Product catalogue

HELGOS

VÝTAHY

ELECTRICAL COMPONENTS FOR LIFTS

CONSTRUCTION OF NEW LIFTS

RENOVATION OF LIFTS

RENOVATION OF LIFT SHAFTS

TÜV SÜD ISO 9001 · TÜV SÜD ISO 14001 · TÜV SÜD OHSAS 18001

CZECH Stability Award® AAA EXCELENTNÍ 2015

CZECH Stability Award® AAA EXCELENTNÍ 2016

CZECH Stability Award® AAA EXCELENTNÍ 2017

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Czech Top 100 ceremony at the Prague Castle

H E L G OS s.r.o. was established in 1992. Our company provides comprehensive services in the field of the design, manufacture, installation, and subsequent warranty and after-warranty servicing of all lift types, in addition to the manufacture and supply of lift switchboards and electrical components. The company has an international quality management system certificate pursuant to ČSN EN ISO 9001:2009, ČSN EN ISO 14001:2005, ČSN OHSAS 18001:2008, AUTHORIZED COMPANY, Czech Stability Award.

The services provided include the manufacture and supply of electrical systems for lifts and the construction of lifts in line with applicable regulations. For the convenience of our clients we provide complete lift servicing based on applicable regulations. Our competitive advantage lies in an integrated organization system which ensures a highly flexible response to our clients' requirements.

We currently provide contract-based servicing for approximately 1,420 lifts.

Since 1999, our company has operated its own centre for lift switchboard production.

We recently extended our production line with Mik-el microprocessor boards. The system functions are described below. The switchboards are equipped with Yaskawa frequency converters, which have proven very reliable over the years.

We supply complete turn-key electric installation to lift manufacturers. According to their requirements, it's possible to supply switchboards without a frequency converter.

Our technical support is one of our chief advantages.

Our largest customers: Czech Republic, Slovakia, Ukraine, United Kingdom.

OSVĚDČENÍ O AUTORIZACI

Helgos s.r.o.
Revoluční 8, 400 01 Ústí nad Labem

Předmět autorizace:

Osvědčení o autorizaci bylo vydáno Helgos s.r.o. na základě zjištění, že firma vykonává svojí servisní činnost zcela v souladu s požadavky

ČSN 27 4002

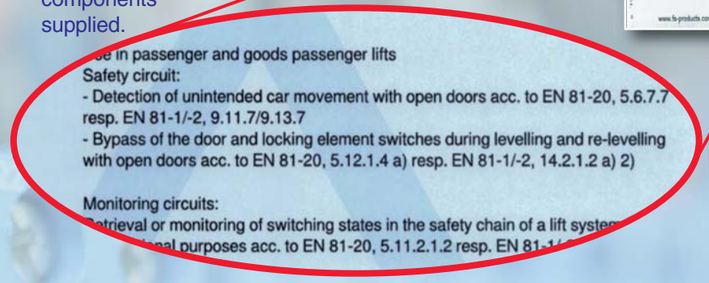
New ČSN EN 81-20/50 standard

New ČSN EN 81-20/50 standard has applied to both new and newly reconstructed lifts since 1 September 2017.
It can happen that your lift will not be approved for operation if it does not meet the conditions of this standard.
All responsibility for risks and damage caused hereby passes to the lift operator.

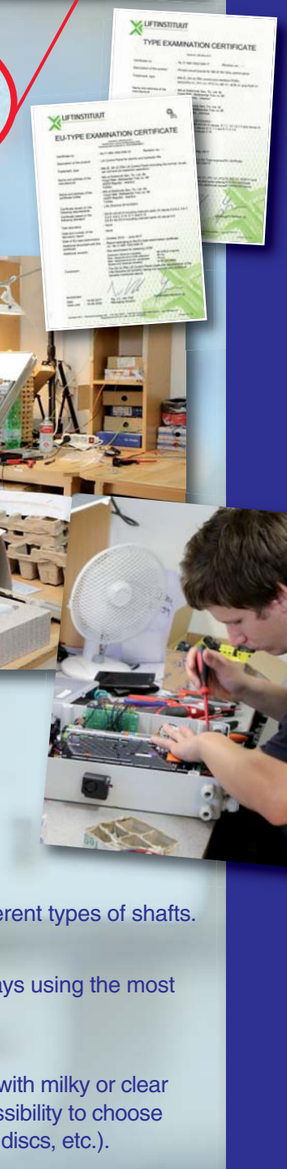
Companies performing reconstruction of original lifts or construction of a new lift must possess new valid European certificates for the components supplied.


EU Type-Examination Certificate

Reg.-No.: 01/208/4A/6121.00/17


se in passenger and goods passenger lifts
Safety circuit:
- Detection of unintended car movement with open doors acc. to EN 81-20, 5.6.7.7 resp. EN 81-1/-2, 9.11.7/9.13.7
- Bypass of the door and locking element switches during levelling and re-levelling with open doors acc. to EN 81-20, 5.12.1.4 a) resp. EN 81-1/-2, 14.2.1.2 a) 2)

Monitoring circuits:
atrieval or monitoring of switching states in the safety chain of a lift syste
nal purposes acc. to EN 81-20, 5.11.2.1.2 resp. EN 81-1


LIFTINSTITUUT
TYPE EXAMINATION CERTIFICATE

LIFTINSTITUUT
EU-TYPE EXAMINATION CERTIFICATE

Modern and safe lift from Helgos

Construction of new lifts
We offer turn-key construction of modern and efficient lifts for different types of shafts.

Reconstruction of old lifts
We offer various types of reconstruction, from partial to total, always using the most advanced lift components.

Reconstruction of lift shafts
We reconstruct and build new lift shafts covered by Rigips boards, with milky or clear safety glass according to the client's requirements. We offer the possibility to choose various handles with the safety glass variant (stainless-steel strips, discs, etc.).

Double-sided exit of cabins
The exit can be installed on the other side of the lift, opposite the back door and allow barrier-free access to residential buildings.

