Brevini® Winches
Hoisting and Recovery Winches

Hoisting solutions
Dana provides a wide range of Brevini® hoisting and recovery winches. The integrated Brevini® motor makes the winch very compact. Performance and safety are ensured by a wide range of electronic controls. The flexible range architecture - several models available, accessories, additional features - allows to create the perfect configuration to satisfy different Customer needs.
Presentazione

Gli argani Dana illustrati in questo catalogo sono conformi alla direttiva macchine codificata come 2006/42/CE.

In questa situazione legislativa, abbiamo preparato questo Catalogo della gamma prodotti Argani Brevini®: un partner affidabile nella risoluzione dei problemi tecnici e applicativi, nel pieno rispetto delle Norme europee ed extraeuropee che regolano il funzionamento degli Argani.

La gamma prodotti argani Brevini® utilizza sistemi epicycloidali (riduttori di velocità e moltiplicatori di coppia), con freni lamellari negativi a comando d’apertura idraulico, assieme a varie tipologie di motorizzazioni a fluido idraulico, sia di tipo lento a sistema orbitale che veloce con pistoni assiali. Queste motorizzazioni, asservite a sistemi di valvole per il controllo delle velocità e delle pressioni, trasformano gli Argani Dana in vere e proprie macchine: prodotti che garantiscono elasticità d’esercizio, grande affidabilità e sicurezza, sia nelle versioni standard che speciali.

Semplicità d’installazione e d’utilizzo, economicità e ingombri contenuti sono i requisiti della gamma di Argani che Dana (con il marchio Brevini®) propone al mercato, suddivisi in due famiglie; Argani per il sollevamento dei carichi e Argani per il recupero o traino dei carichi.

Overview

Dana winches shown on this catalogue are designed according to Machinery Directive, codified as 2006/42/EC

In this legislative situation, we have prepared this Catalogue of the range of products Winches: a reliable partner in resolving technical and application problems, in full compliance with the European and non-European standards governing the operation of Winches.

The Brevini® Winches product range uses planetary gear systems (speed reducers and torque multipliers), with hydraulically powered negative lamellar brakes, together with various types of hydraulic fluid drives, both the slow orbital system type and the fast axial piston type. These drives, interlocked with valve systems to control speed and pressure, transform the Winches made by Dana into real machines: products that ensure flexible operation, great reliability and safety, for both the standard and special versions.

Easy to install and use, great value and compact size are the requirements of the range of Winches that Dana (with the Brevini® brand) offers the market, subdivided into two families: Winches for hoisting loads and Winches for recovering or towing loads.
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### Tabella N° 1

<table>
<thead>
<tr>
<th>Tipo di gru</th>
<th>Modo d’uso</th>
<th>Tipo di meccanismo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gru di sollevamento</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sollevamento</td>
</tr>
<tr>
<td>Ponte di carico</td>
<td>Gancio</td>
<td>M5 - M6</td>
</tr>
<tr>
<td>Gru per officina</td>
<td>Benna o elettromagnete</td>
<td>M7 - M8</td>
</tr>
<tr>
<td>Gru a carroponte, gru da fonderia, gru per sfridi</td>
<td>Benna o elettromagnete</td>
<td>M8</td>
</tr>
<tr>
<td>Gru a ponte da trasbordo, gru a ponte per container</td>
<td>a) Gancio o spreader</td>
<td>M6 - M7</td>
</tr>
<tr>
<td>Altre gru a ponte (con gru a benna e/o girevoli a braccio)</td>
<td>b) Gancio</td>
<td>M4 - M5</td>
</tr>
<tr>
<td>Gru a ponte da trasbordo, gru a ponte (con gru a benna e/o girevoli a braccio)</td>
<td>Benna o elettromagnete</td>
<td>M8</td>
</tr>
<tr>
<td>Gru per bacino di carenaggio, gru a braccio per cantiere navale gru a braccio da disarmo</td>
<td>Gancio</td>
<td>M5 - M6</td>
</tr>
<tr>
<td>Gru da banchina (girevoli, a cavalletto, ecc.), gru galleggianti e picchi di carico</td>
<td>Gancio</td>
<td>M6 - M7</td>
</tr>
<tr>
<td>Gru galleggianti e picchi di carico per carichi extra pesanti (generalmente superiori a 100 t)</td>
<td>Gancio</td>
<td>M3 - M4</td>
</tr>
<tr>
<td>Gru di bordo</td>
<td>Gancio</td>
<td>M4</td>
</tr>
<tr>
<td>Gru a torre per edilizia</td>
<td>Benna o elettromagnete</td>
<td>M5 - M6</td>
</tr>
<tr>
<td>Picchi di carico</td>
<td>M2 - M3</td>
<td></td>
</tr>
<tr>
<td>Gru ferroviarie (gru su vagoni ferroviari)</td>
<td>M3 - M4</td>
<td></td>
</tr>
<tr>
<td>Gru semoventi</td>
<td>Gancio</td>
<td>M3 - M4</td>
</tr>
</tbody>
</table>

### Table N° 1

<table>
<thead>
<tr>
<th>Type of crane</th>
<th>Type of duty</th>
<th>Type of mechanism</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erection cranes</td>
<td>Hoisting</td>
<td>M2 - M3</td>
</tr>
<tr>
<td>Loading bridge cranes</td>
<td>Hook duty</td>
<td>M5 - M6</td>
</tr>
<tr>
<td>Workshop cranes</td>
<td>Grab or magnet duty</td>
<td>M7 - M8</td>
</tr>
<tr>
<td>Overhead travelling cranes, pig-breaking cranes, scrapyard cranes</td>
<td>Grab or magnet duty</td>
<td>M8</td>
</tr>
<tr>
<td>Bridge cranes for unloading, bridge cranes for containers</td>
<td>a) Hook or spreader duty</td>
<td>M6 - M7</td>
</tr>
<tr>
<td>Other bridge cranes (with crab, and/or slewing jib)</td>
<td>b) Hook duty</td>
<td>M4 - M5</td>
</tr>
<tr>
<td>Bridge cranes for unloading, bridge cranes (with crab, and/or slewing jib)</td>
<td>Grab or magnet duty</td>
<td>M8</td>
</tr>
<tr>
<td>Dry dock cranes, shipyard jib cranes, jib ceanes for dismantling</td>
<td>Hook duty</td>
<td>M5 - M6</td>
</tr>
<tr>
<td>Dockside cranes (slewing, on gantry, etc.), floating cranes and pontoon derricks</td>
<td>Hook duty</td>
<td>M6 - M7</td>
</tr>
<tr>
<td>Floating cranes and pontoon derricks for very heavy loads (usually greater than 100 t)</td>
<td>Hook duty</td>
<td>M3 - M4</td>
</tr>
<tr>
<td>Deck cranes</td>
<td>Hook duty</td>
<td>M4</td>
</tr>
<tr>
<td>Tower cranes for building</td>
<td>Grab or magnet duty</td>
<td>M5 - M6</td>
</tr>
<tr>
<td>Derricks</td>
<td>M2 - M3</td>
<td></td>
</tr>
<tr>
<td>Railway cranes allowed to run in a train</td>
<td>M3 - M4</td>
<td></td>
</tr>
<tr>
<td>Mobile cranes</td>
<td>Hook duty</td>
<td>M3 - M4</td>
</tr>
</tbody>
</table>
### Tabella N°2

#### CLASSE DI UTILIZZAZIONE / CLASSES OF UTILIZATION

<table>
<thead>
<tr>
<th>Classi di utilizzo (Tabelle T.2.1.3.2.)</th>
<th>Classes of utilisation (Table T.2.1.3.4.)</th>
<th>T2</th>
<th>T3</th>
<th>T4</th>
<th>T5</th>
<th>T6</th>
<th>T7</th>
<th>T8</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 0 &gt; Km 0,125</td>
<td></td>
<td>M2</td>
<td>M3</td>
<td>M4</td>
<td>M5</td>
<td>M6</td>
<td>M7</td>
<td></td>
</tr>
<tr>
<td>L2 0,125 &gt; Km 0,250</td>
<td></td>
<td>M2</td>
<td>M3</td>
<td>M4</td>
<td>M5</td>
<td>M6</td>
<td>M7</td>
<td>M8</td>
</tr>
<tr>
<td>L3 0,250 &gt; Km 0,500</td>
<td></td>
<td>M3</td>
<td>M4</td>
<td>M5</td>
<td>M6</td>
<td>M7</td>
<td>M8</td>
<td></td>
</tr>
<tr>
<td>L4 0,500 &gt; Km 1000</td>
<td></td>
<td>M4</td>
<td>M5</td>
<td>M6</td>
<td>M7</td>
<td>M8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
DESCRIZIONE ARGANI
DESCRIPTION OF WINCHES

1  2 / 3 / 4  5  6 / 7 / 8  9

Famiglia
Family size

Posizione del riduttore
Gearbox position

Montaggio a piedi
Foot mounted

Configurazione tamburo e diametro della fune
Drum configuration and rope diameter

Rotazione del tamburo
Drum rotation

1

BWF
050
090

EGO
025
045
065

BWT
1000
2000
3000

1000
1500
2000
3000
6000

I Interno
Internal

E Esterno
External

K Capstan
Capstan

P

0,1
0,2
0,3
...
1,0
...
45

Liscio
Smooth

Scanalato con elica sinistra
Helical left grooved

Scanalato con elica destra
Helical right grooved

Scanalatura con elica sinistra + destra
Helical left + right grooved

Scanalatura con elica destra + sinistra
Helical right + left grooved

Scanalatura stile Lebus sinistra
Lebus style left grooved

Scanalatura stile Lebus destra
Lebus style right grooved

Scanalatura stile Lebus sinistra + destra
Lebus style left + right grooved

Scanalatura stile Lebus destra + sinistra
Lebus style right + left grooved

Scanalatura speciale
Special grooved

Segno orario
Clock wise

01

Antiorario
Counter-clock wise

02

Senza o con doppia valvola Overcenter OVC, senza motore,
non definito (solo per tamburi lisci con più di una fune)
None or double Overcenter valve OVC*, no motor,
not defined (only for smooth drum grooved drum with more than one thread)

00
### DESCRIZIONE ARGANI
#### DESCRIPTION OF WINCHES

#### 6
<table>
<thead>
<tr>
<th>Disinnesto</th>
<th>DM</th>
<th>DP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disengagement</td>
<td>Manuale / Manual</td>
<td>Idraulico - Pneumatico / Hydraulic - Pneumatic</td>
</tr>
</tbody>
</table>

#### 7
<table>
<thead>
<tr>
<th>Rapporto / Ratio</th>
<th>Decimale / Decimals</th>
<th>Esempio / Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;10</td>
<td>X,X</td>
<td>5,1</td>
</tr>
<tr>
<td>&lt;200</td>
<td>XXX,X</td>
<td>110,3</td>
</tr>
<tr>
<td>&gt;200</td>
<td>XXX</td>
<td>250</td>
</tr>
</tbody>
</table>

#### 8
### Flangia ingresso motore - posizione del motore
Adaptor flange - motor position

<table>
<thead>
<tr>
<th>In caso di</th>
<th>Scrivere / To be written</th>
<th>Esempio / Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flangia di adattamento Adaptor flange</td>
<td>611xxxxxxx 130xxx</td>
<td>.../61101801480-...</td>
</tr>
<tr>
<td>Ingresso universale Universal input</td>
<td>00</td>
<td>.../00-...</td>
</tr>
<tr>
<td>Motore Motor</td>
<td>Tipo di motore Cilindrata_posizione Motor type Displacement_position</td>
<td>H4VA19_270</td>
</tr>
</tbody>
</table>

