Modernisation Catalogue

KLEEMANN™
Your 1st Choice in Lifts

Electronics

Traction

Hydraulic

Cabin and Doors

Components



Modernisation
Catalogue

02 Electronics
44 Traction
62 Hydraulic
92 Cabins and Doors
130 Components

Electronics

KLEEMANN™
Your 1st Choice in Lifts



Serial



Lisa

KLEEMANN
controllers technical data

All Kleemann controllers are manufactured according to the European directive EC 95/16 and the corredponding standards (EN 81-1,2) + Amendments that derive from it.

Characteristics		Type	
		Serial	LiSa
Number of Stops		2 up to 16	2 up to 48
Max. Speed		1,2 m/sec	3 m/sec
Lift Type / MRL Type	Hydraulic	√	√
	Hydraulic with soft starter	√	√
	Traction 2 speeds	√	√
	Traction Inverter	√	√
	Maisonlift	√	√
	Flexy	√	√
	Atlas	√	√
	Green Lift	√	√
	Box Lift (hydraulic)	√	√
Car Door	BUS with Semiautomatic	2	2
	Automatic	2*	2*
Precabling	Yes	√	√
	No	√	-
Data / Errors Display	LCD Display 16 Ch 2 lines	√	√
	Display 7 Seg 2 digits	-	-
	Greek Menu	√	-
Data transfer Supported Functions	Serial bus communication	√	√
	I/O short circuit protaction	√	-
	Firefighting – French standards	√	√
	Firefighting – English standards	√	√
	Firefighting – Australian standards	-	√
	Next Direction Arrows	√	√
	Door Close command	√	√
	Door open command	√	√
	Car load switch	√	√
	Out of order switch	√	√
	Overload	√	√
	Full Load	√	√
	Standby	√	√
	Doors preopen	-	√
	Alarm filtering	√	√
	Gong / Voice	√	√
	BMS (potential free contacts)	√	√
	BMS (online)	-	√
	Service days	√	-
	Error notifying with SMS	√	-
Cabin/Landing Operating Panels	BCD	√	√
	Decimal	√	-
	Serial displays	-	√
	Common (+)24vdc	√	-
	Common (-) 0vdc	-	√
Shaft Copy	Magnetic Proximity Sensors	√	√
	Tape Head	-	-
	Encoder LiSA	-	√
	Absolute encoder	-	√
Call's / Lift Automation	Down collective	√	√
	Full Collective/Selective	√	√
	Double selective	-	√
	Group Function	-	Up to 8
Standards	EN 81-21 (Low headroom, pit depth)	√	√
	EN 81-70 (Disabled persons)	√	√
	EN 81-72 (Firefighting)	-	√
	EN 81-73	√	√
	A3	√	√

** The second automatic door opens simultaneously with the first.*
In different cases a Magnetic Proximity Sensor must be used.

YASKAWA
L1000A Close Loop



Power (kW)	4 – 55
Overload Capability	150% for 60 sec.
Motor Types	Induction
Feedback	Surface Permanent Magnet (excluding 600V class) Interior Permanent Magnet (excluding 600V class) Incremental Absolute (Stegmann, Heidenhain EnDat, Resolver)
I/O Expansion	3 Analog Inputs -10 to +10V, 13 bit plus sign, 4 to 20mA 16 Digital Inputs (+24V for BCD speed reference) 2 Analog Outputs (-10 to +10V, 11 bit magnitude) 8 Digital Outputs (6 transistor, 2 relay)
Speed Control Accuracy	£ 0.02%: Closed Loop Vector
Speed Response	≥ 60 Hz: Closed Loop Vector

ZIEHL ABEGG
3CS



Power (kW)	5,5 – 37
Motor Types	Permanent magnet synchronous machines
Control	CAN DSP-417, galv. Isolated DCP, galv. Isolated Parallel: Free programmable control inputs and outputs, as well in binary code, galvanic isolated
Encoder	EnDat
Monitoring	Brake resistor temperature monitoring
	Motor temperature monitoring (based on IEC 61800-5-1:2003-02) Brake release monitoring Motor contactor monitoring
External service unit	ZETAPAD
Brake control	Integrated brake control for the mechanical brakes of synchronous machines

KleemaRESQ



Fulfills Lift Directive 95/16/EC, EN81-1 & EMC Directive 89/336/EEC	
Design & Production meets ISO 9001:2008 standarts	
7kW and 12kW models	
Can be placed within the main control panel	
Full compatibility with all control panels including VVF	
Modular structure, connection over connectors	
Minimum dimensions	
Optimum battery charging	
Dimensions Modular (cm)	17.5 x 29 x 15
Dimensions Wall cabinet (cm)	45 x 60 x 19
Brake voltage	110V DC
Cam voltage	110V DC
Car Door Motor Voltage	220V, 1 phase, 50 Hz.