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AAA 2015 CZECH Stability Award

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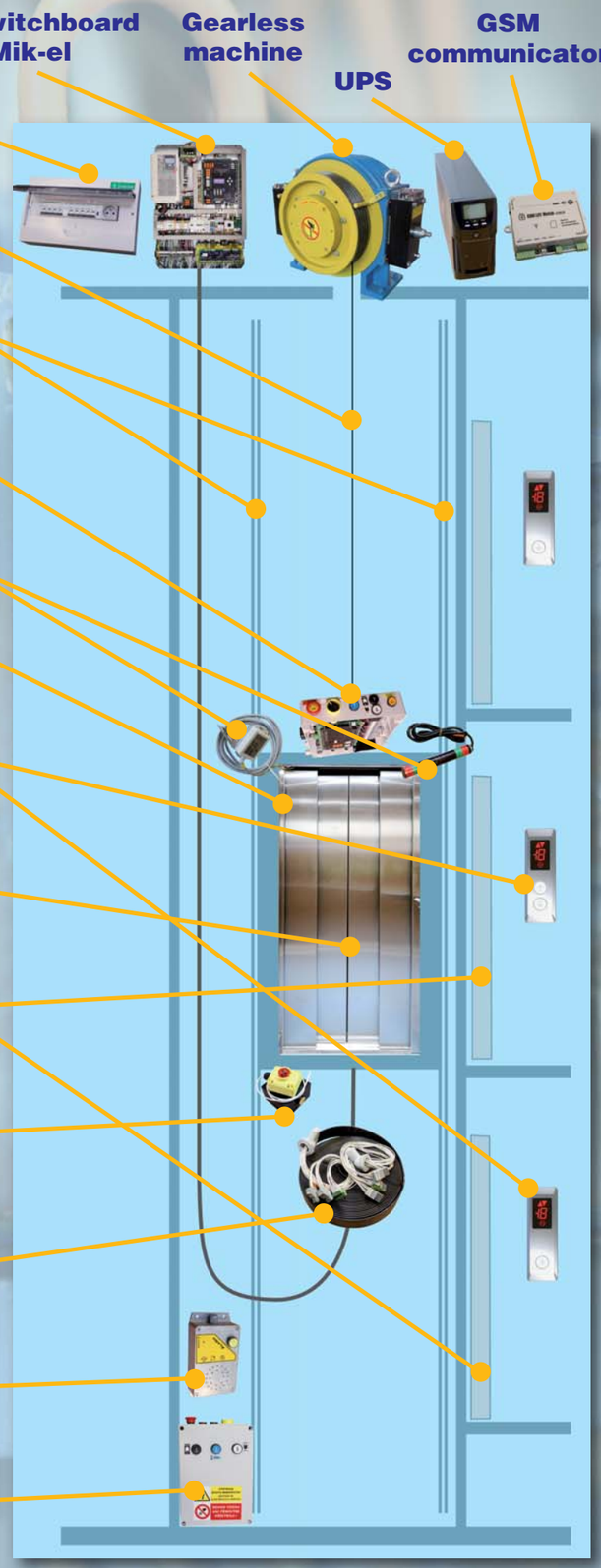
Basic lift scheme

Mik-el control system pursuant to ČSN EN 81-20/5

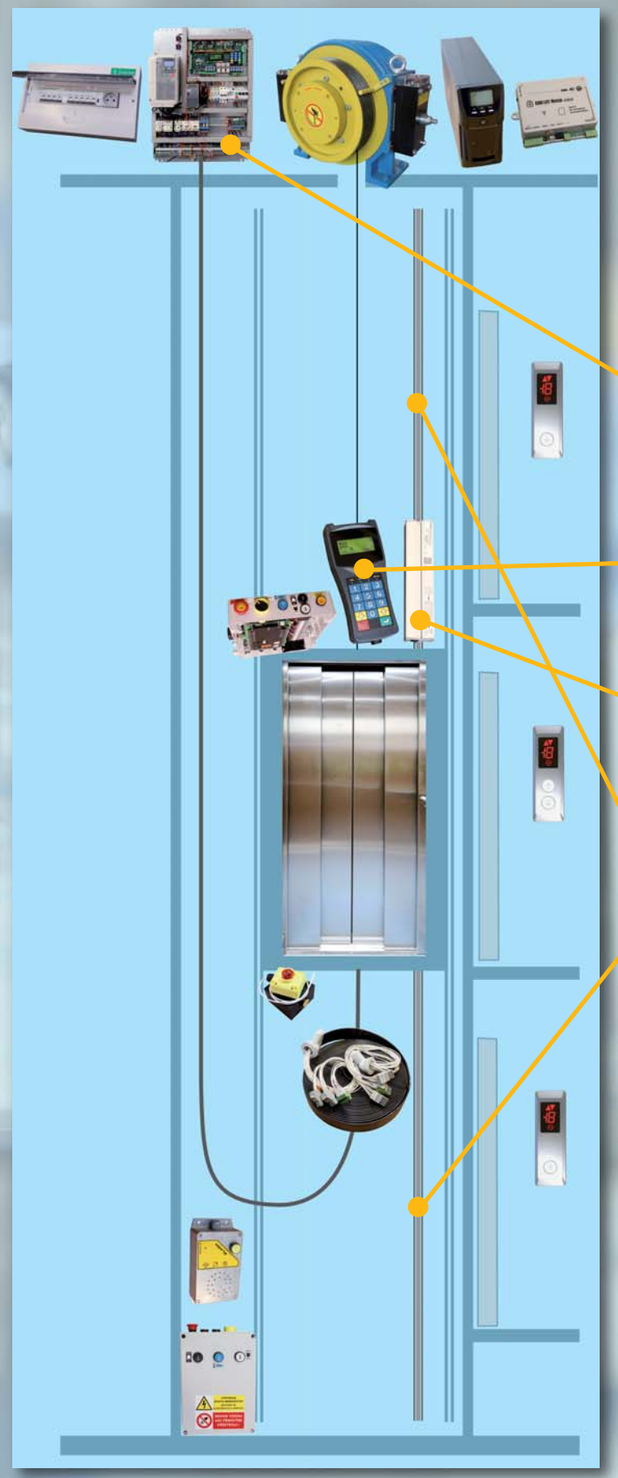


Extended lift scheme

For technically demanding facilities

(department stores, hospitals, airports)