#### 9
### Accessori
Accessories

### PRESSAFUNE
PRESSURE ROLLER

<table>
<thead>
<tr>
<th>Assente / Not present</th>
<th>P</th>
<th>Presente / Present</th>
</tr>
</thead>
</table>

### RULLIERA
FAIR LEAD (ROLLER KIT)

<table>
<thead>
<tr>
<th>Assente / Not present</th>
<th>F</th>
<th>Presente / Present</th>
</tr>
</thead>
</table>

### SPOOLING DEVICE
SPOOLING DEVICE

<table>
<thead>
<tr>
<th>Assente / Not present</th>
<th>S</th>
<th>Presente / Present</th>
</tr>
</thead>
</table>

### CONTROLLI / CONTROLS

<table>
<thead>
<tr>
<th>Assente / Not present</th>
<th>TL</th>
<th>TD</th>
<th>TA</th>
<th>EN</th>
<th>EL</th>
<th>HL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limitatore di coppia / Torque limiter sensor</td>
<td>Trasduttore di deformazione / Deformation trasducer</td>
<td>Braccio di reazione / Torque arm</td>
<td>Encoder / Encoder</td>
<td>Sistema di controllo elettrico / Electric control system</td>
<td>Sistema di controllo idraulico / Hydraulic Limit Switch</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FUNE ROPE</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assente / Not present</td>
<td>Presente / Present</td>
</tr>
</tbody>
</table>

### Struttura
Structure

<table>
<thead>
<tr>
<th>Altro Other</th>
<th>SQ</th>
<th>GD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quadro Square</td>
<td>Senza struttura No structure / geardrum</td>
<td></td>
</tr>
</tbody>
</table>

Esempio di designazione
Model code example

BWF1000-I/1,1/SD8-01/32,5/H4VA19_270-P-R (MinDLA--BT130--SQ) C3H RAL9005_50
**Serie “BWF”**

Argani di costruzione molto compatta, con motorizzazione idraulica a pistoni assiali, completa di valvole di controllo del carico in discesa e del comando apertura freno negativo incorporate all’interno del coperchio di chiusura del motore stesso. All’interno del tamburo avvolgi fune hanno sede gli stadi di riduzioni epicicloidalni Brevini® incorporati al fusello.

Le strutture di supporto possono variare da semplici lamiere pantografate a innovative fusioni di forma quadrata. Hanno il vantaggio di non avere nessun ingombro radiale nella zona del tamburo di uscita della fune, per tutta la rotazione di 360°. Questi argani si prestano alle più svariate applicazioni con spazi limitati; soddisfano le esigenze di tiri diretti e velocità fune importanti in ingombri assiali ridotti, come ad esempio gru retro cabina per autocarri o applicazioni analoghe. Sono previsti con sistema di controllo della capacità minima della fune sul tamburo, a comando idraulico o elettrico. Prestazioni che vanno dal tiro diretto al primo strato di 1150 daN del “BWF1000” ai 7500 daN del “BWF6000”.

**“BWF” Series**

Winches of highly compact construction, hydraulic axial piston motor drive, complete with control valves for the load on lowering and for the negative brake opening control that are built into the cover closing the motor. Inside the winch is installed the Brevini® planetary gear reducer incorporated into the spindle.

The support structures can vary from simple pantographed metal sheet to innovative square shaped castings. They have the advantage of having no radial encumbrance in the zone of the rope outfeed drum, for the entire rotation of 360°. These winches are suitable to the most varied applications with limited spaces; they satisfy the requirements of direct pull and high rope speed, with quite compact axial dimensions, for example crane behind cab for trucks or similar applications. Some models are equipped with a system to control the minimum capacity of the rope on the drum, with hydraulic or electric control. Performance ranging from a first layer direct pull of 1150 daN for the “BWF1000” to 7500 daN for the “BWF6000”.
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

---

The MBL of the Rope must be verified according to the requested Safety Factors

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

---

**BWF1000**

Previous name: BWF1000
distinctive features: Round frame
motor displacement: 19 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

---

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>Storage length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td></td>
<td>1150</td>
<td>1070</td>
<td>1000</td>
<td>940</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td></td>
<td>40</td>
<td>43</td>
<td>47</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td></td>
<td>11</td>
<td>23</td>
<td>37</td>
<td>50</td>
<td>66</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA19

<table>
<thead>
<tr>
<th>Advised rope diameter [mm]</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil quantity [l]</td>
<td>0.5</td>
</tr>
<tr>
<td>Weight [kg]</td>
<td>50</td>
</tr>
<tr>
<td>Oil fill/drain plug G3/8 T</td>
<td></td>
</tr>
<tr>
<td>Lifting port 3/4-16 UNF V1</td>
<td></td>
</tr>
<tr>
<td>Lowering port 3/4-16 UNF V2</td>
<td></td>
</tr>
<tr>
<td>Motor drain port 1/2-20 UNF DR</td>
<td></td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M7 (T7-L2) \( n_2 = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
The MBL of the Rope must be verified according to the requested Safety Factors.

The dimensions shown can be used as reference.

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

For safety reasons always keep at least 3 wraps of rope wrapped on the drum.

Use 8.8 grade screws to fix the winch.

Technical features may change with no previous notice from the manufacturer.

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL.

The MBL of the Rope must be verified according to the requested Safety Factors.

---

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull</td>
<td>[kg]</td>
<td>1250</td>
<td>1140</td>
<td>1050</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
<td>41</td>
<td>45</td>
<td>48</td>
<td>-</td>
</tr>
<tr>
<td>Rope length</td>
<td>[m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA19

Advised rope diameter 10 [mm]

Starting lifting pressure 165 [bar]

Operating pressure 140 [bar]

Maximum oil flow at the motor 46 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 130 [Nm]

Gear ratio 32.5 [i]

---

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)
M5 (T3-L4) $n_2 = 25$ rpm

---

Previous name: BW850

distinctive features: Square frame
motor displacement: 19 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: BW900
distinctive features: Square frame
motor displacement: 19 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

BWF1000

Working layers

<table>
<thead>
<tr>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>1350</td>
<td>1230</td>
<td>1140</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>41</td>
<td>45</td>
<td>48</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA19

Advised rope diameter 10 [mm]

Starting lifting pressure 180 [bar]

Operating pressure 150 [bar]

Maximum oil flow at the motor 46 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 130 [Nm]

Gear ratio 32,5 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T4-L3) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

**Previous name: BW900L**

*distinctive features: Square frame, Long drum*

*Motor displacement: 19 cm³/rev, Integrated motor*

*Max backpressure on return Line: 5 bar*

---

**BWF1000**

**The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.**

---

### Working layers

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
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<td>Rope length [m]</td>
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---

### Brevini® Motor

- **H4VA19**

---

### Advised rope diameter [mm]

- **10**

---

### Starting lifting pressure [bar]

- **180**

---

### Maximum oil flow at the motor [l/min]

- **46**

---

### Minimum oil flow at the motor [l/min]

- **10**

---

### Static braking torque [Nm]

- **130**

---

### Gear ratio [i]

- **32.5**

---

### For safety reasons always keep at least 3 wraps of rope wrapped on the drum

### Use 8.8 grade screws to fix the winch

### Technical features may change with no previous notice from the manufacturer

---

**WINCH MECHANISMS CLASSIFICATION IN AGREEMENT WITH F.E.M. (1.001) (Third edition revised on 01.10.1998)**

- **M5 (T4-L3)**

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**
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<table>
<thead>
<tr>
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**Brevini® Motor**

- H4VA19

<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>Advised rope diameter</th>
<th>Oil quantity</th>
<th>Weight</th>
<th>Oil fill/drain plug</th>
<th>Lifting port</th>
<th>Lowering port</th>
<th>Motor drain port</th>
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<tr>
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<td>8 [mm]</td>
<td>0.5 [l]</td>
<td>55 [kg]</td>
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<td>3/4-16 UNF V1</td>
<td>3/4-16 UNF V2</td>
<td>1/2-20 UNF DR</td>
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</table>

**Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)**

- M6 (T6-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The MBL of the Rope must be verified according to the requested Safety Factors

The dimensions shown can be used as reference

Previous name: BWF1500
distinctive features: Round frame
motor displacement: 34 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

**Working layers**

<table>
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<tr>
<th>1</th>
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<td>Rope length [m]</td>
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<td>23</td>
<td>37</td>
<td>50</td>
<td>66</td>
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</table>

Brevini® Motor H4VA34

**Advised rope diameter** 10 [mm]

**Starting lifting pressure** 170 [bar]

**Operating pressure** 145 [bar]

**Maximum oil flow at the motor** 60 [l/min]

**Minimum oil flow at the motor** 10 [l/min]

**Static braking torque** 232 [Nm]

**Gear ratio** 31.2 [i]

**BWF1500**

- Motor displacement: 34 cm³/rev, Integrated motor
- Max backpressure on return line: 5 bar

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL**
The dimensions shown can be used as reference

**Previous name:** BW1350

**distinctive features:** Square frame

motor displacement: 34 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

---

TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

---

**BWF1500**

**Working layers**

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<td>Line pull [kg]</td>
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<td>Rope length [m]</td>
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<td>43</td>
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</tr>
</tbody>
</table>

**Brevini® Motor**

H4VA34

Advised rope diameter 12 [mm]

---

**Starting lifting pressure**

175 [bar]

**Operating pressure**

145 [bar]

**Maximum oil flow at the motor**

60 [l/min]

**Minimum oil flow at the motor**

10 [l/min]

**Static braking torque**

232 [Nm]

**Gear ratio**

31,2 [i]

---

**Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)**

M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

Previous name: BW1500
distinctive features: Square frame
motor displacement: 34 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

*BThe data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
<th>Working layers</th>
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<tr>
<td>Line pull [kg]</td>
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<td></td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
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<td>42</td>
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<tr>
<td>Rope length [m]</td>
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<td>19</td>
<td>31</td>
<td>43</td>
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</tbody>
</table>

Brevini® Motor: H4VA34

Advised rope diameter 12 [mm]

Starting lifting pressure 200 [bar]

Operating pressure 165 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 232 [Nm]

Gear ratio 31,2 [i]

BWF1500

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*
The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<table>
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<tr>
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<tbody>
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<td>Line pull [kg]</td>
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<td>Maximum rope speed [m/min]</td>
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<tr>
<td>Rope length [m]</td>
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**BWF1500**

*Previous name: BW1500L*

**distinctive features:** Square frame, Long drum

**motor displacement:** 34 cm³/rev, Integrated motor

**Max backpressure on return Line:** 5 bar

<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>Advised rope diameter [mm]</th>
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<tbody>
<tr>
<td>H4VA34</td>
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<table>
<thead>
<tr>
<th>Starting lifting pressure [bar]</th>
<th>215</th>
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<tbody>
<tr>
<td>Operating pressure [bar]</td>
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<tr>
<td>Maximum oil flow at the motor [l/min]</td>
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<td>Minimum oil flow at the motor [l/min]</td>
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<tr>
<td>Static braking torque [Nm]</td>
<td>232</td>
</tr>
<tr>
<td>Gear ratio [i]</td>
<td>31.2</td>
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</table>

**Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)**

M5 (T5-L2)  \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

The MBL of the Rope must be verified according to the requested Safety Factors

THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

BWF1500

Previous name: BWF1500L

distinctive features: Round frame, Long drum
motor displacement: 34 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
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<td>2110</td>
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<td>Maximum rope speed [m/min]</td>
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<tr>
<td>Rope length [m]</td>
<td>17</td>
<td>36</td>
<td>57</td>
<td>79</td>
<td>103</td>
<td>128</td>
</tr>
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</table>

Brevini® Motor H4VA34

Advised rope diameter [mm] 12

Starting lifting pressure [bar] 230

Operating pressure [bar] 190

Maximum oil flow at the motor [l/min] 60

Minimum oil flow at the motor [l/min] 10

Static braking torque [Nm] 232

Gear ratio 31,2

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M4 (T4-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

The present winch can't be used for lifting of personnel

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

BWF1500

Previous name: BWF1500-P

distinctive features: Round frame, hydraulic pressure roller
motor displacement: 34 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
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<td>23</td>
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<td>50</td>
<td>65</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA34

Advised rope diameter 10 [mm]

Oil quantity 0,85 [l]

Weight 83 [kg]

Oil fill/drain plug G3/8 T

Lifting port 7/8-14 UNF V1

Lowering port 7/8-14 UNF V2

Motor drain port 9/16-18 UNF DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M6 (T6-L2) \( n_2 = 25 \text{ rpm} \)
The MBL of the Rope must be verified according to the requested Safety Factors.

