LIFTS

Lifts are mechanical devices. They transport people or freight. They move in vertical or slanted directions between two or more locations.

In a lift people or freight are in a cabin or on a platform. The platform is the load bearing part of a lift cage. The cage moves in a freight line upwards and downwards.

The cage is on a load bearing body. This body connects the cage to the lift engine.

Safety regulations for lifts are in the norms for ČSN EN (Czech Norms and Standards).

Lift have two types of drives:
1) with an electric drive
2) with a hydraulic drive

In the following picture you can see a diagram and description of the lifting engine:

In this picture there are the following positions:
1 electrical motor
2 clutch with brake
3 worm gear unit
4 cable friction pulley
5 guide pulley
6 lifting cable
We can classify electrical lifts in categories I – VI:

I. lifts for the transport of people
II. lifts mostly for the transport of people
III. lifts for health care purposes
IV. lifts for the transport of freight
V. small freight lifts
VI. lifts for buildings with intensive operations

VOCABULARY

brake  brzda

cable  lano

cage  klec

clutch  spojka

device  zařízení

downwards  dolů

downwards  strojovna

freight  náklad

health care purpose  zdravotnický účel

elevator  výtah

load bearing  nosný

platform  plošina

pulley  kladka

shaft  šachta, jáma

slanted  šikmý, nakloněný

upwards  nahoru

worm gear unit  šneková převodovka

COMPREHENSION QUESTIONS

1. What do you know about lift?
2. What is the load bearing part of the lift cage?
3. Can you describe the lifting engine?
4. How do we classify the electrical lifts in categories?
EXERCISES

1. Double puzzle
Unscramble each of the clue words. Copy the letters in the numbered cells to other cells with the same number.

ECGA

RFGITHE

SATFH

PULELY

HURCAILYD

SATPORRNT

NEGSIN

NECCOTN

TNCIOEIRD

HLCUTC

W

V
2. Choose the words from the box according to the Czech translations:

<table>
<thead>
<tr>
<th>mechanical device</th>
<th>safety regulation</th>
<th>worm gear unit</th>
<th>hydraulic drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>load bearing part</td>
<td>electrical motor</td>
<td>upwards and downwards</td>
<td></td>
</tr>
</tbody>
</table>

| a) nahoru a dolů         | ________________________ |
| b) bezpečnostní předpis | ________________________ |
| c) hydraulický pohon    | ________________________ |
| d) šneková převodovka   | ________________________ |
| e) nosná část           | ________________________ |
| f) elektromotor         | ________________________ |
| g) strojní zařízení     | ________________________ |

3. Here are four verbs. Make questions and ask partner.

move _________________________________________
drive _________________________________________
connect _________________________________________
transport _________________________________________
### 1. **LIFT WITH AN ELECTRIC DRIVE**

cage, freight, shaft, pulley, hydraulic, transport, engine, connect, direction, clutch

### 2.

<table>
<thead>
<tr>
<th>Czech Term</th>
<th>English Term</th>
</tr>
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