MLC 8000 control system pursuant to ČSN EN 81-20/50



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Mik-el lift control system

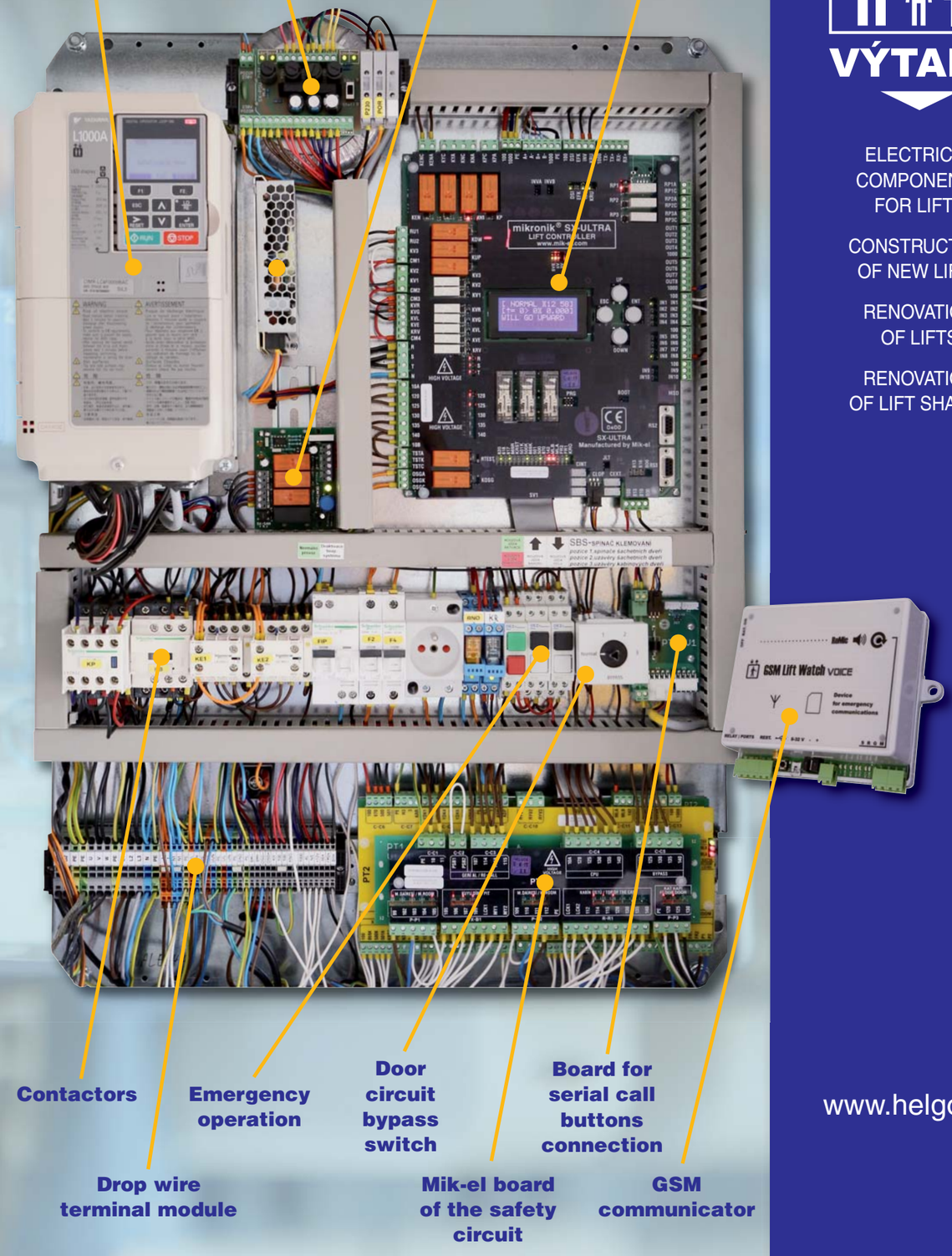
System benefits:

- CanBus – serial connection of the switchboard panel and the inspection ride box = saving the 24-wire drag cable and fault elimination.
- Power supply of processors and their circuits (9V AC) isolated from operating 24V DC = elimination of problems, HW protection during construction and operation (short circuits, voltage peaks of switching elements, etc.).
- Simple and intuitive setup of parameters and controls.
- Two integrated information displays on the main card and status LED on inputs and outputs.
- Sophisticated functions for lift testing (blocking floor switches, blocking door opening, random ride etc.) = convenient for servicing.
- Outputs to gray, binary and 7-segment displays for the cabin and for individual floors without need for an extension card or “expanders”.
- Possibility of door pre-opening and alignment for both hydraulic and cable lifts.
- Possibility of shaft copying (cabin position determination) using a machine encoder and a special magnetic sensor.
- Possibility of simple connection of emergency cabin operation with UPS in case of power failure.
- Advantageous price.
- There is no need for an external programming device (programming is done using the buttons).
- Accurate adjustment of the cabin's arrival to the specific floor is possible using the switchboard buttons, there is no need to move the magnets in the shaft.