The dimensions shown can be used as reference.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

### BWF2000

**Previous name:** BWF2000  
**distinctive features:** Round frame  
**motor displacement:** 34 cm³/rev, Integrated motor  
**Max backpressure on return Line:** 5 bar

### Working layers

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<td>Rope length [m]</td>
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### Brevini® Motor

- **H4VA34**
- **Advised rope diameter [mm]:** 12
- **Starting lifting pressure [bar]:** 225
- **Operating pressure [bar]:** 190
- **Maximum oil flow at the motor [l/min]:** 60
- **Minimum oil flow at the motor [l/min]:** 10
- **Static braking torque [Nm]:** 232
- **Gear ratio:** 38,2

### Technical features

- **Oil quantity [l]:** 1,25
- **Weight [kg]:** 128
- **Oil fill/drain plug:** G1/2 T
- **Lifting port:** 7/8-14 UNF V1
- **Lowering port:** 7/8-14 UNF V2
- **Motor drain port:** 9/16-18 UNF DR

### Winch mechanisms classification

- **M6 (T6-L2)**  
  \[ n_2 = 25 \text{ rpm} \]

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

**TIPO ARGANO / WINCH TYPE**

Previous name: BW1950LT

distinctive features: Square frame motor displacement: 34 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

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<table>
<thead>
<tr>
<th>Working layers</th>
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<tr>
<td>Rope length [m]</td>
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<td>42</td>
<td>58</td>
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Brevini® Motor H4VA34 Advised rope diameter 14 [mm]

Starting lifting pressure 210 [bar]

Operating pressure 175 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 232 [Nm]

Gear ratio 49.5 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M4 (T4-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

Previous name: BWF2000-P

distinctive features: Round frame, hydraulic pressure rollers
motor displacement: 34 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
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<tr>
<th>Working layers</th>
<th>[n°]</th>
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<th>Storage length</th>
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<tr>
<td>Rope length [m]</td>
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<td>30</td>
<td>48</td>
<td>66</td>
<td>86</td>
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</table>

Brevini® Motor H4VA34

Advised rope diameter 12 [mm]

Starting lifting pressure 210 [bar]

Operational pressure 175 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 232 [Nm]

Gear ratio 38.2 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T6-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<table>
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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>2490</td>
<td>2300</td>
<td>2140</td>
<td>2000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>34</td>
<td>37</td>
<td>40</td>
<td>43</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>15</td>
<td>30</td>
<td>48</td>
<td>66</td>
<td>86</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA34

Advised rope diameter 12 [mm]

Starting lifting pressure 210 [bar]

Operating pressure 175 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 232 [Nm]

Gear ratio 38.2 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T6-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: BW1950VT

distinctive features: Square frame

motor displacement: 34 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

BWF2000
The dimensions shown can be used as reference

**The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.**

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td></td>
<td>3400</td>
<td>3130</td>
<td>2900</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td></td>
<td>42</td>
<td>46</td>
<td>50</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td></td>
<td>14</td>
<td>30</td>
<td>47</td>
<td>65</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor          H4VA64

- Advised rope diameter 15 [mm]
- Oil quantity 2 [l]
- Weight 205 [kg]
- Oil fill/drain plug G1/2 T
- Lifting port 7/8-14 UNF V1
- Lowering port 7/8-14 UNF V2
- Motor drain port 3/4-16 UNF DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference.

Previous name: BWF3000-P

distinctive features: Round frame, hydraulic pressure roller
motor displacement: 64 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull</td>
<td>[kg]</td>
<td>3520</td>
<td>3250</td>
<td>3020</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
<td>44</td>
<td>48</td>
<td>52</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length</td>
<td>[m]</td>
<td>17</td>
<td>36</td>
<td>56</td>
<td>77</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor: H4VA64

- Advised rope diameter: 15 [mm]
- Oil quantity: 2 [l]
- Weight: 250 [kg]
- Oil fill/drain plug: G1/2 T
- Lifting port: 7/8-14 UNF V1
- Lowering port: 7/8-14 UNF V2
- Motor drain port: 3/4-16 UNF DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M4 (T4-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

BWF3000

Previous name: BWC3000

distinctive features: Square frame

motor displacement: 64 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
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<tr>
<td>Line pull</td>
<td>[kg]</td>
<td>4000</td>
<td>3680</td>
<td>3410</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
<td>42</td>
<td>46</td>
<td>50</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length</td>
<td>[m]</td>
<td>14</td>
<td>30</td>
<td>47</td>
<td>65</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor

- H4VA64

Advised rope diameter 15 [mm]

Starting lifting pressure 210 [bar]

Operating pressure 175 [bar]

Maximum oil flow at the motor 120 [l/min]

Minimum oil flow at the motor 15 [l/min]

Static braking torque 626 [Nm]

Gear ratio 38,2 [i]

<table>
<thead>
<tr>
<th>Oil quantity</th>
<th>2 [l]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>205 [kg]</td>
</tr>
<tr>
<td>Oil fill/drain plug</td>
<td>G1/2 T</td>
</tr>
<tr>
<td>Lifting port</td>
<td>7/8-14 UNF V1</td>
</tr>
<tr>
<td>Lowering port</td>
<td>7/8-14 UNF V2</td>
</tr>
<tr>
<td>Motor drain port</td>
<td>3/4-16 UNF DR</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M3 (T3-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

**Previous name: BWF3000**

distinctive features: Round frame

motor displacement: 64 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

---

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

---

<table>
<thead>
<tr>
<th>Working layers</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>3810</td>
<td>3540</td>
<td>3300</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>44</td>
<td>48</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>19</td>
<td>39</td>
<td>62</td>
<td>85</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA64

Advised rope diameter 14 [mm]

Starting lifting pressure 205 [bar]

Operating pressure 175 [bar]

Maximum oil flow at the motor 120 [l/min]

Minimum oil flow at the motor 15 [l/min]

Static braking torque 626 [Nm]

Gear ratio 38,2 [i]

---

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M3 (T3-L2) \( \eta_2 = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

BWF6000

Previous name: BW3500

distinctive features: Round frame

motor displacement: 64 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

---

**Working layers**

<table>
<thead>
<tr>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>4810</td>
<td>4480</td>
<td>4200</td>
<td>3950</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>41</td>
<td>44</td>
<td>47</td>
<td>50</td>
<td>113</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>26</td>
<td>52</td>
<td>82</td>
<td>146</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA64

Advised rope diameter 16 [mm]

Starting lifting pressure 250 [bar]

Oil quantity 3.5 [l]

Operating pressure 210 [bar]

Weight 395 [kg]

Maximum oil flow at the motor 120 [l/min]

Oil fill/drain plug G1/2 T

Minimum oil flow at the motor 15 [l/min]

Lifting port 7/8-14 UNF V1

Static braking torque 626 [Nm]

Lowering port 7/8-14 UNF V2

Gear ratio 49,8 [%]

Motor drain port 3/4-16 UNF DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M7 (T6-L3) \( n_2 = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull</td>
<td>[kg]</td>
<td>7030</td>
<td>6500</td>
<td>6040</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
<td>29</td>
<td>31</td>
<td>33</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length</td>
<td>[m]</td>
<td>23</td>
<td>46</td>
<td>73</td>
<td>101</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>H4VA64</th>
<th>Advised rope diameter</th>
<th>18</th>
<th>[mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting lifting pressure</td>
<td>255</td>
<td>[bar]</td>
<td>Oil quantity</td>
<td>3,5</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>215</td>
<td>[bar]</td>
<td>Weight</td>
<td>407</td>
</tr>
<tr>
<td>Maximum oil flow at the motor</td>
<td>120</td>
<td>[l/min]</td>
<td>Oil fill/drain plug</td>
<td>G1/2</td>
</tr>
<tr>
<td>Minimum oil flow at the motor</td>
<td>15</td>
<td>[l/min]</td>
<td>Lifting port</td>
<td>7/8-14 UNF</td>
</tr>
<tr>
<td>Static braking torque</td>
<td>626</td>
<td>[Nm]</td>
<td>Lowering port</td>
<td>7/8-14 UNF</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>71,4</td>
<td>[i]</td>
<td>Motor drain port</td>
<td>3/4-16 UNF</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The MBL of the Rope must be verified according to the requested Safety Factors.

The dimensions shown can be used as reference.

Previous name: BW4100

Motor displacement: 64 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M6 (T6-L2) \( n_\gamma = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer.

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.