The EVAC 3C series units are evacuation modules specifically designed for elevator technology.
The special design and integrated components facilitates simple and quick installation of the EVAC 3C on the wall in the machine room or in the elevator shaft.

The external main switch provides problem-free use with machine room less elevators.
In combination with the ZETADYN 3C, the perfect solution.

KleemaRESQ series are intelligent devices designed to return the elevator cabin to the upper or lower floor and open the door in the event of a main power failure. Their moduler structure, minimum dimensions and ready to plug-in connectors make the installation straightforward.
They can be used for the rope type elevators with three phase asynchronous motors.

Evac3C



The EVAC 3 evacuation unit switches the ZETADYN 3 into emergency operation mode and the elevator can be run at reduced speed, direction-independent.

An expensive and delayed rescue of trapped passengers by external personnel is no longer necessary.

General features

- Can be used for both synchronous and induction motors
- Can be used for ZETADYN 3 frequency inverters 11 A to 74 A
- Control cabinet installation (EVAC 3B) or wall installation (EVAC 3C)
- 60 min availability (with limited number of trips)
- Integrated mains power supply monitoring
- Integrated charger for controlled charging of lead-acid rechargeable batteries
- Operation and configuration by the ZETAPAD operating panel
- Monitoring of the battery temperature
- Performance test by digital input
- LED display for operation / malfunction
- 4 x relay outputs
- 4 x digital inputs (24 VDC)
- Battery voltage 96 VDC up to 216 VDC
- External main switch; that enables installation in the elevator shaft
- Prefabricated cables for quick installation
- Integrated power contactors for switching from normal to battery operation
- Integrated inverter 230 VAC / 500 W for supplying:
  - Elevator control
  - Cabin light
  - Door drive
  - Motor brake
- SD card slot for data backup

Additionally required components

- Main switch 3-pole (with auxiliary contact)

Code	Description
	Kleemarev
0880-44-00005	Metallic Junction Box with Inspection Controller Kleemarev Type B EU
0880-44-00002	Metallic Junction Box with Inspection Controller Kleemarev Type B UK
0880-44-00007	Metallic Junction Box with Inspection Controller Kleemarev Type B BG
0880-44-00008	Metallic Junction Box with Inspection Controller Kleemarev Serial
	Juction Box
6 60-91-00072	Metallic Junction Box 340mm x 250mm
6 60-91-00077	Metallic Junction Box 380mm x 300mm
	Pit Stop
6 60-93-0016	Pit Stop UK PQ02K (Stop+Alarm)
6 60-93-00151	Pit Stop GM399/UK (Stop + Alarm + Socket 220V + Tel. Socket)
2 80-50-00169	Pit Stop EU (Stop + Alarm + Socket 220V +T el. Socket)









Code	Description
	Flat Cable Suspension
6 88-08-00006	Flat Cable Suspension Big
6 70-36-00500	Countersunk Head Chipboard Screws M8 x 25 Galvanized
6 99-15-00000	Nail Plug Plastic ∅8mm
	Suspension for Flat Cable Suspension
3N86-00-00011	Suspension for Flat Cable Suspension Big
6 70-01-00805	Allen Screw M8x25 Galvanized (DIN 7984)
6 72-09-01200	Lock Washer M12 Galvanized
6 71-01-00800	Nut M8 Galvanized
6F21-05-00002	Clips T2 (M12x32)
6 72-01-01200	Washer ∅12 Galvanized
6 72-01-00800	Washer ∅8 Galvanized
	Position Switch
6 59-04-00024	Position Switch FR-638
6 59-04-00022	Position Switch FR-638-W3 (With Reset)
	in combination with
6 59-04-00004	Roller with Adjustable Lever LE55-4
6 59-04-00021	Position Switch FR-615-W3
6 59-04-00023	Position Switch FR-615
6 59-04-00020	Position Switch FR-215 (2No+2Nc)
6 59-04-00030	Position Switch FR-505 Mikroswitch MK V11D15
6 59-04-00028	











