOR POWER(kW)	20
RATED FLOW(lpm)	60
STD ROPE DIAMETER(mm)	16
HYDRAULIC PRESSURE @ 2T LOAD(bar)	205
GEAR RATIO	1:27
TYPE OF DRUM	GROOVED
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~190

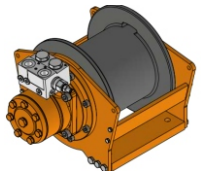
PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)
PNEUMATIC FREE SPOOL "X"	1/4"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 30BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- USE Nx9+9 M14 HEX BOLTS OF GRADE 12.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC HOIST WINCHES

Line Pull Range: 500kgs to 10,000kgs

HYDRAULIC HOIST



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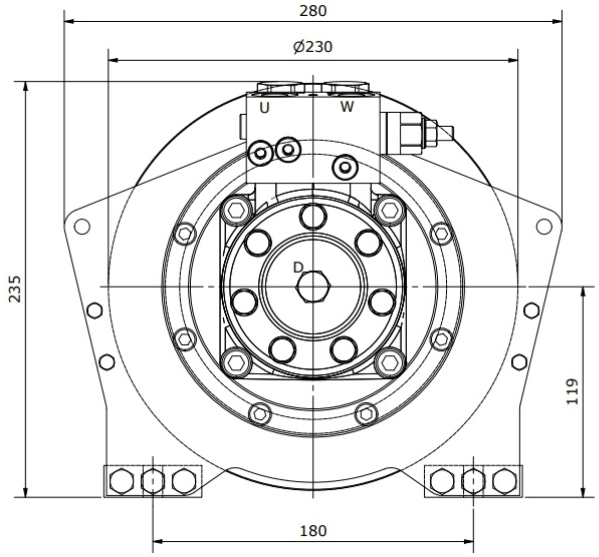
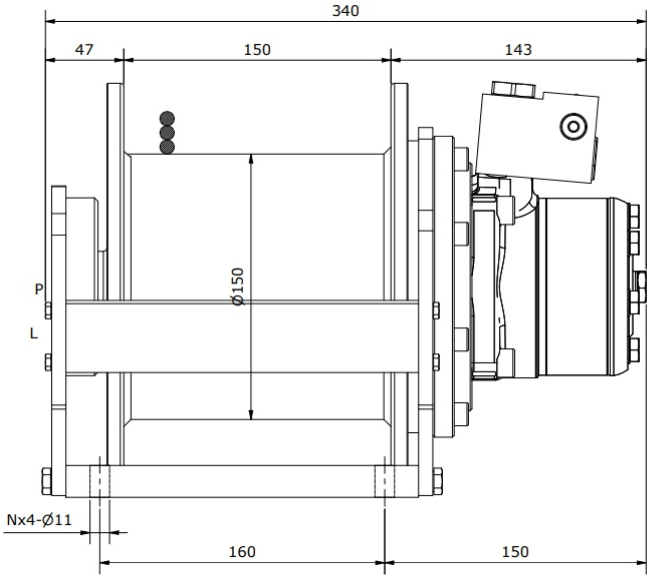




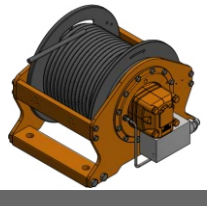
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	500	41.7	8
2	450	46.0	11
3	400	50.0	29

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	1/2"G (F)
WINDING PORT "W"	1/2"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD HOIST
MOTOR POWER(kW)	3.5
OPTIONAL GROOVE ON DRUM	PARALLEL/PARALLEL GROOVE
STD ROPE DIAMETER(mm)	8
HYDRAULIC PRESSURE @ 2T LOAD(bar)	100
GEAR RATIO	1:5
TYPE OF DRUM	SMOOTH DRUM
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~45

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 15BAR
- SET RELIEF VALVE AT 25BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- STD DRUM IS HELICAL GROOVE BUT SMOOTH OR PARALLEL GROOVE DRUM ALSO CAN BE SUPPLIED
- USE Nx4 M10 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC HOIST