<table>
<thead>
<tr>
<th>Working layers</th>
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<th>Storage length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>5930</td>
<td>5480</td>
<td>5100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>43</td>
<td>46</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>23</td>
<td>47</td>
<td>74</td>
<td>102</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini\textregistered; Motor H4VA64

Advised rope diameter 18 [mm]

Starting lifting pressure 320 [bar]

Oil quantity 3.5 [l]

Operating pressure 270 [bar]

Weight 395 [kg]

Maximum oil flow at the motor 120 [l/min]

Oil fill/drain plug G1/2 T

Minimum oil flow at the motor 15 [l/min]

Lifting port 7/8-14 UNF V1

Static braking torque 626 [Nm]

Lowering port 7/8-14 UNF V2

Gear ratio 48 [i]

Motor drain port 3/4-16 UNF DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°?]</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>[-]</th>
<th>[-]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>6980</td>
<td>6400</td>
<td>5910</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>36</td>
<td>40</td>
<td>43</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>21</td>
<td>42</td>
<td>67</td>
<td>93</td>
<td>-</td>
<td>-</td>
<td></td>
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</table>

Brevini® Motor H4VA64

Advised rope diameter 20 [mm]

Starting lifting pressure 320 [bar]

Operating pressure 270 [bar]

Maximum oil flow at the motor 120 [l/min]

Minimum oil flow at the motor 15 [l/min]

Static braking torque 626 [Nm]

Gear ratio 56,8 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M5 (T5-L2) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M5 (T5-L2) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

*Previous name: BW5200L*

**distinctive features:** Round frame, Long drum

**motor displacement:** 64 cm³/rev, Integrated motor

**Max backpressure on return Line:** 5 bar

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**BWF6000**

**Working layers**

<table>
<thead>
<tr>
<th>Working layers</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>6980</td>
<td>6400</td>
<td>5910</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>36</td>
<td>40</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>35</td>
<td>72</td>
<td>113</td>
<td>156</td>
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<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>H4VA64</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Advised rope diameter [mm]</td>
<td>20</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Oil quantity [l]</td>
<td>3.5</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Weight [kg]</td>
<td>470</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil fill/drain plug</td>
<td>G1/2</td>
<td>T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lifting port 7/8-14 UNF V1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lowering port 7/8-14 UNF V2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor drain port</td>
<td>3/4-16 UNF</td>
<td>DR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min oil flow at the motor [l/min]</td>
<td>120</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min oil flow at the motor [l/min]</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>626</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gear ratio [i]</td>
<td>56,8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min oil flow at the motor [l/min]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min oil flow at the motor [l/min]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gear ratio [i]</td>
<td></td>
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</tr>
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**Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998):**

M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
Serie “DW”
Costruzione compatta e leggera, con motorizzazione idraulica di tipo orbitale, con tiri diretti di 500 daN del modello “DW050” e 900 daN del “DW090”. Sono argani ideali nelle applicazioni dove la semplicità d’uso e l’economicità della soluzione sono il requisito principale.

“DW” Series
Compact, lightweight construction with hydraulic orbital drive, with direct pull of 500 daN for the “DW050” model and 900 daN for the “DW090”. They are ideal winches in applications where ease of use and cost-effectiveness of the solution are the main requirement.
The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
<th>1</th>
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<tbody>
<tr>
<td>Line pull [kg]</td>
<td></td>
<td>500</td>
<td>470</td>
<td>440</td>
<td>410</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td></td>
<td>97</td>
<td>103</td>
<td>110</td>
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<tr>
<td>Rope length [m]</td>
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<td>8</td>
<td>16</td>
<td>26</td>
<td>35</td>
<td>46</td>
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</tbody>
</table>

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

*The present winch can’t be used for lifting of personnel*
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
<th>Working layers</th>
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<th>5 Storage length</th>
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<tbody>
<tr>
<td>Line pull (kg)</td>
<td>500</td>
<td>470</td>
<td>440</td>
<td>410</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed (m/min)</td>
<td>97</td>
<td>103</td>
<td>110</td>
<td>117</td>
<td>-</td>
</tr>
<tr>
<td>Rope length (m)</td>
<td>20</td>
<td>41</td>
<td>64</td>
<td>87</td>
<td>113</td>
</tr>
</tbody>
</table>

- **Brevini® Motor**: BRZV250
- **Advised rope diameter (mm)**: 6
- **Starting lifting pressure (bar)**: 150
- **Operating pressure (bar)**: 120
- **Maximum oil flow at the motor (l/min)**: 60
- **Minimum oil flow at the motor (l/min)**: 8
- **Static braking torque (Nm)**: 560
- **Gear ratio**: 1

- **Oil quantity (l)**: 0.9
- **Weight (kg)**: 40
- **Oil fill/drain plug**: G1/4 T
- **Lifting port**: G3/8 V1
- **Lowering port**: G3/8 V2
- **Motor drain port**: G1/4 DR

*Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)*

- **For safety reasons always keep at least 3 wraps of rope wrapped on the drum**
- **Use 8.8 grade screws to fix the winch**
- **Technical features may change with no previous notice from the manufacturer**

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: DW050L

Max backpressure on return Line: 5 bar
The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
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<tr>
<th>Working layers</th>
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<tbody>
<tr>
<td>Line pull [kg]</td>
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<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>BRZV100</th>
<th>Advised rope diameter</th>
<th>8 [mm]</th>
</tr>
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<tr>
<td>Starting lifting pressure [bar]</td>
<td>165</td>
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<td>0.35 [l]</td>
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<td>Operating pressure [bar]</td>
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<td>Weight</td>
<td>40 [kg]</td>
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<tr>
<td>Maximum oil flow at the motor [l/min]</td>
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<td>Oil fill/drain plug</td>
<td>G1/4 T</td>
</tr>
<tr>
<td>Minimum oil flow at the motor [l/min]</td>
<td>8</td>
<td>Lifting port</td>
<td>G3/8 V1</td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>380</td>
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<td>G3/8 V2</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>4.87</td>
<td>Motor drain port</td>
<td>G1/4 DR</td>
</tr>
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</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
**Serie “EGO”**
Evoluzione di alcune grandezze degli argani “BWF”, sono argani pensati per soddisfare la maggiore parte delle applicazioni standard. Sono disponibili in due versioni: con motorizzazione idraulica a pistoni assiali completa di valvole di controllo del carico in discesa e del comando apertura freno negativo incorporate all’interno del coperchio di chiusura del motore stesso, freno lamellare negativo, tamburo avvolgi fune al cui interno hanno sede gli stadi di riduzione epicicloidali Brevini®, ma anche nella versione a motorizzazione idraulica orbitale. Essi vengono utilizzati dove sono disponibili medie pressioni d’esercizio e portate idrauliche limitate.

Gli argani della serie EGO sono divisi in tre macro famiglie in funzione della taglia dello stadio di riduzione in uscita utilizzato che ne definisce nome, grandezza e prestazioni. Prestazioni che vanno dal tiro diretto al primo strato di 1100 daN del modello “EGO025” ai 5500 daN del modello “EGO065”.

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**“EGO” Series**
The evolution of the “BWF” winches, conceived to satisfy most standard applications. Available in two version: with hydraulic axial piston motor drive, complete with control valves for the load on lowering and for the negative brake opening control that are built into the closing cover of the motor, negative lamellar brake and rope winding drum housing the Brevini® planetary gear reducer. They are also available in the version driven by orbital hydraulic motor with medium operating pressures and limited hydraulic flow rates. The EGO series winches are grouped into three main families according to the size of the output gear planetary stage used which defines its name, size and performance. Performance ranging from a first layer direct pull of 2000 daN for the “EGO025” to 4300 daN for the “EGO065”.
The MBL of the Rope must be verified according to the requested Safety Factors. The dimensions shown can be used as reference.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

### Working layers

<table>
<thead>
<tr>
<th></th>
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<th>2</th>
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<tr>
<td>Line pull [kg]</td>
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<td>Rope length [m]</td>
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**Brevini® Motor**

<table>
<thead>
<tr>
<th>Motor displacement</th>
<th>BRZV160</th>
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</thead>
</table>

**Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)**

- M7 (T5-L4) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum.

Use 8.8 grade screws to fix the winch.

Technical features may change with no previous notice from the manufacturer.

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

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<tbody>
<tr>
<td>Line pull</td>
<td>[kg]</td>
<td>1100</td>
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<td>960</td>
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<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
<td>47</td>
<td>50</td>
<td>53</td>
<td>57</td>
<td>-</td>
</tr>
<tr>
<td>Rope length</td>
<td>[m]</td>
<td>11</td>
<td>23</td>
<td>37</td>
<td>50</td>
<td>66</td>
</tr>
</tbody>
</table>

Brevini® Motor: BRZV160

Advised rope diameter: 8 [mm]

Starting lifting pressure: 165 [bar]

Operating pressure: 130 [bar]

Maximum oil flow at the motor: 60 [l/min]

Minimum oil flow at the motor: 8 [l/min]

Static braking torque: 860 [Nm]

Gear ratio: 3.94 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M7 (T5-L4) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

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<th>1</th>
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<th>3</th>
<th>4 Storage length</th>
</tr>
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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>1300</td>
<td>1190</td>
<td>1100</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td>38</td>
<td>41</td>
<td>44</td>
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<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
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</table>

**Brevini® Motor**

<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>BRZV200</th>
<th>Advised rope diameter [mm]</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting lifting pressure [bar]</td>
<td>155</td>
<td>Oil quantity [l]</td>
<td>0,9</td>
</tr>
<tr>
<td>Operating pressure [bar]</td>
<td>125</td>
<td>Weight [kg]</td>
<td>61</td>
</tr>
<tr>
<td>Maximum oil flow at the motor [l/min]</td>
<td>60</td>
<td>Oil fill/drain plug</td>
<td>G1/8</td>
</tr>
<tr>
<td>Minimum oil flow at the motor [l/min]</td>
<td>8</td>
<td>Lifting port</td>
<td>G3/8</td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>860</td>
<td>Lowering port</td>
<td>G3/8</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>3,94</td>
<td>Motor drain port</td>
<td>G1/4</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

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<table>
<thead>
<tr>
<th>Working layers</th>
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<th>4</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>1300</td>
<td>1190</td>
<td>1100</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>38</td>
<td>41</td>
<td>44</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
<td>-</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>BRZV200</th>
<th>Advised rope diameter</th>
<th>10 [mm]</th>
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</thead>
<tbody>
<tr>
<td>Starting lifting pressure</td>
<td>155 [bar]</td>
<td>Oil quantity</td>
<td>0,9 [l]</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>125 [bar]</td>
<td>Weight</td>
<td>59 [kg]</td>
</tr>
<tr>
<td>Maximum oil flow at the motor</td>
<td>60 [l/min]</td>
<td>Oil fill/drain plug</td>
<td>G1/8 T</td>
</tr>
<tr>
<td>Minimum oil flow at the motor</td>
<td>8 [l/min]</td>
<td>Lifting port</td>
<td>G3/8 V1</td>
</tr>
<tr>
<td>Static braking torque</td>
<td>860 [Nm]</td>
<td>Lowering port</td>
<td>G3/8 V2</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>3,94 [i]</td>
<td>Motor drain port</td>
<td>G1/4 DR</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>1600</td>
<td>1460</td>
<td>1350</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
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<td>33</td>
<td>35</td>
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<td>-</td>
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<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
<td>-</td>
</tr>
</tbody>
</table>

**Brevini® Motor** BRZV250

**Advised rope diameter** 10 [mm]

**Start lifting pressure** 155 [bar]

**Operating pressure** 125 [bar]

**Maximum oil flow at the motor** 60 [l/min]

**Minimum oil flow at the motor** 8 [l/min]

**Static braking torque** 860 [Nm]

**Gear ratio** 3.94 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
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### Working layers

<table>
<thead>
<tr>
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<tr>
<td>Line pull [kg]</td>
<td>1600</td>
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<td>1350</td>
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</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
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<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor: BRZV250  
Advised rope diameter: 10 [mm]

Starting lifting pressure: 155 [bar]  
Oil quantity: 0,9 [l]

Operating pressure: 125 [bar]  
Weight: 60 [kg]

Maximum oil flow at the motor: 60 [l/min]  
Oil fill/drain plug: G1/8 T

Minimum oil flow at the motor: 8 [l/min]  
Lifting port: G3/8 V1

Static braking torque: 860 [Nm]  
Lowering port: G3/8 V2

Gear ratio: 3,94 [i]  
Motor drain port: G1/4 DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)  
M5 (T5-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum  
Use 8.8 grade screws to fix the winch  
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: EGO160LS  
distinctive features: Square frame  
motor displacement: 250 cm³/rev  
Max backpressure on return Line: 5 bar

