To close this document,
click the button at the end of each page.

LIFT-CHAMP

Click Here To Close
This PDF Document

GIS-*CH* ELECTRIC CHAIN HOIST FROM 40 TO 5000 KG

- **COMPACT DESIGN**
- **ROBUST CONSTRUCTION**
- **EASE OF MAINTENANCE**
- **AVAILABILITY ASSURED**
- **ADVANCED TECHNOLOGY**
- **SWISS QUALITY**
- **LIFTING CAPACITY UNTIL 5000 KG**
- **PROTECTION CLASS IP 55 (OPTION IP 65)**

WORLD'S FIRST IN SAFETY

- Double slip clutch (best overload protection ever). Authority's safety test passed superbly! Five times more secure than the regulations require!
- Highest safety with brake positioned after the slip clutch
- End of chain is fixed to the hoist body
- Made for heavy use: body and covers completely built in aluminum
- Jamming of the chain excluded due to two part plastic chain guide

WORLD'S FIRST IN SERVICE AND HANDLING

- Easy adjustment of the slipping clutch
- No special tools or electronic devices required
- Disc brake system maintenance free
- Chain guide removable without disassembly of the hoist
- Easy conversion from 1 to 2 fall (double load capacity)
- Ergonomic 2 button control pendant (optional)
- Silent working due to helical gears

LIFT-CHAMP Executions
Body and cover black
With eyebolt suspension
With additional chain guide plate
2 nylon handgrips LCH250, LCH500
2 polymer handgrips, LCH1000, LCH16000, LCH2000
Without control
Without limit switch
With terminal strip
With slip clutch before brake
Without chain box or textile bag
Motor voltage 3 x 380/420 V, 50 Hz (other voltages available)
Chain safety, min. 6.4-times
Chain safety, min. 10-times
Brake voltage: first brake (others available)
With load sensor, 3 wires, Input 12-30VDC, Output 0 - 10 VDC
With control, 42 V, 50 Hz
With encoder 1024 Increments per revolution , Input: 10 - 30 VDC
Without control pendant
With second brake
Brake voltage: 2nd brake (others available)
With control, 24 DC
With geared limit switch plus emergency stops
Options:
With hook suspension
With control, 42 V, 50 Hz and geard limit switch
Possibility to install a SPS
With chain box or textile chain bag
With control switch

	VPLT SR 2.0 (VGB) Standard D8	VPLT SR 2.0 (VGB) Standard D8 PLUS acc. British Standard	VPLT SR 2.0 (VGB) Standard D8 PLUS	VPLT SR 2.0 (VGB) Standard C1	VPLT SR 2.0 (VGB) Standard C1 FU
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●		●
	●	●	●		
	●	●	●		●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
			●	●	●
	380/400 V, 50 Hz	380/400 V, 50 Hz	380/400 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
				●	●
		●			
C				●	●
	●	●	●	●	●
		●	●	●	●
		380/400 V, 50 Hz	380/400 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
				●	
		●		●	●
	●	●	●	●	●
	●		●		
				●	●
	●	●	●	●	●
	●	●	●		

- All **LIFT–CHAMP** electric chain hoist are designed for upright and for inverted use without modification
- Aluminium casting housing and covers with corrosion resistant coating
- Versatile, lifting capacity until 2000 kg, with lifting speeds up to 20 m/min (frequency inverter controlled)
- User friendly, due to simple design and easy access with pivoting cover (more on page 9)
- Jam free chain guide, built of two pieces for easy maintenance, with additional chain guide for safe operation
- Maintenance free disc brake system (more on pages 6 and 9)
- Textile chain bag for upright and inverted use (more on page 10)
- Flexible and high resistant hand grips (more on page 11)
- Suspension parts (hook or eyebolt), chain and load hook black coated available

Execution following VPLT (VGB) D8

- Eyebolt suspension
- Body and cover black
- Chain guide plate
- Two hand grips
- With terminal strip
- With slip clutch before the break

Execution following VPLT (VGB) D8PLUS

- Second break
- Eyebolt suspension
- Body and cover black
- Chain guide plate
- Two hand grips
- With terminal strip
- With slip clutch before the break
- Chain safety 10:1 (12:1) see chart below

Important information: The movement of the load over people with hoist VPLT SR 2.0 (VGB) D8 is not permitted.

