**HOIST SYSTEMS**

**Reliability through experience**

The broad range of equipment for all types of hoisting operations has been compiled and developed based on many years’ experience. **SKIOLD LANDMECO** can therefore find an optimal solution for even the most complex constructions and systems. Furthermore, **SKIOLD LANDMECO** is a total supplier of all necessary equipment.

This brochure provides examples of hoist systems available from **SKIOLD LANDMECO**.

### Factors to be considered when choosing and dimensioning a system:

1. The components to be raised/lowered
2. The frequency with which they are to be raised/lowered
3. Component weight
4. Building design
5. Clearance requirements
6. Other installations
7. Expected service life
8. The environment to be endured
9. Other factors that burden the hoist system extraordinarily
10. Reliability

**CHOOSING A SYSTEM**

**SKIOLD** **LANDMECO** has developed central controls for hoisting feeding and drinking systems. After the house has been stocked with chickens, the individual hoisting systems must first be adjusted manually. After that, they can be controlled simultaneously with a single button.

The drinking system is lifted by the drum directly, while the feeding system usually is fitted with gearing and is lifted at half speed. Using the central controls, for every 1 cm the drinking system is raised, for example, the feeding system will thus only be raised ½ cm.

**HOISTING SYSTEM CONTROL**

**Example:**

For a housing unit with four feeding lines and five drinking lines, the controls will have nine buttons: one for each hoist motor. These buttons should be used when manually adjusting the height of each individual system.

In addition, there will be the button which activates the central control of all nine hoist motors, allowing all feeding/drinking lines to be raised/lowered simultaneously.

**HOIST SYSTEM ACCESSORIES**

**Three types of suspension cable**

The cable on which the feeding or drinking system is suspended can be steel wire, polyester rope or braided cord.

The type chosen should always be the one which best meets the requirements in the particular situation.

**Stainless or galvanised wire rope**

Wire rope is available in stainless or galvanised versions.

As there is a large difference in price between the two types, the choice of material should be based on expected service life and the environment in which the system is to be used.

**Control cabinets**

Control cabinets containing all the equipment necessary for hoist operation are available for all **SKIOLD** **LANDMECO** hoist systems.

This allows individual hoists to be activated separately, or several or all hoists to be activated simultaneously.
SKIOLDLANDMEO offers special fittings that can be adapted for all kinds of rafters and ceilings, thus ensuring that installation costs are kept at a minimum.

Large flexibility is especially shown by SKIOLDLANDMEOs bracket that can be adjusted in relation to the ceiling slope (see Figure a, b, c and d).

Single hoists can be installed either directly or with gearing if greater lifting capacity and safety are required. Various types of single hoist are available - electrically driven, with manual worm gear, and hand winched with cog gear and brake.

CENTRAL HOIST

The powerful SKIOLDLANDMEO central hoist is recommended for houses with flat ceilings or houses in which several lines must be lifted simultaneously.

This system ensures exceptionally stable operation and electrical wiring costs are minimised. If gearing is used, lifting speed and the load exerted on the hoisting gear are reduced, thus ensuring the stability and safety of hoisting operations in large houses.

Ideally, all hoist types should be located in the centre of the house.
TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worm-geared motor for single hoist</td>
<td>0.55 kW, 1400/17.5 rpm</td>
</tr>
<tr>
<td></td>
<td>0.55 kW, 1400/14.0 rpm</td>
</tr>
<tr>
<td></td>
<td>1.10 kW, 1400/14.0 rpm</td>
</tr>
<tr>
<td>Worm-geared motor for central hoist</td>
<td>1.5 kW, 1400/17.5 rpm</td>
</tr>
<tr>
<td>Manual hoist</td>
<td>350 kg, 550 kg, 750 kg and 950 kg. All with brake.</td>
</tr>
<tr>
<td>Worm gearing</td>
<td>Manual with double drum</td>
</tr>
<tr>
<td>Pulleys</td>
<td>Pulley with 50 mm dia. nylon sheave and two eyes</td>
</tr>
<tr>
<td></td>
<td>Pulley with 60 mm dia. nylon sheave and two eyes</td>
</tr>
<tr>
<td></td>
<td>Pulley with 90 mm dia. plastic sheave and shackle</td>
</tr>
<tr>
<td>Polyester rope</td>
<td>4 mm</td>
</tr>
<tr>
<td>Braided cord</td>
<td>6 mm</td>
</tr>
<tr>
<td>Wire rope</td>
<td>Galvanised wire ropes: 3, 4 and 5 mm</td>
</tr>
<tr>
<td></td>
<td>ACC 7 x 19, breaking strength: 180 kg/mm²</td>
</tr>
<tr>
<td></td>
<td>Stainless wire ropes: 3, 4 or 5 mm</td>
</tr>
<tr>
<td></td>
<td>ACC 7 x 19, breaking strength: 160 kg/mm²</td>
</tr>
<tr>
<td>Controls</td>
<td>Controls are available for specific tasks</td>
</tr>
</tbody>
</table>

**Suspension Cable:**
- **Steel Wire**
- **Braided Cord**
- **Polyester Rope**

See also SKIOLD LANDMECO brochures on, for example:

(SKIOLD LANDMECO retains the right to alter specifications without notice)