System (board) components:

- Possibility of short floors
- Walk-through cabin doors
- A3 standard
- Phase monitor
- Floors announcement with simple set-up using an SD card
- Sound signal for buttons
- Four-row display
- Emergency descent
- Real-time fault recording
- Eight speeds for frequency converter
- Possibility of software securing with a password

Pole design



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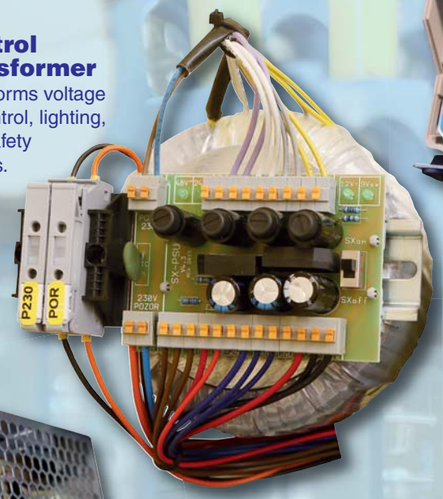
Mik-el lift control system

Frequency converter

Provides for smooth starting and stopping of the lift movement. Enables accurate cabin alignment on the specific floor. Reduces power consumption. Very high quality. Over 4,000 Yaskawa frequency converters installed. Long service life.

Control transformer

Transforms voltage for control, lighting, and safety circuits.



Emergency operation

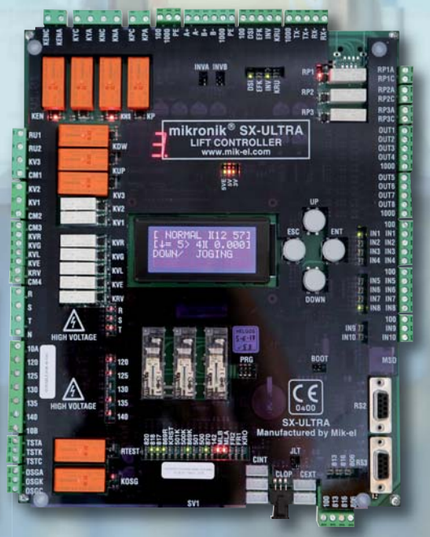
Lift operation control from the switchboard in the machine room.

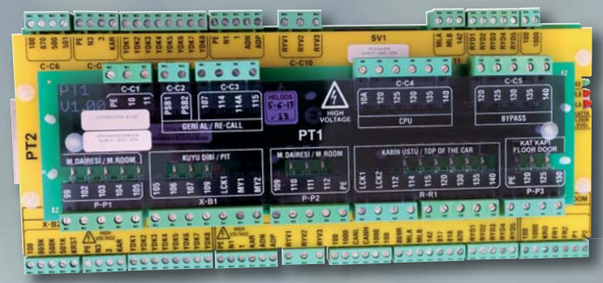
Switching source

Ensures accurate voltage for control systems.

Control microprocessor system

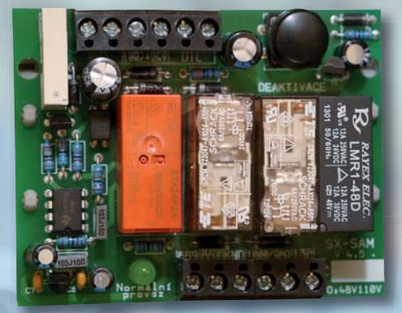
Mik-el microprocessor board controls all lift operations. It is very easy to set up as the parameters are displayed on the on-board display. Highly reliable. Annual volume is approximately 500 installed units.





Safety circuit board

Graphic/light indication of complete safety circuit facilitating quick fault identification.



Board for insufficient space in the shaft

Used in shafts with limited space. Enables lift installation even in confined shafts (safety block).

Contactors

Control converter function and thus the cabin movement. High quality Schneider products.

GSM communicator

For communication with technician in case of problems with the lift.

Screwless terminal

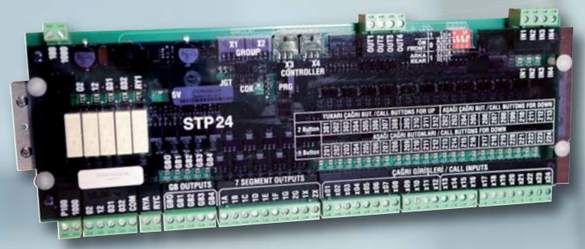
It enables quick installation and convenient service.

Board for serial call buttons connection

Speeds-up the lift construction thanks to simple connection of call buttons over a serial line.

Door circuit bypass switch (bypass)

Mandatory component according to the new standard; enables by-passing the door circuit for higher safety of service technicians.



Card for parallel call buttons

Enables parallel call button connection, thus increasing the compatibility with most call buttons as required by the customer.

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Other components

Master switch
Complies with current European standards and protects the switchboard.

Drag cables
Connect the cabin with the switchboard. Installation includes the connectors.

Acoustic and light signalling
Mandatory component pursuant to a new standard for increased service personnel safety while using the door by-pass.

Communicator in the lift cabin
User can use the communicator to reach a service technician in case of lift failure.

Inspection ride above the cabin
Enables cabin control during revisions and servicing from the cabin roof.

UPS
In case of power failure, the cabin can return to the nearest floor, including automatic door opening. It also enables manual lowering of the cabin in case of power failure through releasing the speed limiter.

Inspection ride at the bottom of the shaft
Enables lift control from the recess.

Sensors
Supply information about the cabin position and movement to the switchboard.

Shaft communicator
Enables connection with the service from the shaft recess.

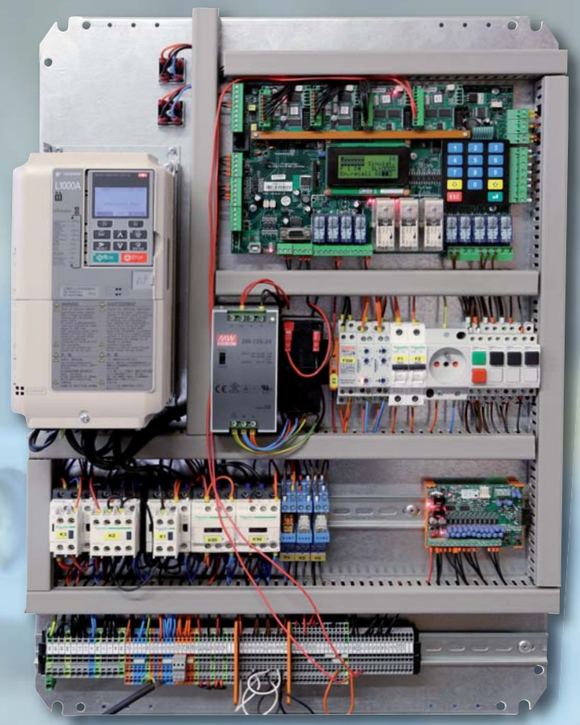
Other components only for MLC 8000 system

Programmer
For lift parameters programming and errors identification.