For safety reasons always keep at least 3 wraps of rope wrapped on the drum  
Use 8.8 grade screws to fix the winch  
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

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<tr>
<td>Line pull</td>
<td>[kg]</td>
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<tr>
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<td>[m/min]</td>
<td>24</td>
<td>26</td>
<td>28</td>
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<td>19</td>
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<td>41</td>
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</table>

Brevini® Motor BRZV315

Advised rope diameter 10 [mm]

Starting lifting pressure 150 [bar]

Operating pressure 120 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 8 [l/min]

Static braking torque 860 [Nm]

Gear ratio 3.94 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M4 (T4-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

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<tbody>
<tr>
<td>Line pull [kg]</td>
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<td>1690</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
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<td>28</td>
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<tr>
<td>Rope length [m]</td>
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<td>41</td>
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</table>

### Technical features

- **Brevini® Motor**: BRZV315
- **Advised rope diameter**: 10 [mm]
- **Oil quantity**: 0,9 [l]
- **Weight**: 60 [kg]
- **Oil fill/drain plug**: G1/8 T
- **Lifting port**: G3/8 V1
- **Lowering port**: G3/8 V2
- **Motor drain port**: G1/4 DR

### Gear ratio

3,94 [i]

**Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998):** M4 (T4-L2) \( n_2 = 25 \text{ rpm} \)

**For safety reasons always keep at least 3 wraps of rope wrapped on the drum**

**Use 8.8 grade screws to fix the winch**

**Technical features may change with no previous notice from the manufacturer**

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
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<tbody>
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<td>[kg]</td>
<td>2200</td>
<td>2010</td>
<td>1860</td>
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<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
<td>19</td>
<td>21</td>
<td>22</td>
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<tr>
<td>Rope length</td>
<td>[m]</td>
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Brevini® Motor BRZV400

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Starting lifting pressure</td>
<td>135 [bar]</td>
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<tr>
<td>Operating pressure</td>
<td>110 [bar]</td>
</tr>
<tr>
<td>Maximum oil flow at the motor</td>
<td>60 [l/min]</td>
</tr>
<tr>
<td>Minimum oil flow at the motor</td>
<td>8 [l/min]</td>
</tr>
<tr>
<td>Static braking torque</td>
<td>860 [Nm]</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>3.94 [i]</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Advised rope diameter</td>
<td>10 [mm]</td>
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<tr>
<td>Oil quantity</td>
<td>0.9 [l]</td>
</tr>
<tr>
<td>Weight</td>
<td>64 [kg]</td>
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<tr>
<td>Oil fill/drain plug</td>
<td>G1/8 T</td>
</tr>
<tr>
<td>Lifting port</td>
<td>G3/8 V1</td>
</tr>
<tr>
<td>Lowering port</td>
<td>G3/8 V2</td>
</tr>
<tr>
<td>Motor drain port</td>
<td>G1/4 DR</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M3 (T3-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

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<tr>
<td>Rope length</td>
<td>[m]</td>
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<td>Brevini® Motor</td>
<td>BRZV400</td>
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<tr>
<td>Starting lifting pressure</td>
<td>[bar]</td>
<td>135</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Operating pressure</td>
<td>[bar]</td>
<td>110</td>
<td></td>
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<tr>
<td>Maximum oil flow at the motor</td>
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<tr>
<td>Minimum oil flow at the motor</td>
<td>[l/min]</td>
<td>8</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Static braking torque</td>
<td>[Nm]</td>
<td>860</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Gear ratio</td>
<td>[i]</td>
<td>3,94</td>
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</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M3 (T3-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*

<table>
<thead>
<tr>
<th>Working layers</th>
<th>1</th>
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<th>3</th>
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</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>2000</td>
<td>1830</td>
<td>1690</td>
<td></td>
<td></td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td>45</td>
<td>49</td>
<td>53</td>
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<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>H4VA19</th>
<th>Advised rope diameter</th>
<th>10</th>
<th>[mm]</th>
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</thead>
<tbody>
<tr>
<td>Starting lifting pressure [bar]</td>
<td>290</td>
<td>Oil quantity</td>
<td>0.7</td>
<td>[l]</td>
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<tr>
<td>Operating pressure [bar]</td>
<td>240</td>
<td>Weight</td>
<td>58</td>
<td>[kg]</td>
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<tr>
<td>Maximum oil flow at the motor [l/min]</td>
<td>46</td>
<td>Oil fill/drain plug</td>
<td>G1/8</td>
<td>T</td>
</tr>
<tr>
<td>Minimum oil flow at the motor [l/min]</td>
<td>10</td>
<td>Lifting port</td>
<td>3/4-16 UNF</td>
<td>V1</td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>130</td>
<td>Lowering port</td>
<td>3/4-16 UNF</td>
<td>V2</td>
</tr>
<tr>
<td>Gear ratio [i]</td>
<td>29.8</td>
<td>Motor drain port</td>
<td>1/2-20 UNF</td>
<td>DR</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M4 (T4-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<tr>
<th>Working layers</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<th>Storage length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>2000</td>
<td>1830</td>
<td>1690</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>45</td>
<td>49</td>
<td>53</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>9</td>
<td>19</td>
<td>30</td>
<td>41</td>
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</tr>
</tbody>
</table>

Brevini® Motor

<table>
<thead>
<tr>
<th>H4VA19</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>

| Starting lifting pressure [bar] | 290   |       |       |       |               |
| Operating pressure [bar]       | 240   |       |       |       |               |
| Maximum oil flow at the motor [l/min] | 46    |       |       |       |               |
| Minimum oil flow at the motor [l/min] | 10    |       |       |       |               |
| Static braking torque [Nm]     | 130   |       |       |       |               |
| Gear ratio [i]                 | 29,8  |       |       |       |               |

| Advised rope diameter [mm]     | 10    |       |       |       |               |
| Oil quantity [l]               | 0,7   |       |       |       |               |
| Weight [kg]                    | 56    |       |       |       |               |
| Oil fill/drain plug G1/8 T     |       |       |       |       |               |
| Lifting port 3/4-16 UNF V1     |       |       |       |       |               |
| Lowering port 3/4-16 UNF V2    |       |       |       |       |               |
| Motor drain port 1/2-20 UNF DR |       |       |       |       |               |

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

| M4 (T4-L2) n2 = 25 rpm |

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
TIPO ARGANO / WINCH TYPE

The MBL of the Rope must be verified according to the requested Safety Factors.

The dimensions shown can be used as reference.

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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>3100</td>
<td>2870</td>
<td>2680</td>
<td>2500</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>32</td>
<td>34</td>
<td>37</td>
<td>39</td>
<td>-</td>
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<tr>
<td>Rope length [m]</td>
<td>12</td>
<td>24</td>
<td>38</td>
<td>53</td>
<td>69</td>
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</table>

Brevini® Motor: HRC080

Advised rope diameter: 12 [mm]

Starting lifting pressure: 255 [bar]

Operating pressure: 205 [bar]

Maximum oil flow at the motor: 75 [l/min]

Minimum oil flow at the motor: 8 [l/min]

Static braking torque: 490 [Nm]

Gear ratio: 20 [i]

Brevini® Motor: HRC080

Advised rope diameter: 12 [mm]

Starting lifting pressure: 255 [bar]

Operating pressure: 205 [bar]

Maximum oil flow at the motor: 75 [l/min]

Minimum oil flow at the motor: 8 [l/min]

Static braking torque: 490 [Nm]

Gear ratio: 20 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M6 (T4-L4) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum.

Use 8.8 grade screws to fix the winch.

Technical features may change with no previous notice from the manufacturer.

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.

EGO045
Previous name: EGO310LR

distinctive features: Round frame
motor displacement: 80 cm³/rev
Max backpressure on return Line: 5 bar

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TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

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<tr>
<td>Line pull</td>
<td>[kg]</td>
<td>3100</td>
<td>2870</td>
<td>2680</td>
<td>2500</td>
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<td>-</td>
</tr>
<tr>
<td>Maximum rope speed</td>
<td>[m/min]</td>
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<td>34</td>
<td>37</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Rope length</td>
<td>[m]</td>
<td>12</td>
<td>24</td>
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<tr>
<th>Brevini® Motor</th>
<th>advised rope diameter</th>
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<th>[mm]</th>
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<tbody>
<tr>
<td>Starting lifting pressure</td>
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<td>[bar]</td>
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<tr>
<td>Operating pressure</td>
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<td>[bar]</td>
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<td>Maximum oil flow at the motor</td>
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<td>Minimum oil flow at the motor</td>
<td>8</td>
<td>[l/min]</td>
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<tr>
<td>Static braking torque</td>
<td>490</td>
<td>[Nm]</td>
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<tr>
<td>Gear ratio</td>
<td>20</td>
<td>[i]</td>
<td></td>
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</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T4-L4) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: EGO310LS
distinctive features: Square frame
motor displacement: 80 cm³/rev
Max backpressure on return Line: 5 bar

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference.

---

**EGO045**

Previous name: EGO240LR

*distinctive features: Round frame
motor displacement: 100 cm³/rev
Max backpressure on return Line: 5 bar*

---

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<tr>
<td>Line pull [kg]</td>
<td>2410</td>
<td>2230</td>
<td>2070</td>
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<td>-</td>
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<td>Maximum rope speed [m/min]</td>
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<th>Brevini® Motor</th>
<th>BRZV100</th>
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<td>Operating pressure [bar]</td>
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<td>Weight [kg]</td>
<td>111</td>
</tr>
<tr>
<td>Maximum oil flow at the motor [l/min]</td>
<td>60</td>
<td>Oil fill/drain plug</td>
<td>G1/4 T</td>
</tr>
<tr>
<td>Minimum oil flow at the motor [l/min]</td>
<td>8</td>
<td>Lowering port</td>
<td>G3/8 V1</td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>490</td>
<td>Lowering port</td>
<td>G3/8 V2</td>
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<tr>
<td>Gear ratio [i]</td>
<td>20</td>
<td>Motor drain port</td>
<td>G1/4 DR</td>
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</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M6 (T6-L2) \( n_f = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>2410</td>
<td>2230</td>
<td>2070</td>
<td>1940</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td>20</td>
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<td>23</td>
<td>25</td>
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<tr>
<td>Rope length [m]</td>
<td>12</td>
<td>24</td>
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</tr>
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Brevini® Motor BRZV100

<table>
<thead>
<tr>
<th>Advised rope diameter [mm]</th>
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<tbody>
<tr>
<td>Oil quantity [l]</td>
<td>1,1</td>
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<td>Weight [kg]</td>
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<td>Oil fill/drain plug</td>
<td>G1/4</td>
</tr>
<tr>
<td>Lifting port G3/8 [V1]</td>
<td></td>
</tr>
<tr>
<td>Lowering port G3/8 [V2]</td>
<td></td>
</tr>
<tr>
<td>Motor drain port G1/4 [DR]</td>
<td></td>
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Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T6-L2) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

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**EGO045**

*Previous name: EGO380LR*

*distinctive features: Round frame*

*Motor displacement: 100 cm³/rev*

*Max backpressure on return line: 5 bar*

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TIPO ARGANO / WINCH TYPE

Previous name: EGO380LS
distinctive features: Square frame
motor displacement: 100 cm³/rev
Max backpressure on return Line: 5 bar

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<thead>
<tr>
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<td>3800</td>
<td>3480</td>
<td>3210</td>
<td>2980</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
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<td>Rope length [m]</td>
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Brevini® Motor HRC100