Position Switch







Code	Description
	in combination with
6 59-04-00029	Cover VF MKCV12 IP40 for Mikroswitch MK V11D15
6 59-04-00032	Stable Position Switch for Rope Actuation FR573
	FR5-73 in combination with
6 59-04-00029	Cover VF MKCV12 IP40 for Mikroswitch MK V11D15
	extral materials for support
6 42-07-01351	Cable Gland PG13.5 Black
6 72-09-00400	Lock Washer M4 Galvanized
6 70-36-00415	Slotted Cheese Head Machine Screw M4 X 40 Galvanized
6 71-01-00400	Nut M4 Galvanized
6 60-94-20041	Washer Ø4 Galvanized

Cable



Code	Description
6 42-00-94500	Cable 4 x 0,5 mm H03VV-F
6 42-00-92700	Cable 2 x 0,75 mm H03VV-F (White Seath)
6 42-00-92702	Cable 2 x 0,75 mm H03VV-F (Black Seath)
6 42-00-93700	Cable 3 x 0,75 mm H03VV-F
6 42-00-94700	Cable 4 x 0,75 mm H03VV-F
6 60-05-40005	Cable 5 x 0,75 mm H03VV-F JB
6 60-05-40007	Cable 7 x 0,75 mm YSLY JZ
6 60-05-40009	Cable 9 x 0,75 mm YSLY JZ
6 60-05-12000	Cable 12 x 0,75 mm YSLY JZ
6 60-05-16002	Cable 16 x 0,75 mm YSLY JZ
6 60-05-25000	Cable 25 x 0,75 mm YSLY JZ
6 60-05-90012	Cable 7 x 0,75 mm JZ (Low Smoking-Halogen Free)
6 60-05-90007	Cable 12 x 0,75 mm JZ (Low Smoking-Halogen Free)
6 60-05-90008	Cable 18 x 0,75 mm JZ (Low Smoking-Halogen Free)
6 42-00-92100	Cable 2 x 1,5 mm H05VV-F
6 42-00-93101	Cable 3 x 1,5 mm H05VV-F
6 42-00-94101	Cable 4 x 1,5 mm H05VV-F
6 42-00-95100	Cable 5 x 1,5 mm H05VV-F
6 60-05-90009	Cable 3 x 1,5 mm HO7ZZ-F (Low Smoking-Halogen Free)
6 60-05-90010	Cable 4 x 1,5 mm HO7ZZ-F (Low Smoking-Halogen Free)
6 60-05-90011	Cable 5 x 1,5 mm HO7ZZ-F (Low Smoking-Halogen Free)



6 42-00-92102	Cable 2 x 1 mm H05VV-F (White Seath)
6 60-05-51000	Cable 2 x 1 mm + 1 x 1 mm ysly lock3
6 42-00-93100	Cable 3 x 1 mm H05VV-F
6 60-05-41000	Cable 4 x 1 mm H05VV-F
6 60-05-40012	Cable 5 x 1 mm YSLY JB

Shielded



6 60-05-10000	Shielded Cable 2 x 6 x 0,25 m
6 60-05-10325	Shielded Cable 3 x 2,5 mm LIYC
6 60-05-10405	Shielded Cable 4 x 0,5 mm LIYCY
6 60-09-10704	Shielded Cable 5 x 0,75 mm LIYCY
6 60-05-11006	Shielded Cable 7 x 0,75 mm LIYCY
6 60-05-12002	Shielded Cable 12 x 0,75 mm
6 60-05-12003	Shielded Cable 12 x 0,5 mm

Travelling Flat Cable



Code	Description
6 60-05-06075	Travelling Flat Cable 6 x 0,75 H05VVH6-F6G0,75
6F03-00-01200	Travelling Flat Cable 12 x 0,75 H05VVH6-F12G0,75 (100m Packing)
6F03-00-01201	Travelling Flat Cable 12 x 0,75 H05VVH6-F12G0,75 (500m Packing)
6F03-00-01202	Travelling Flat Cable 12 x 1 NO5Z1Z1H6-F (Low Smoking-Halogen Free)
6F03-00-01600	Travelling Flat Cable 16 x 0,75 H05VVH6-F16G0,75 (100m Packing)
6F03-00-01602	Travelling Flat Cable 16 x 0,75 H05VVH6-F16G0,75 (500m Packing)
6F03-00-01800	Travelling Flat Cable 18 x 0,75 H05VVH6-F18G0,75 (100m Packing)
6F03-00-01801	Travelling Flat Cable 18 x 0,75 H05VVH6-F18G0,75 (500m Packing)
6F03-00-02000	Travelling Flat Cable 20 x 0,75 H05VVH6-F20G0,75 (100m Packing)
6F03-00-02001	Travelling Flat Cable 20 x 0,75 H05VVH6-F20G0,75 (500m Packing)
6F03-00-02400	Travelling Flat Cable 24 x 0,75 H05VVH6-F24G0,75 (100m Packing)
6F03-00-02403	Travelling Flat Cable 24 x 0,75 H05VVH6-F24G0,75 (500m Packing)
6F03-00-02404	Travelling Flat Cable 24 x 0,75 H05VVH6-F24G1,00 (500m Packing)
6F03-00-02402	Travelling Flat Cable 24 x 0,75 NO5Z1Z1H6-F24G0,75 (Low Smoking-Halogen Free)