Type	Load capacity single fall kg	Classification following FEM	Lifting speed 1-fall m/min at 50 Hz (at 87 Hz frequency inverter controlled)	Number of poles on Motor	Chain mm	Chain safety factor
LCH250/1NL, D8	250	1Bm	4 (6.96)	4	4	8.2
LCH500/1NL, D8	500	1Bm	4 (6.96)	4	5	6.4
LCH1000/1NL, D8	1000	1Bm	4 (6.96)	8	7	6.28
LCH2000/1NL, D8	2000	1Bm	4 (6.96)	4	10	6.4
LCH2000/1N, D8	2000	1Bm	8	2	10	6.4
AIII D8 and D8PLUS hoist are optional available with controls, geared limit switch and control pendant						
LCH250/1NL, D8PLUS	200	1Am	4 (6.96)	4	4	10.25
LCH500/1NL, D8PLUS	250	3m	4 (6.96)	4	5	12.81
LCH1000/1NL, D8PLUS	500	3m	4 (6.96)	8	7	12.55
LCH1600/1NL, D8PLUS	1000	2m	4 (6.96)	4	9	10.38
LCH1600/2N, D8PLUS	2000 (2-falls)	2m	4	2	9	10.38

Options

- Hook suspension
- Low voltage controls (42 V, 50Hz)
- Geared limit switch
- With additional emergency limits
- Ergonomic 2 bottons control pendant
- Encoder 1024 increments per revolution (D8PLUS only)

The **LIFT–CHAMP** **C1** and **C1**, **FU** (FU = frequency inverter) are specially prepared to run with frequency inverter and can be connected to a conventional control system as well. The design of the cover has enough space to build inn a small SPS. The optimization of the motor allows extreme high duties: operation of 40 % with a lifting height of 60 m is standard.

Execution VPLT SR 2.0 (VGB) C1

- Second break
- Chain guide plate
- Two hand grips
- With terminal strip
- Eyebolt suspension (optional: hook suspension)
- Body and cover black
- With slip clutch before the break
- Chain safety 10:1 (12:1)
- Sensor for load, overload and chain slack (depending on external control system)
- High resolution encoder: 1024 Increments per revolution
- Geared limit switch with standard emergency limits

Execution VPLT SR 2.0 (VGB) C1 FU

- Second break
- Chain guide plate
- Two hand grips
- With terminal strip
- Eyebolt suspension (optional: hook suspension)
- Body and cover black
- With slip clutch before the break
- Chain safety 10:1 (12:1)
- Sensor for load, overload and chain slack (depending on external control system)
- High resolution encoder: 1024 Increments per revolution
- Geared limit switch with standard emergency limits

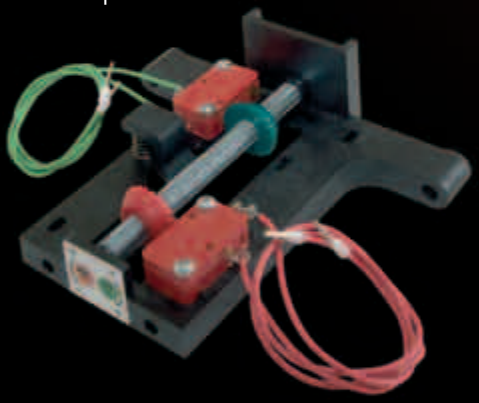
Type	Load capacity single fall kg	Classification following FEM	Lifting speed single fall m/min at 50 Hz (at 87 Hz frequency inverter controlled)	Number of poles on Motor	Chain mm	Chain safety factor
LCH250/1NL, C1	200	1Am	4	4	4	10.25
LCH250/1SL, C1	160	1Bm	6.25	4	4	12.8
LCH500/1NL, C1	250	3m	4	4	5	12.81
LCH500/1SL, C1	250	2m	6.25	4	5	12.81
LCH1000/1NL, C1	500	3m	4	8	7	12.55
LCH1000/1N, C1	500	3m	8	4	7	12.55
LCH1600/1NL, C1	1000	2m	4	4	9	10.38
LCH1600/1N, C1	1000	2m	8	2	9	10.38
LCH1600/2N, C1	2000 (2-falls)	2m	4	2	9	10.38
Electric chain hoist specially designed for use with frequency inverter following VPLT SR 2.0 (BGV) C1						
LCH250/1HL,C1,FU	100	2m	10 (17.4)	4	4	20.5
LCH500/1HL,C1,FU	200	2m	10 (17.4)	4	5	16.01
LCH1000/1N,C1,FU	500	2m	12.5 (21.7)	4	7	12.55
LCH1600/1SL,C1,FU	1000	2m	6.25 (10.88)	4	9	10.38

Brake

- Maximum safety (construction: brake after slipping clutch)
- New advanced brake design
- Unique availability
- Maintenance free