Advised rope diameter 14 [mm]

Starting lifting pressure 255 [bar]

Oil quantity 1,1 [l]

Operating pressure 205 [bar]

Weight 117 [kg]

Maximum oil flow at the motor 75 [l/min]

Oil fill/drain plug G1/4 T

Minimum oil flow at the motor 8 [l/min]

Lifting port G3/4 V1

Static braking torque 490 [Nm]

Lowering port G3/4 V2

Gear ratio 20 [i]

Motor drain port G1/4 DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

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<td>2350</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
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<td>17</td>
<td>19</td>
<td>20</td>
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<td>-</td>
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<tr>
<td>Rope length [m]</td>
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<td>69</td>
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</table>

Brevini® Motor BRZV130

Advised rope diameter 12 [mm]

Starting lifting pressure 155 [bar]

Operating pressure 125 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 8 [l/min]

Static braking torque 490 [Nm]

Gear ratio 20 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T6-L2) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<tr>
<td>Line pull [kg]</td>
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<td>2910</td>
<td>2700</td>
<td>2510</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
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<td>17</td>
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<tr>
<td>Rope length [m]</td>
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<td>24</td>
<td>38</td>
<td>53</td>
<td>69</td>
<td>-</td>
</tr>
</tbody>
</table>

*Previous name: EGO290LS

Distinctive features: Square frame
Motor displacement: 130 cm³/rev
Max backpressure on return line: 5 bar

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors
<table>
<thead>
<tr>
<th>Working layers</th>
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<tr>
<td>Line pull [kg]</td>
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<td>3600</td>
<td>3290</td>
<td>3040</td>
<td>2820</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td></td>
<td>34</td>
<td>37</td>
<td>41</td>
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<tr>
<td>Rope length [m]</td>
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<td>33</td>
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<table>
<thead>
<tr>
<th>Brevini® Motor</th>
<th>H4VA34</th>
<th>Advised rope diameter</th>
<th>14 [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting lifting pressure [bar]</td>
<td>305</td>
<td>Oil quantity</td>
<td>1 [l]</td>
</tr>
<tr>
<td>Operating pressure [bar]</td>
<td>255</td>
<td>Weight</td>
<td>121 [kg]</td>
</tr>
<tr>
<td>Maximum oil flow at the motor [l/min]</td>
<td>60</td>
<td>Oil fill/drain plug</td>
<td>G1/4 T</td>
</tr>
<tr>
<td>Minimum oil flow at the motor [l/min]</td>
<td>10</td>
<td>Lifting port</td>
<td>7/8-14 UNF V1</td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>232</td>
<td>Lowering port</td>
<td>7/8-14 UNF V2</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>39,4</td>
<td>Motor drain port</td>
<td>9/16-18 UNF DR</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

M4 (T4-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

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<th>4</th>
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<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>3600</td>
<td>3290</td>
<td>3040</td>
<td>2820</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>34</td>
<td>37</td>
<td>41</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>10</td>
<td>21</td>
<td>33</td>
<td>46</td>
<td>60</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor H4VA34

Advised rope diameter 14 [mm]

Starting lifting pressure 305 [bar]

Operating pressure 255 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 10 [l/min]

Static braking torque 232 [Nm]

Gear ratio 39.4 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M4 (T4-L2) n_f = 25 rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
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<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line pull [kg]</td>
<td>3380</td>
<td>3120</td>
<td>2900</td>
<td>2700</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>30</td>
<td>32</td>
<td>35</td>
<td>37</td>
<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>14</td>
<td>29</td>
<td>46</td>
<td>63</td>
<td>82</td>
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</tbody>
</table>

Brevini® Motor HRC100

- Advised rope diameter: 14 [mm]
- Oil quantity: 2 [l]
- Weight: 190 [kg]
- Oil fill/drain plug: G1/4 T
- Lifting port: G3/4 V1
- Lowering port: G3/4 V2
- Motor drain port: G1/4 DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T6-L2) \( n_2 = 25 \) rpm

Winch must be used for lifting of personnel

The MBL of the rope must be verified according to the requested Safety Factors.

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer.
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<tbody>
<tr>
<td>Line pull [kg]</td>
<td>3380</td>
<td>3120</td>
<td>2900</td>
<td>2700</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Maximum rope speed [m/min]</td>
<td>30</td>
<td>32</td>
<td>35</td>
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<td>-</td>
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<tr>
<td>Rope length [m]</td>
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<td>63</td>
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Brevini® Motor HRC100

<table>
<thead>
<tr>
<th>Advised rope diameter [mm]</th>
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<tbody>
<tr>
<td>Oil quantity [l]</td>
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<tr>
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<td>Oil fill/drain plug G1/4 T</td>
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<tr>
<td>Lifting port G3/4 V1</td>
<td></td>
</tr>
<tr>
<td>Lowering port G3/4 V2</td>
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<tr>
<td>Motor drain port G1/4 DR</td>
<td></td>
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</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M6 (T6-L2) $n_2 = 25$ rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: EGO350LS
distinctive features: Square frame
motor displacement: 100 cm$^3$/rev
Max backpressure on return Line: 5 bar
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

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**EGO065**

Previous name: EGO430LR

distinctive features: Round frame

motor displacement: 130 cm³/rev

Max backpressure on return Line: 5 bar

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<table>
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<tr>
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<th>1</th>
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<td>Line pull [kg]</td>
<td>4220</td>
<td>3860</td>
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<td>3280</td>
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<td>Maximum rope speed [m/min]</td>
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<td>Rope length [m]</td>
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<table>
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<th>HRC130</th>
<th>Advised rope diameter</th>
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<tr>
<td>Starting lifting pressure [bar]</td>
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<td>Oil quantity</td>
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<td>[l]</td>
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<tr>
<td>Operating pressure [bar]</td>
<td>210</td>
<td>Weight</td>
<td>190</td>
<td>[kg]</td>
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<td>Maximum oil flow at the motor [l/min]</td>
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<td>G1/4</td>
<td>T</td>
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<td>Minimum oil flow at the motor [l/min]</td>
<td>8</td>
<td>Lifting port</td>
<td>G3/4</td>
<td>V1</td>
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<td>Static braking torque [Nm]</td>
<td>890</td>
<td>Lowering port</td>
<td>G3/4</td>
<td>V2</td>
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<tr>
<td>Gear ratio [i]</td>
<td>18.9</td>
<td>Motor drain port</td>
<td>G1/4</td>
<td>DR</td>
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</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

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<tbody>
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<td>56</td>
<td>73</td>
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</table>

Brevini® Motor: HRC130

Advised rope diameter 16 [mm]

Starting lifting pressure 265 [bar]

Operating pressure 210 [bar]

Maximum oil flow at the motor 75 [l/min]

Minimum oil flow at the motor 8 [l/min]

Static braking torque 890 [Nm]

Gear ratio 18.9 [i]

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors.
**TIPO ARGANO / WINCH TYPE**

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<td>3350</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td>30</td>
<td>33</td>
<td>36</td>
<td>38</td>
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<tr>
<td>Rope length [m]</td>
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<th>H4VA34</th>
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<tr>
<td>Operating pressure [bar]</td>
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<td>Oil quantity</td>
<td>1,6</td>
<td>[l]</td>
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<tr>
<td>Maximum oil flow at the motor [l/min]</td>
<td>60</td>
<td>Weight</td>
<td>192</td>
<td>[kg]</td>
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<tr>
<td>Minimum oil flow at the motor [l/min]</td>
<td>10</td>
<td>Oil fill/drain plug</td>
<td>G1/4</td>
<td>T</td>
</tr>
<tr>
<td>Static braking torque [Nm]</td>
<td>232</td>
<td>Lifting port</td>
<td>7/8-14 UNF</td>
<td>V1</td>
</tr>
<tr>
<td>Gear ratio</td>
<td>50</td>
<td>Lowering port</td>
<td>7/8-14 UNF</td>
<td>V2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Motor drain port</td>
<td>9/16-18 UNF</td>
<td>DR</td>
</tr>
</tbody>
</table>

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

**EGO065**

Previous name: EGO430HR
distinctive features: Round frame
motor displacement: 34 cm³/rev, Integrated motor
Max backpressure on return Line: 5 bar

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
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<tr>
<td>Line pull [kg]</td>
<td></td>
<td>4300</td>
<td>3930</td>
<td>3610</td>
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<td>30</td>
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<td>56</td>
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</table>

Brevini® Motor H4VA34

Advised rope diameter 16 [mm]

Oil quantity 1,6 [l]

Weight 190 [kg]

Oil fill/drain plug G1/4 T

Lifting port 7/8-14 UNF V1

Lowering port 7/8-14 UNF V2

Motor drain port 9/16-18 UNF DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum.

Use 8.8 grade screws to fix the winch.

Technical features may change with no previous notice from the manufacturer.

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL.

The MBL of the Rope must be verified according to the requested Safety Factors.

Previous name: EGO430HS

distinctive features: Square frame

motor displacement: 34 cm³/rev, Integrated motor

Max backpressure on return Line: 5 bar
The MBL of the Rope must be verified according to the requested Safety Factors. The dimensions shown can be used as reference. The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
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<td>Line pull [kg]</td>
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<td>4520</td>
<td>4180</td>
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<td>-</td>
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<tr>
<td>Maximum rope speed [m/min]</td>
<td>19</td>
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<td>22</td>
<td>24</td>
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<tr>
<td>Rope length [m]</td>
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<td>40</td>
<td>56</td>
<td>73</td>
<td>-</td>
</tr>
</tbody>
</table>

Brevini® Motor: HRC160

| Advised rope diameter [mm]      | 16   |
| Oil quantity [l]                | 2    |
| Weight [kg]                     | 190  |
| Oil fill/drain plug G1/4 T      |      |
| Lifting port G3/4 V1            |      |
| Lowering port G3/4 V2           |      |
| Motor drain port G1/4 DR        |      |

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

Previous name: EGO550LR
distinctive features: Round frame
motor displacement: 160 cm³/rev
Max backpressure on return line: 5 bar
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
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<td>Line pull [kg]</td>
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<tr>
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<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
<td>12</td>
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<td>22</td>
<td>24</td>
<td>56</td>
<td>73</td>
</tr>
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</table>

Brevini® Motor: HRC160

Advised rope diameter 16 [mm]

Starting lifting pressure 265 [bar]

Operating pressure 210 [bar]

Maximum oil flow at the motor 75 [l/min]

Minimum oil flow at the motor 8 [l/min]

Static braking torque 890 [Nm]

Gear ratio 18.9 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

**THE PRESENT WINCH CAN’T BE USED FOR LIFTING OF PERSONNEL**

The MBL of the Rope must be verified according to the requested Safety Factors.
Serie “BWT”
Questi argani di elevato tonnellaggio sono realizzati per soddisfare il settore del recupero per i mezzi del soccorso stradale pesante. La loro naturale evoluzione applicativa li porta ad essere utilizzati anche in altri settori quali il Militare, la Protezione Civile, gli Enti Pubblici e Aziende dove utilizzano sistemi per il trasporto di grossi mezzi cingolati e di movimento terra.
Questa serie di argani utilizzano riduttori epicicloidali pluristadio e riduttore angolare come stadio veloce in ingresso, ad eccezione del “BWT10000” La particolarità di questi argani a comando idraulico è quella di avere la possibilità di rendere il tamburo folle rispetto al sistema con argano frenato. Questa funzionalità si ottiene con un sistema di disinnesto meccanico, azionato manualmente (standard), oppure oleo-pneumatico a richiesta. La serie “BWT” permette di svolgere la fune dal tamburo, svincolando meccanicamente il tamburo stesso, dal sistema di frenatura dell’argano quando la motorizzazione non è alimentata dal sistema idraulico. Questa operazione permette all’utilizzatore di portare il gancio, fissato in testa alla fune, fino al punto di recupero del carico, eseguendo questa attività in sicurezza perché il tamburo è folle.