Wiring Duct



Code	Description
6 60-04-07550	Wiring Duct 75mm x 50mm Slotted
6 60-04-10060	Wiring Duct 100mm x 60mm Metallic
6 60-04-10061	Cover For Wiring Duct 100mm x 60mm Metallic

Flat Cable Suspension



Code	Description
6 60-05-40013	Cable 4 x 2,5 mm JB
6 60-05-40014	Cable 4 x 4,0 mm JB
6 60-05-40015	Cable 4 x 6,0 mm JB
6 60-05-40016	Cable 4 x 10 mm JB
6 60-05-40017	Cable 4 x 16 mm JB
6 60-05-40025	Cable 4 x 25 mm JB
6 60-05-40008	Cable 4 x 35 mm JB
6 42-00-95200	Cable 5 x 2,5 mm JB
6 60-05-40021	Cable 5 x 4,0 mm JB
6 60-05-40020	Cable 5 x 6,0 mm JB
6 60-05-40022	Cable 5 x 10 mm JB
6 60-05-45016	Cable 5 x 16 mm JB
6 60-05-40023	Cable 5 x 25 mm JB
6 60-05-45035	Cable 5 x 35 mm JB
6 60-05-10425	Shielded Cable 4 x 2.5 mm JB
6 60-05-10441	Shielded Cable 4 x 4 mm JB
6 60-05-10461	Shielded Cable 4 x 6 mm JB
6 60-05-10410	Shielded Cable 4 x 10 mm JB
6 60-05-10416	Shielded Cable 4 x 16 mm JB
6 60-05-10426	Shielded Cable 4 x 25 mm JB
6 60-05-40035	Shielded Cable 4 x 35 mm JB



Fast Connectors







Code	Description
6 60-06-30113	Fast Connector Orange Male
6 60-06-30103	Fast Connector Orange Female
6 60-93-00109	Fast Connector Red
6 60-93-00160	Fast Connector Blue



Code	Description
	Braid of wires
6 60-05-70009	Braid of wires SC9 6 mm x 0,75mm
	in combination with
4 99-06-01000	Thimble Ø10 Galvanised DIN 6899A
6 60-05-70007	Braid of wires SC7 10mm x 0,75mm
6 60-05-70008	Braid of wires SC8 12mm x 0,75 mm
6 60-05-71008	Braid of wires SC8 12mm x 1 mm
	in combination with
6 88-08-00003	Thimble Ø12 Galvanised DIN 6899A



	Magnetic Proximity Sensor
6 45-01-00030	Magnetic Proximity Sensor No (Blue)
6 45-01-00031	Magnetic Proximity Sensor No + Nc (Yellow)
6 45-03-00002	Bi-Stable Magnetic Proximity Sensor



	Magnetic Strip
6 60-90-00020	Magnetic Strip 10cm
6 60-90-00021	Magnetic Strip 20cm



	Magnetic Base
3N43-11-00000	Base MSB for Magnetic Proximity Sensors
6 70-22-00805	Screw M8x30 Galvanised
6 72-09-00800	Lock washer M8 Galvanized
6 71-01-00800	Nut M8 Galvanized
6 72-01-00800	Washer Ø8 Galvanized



	Inductive Proximity Sensor
6 45-00-00001	Inductive Proximity Sensor No (Blue)



Code	Description
	Emergency Stops
2 80-50-00170	Push Button Station (Mushroom With Vision)



	Socket
6 60-93-00139	Socket 220V EU



6 60-93-00168	Socket 220V GB



6 60-93-00196	Socket 220V BG



6 60-91-00081	Socket 220V Station
	Junction Boxes
6 42-05-00001	Junction Box Gewiss GW44024