Contactor control system

- Simple technology (no electronics susceptible to interference)
- Reliable technique
- Emergency stop as a standard
- 42V control system allowing highest safety of operation



Geared limit switch (standard)

- Simple adjustment
- Exact positioning
- Lifting heights up to 120 m
- Accuracy for repetition assured
- Additional emergency limits

Transmission

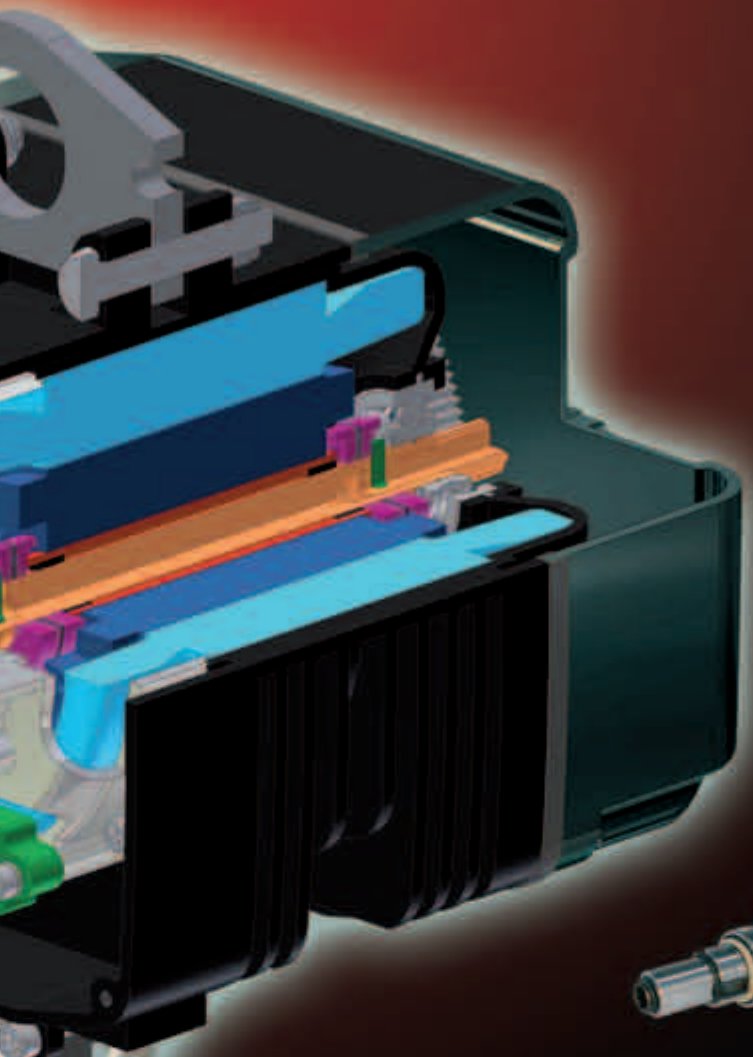
- Helical-toothed for quiet running
- Permanent lubrication for wear resistant operation

Chain wheel

- Made of hardened steel
- With additional chain pockets hence quiet running and improved running properties
- With double bearing construction

Chain guidance

- 2-part construction to optimize maintenance
- Reinforced plastic material highly wear resistant
- Safe operation jamming excluded



Slipping clutch

- Simple and precise adjustment
- Maintenance free and highly resistant to wear
- Ease of servicing thanks to comfortable access

Motor

- Design for tough working conditions
- Normal, fast and super fast speed models available
- With single or dual speed
- Option: with temperature control system
- Option: with insulation for the tropics
- Special voltages available