NOTA
La classificazione FEM, indicata nelle schede prodotto, è riferita alla sola ingranaggeria.

“BWT” Series
These high tonnage winches are made to satisfy the recovery sector for heavy highway emergency vehicles. Their natural application evolution leads them to be used in other sectors too, such as the Military, Civil Protection, Public Authorities and Companies that use systems for the transportation of large tracked vehicles and earth moving equipment.
This winch Series uses multi-stage planetary gear reducers and right angle gear reducer for the fast input stage, except for the “BWT10000”.
The peculiarity of these hydraulically powered winches is that they enable having the drum in neutral with respect to the system with a braked winch.
This functionality is obtained with a mechanical disengagement system, activated manually (standard) or air-hydraulically on request.
The “BWT” series enables unwinding the rope from the drum, mechanically freeing the drum from the braking system of the winch when the motor drive is not powered by the hydraulic system.
This operation enables the user to take the hook, secured at its head to the rope, as far as the point of load recovery, doing this safely because the drum is in neutral.
In this case even starting the winch incorrectly will not compromise the safety of the manual operations.
To perform the recovery manoeuvre the user, after locking the drum by means of the mechanical connection system, operates the hydraulic controls interlocked with the winch system in order to perform the normal recovery operations.
Performance ranging from a first layer direct pull of 10000 daN for the “BWT10000” winch to 30000 daN for the “BWT30000” winch.

NOTE
The FEM classification, mentioned on the Technical Sheets, is referred to the gears train only.
The dimensions shown can be used as reference.

The MBL of the Rope must be verified according to the requested Safety Factors.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

Oil plugs
- Filling and Breather plug
- Oil level plug
- Magnetic and drain plug
- Greasing
- Brake Breather plug
- Brake oil level plug
- Brake drain plug
- Brake releasing plug

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
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Brevini® Motor BRO130

Starting lifting pressure 190 [bar]
Operating pressure 155 [bar]
Maximum oil flow at the motor 60 [l/min]
Minimum oil flow at the motor 8 [l/min]
Static braking torque 377 [Nm]
Gear ratio 31.4 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M7 (T7-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: BWT10000

motor displacement: 130 cm³/rev

Max backpressure on return Line: 5 bar
TIPO ARGANO / WINCH TYPE

The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

Oil plugs
- Filling and Breather plug
- Oil level plug
- Magnetic and drain plug
- Greasing
- Brake Breather plug
- Brake oil level plug
- Brake drain plug
- Brake releasing plug

<table>
<thead>
<tr>
<th>Working layers</th>
<th>[n°]</th>
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<tr>
<td>Line pull [kg]</td>
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<td>15050</td>
<td>12650</td>
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<td>9590</td>
<td>8550</td>
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</table>

Brevini® Motor BRO080

Advised rope diameter [mm]

Starting lifting pressure [bar]

Operating pressure [bar]

Maximum oil flow at the motor [l/min]

Minimum oil flow at the motor [l/min]

Static braking torque [Nm]

Gear ratio [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M5 (T5-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

Previous name: BWT15000

Motor displacement: 80 cm³/rev

Max backpressure on return Line: 5 bar
The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors.

The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

*Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M2 (T2-L2) \( n_2 = 25 \) rpm

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

*The present winch can’t be used for lifting of personnel

The MBL of the Rope must be verified according to the requested Safety Factors.
TIPO ARGANO / WINCH TYPE

The MBL of the Rope must be verified according to the requested Safety Factors

The dimensions shown can be used as reference

---

**Oil plugs**

- Filling and Breather plug
- Oil level plug
- Magnetic and drain plug
- Greasing
- Brake Breather plug
- Brake oil level plug
- Brake drain plug
- Brake releasing plug

---

<table>
<thead>
<tr>
<th>Working layers</th>
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<th>3</th>
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<tbody>
<tr>
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<td>[kg]</td>
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<td>16850</td>
<td>14520</td>
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<td>Maximum rope speed</td>
<td>[m/min]</td>
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<td>3</td>
<td>4</td>
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</tr>
<tr>
<td>Rope length</td>
<td>[m]</td>
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<td>20</td>
<td>34</td>
<td>48</td>
<td>65</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**Brevini® Motor**

- BRO130
- Advised rope diameter: 22 [mm]
- Oil quantity: 5 [l]
- Weight: 320 [kg]
- Oil fill/drain plug: G3/8 T
- Lifting port: G1/2 V1
- Lowering port: G1/2 V2
- Motor drain port: G1/4 DR

---

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998)

- M2 (T2-L2) \( n_2 = 25 \text{ rpm} \)

---

For safety reasons always keep at least 3 wraps of rope wrapped on the drum

Use 8.8 grade screws to fix the winch

Technical features may change with no previous notice from the manufacturer

---

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL

The MBL of the Rope must be verified according to the requested Safety Factors

---

Previous name: BWT20000L

motor displacement: 130 cm³/rev, Long drum

Max backpressure on return Line: 5 bar

---

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.*
The dimensions shown can be used as reference

The MBL of the Rope must be verified according to the requested Safety Factors

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<table>
<thead>
<tr>
<th>Working layers</th>
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<td>Maximum rope speed [m/min]</td>
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<td>4</td>
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<td>-</td>
</tr>
<tr>
<td>Rope length [m]</td>
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<td>19</td>
<td>31</td>
<td>45</td>
<td>61</td>
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</tr>
</tbody>
</table>

Brevini® Motor BRO080

Starting lifting pressure [bar] 220
Operating pressure [bar] 175
Maximum oil flow at the motor [l/min] 60
Minimum oil flow at the motor [l/min] 8
Static braking torque [Nm] 377
Gear ratio 144.9

Advised rope diameter [mm] 24
Oil quantity [l] 5
Weight [kg] 320
Oil fill/drain plug G3/8 T
Lifting port G1/2 V1
Lowering port G1/2 V2
Motor drain port G1/4 DR

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M2 (T2-L2) \( n_s = 25 \text{ rpm} \)

For safety reasons always keep at least 3 wraps of rope wrapped on the drum
Use 8.8 grade screws to fix the winch
Technical features may change with no previous notice from the manufacturer

THE PRESENT WINCH CAN'T BE USED FOR LIFTING OF PERSONNEL
The MBL of the Rope must be verified according to the requested Safety Factors.

The dimensions shown can be used as reference.

*The data shown in this page are ONLY FOR INFORMATION. The actual data will be issued according to Customer Application and Duty Cycle.

<table>
<thead>
<tr>
<th>Working layers</th>
<th>1</th>
<th>2</th>
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<tr>
<td>Line pull [kg]</td>
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<td>2</td>
<td>3</td>
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<td>Rope length [m]</td>
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<td>26</td>
<td>44</td>
<td>62</td>
<td>84</td>
<td>107</td>
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</tbody>
</table>

Brevini® Motor BRO100

Adviser rope diameter 26 [mm]

Starting lifting pressure 220 [bar]

Operating pressure 175 [bar]

Maximum oil flow at the motor 60 [l/min]

Minimum oil flow at the motor 8 [l/min]

Static braking torque 377 [Nm]

Gear ratio 169 [i]

Winch mechanisms classification in agreement with F.E.M. (1.001) (Third edition revised on 01.10.1998) M2 (T2-L2) \( n_2 = 25 \text{ rpm} \)

The MBL of the Rope must be verified according to the requested Safety Factors.
Pressacavo
Il pressacavo assicura il corretto avvolgimento della fune attorno al tamburo ed è altamente raccomandato quando è presente più di uno strato di fune avvolta.

Pressure Roller
The pressure roller ensures the correct spooling of the rope on the drum and is highly recommended when there is more than one layer of rope wound on the drum.

Limit Switch
Il dispositivo assicura che sul tamburo sia sempre presente un numero minimo di spire per ragioni di sicurezza, evitando che la fune si sfili dall’argano causando la caduta del carico:

• Limit switch rotativo (CLS)
• Limit switch elettrico di minima
• Limit switch idraulico di minima

Limit Switch
This device ensures a minimum number of wraps always need to be wounded on the drum for safety reason, to avoid that the rope goes away from the winch causing the fall of the load. There are several types of control:

• Rotative limit switch (CLS)
• Min electric limit switch
• Min. Hydraulic limit switch
Tamburo scanalato
Il tamburo scanalato assicura il perfetto avvolgimento della fune attorno al tamburo aumentando la sicurezza e la vita utile della fune. È altamente consigliato quando sono presenti 4 o 5 strati di fune sul tamburo.

Grooved drum
The grooved drum ensures the perfect spooling of the rope on the drum, increasing the safety and the rope life. Is highly suggested in case of 4 or 5 layers of rope on the drum.

Rulliera
La rulliera è usata per evitare carichi assiali sulla struttura dell’argano.

Roller fairlead
The roller fairlead is used to avoid side loads on the winch structure.

Predisposizione al sensore di velocità
Alberino di uscita predisposto per l’utilizzo di sensori di velocità

Speed sensor predisposition
Rotative output shaft for Speed sensor device

Fune ed accessori

Rope and accessories

Fune con redancia
Rope with thimble

Grillo
Shackle

Gancio
Hook
<table>
<thead>
<tr>
<th>Produttori</th>
<th>Oli Minerali</th>
<th>Oli Sintetici Polialfaolefine (PAO)</th>
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<tbody>
<tr>
<td></td>
<td>ISO VG 150</td>
<td>ISO VG 220</td>
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<td>Eco Gear 150 M</td>
<td>Eco Gear 220 M</td>
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<td>ARAL</td>
<td>Degol BG 50 Plus</td>
<td>Degol BG 220 Plus</td>
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<td>Renolin CLP Gear Oil 150</td>
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<td>Super Tauro S150</td>
<td>Super Tauro 220</td>
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<td>SHELL</td>
<td>Omala S2 G 150</td>
<td>Omala S2 G 220</td>
</tr>
<tr>
<td>SHELL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SUNOCO</td>
<td>Sun EP 150</td>
<td>Sun EP 220</td>
</tr>
<tr>
<td>TRIBOL</td>
<td>1100/150</td>
<td>1100/220</td>
</tr>
<tr>
<td>Produttore Manufacturer Hersteller</td>
<td>Oli Idraulici Hydraulic oils Hydrauliköle</td>
<td>Oli per ingranaggi Gear oils Getriebeöle</td>
</tr>
<tr>
<td>-----------------------------------</td>
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<tr>
<td>ISO VG 32</td>
<td>ISO VG 46</td>
<td>ISO VG 68</td>
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<td>ARAL</td>
<td>Eural Hyd 32</td>
<td>Eural Gear 150</td>
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<td>CASTROL</td>
<td>Optileb HY 32</td>
<td>Optileb GT 150</td>
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<td>CHEVRON</td>
<td>Lubricating Oil FM 32</td>
<td>Lubricating Oil FM 68</td>
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<td>ENI</td>
<td>Rocol Foodlube Hi-Power 32</td>
<td>Rocol Foodlube Hi-Torque 150</td>
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<tr>
<td>FUCHS</td>
<td>Cassida Fluid HF 32</td>
<td>Cassida Fluid HF 68</td>
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<tr>
<td>KLÜBER</td>
<td>Klüberfood 4 NH1-32</td>
<td>Klüberoil 4 UH1-150N</td>
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<td>MOBIL</td>
<td>Mobil SHC Cibus 32</td>
<td>Mobil SHC Cibus 150</td>
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<tr>
<td>MOBIL</td>
<td>DTE 32</td>
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<tr>
<td>NILS</td>
<td>Mizar 32</td>
<td>Ripress Synt Food 150</td>
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<td>TEXACO</td>
<td>Cygnus Hydraulic Oil 32</td>
<td>Cygnus Gear PAO 150</td>
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<tr>
<td>TRIBOL</td>
<td>Foodproof 1840/32</td>
<td>-</td>
</tr>
<tr>
<td>SHELL</td>
<td>Tellus S2 M 32</td>
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</table>