Absolute position sensor
Enables accurate cabin alignment. High European standard.

Magnetic tape
Accessory for absolute position sensor.

Lift switchboard MLC 8000/INTEC



Pole design

System benefits:

- Short floor available in millimetres.
- Usage of second opposite door and the possibility of selective opening for individual floors.
- Independent selections as required (side A/B).
- Application of hydraulic drives.
- Application of gearless unit control with frequency converter and feedback.
- Application of cabin position sensing for high travel speeds using an encoder.
- Application of serial line on lift cabin reducing the number of drag cables.
- Multiplex control of several lifts in a group.
- Cabin position sensing with the accuracy of 1 mm thanks to magnetic tape in the shaft.
- Portable programmable terminal for system access from the cabin or from the lift shaft.
- Possibility to connect all lift components over “CanOpenLift” bus (two individual buses), e.g., frequency converter, automatic door, weighing, cabin display…
- Advanced possibilities of performing installation test with a control system.
- Possibility of controlling a car lift, lift with cabin chairs, rope and hydraulic lifts.
- Cabin module with six programmable relays.
- Programming from PC using an USB cable (possibility of settings storage and backup to a PC).
- Possibility of remote programming and set-up over the internet.
- Group control for eight lifts.
- Eight speeds for frequency converter.
- Advanced set-up possibilities for all lift functions.
- Possibility of cabin door control with inspection ride (while servicing).
- Improved loading function.
- Advanced possibilities of adding a password for the software and hardware.
- Time record of all faults – multi-level description of individual faults.
- At least 200 rides are performed on a testing simulator before switchboard shipping.

System (board) components:

- Function for EN 81-20
- Real time recording
- Cable bends counter
- Emergency descent
- Four memory levels
- Eight programmable relays
- Programming on four-line display
- Integrated programming terminal
- Back-up power source – redundant 24 V power supply branch
- Two inputs for machine heat sensors, two on-board heat sensors (possibility to control the switchboard cabinet fan)

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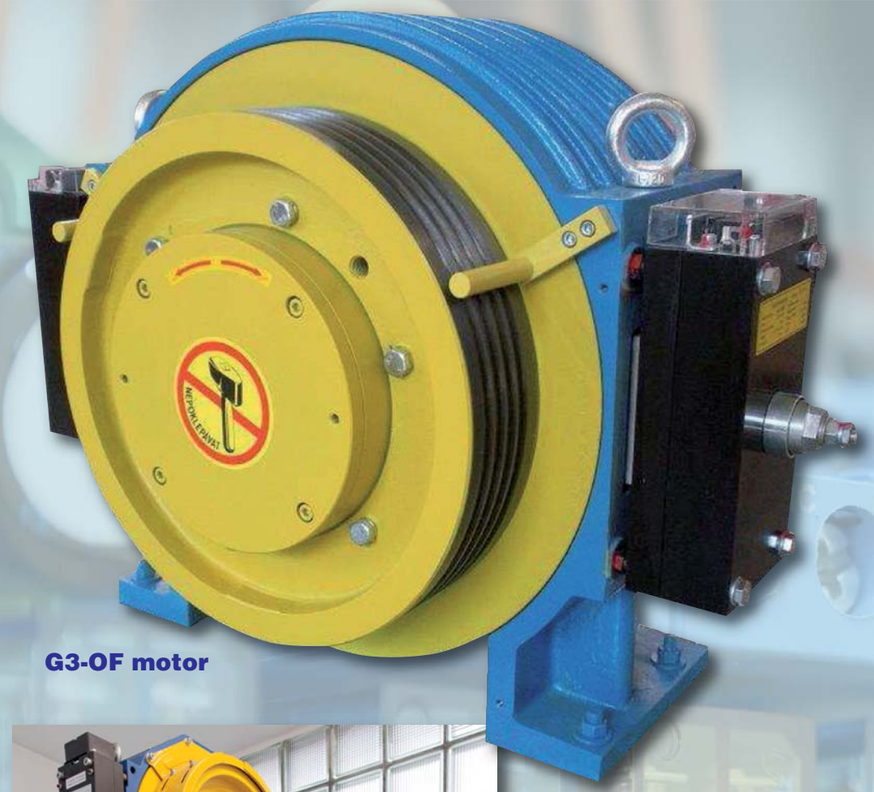
Gearless machines



G3-OF motor

INSPEKČNÍ CERTIFIKÁT

evidenční číslo: 06.411.915

vydaný dle ČSN EN ISO/IEC 17020 organizací:

HELGOS s.r.o.