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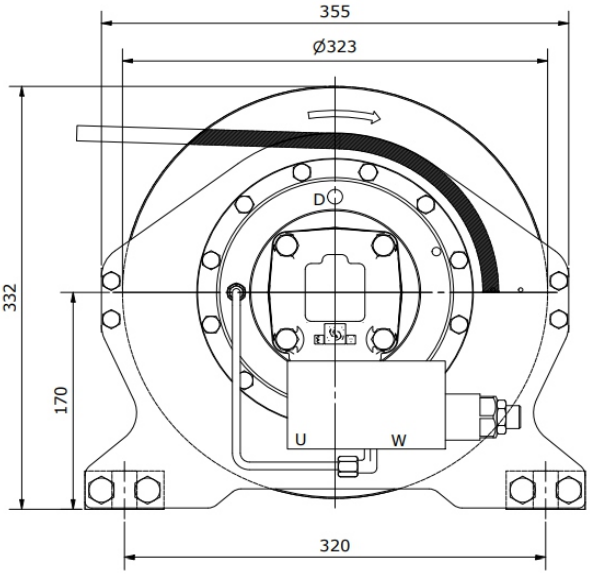
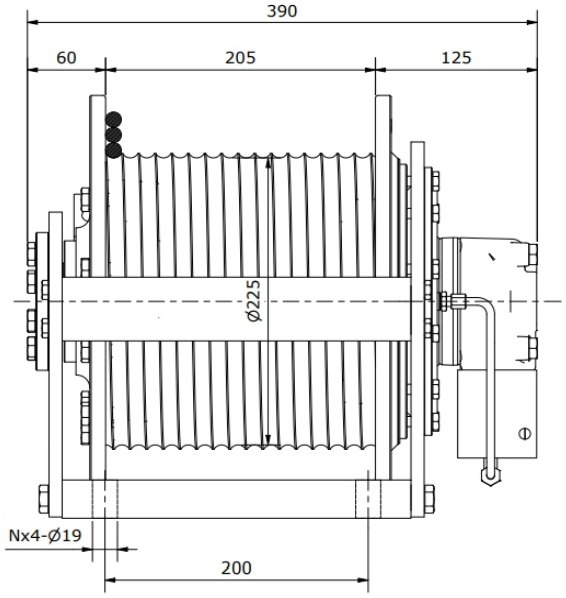




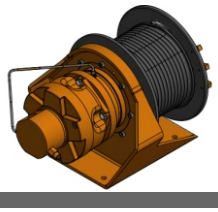
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	2000	23	11
2	1850	25.5	23
3	1650	28	37

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYDRAULIC HOIST
MOTOR POWER(kW)	10
OPTIONAL GROOVE ON DRUM	PARALLEL/SMOOTH
STD ROPE DIAMETER(mm)	12
HYDRAULIC PRESSURE @ 2T LOAD(bar)	150
GEAR RATIO	1:12
TYPE OF DRUM	HELICAL GROOVE
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~120

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 35BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- STD DRUM IS HELICAL GROOVE BUT SMOOTH OR PARALLEL GROOVE DRUM ALSO CAN BE SUPPLIED
- USE Nx4 M18 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC HOIST