**TABELLA OLI LUBRIFICANTI: PER L’INDUSTRIA ALIMENTARE**

**LUBRICANT TABLE: FOR THE FOOD INDUSTRY**
Schema idraulico consigliato / Recommended hydraulic control system

Schema per rotazione oraria 01
Ramo di sollevamento V1
Clockwise rotation 01
Lifting port V1

Schema per rotazione antioraria 02
Ramo di sollevamento V2
Anti-Clockwise rotation 02
Lifting port V2

Controllo capacità min. - idraulica 01
Ramo di sollevamento V1
Capacity check min. - hydraulic 01
Lifting port V1

Controllo capacità min. - idraulica 02
Ramo di sollevamento V2
Capacity check min. - hydraulic 02
Lifting port V2
Schema idraulico consigliato / Recommended hydraulic control system

Controllo capacità min. elettrica
Ramo di sollevamento V1
Capacity check min. - electric
Lifting port V1

Controllo capacità min. elettrica
Ramo di sollevamento V2
Capacity check min. - electric
Lifting port V2
SENSE OF ROTATION --- STANDARD 01 CLOCKWISE FROM MOTOR SIDE VIEW

Rotazione ORARIA  
CW Rotation

Rotazione ANTORARIA  
CCW Rotation

Struttura tipo S  
S type structure

Struttura tipo R  
R type structure
Dana provides winches with installed rope. In compliance with regulations, the cable winding machinery ensures the pre-tensioning of cables up to a diameter of 22 mm. Correct cable winding and functioning of the limit switch, if present, are verified during this phase.

Dana fornisce argani con fune montata. La macchina avvolgi fune garantisce il pretenzionamento indicato nelle normative fino ad un diametro fune di 22 mm.

Il corretto avvolgimento e la funzionalità del Limit Switch, ove presente, vengono tenuti durante il montaggio.

To paint all surfaces correctly, the first coat is applied to the various parts before the assembling phase. The final coat is applied after the winch has been assembled. Different and customized painting cycles are available if requested by the customer.

To verniciare correttamente tutte le superfici, il primo strato è applicato prima della fase di montaggio. La finitura avviene ad argano interamente assemblato. Sono disponibili differenti e customizzati cicli di verniciatura.
Il fissaggio del motoargano deve avvenire su una superficie di spessore adeguato con buona planarità nelle zone d'appoggio supporti. Utilizzare viterie di qualità e controllare la loro coppia di serraggio.

Utilizzare distributori oleodinamici di comando argano aventi le linee V1-V2 a scarico in posizione neutra, per evitare che il freno negativo possa venire accidentalmente aperto ad argano fermoda eventuale pressione idraulica residua nelle tubazioni.

Impiegare tubazioni di mandata, ritorno e drenaggio con dimensioni interne adeguate alle portate di utilizzo e scarico.

Il tubo di drenaggio deve essere sempre collegato direttamente al serbatoio dell'olio idraulico.

Rotazione standard di sollevamento oraria ("01") guardando il lato motore. Se è richiesta la rotazione di sollevamento antioraria ("02") è necessario specificarlo all'atto dell'ordine.

Gli argani Brevini® Winches sono progettati considerando 4 strati di fune e con 5 spire minimo presenti sempre al primo strato.

Eseguire scrupolosamente le indicazioni dei costruttori delle funi e di tutto quanto richiesto dalle vigenti norme di legge.

Per circuito idraulico utilizzare olio a base minerale con additivi antisudura tipo HLP (DIN51524) o HM (ISO 6743/4) a viscosità secondo ISO VG46. Filtrazione raccomandata 10µm assoluti oppure β10-75.


È consigliato all’avviamento un funzionamento di circa 5÷10 minuti senza carico per entrambi i sensi di rotazione.

Gli argani Brevini® non sono adatti al sollevamento di persone.

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**INSTALLATION ADVICE**

The winch support frame must be fixed securely to a good level surface of adequate thickness. Use quality fixing nuts and bolts with correct torque setting.

A and B ports of the control valve must be open to tank while the control valve is in neutral position. This prevents any build up of hydraulic pressure which could cause the negative brake to accidentally open.

The supply, return and drain tubing must all be of adequate internal dimensions to support the max. working and drainage flow rates.

Draining tubing must always flow directly to the oil reservoir.

Standard hoisting direction is "01", clockwise. For anti-clockwise, "02", hoisting direction please specify when ordering.

The Brevini® winches are designed to hold 4 layers of cable of which 5 windings ever-present on the 1st layer.

Carefully follow the cable manufacturers instructions and respect all guidelines and laws ordering.

For Hydraulic oil use mineral oils with wear resistant additives, type HLP (DIN51524) or HM (ISO 6743/4) and viscosity according to ISO VG46. Recommended filtration 10µm absolute or β10-75.

For the Brevini® motorized winches, use gear oil with E.P. characteristics according to ISO VG150 or SAE 80W/90. For applications exposed to extreme temperature changes, use a syntetic oil with E.P. properties, with minimum viscosity of 165 or the class VG150-VG220.

It is recommended to turn the machinery without load for 5÷10 minutes at start-up.

The Brevini® winches are not intended to lift people.
Gli argani Brevini® sono disegnati per essere certificati da enti terzi se richiesto dal cliente.

Brevini® winches are designed to be certified by third party bodies if requested by the Customer.

Gli argani Brevini® possono lavorare a temperature comprese tra -10°C e +45°C. In caso di temperature di funzionamento inferiori a -10°C è necessario indicarlo in fase di richiesta della fornitura.

Brevini® winches are suitable for working Temperature between -10°C to +45°C. In case of working temperature lower than -10°C is necessary to indicate it in the request.
### Selection Winch Technical Sheet

#### Contact Information
- **Date:**
- **Salesman:** Requested lead time for quotation

#### Customer Details
- **Subsidiary:** [Commercial Name]
- **Contact person:** [Name]
- **Customer type:** [OEM; End User;..]
- **Product to be replaced:** [Machine Type]
- **Winches q.ty / batch:** [Winches q.ty / year]
- **Requested Lead Time Prototype:** [Requested Lead Time Series]
- **Target Price Prototype:** [Target Price Series]

#### Description of the Application
- **Winch characteristics**
  
<table>
<thead>
<tr>
<th>Winch type</th>
<th>Lifting</th>
<th>Pulling</th>
<th>Lifting person</th>
<th>Lifting person + cargo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drum</td>
<td>Smooth</td>
<td>Grooved</td>
<td>Helical left</td>
<td>Helical right</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lebus style left</td>
<td>Lebus style right</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Req. Line pull on drum [kg]</th>
<th>Rope diameter [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>At layer</td>
<td>Storage Rope Length[m]</td>
</tr>
<tr>
<td>Req. Speed on drum [m/min]</td>
<td>Working Rope Length[m]</td>
</tr>
<tr>
<td>At layer</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FEM class or Duty cycle available</th>
<th>Certifications</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standards</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ambient temperature °C</th>
<th>Operating temperature °C</th>
</tr>
</thead>
</table>

#### Exit of the rope

<table>
<thead>
<tr>
<th>Maximum dimension or other limitations</th>
<th>Drawings or indications</th>
</tr>
</thead>
</table>

#### Motor Power Supply

<table>
<thead>
<tr>
<th>Supply Frequency [Hz]</th>
<th>Max pressure available at the motor [bar]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric</td>
<td>Working Pressure [bar]</td>
</tr>
<tr>
<td>Hydraulic</td>
<td>Displacement [cc/rev]</td>
</tr>
<tr>
<td></td>
<td>Max oil flow available at the motor[l/min]</td>
</tr>
</tbody>
</table>

** Fill up only if the motor is not included into supply

#### Model*
- **Manufacturer**

#### Flange type*
- **Shaft type**

#### Electric
- **Hydraulic**

#### Accessories
- **Rope**
- **Encoder**
- **Roller fairleader**
- **Rotative Limit switch**
- **Auxiliary Brake**
- **Torque limiter**
- **Drum Rev. Counter**
- **Others:**

** if the customer has special requirements about accessories please add the specification as attachment

#### Notes/Other Special Requests

<table>
<thead>
<tr>
<th>Attachments</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

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Note

Gli accessori non sono disponibili per tutti i modelli di argano di questo catalogo. Chiedere al riferimento commerciale Dana per verifica. Nello strumento di selezione sono indicate le configurazioni possibili.

Per condizioni di lavoro diverse da quelle da catalogo fare riferimento allo strumento di selezione.

I dati nominali, le caratteristiche e le specifiche variano a seconda dell’applicazione e del duty cycle. Contattare il proprio riferimento commerciale Dana.

Ci riserviamo il diritto di modificare le nostre specifiche, configurazioni o dimensioni del prodotto in qualsiasi momento senza preavviso.

Questo catalogo sostituisce i precedenti.

Notes

The accessories are not available for all the winches models stated in this catalog. Ask to your Dana sales reference to verify. Inside the Selection Tool are indicated the feasible configurations.

In case of working conditions different than those stated on the catalog refers to the Selection Tool.

Nominal working condition, features and specifications may vary depending on the application and the duty cycle. Contact your Dana sales reference for application approval.

We reserve the right to change or modify our product specifications, configurations or dimensions at any time without notice.

The present catalogue replaces all previous editions.
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Technologies Customized to Every Part of the Globe

With a presence in 33 countries, Dana Incorporated boasts more than 145 engineering, manufacturing, and distribution facilities. Our worldwide network of local service centers provides assurance that each customer will benefit from the local proximity and responsiveness.

About Dana Incorporated

Dana is an integral partner for virtually every major vehicle and engine manufacturer worldwide. We are a leading supplier of drivetrain, sealing, and thermal technologies to the global automotive, commercial-vehicle, and off-highway markets. Founded in 1904, we employ thousands of people across six continents.

About Dana Off-Highway Drive and Motion Technologies

Dana delivers fully optimized Spicer® drivetrain and Brevini® motion systems to customers in construction, agriculture, material-handling, mining, and industrial markets. We bring our global expertise to the local level with technologies customized to individual requirements through a network of strategically located technology centers, manufacturing locations, and distribution facilities.

Learn more about Dana’s drivetrain and motion systems at dana.com/offhighway.

Dana-Industrial.com

Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.