Revoluční 8

400 01 Ústí nad Labem

Na základě výsledků provedených zkoušek, které jsou uvedeny v Inspekční zprávě TÜV SÜD Czech s.r.o. evidenční číslo 06.411.914 potvrzujeme shodu níže uvedeného zařízení:

Název:	Elektrický výtah osobní - trakční
Typové označení:	TÜV 3509/L0
Nosnost:	320 kg jmenovitá rychlost: 0,63 m/s
Druh výtahu:	Výtah s elektrickým bezpřevodovým strojem (BVS-61.6f)

v požadavky VDI 4707 část 1 (datum vydání 03-2009)

Energetické osvědčení výtahu podle VDI 4707

Odběr v klidovém stavu: 21,52 W (třída odběru energie A)

Třída energetické účinnosti výtahu: A

Specifický odběr při jízdě: 1,83 mWh/(kg.m) (třída odběru energie D)

Kategorie používání 2 podle VDI 4707

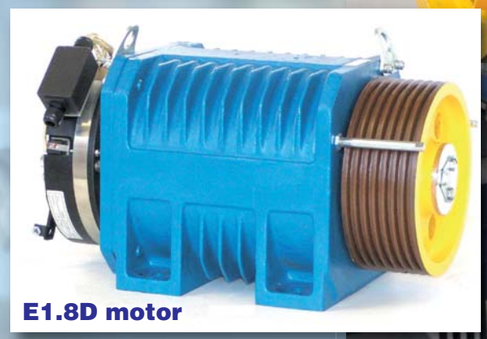
Jmenovitý roční odběr pro vedle uvedené hodnoty: 420,65 kWh

Podmínky platnosti:

Tento certifikát platí do 14. ledna 2018 při dodržení podmínek uvedených v inspekční zprávě TÜV SÜD Czech s.r.o. ev.č. 06.411.914 ze dne 14. ledna 2013, která je nedílnou součástí tohoto certifikátu.

V Ostravě, dne 14. ledna 2013

Za TÜV SÜD Czech s.r.o. Ing. Roman Prášek, Ph.D.



E1.8D motor

INSPEKČNÍ CERTIFIKÁT

evidenční číslo: 06.411.911

vydaný dle ČSN EN ISO/IEC 17020 organizací:

HELGOS s.r.o.

Revoluční 8

400 01 Ústí nad Labem

Na základě výsledků provedených zkoušek, které jsou uvedeny v Inspekční zprávě TÜV SÜD Czech s.r.o. evidenční číslo 06.411.910 potvrzujeme shodu níže uvedeného zařízení.

Název:	Elektrický výtah osobní - trakční
Typové označení:	TÜV 4507/L0
Nosnost:	400 kg jmenovitá rychlost: 1,0 m/s
Druh výtahu:	Výtah s elektrickým bezpřevodovým strojem (BVS-901.6F)

v požadavky VDI 4707 část 1 (datum vydání 03-2009)

Energetické osvědčení výtahu podle VDI 4707

Odběr v klidovém stavu: 32,78 W (třída odběru energie A)

Třída energetické účinnosti výtahu: A

Specifický odběr při jízdě: 0,68 mWh/(kg.m) (třída odběru energie B)

Kategorie používání 3 podle VDI 4707

Jmenovitý roční odběr pro vedle uvedené hodnoty: 858,15 kWh

Podmínky platnosti:

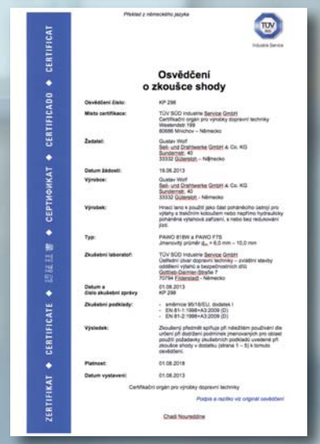
Tento certifikát platí do 14. ledna 2018 při dodržení podmínek uvedených v inspekční zprávě TÜV SÜD Czech s.r.o. ev.č. 06.411.910 ze dne 14. ledna 2013, která je nedílnou součástí tohoto certifikátu.

V Ostravě, dne 14. ledna 2013

Za TÜV SÜD Czech s.r.o. Ing. Roman Prášek, Ph.D.

W3 motor

Supporting devices



Osvědčení o zkoušce shody

Osvědčení číslo:	KP 298
Místo certifikace:	TÜV SÜD Industrie Service GmbH Certifikační orgán pro výrobky dopravní techniky Westendstr.199 80686 Mnichov – Německo
Žadatel:	Gustav Wolf Seil- und Drahtwerke GmbH & Co. KG Sundernstr. 40 59368 Werne – Německo
Datum žádosti:	19.06.2013
Výrobce:	Gustav Wolf Seil- und Drahtwerke GmbH & Co. KG Sundernstr. 40 59368 Werne – Německo
Výrobek:	Hnací lano k použití jako část poháněcího ústrojí pro výtahy s trakčním kotoučem nebo nepřímo hydraulický poháněná výtahová zařízení, s nebo bez redukování zdvi.
Typ:	PANO 818M a PANO F TS Jmenovitý průměr d_N = 8,0 mm – 10,0 mm
Zkušební laboratoř:	TÜV SÜD Industrie Service GmbH Ústředním úřadem dopravní techniky – poštovní stavby oddělení výtahů a bezpečnostních zařízení Gottlieb-Daimler-Straße 7 70794 Filderstadt – Německo
Datum a číslo zkušební zprávy	01.08.2013 KP 298
Zkušební podklady:	– směrnice 95/16/EU, dodatek I – EN 81-2:1998+A3:2009 (D) – EN 81-2:1998+A3:2009 (D)
Výsledek:	Zkoušený předmět splňuje při následném používání dle určení při dodržení podmínek jmenovaných pro oblast použití požadavky zkušebních podkladů uvedené při zkoušce shody v dodatku (strana 1 – 5) k tomuto osvědčení.
Platnost:	01.08.2018
Datum vystavení:	01.08.2013