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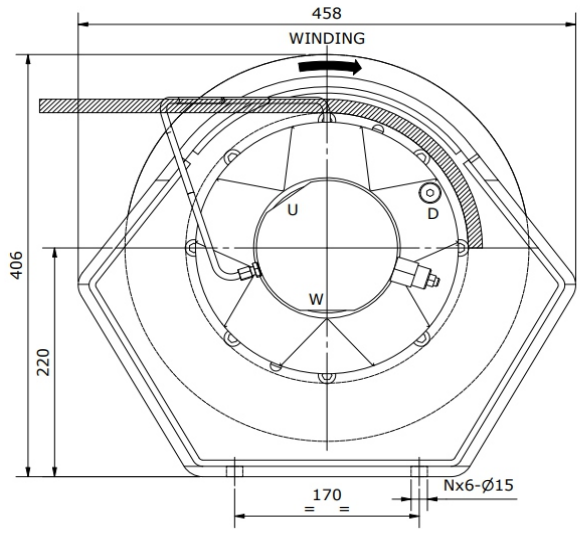
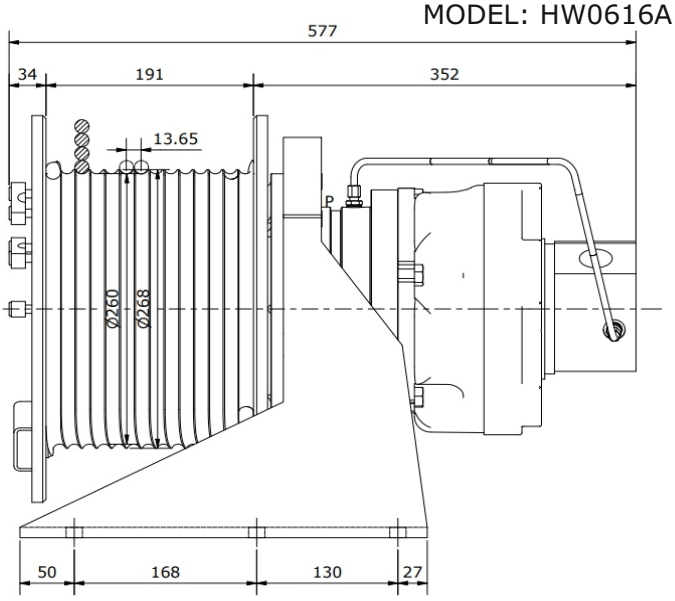




Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	2500	51.8	11
2	2200	56.7	23
3	2100	61.7	36
4	1900	66.7	50

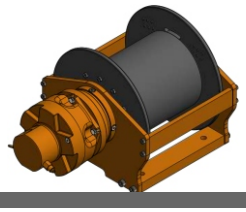
PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD HOIST
MOTOR POWER(kW)	26
HYDRAULIC PRESSURE @ 2.5T LOAD(bar)	190
STD ROPE DIAMETER(mm)	13
TYPE OF DRUM	HELICAL GROOVED
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~140
GEAR RATIO	1:7

PORT DETAILS

PORT NAME	PORT SIZE
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- 4th LAYER OF WIRE ROPE DOESN'T COMPLY RULE EN14492-1 2007
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 35BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- STD DRUM IS HELICAL GROOVE BUT SMOOTH OR PARALLEL GROOVE DRUM ALSO CAN BE SUPPLIED
- USE Nx6 M14 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC HOIST