Optional Control switch

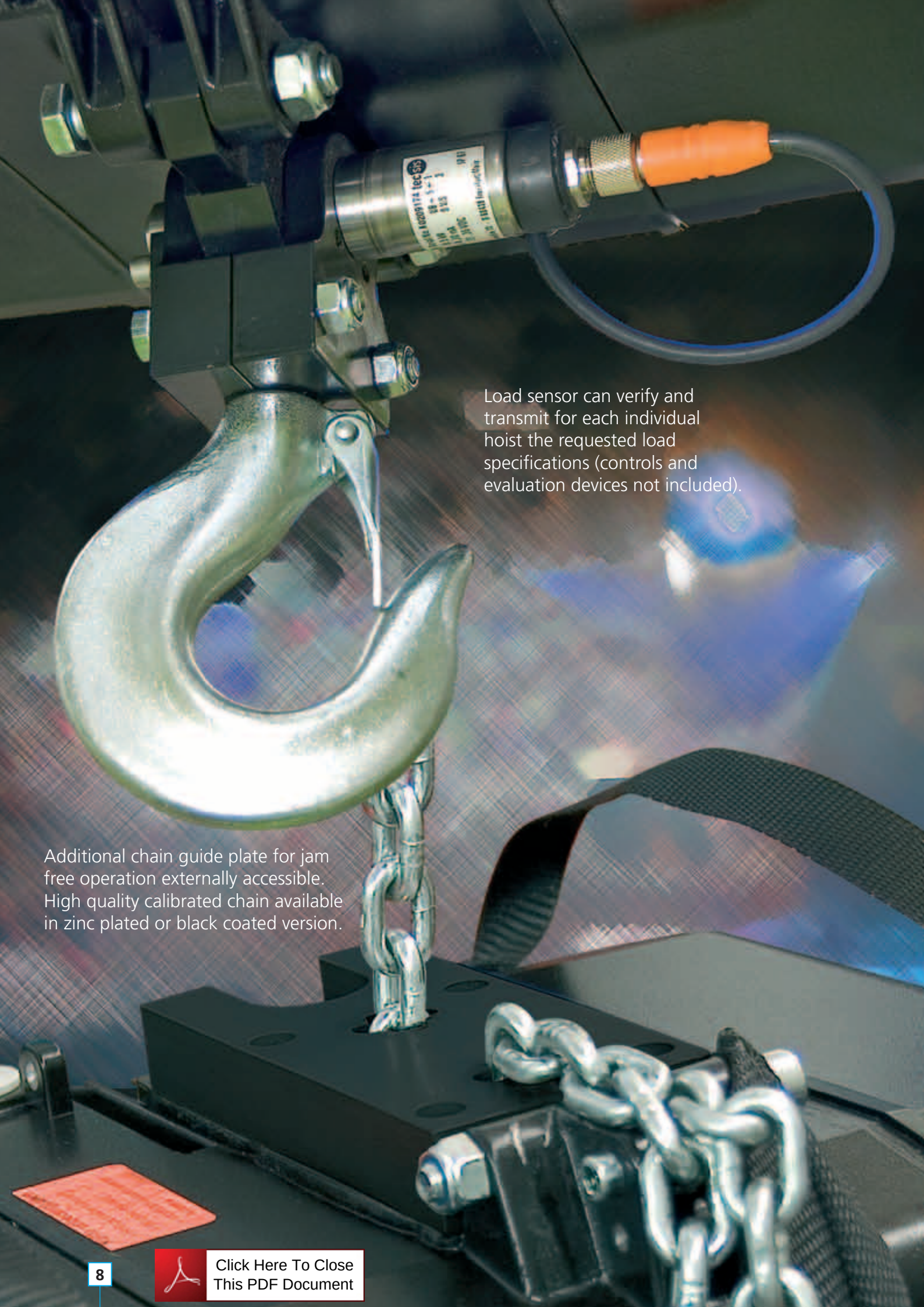
- With built-in support wire as a standard
- 2-buttons: design especially ergonomic
- Emergency stop as a standard
- Protection: IP65 to DIN 40050

Hoisting chain

- Calibrated especially for GIS
- Zinc plated
- Surface-hardened
- Quality class DAT (8SS) to FEM 9.671

Housing

- Cast aluminium housing with maximum solidity (no plastic material)
- For extreme working conditions: casted cooling gills
- Easy transformation from 1- fall to 2-falls operation: no need of dismantling