Certifikační orgán pro výrobky dopravní techniky

Chadi Nouraddine

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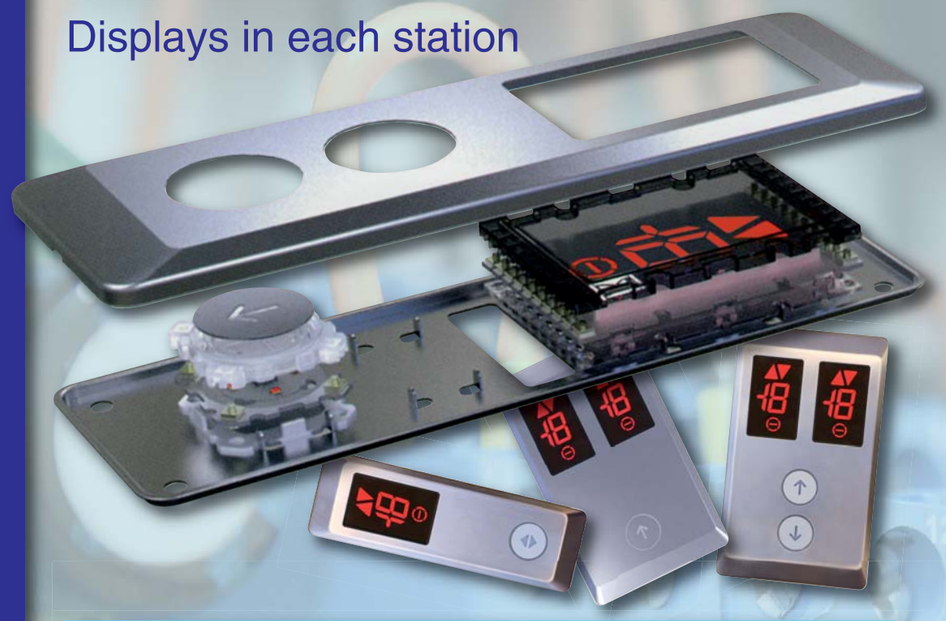
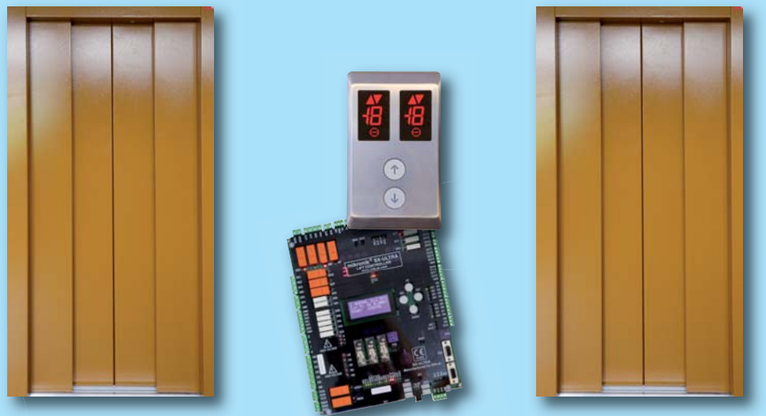
Genemek buttons

Displays in each station



Duplex control option



Serial line option

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Shaft doors

Depending on the space available in the shaft, it is possible to opt for a manually operated or automatic shaft door. The manually operated shaft door comes with a selection of window sizes and handle types. Reliable and silent operation.

Cabin door

Guarantee safety of the persons transported in the cabin. Reliable operation. Silent operation. Windows can be installed in the the bus cabin door.