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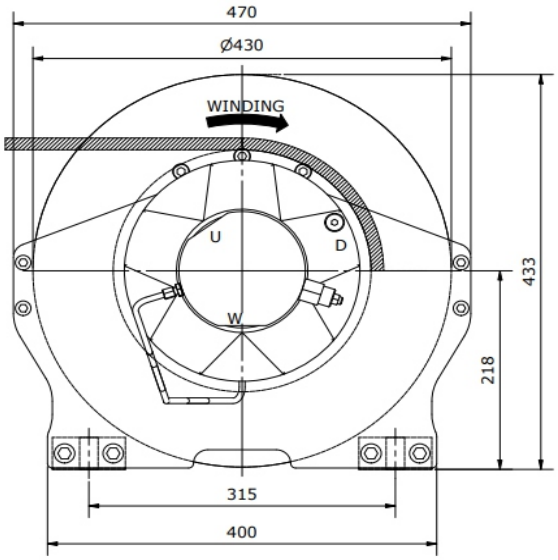
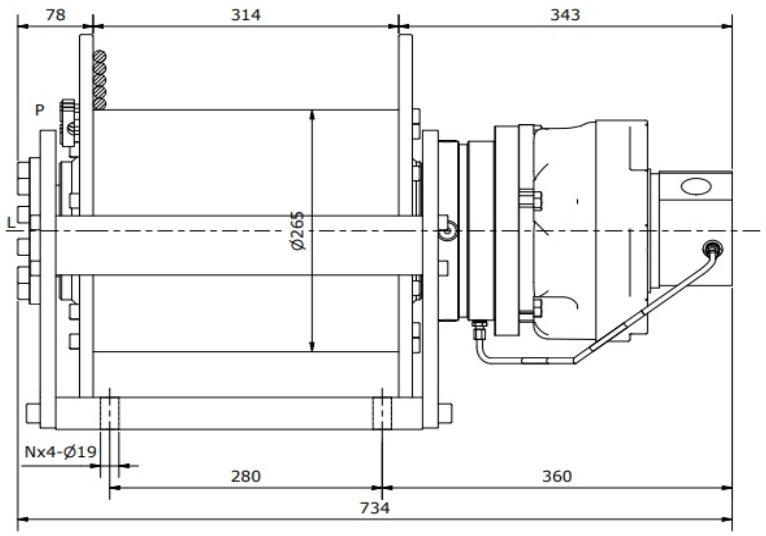




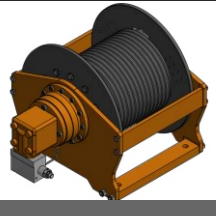
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	4200	32.0	20
2	3800	35.0	42
3	3500	38.0	66
4	3250	41.0	92
5	3050	44.0	120

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD HOIST
MOTOR POWER(kW)	30
RATED FLOW(lpm)	90
GEAR RATIO	1:12
HYDRAULIC PRESSURE @ 4T LOAD(bar)	200
STD ROPE DIAMETER(mm)	13
TYPE OF DRUM	SMOOTH
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~170

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/
- 1MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 35BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5⁰ TO 1.5⁰ ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- STD DRUM IS HELICAL GROOVE BUT SMOOTH OR PARALLEL GROOVE DRUM ALSO CAN BE SUPPLIED
- USE Nx4 M18 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20⁰C
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC HOIST



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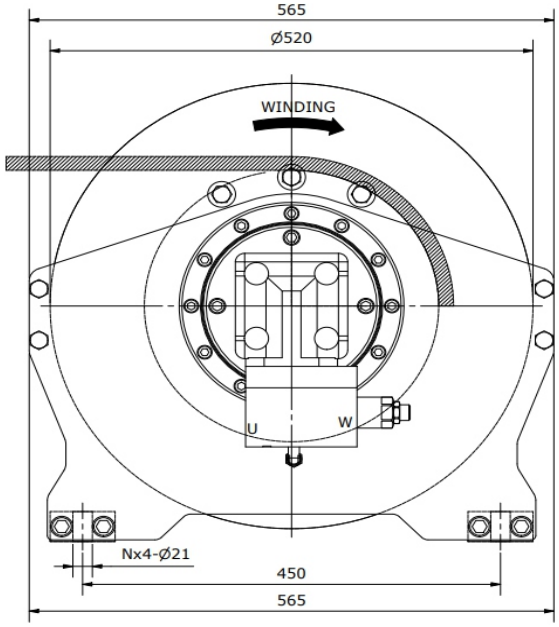
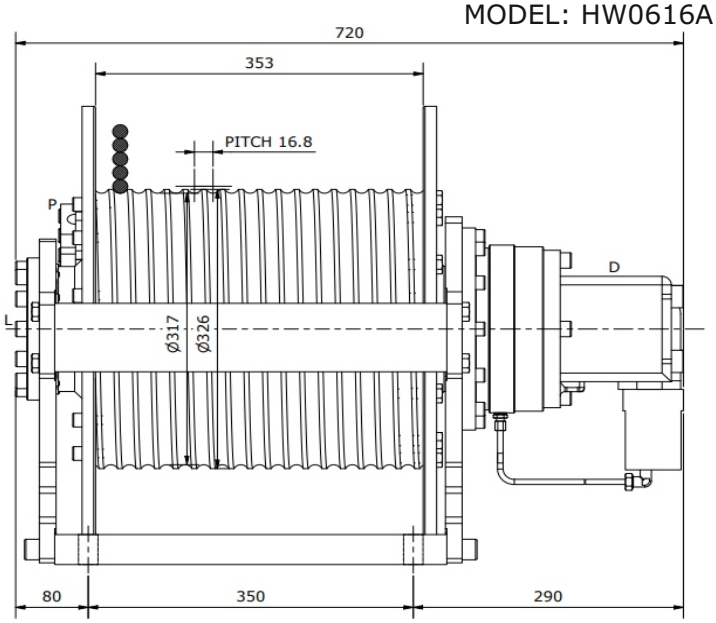