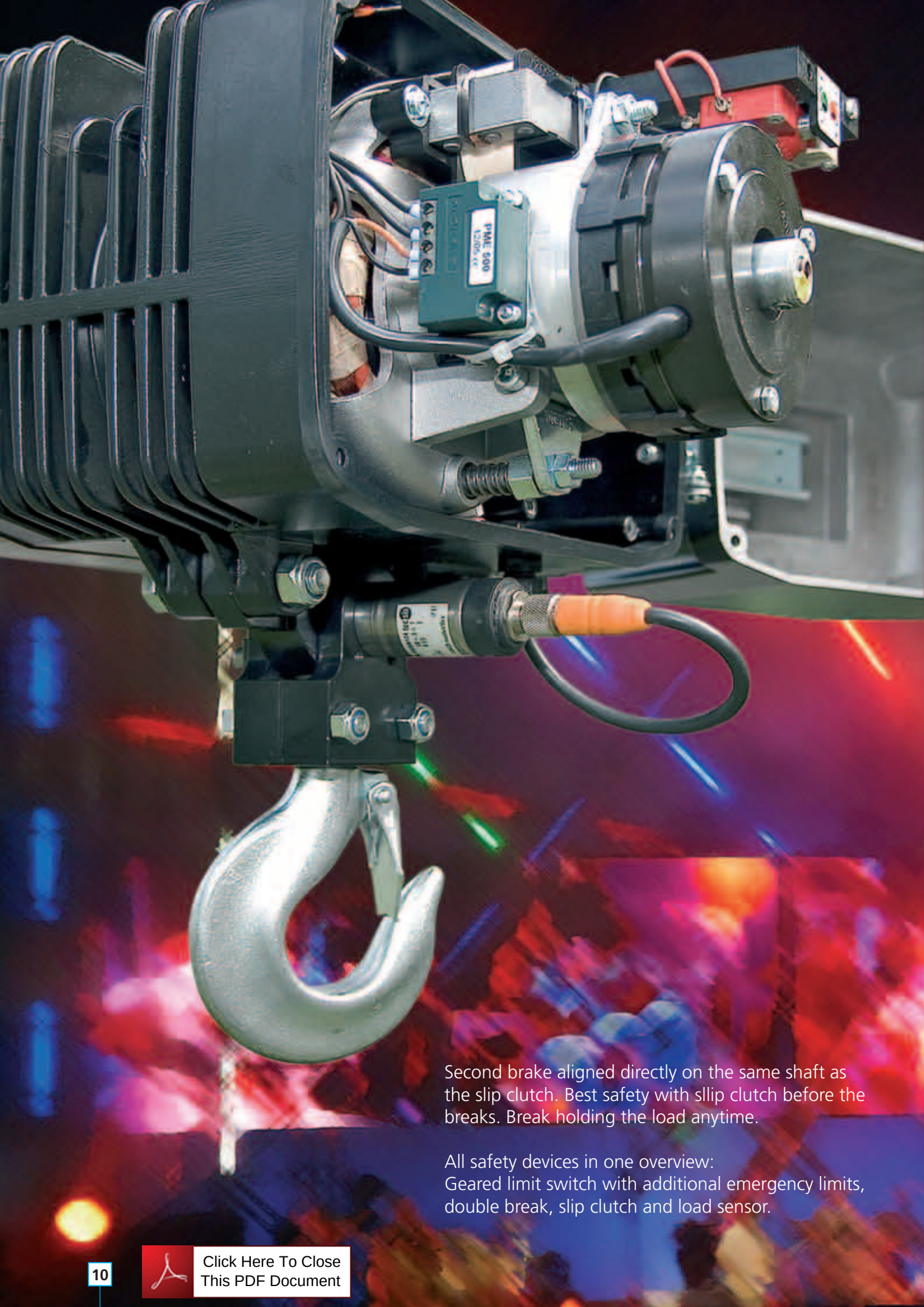
Load sensor can verify and transmit for each individual hoist the requested load specifications (controls and evaluation devices not included).

Additional chain guide plate for jam free operation externally accessible. High quality calibrated chain available in zinc plated or black coated version.

Pivoting cover for best access to geared limit switch with additional emergency limits for positionning of higher and lower hook. Easy adjustment due to open design and user friendly configuration.

High precise encoder directly placed on chain wheel with 1024 Increments per Revolution. The free space allows to built in a small SPS or a conventional control.

The variable speed version LCH....C1, FU motors are designed for heavy use 40% duty. These are connected to an external frequency inverter. Motors are reconnectable and usefull until 100 Hz.



Second brake aligned directly on the same shaft as the slip clutch. Best safety with sllip clutch before the breaks. Break holding the load anytime.

All safety devices in one overview:
Geared limit switch with additional emergency limits, double break, slip clutch and load sensor.

High resistant textile or nylon (acc. to type) handgrips for fast and secure handling.

Textile chain bag for upright and inverted use and high lifts.
Simple mounting of chain bag.
Plastic chain box for upright use and lower lifts.

You will find our representatives in more than 50 countries.

Lifting technology
Crane technology
Vacuum lifting technology

FAITH IN TECHNOLOGY.
FAITH IN GIS.

GIS customer expectations

Check of requirements
Situation analysis
Standard specifications
Objectives

+

GIS concept

Goods handling concept
Advice on solutions
Concept
Budgeting/offer

+

GIS implementation

Implementation
Planning
Delivery
Commissioning/
Installation

=

Productive solutions
Optimised costs
After-sales service
Long-term guarantee

GIS® Lifting and Crane Technology

Faith in technology. Faith in GIS.