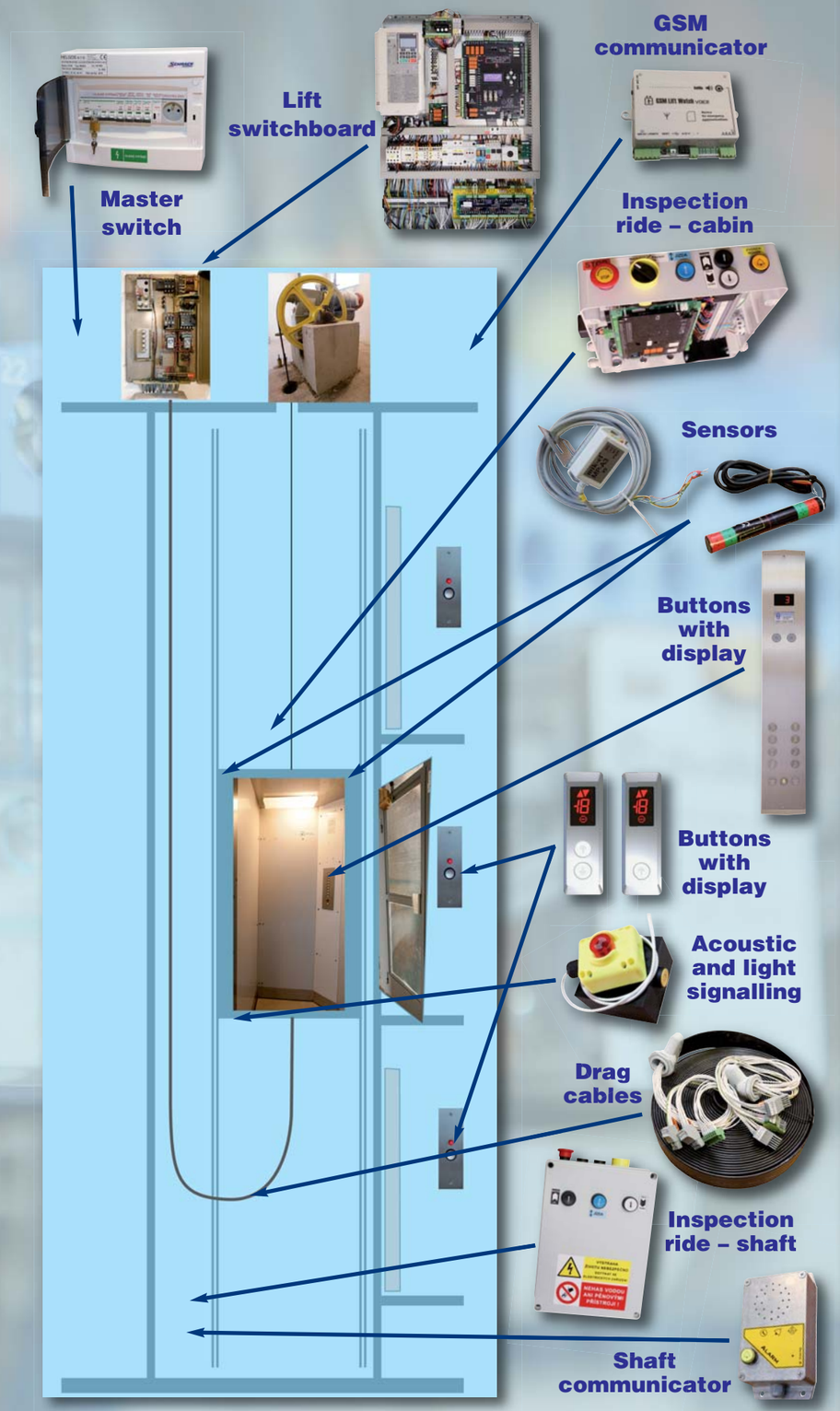
Cabins

The cabin design can be tailored to the customer's requirements. A number of Thermopal, stainless, or Komaxit coated panels are available for the cabin walls. The cabin is always designed to have the largest possible dimensions with regard to the shaft.

Refurbishment in stages

STAGE 1

Replacement of the lift switchboard and electrical system



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Refurbishment in stages

STAGE 2

Replacement of the lift machinery and accessories

Speed limiter

Gearless lift drive

UPS

Deflector pulleys

Grate

Carrier cables

STAGE 3

Installation of cabin doors and related wiring

Refurbishment in stages

STAGE 4

Replacement of the cabin, shaft doors, cabin guide rails, counterweight, and other old components

Cabin guide rails

Cabin

Shaft doors

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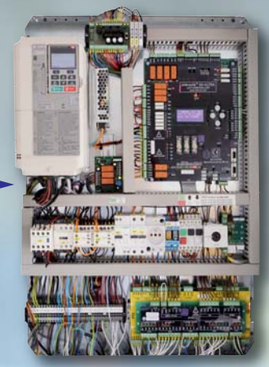
Total refurbishment in one stage

OLD LIFT



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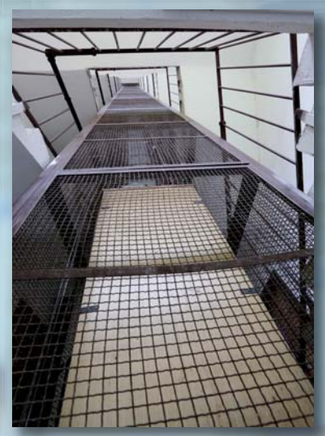
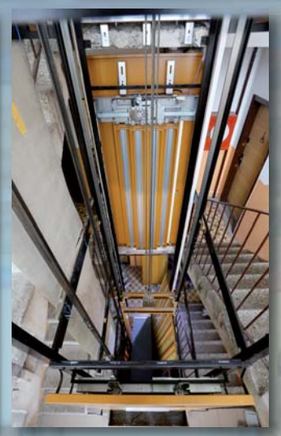
Renovation of lift shaft

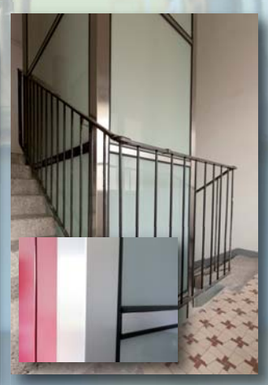


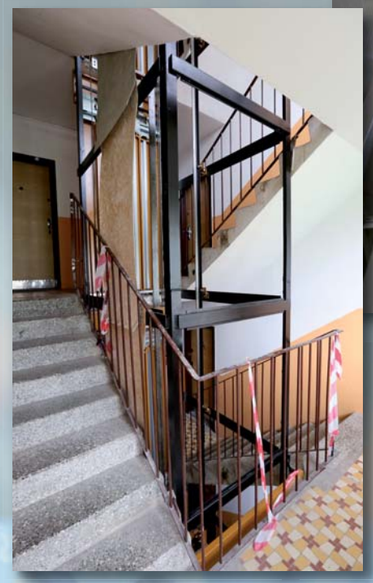

The filling of the old wire shaft will be replaced:

Variant 1
Lining with Rigips boards

Variant 2
Lining with milky safety glass on discs

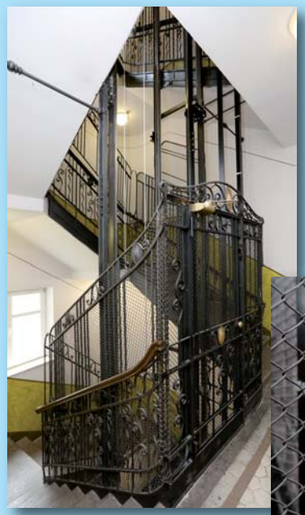


Variant 3
Lining with milky safety glass with stainless rails

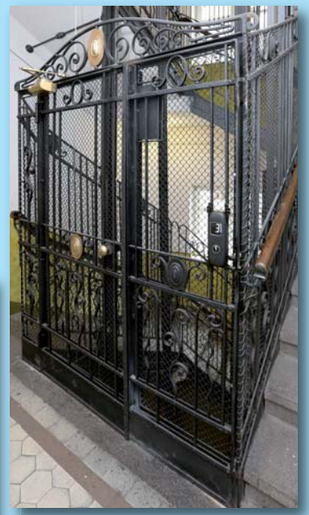





Reconstruction of the original lift



We install new, modern lifts even in old buildings, where it is necessary to maintain and only partially change the lift shaft to meet the applicable standards and at the same same, to preserve the original and beautiful appearance of the lift shaft.



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Service and technical support

Company HQ

H E L G O S s.r.o.
Revoluční 8
400 01 Ústí nad Labem
Czech Republic
Tel.: +420 475 200 842
+420 475 220 126

Czech offices

Praha, Děčín,
Frenštát pod Radhoštěm

Technical support for the Slovak Republic

MT VÝŤAHY
S. Nemčeka 185
Likavka

KaPa Lift
Južná 1531/1
Kežmarok

www.helgos.cz