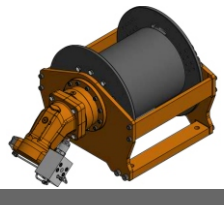
Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	6000	27.9	20
2	5450	30.5	43
3	5000	33.2	68
4	4650	35.9	94
5	4300	38.6	125

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYD HOIST
MOTOR POWER(kW)	36
RATED FLOW(lpm)	90
GEAR RATIO	1:21
HYDRAULIC PRESSURE @ 6T LOAD(bar)	190
STD ROPE DIAMETER(mm)	16
TYPE OF DRUM	HELICAL GROOVED
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~220

PORT DETAILS	
PORT NAME	**PORT SIZE**
UN-WINDING PORT "U"	3/4"G (F)
WINDING PORT "W"	3/4"G (F)
DRAIN PORT "D"	1/4"G (F)
OIL LEVEL PORT "L"	3/8"G (F)
GEARBOX LUBRICATION PORT "P"	3/8"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 35BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- STD DRUM IS HELICAL GROOVE BUT SMOOTH OR PARALLEL GROOVE DRUM ALSO CAN BE SUPPLIED
- USE Nx4 M18 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT
- RT Industrial Solutions RESERVE THE RIGHT TO CHANGE ANY TECHNICAL SPECIFICATIONS WITHOUT PRIOR INFORMATION

HYDRAULIC HOIST



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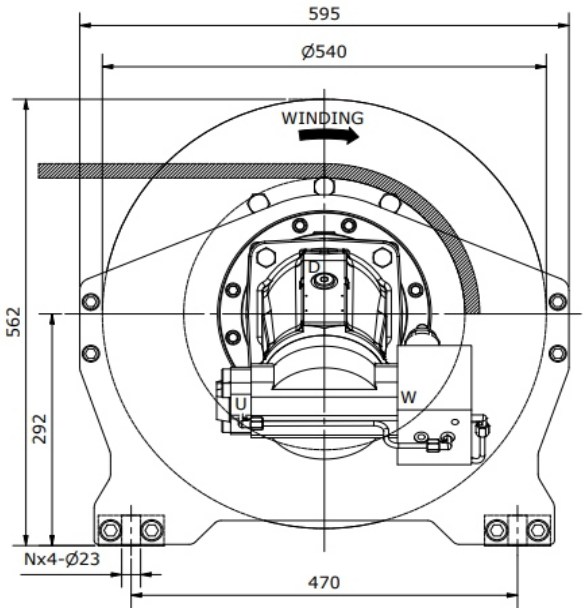
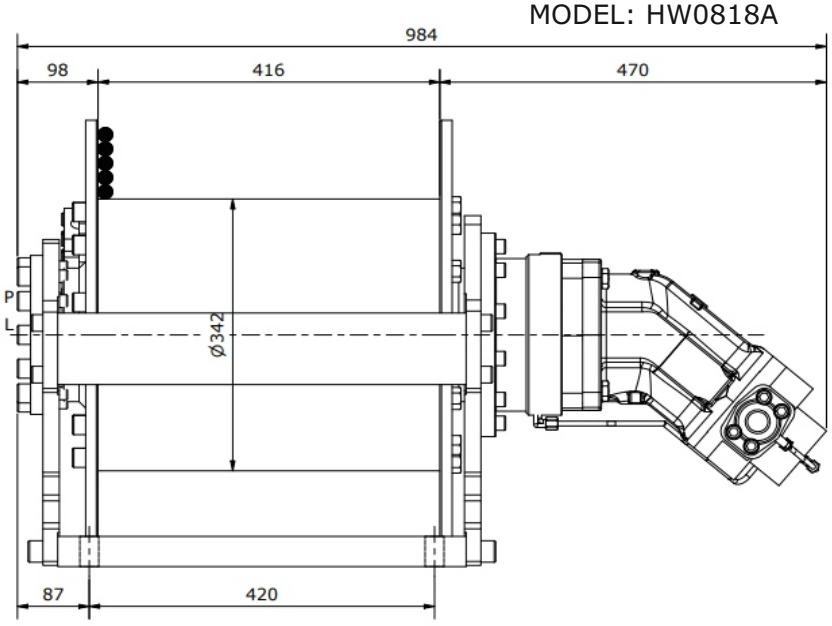




Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	8000	34.5	25
2	7250	38.0	53
3	6650	41.5	84
4	6150	45.0	117
5	5700	48.5	153

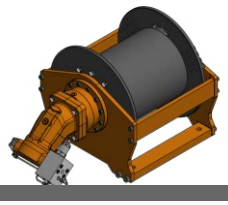
PARAMETER	SPECIFICATION
TYPE OF WINCH	HYDRAULIC HOIST
MOTOR POWER(kW)	62
RATED FLOW(lpm)	180
GEAR RATIO	1:52
HYDRAULIC PRESSURE @ 8T LOAD(bar)	220
STD ROPE DIAMETER(mm)	18
TYPE OF DRUM	SMOOTH DRUM
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~250

PORT DETAILS

PORT NAME	PORT SIZE
UN-WINDING PORT "U"	1"G (F)
WINDING PORT "W"	1"G (F)
DRAIN PORT "D"	3/8"G (F)
OIL LEVEL PORT "L"	1/2"G (F)
GEARBOX LUBRICATION PORT "P"	1/2"G (F)

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
- SET RELIEF VALVE AT 35BAR ABOVE THE MAX HOISTING PRESSURE
- ALWAYS USE MOTOR SPOOL IN DIRECTIONAL CONTROL VALVE TO OPERATE THE WINCH
- RECOMMENDED FLEET ANGLE FOR PROPER WIRE ROPE WINDINGS IS 0.5º TO 1.5º ON BOTH SIDES
- WINDING OF WIRE ROPE IS CW ROTATION OF DRUM(VIEWED FROM MOTOR SIDE)
- STD DRUM IS HELICAL GROOVE BUT SMOOTH OR PARALLEL GROOVE DRUM ALSO CAN BE SUPPLIED
- USE Nx4 M22 HEX BOLTS OF GRADE 10.9 FOR FIXING THE WINCH
- WINCH IS WITH OIL BASED LUBRICATION AND NEED TO CHANGE OIL AFTER 100hrs OF WORKING
- FOR WORKING IN NEGATIVE TEMPERATURE, ALWAYS PRE-HEAT THE GEARBOX AND HYDRAULIC OIL
- CONTACT RT Industrial Solutions, FOR WORKING TEMPERATURE BELOW -20ºC
- ALWAYS KEEP 4WRAPS OF WIRE ROPE ON DRUM FOR SAFETY PURPOSE
- ALWAYS CONNECT DRAIN LINE OF MOTOR TO TANK TO KEEP THE HYDRAULIC MOTOR EFFICIENT
- ALWAYS USE MECHANICAL GEAR OIL OF GRADE VG60 TO VG90 FOR TOP-UP OR COMPLETE FILLING
- ALWAYS USE A MINIMUM OF SAFETY FACTOR ON WIRE ROPE AS PER APPLICATION REQUIREMENT

HYDRAULIC HOIST



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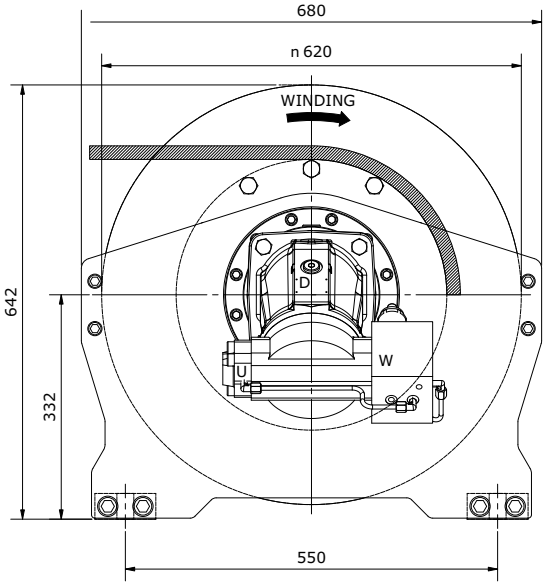

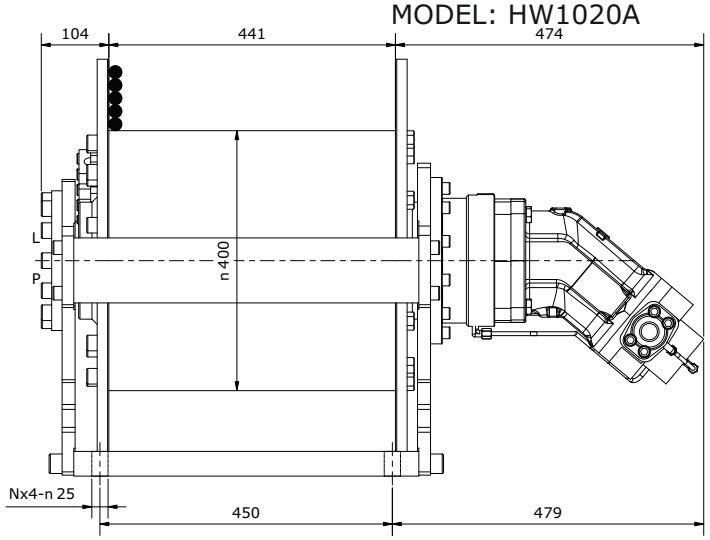

Rope Layer	Line Pull (KGS)	Line Speed (m/min)	Rope Capacity (m)
1	10000	28.0	27
2	9100	30.5	56
3	8400	33.5	88
4	7750	36.0	123
5	7200	39.0	160

PORT DETAILS

PORT NAME	PORT SIZE
UN-WINDING PORT "U"	1"G (F)
WINDING PORT "W"	1"G (F)
DRAIN PORT "D"	3/8"G (F)
OIL LEVEL PORT "L"	1/2"G (F)
GEARBOX LUBRICATION PORT "P"	1/2"G (F)

PARAMETER	SPECIFICATION
TYPE OF WINCH	HYDRAULIC HOIST
MOTOR POWER(kW)	65kW
RATED FLOW(lpm)	180
STD ROPE DIAMETER(mm)	20
HYDRAULIC PRESSURE @ 8T LOAD(bar)	220
GEAR RATIO	1:53
TYPE OF DRUM	SMOOTH DRUM
BRAKE	NEGATIVE TYPE
WEIGHT OF WINCH(kgs)	~300

- **THIS WINCH IS NOT MEANT FOR MAN-HANDLING**
- HYDRAULIC WINCH COMPLY THE RULE OF UNI4301/1
- MAX ALLOWABLE BACK PRESSURE IN WINCH IS 5BAR
- BRAKE FULL OPENING PRESSURE IS 30BAR
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