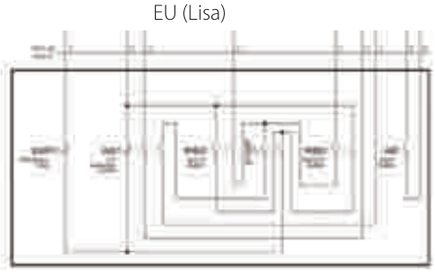
	Shaft Light
	Bulkhead shaft light
6 60-93-00500	Fluorescent lamp + 2m cable
6 60-93-00503	Cable 2 x 0,75mm 10m + Male Plug & Female Socket



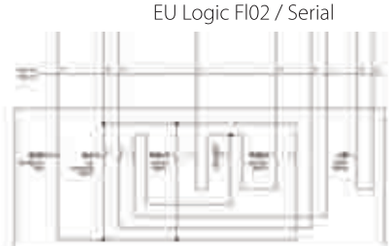


Code	Description
	Shaft Lighting
	Fluorescent lamp
6 44-00-30180	Socket
6 60-93-00394	Fluorescent lamp 18W
2 80-50-00126	Fluorescent lamp cover IP65
6 60-93-00332	Cable & Fast Connector for Fluorescent Lamp
6 60-93-00320	Cable PVC 2 x 1,5 mm
	Plastic Distribution Box
6 60-93-00458	Plastic Distribution Box 1Row / 3Poles
6 60-93-00267	Plastic Distribution Box 1Row / 12Poles
6 60-93-00261	Plastic Distribution Box 2Rows / 24Poles
6 60-93-00280	Plastic Distribution Box 3Rows / 36Poles
	Inspection Box Revision
2 80-50-00167	Inspection Box Revison EU (Lisa)

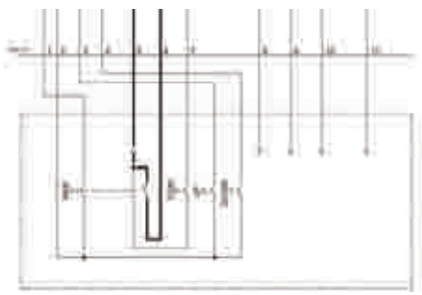
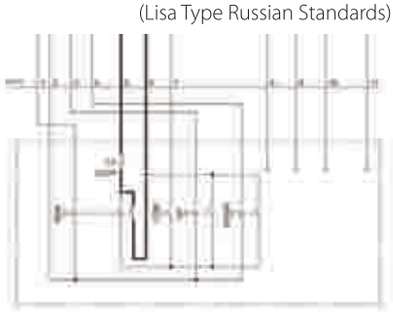
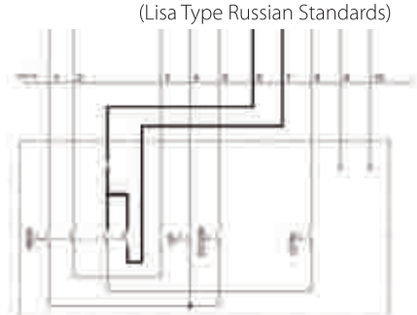


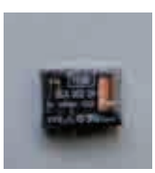


2 80-50-00155	Inspection Box Revison EU Logic Fl02 / Serial



	Code	Description
		Emergency Stops
	6 60-93-00564	Mushroom With Vision Ppfn1p4s
	6 60-93-00166	Contact Nc Pcw01 for Mushroom
		Rotary Switches
	6 60-93-00203	Rotary Switch with Latching ∅22
	6 60-93-00214	Rotary Switch without Latching ∅22
	6 60-93-00204	Contact No B1
	6 60-93-00205	Contact Nc B2

	Code	Description
		Inspection Box
	2 80-50-00161	Inspection Box (Lisa Type)
		
	2 80-50-00160	Inspection Box (Lisa Type Russian Standards)
		
	2 80-50-00159	Inspection Box (Lisa Type Russian Standards)
		

	Code	Description
		Leds
	6 60-93-00515	Led Red 12-60 AC/DC 5TG8 0561 For Light indicator
	6 60-93-00166	Contact Nc Pcw01 for Mushroom
		Auxilliary Relays with 2 Changeover Contacts
	6 60-02-52012	Auxilliary Relay 2 Changeover Contacts 12VDC
	6 60-02-52024	Auxilliary Relay 2 Changeover Contacts 24VDC
	6 60-02-52048	Auxilliary Relay 2 Changeover Contacts 48VDC
	6 60-02-52110	Auxilliary Relay 2 Changeover Contacts 110VAC
	6 60-02-52230	Auxilliary Relay 2 Changeover Contacts 230VAC
		must be combined with
	6 60-02-50002	Base for Auxilliary Relay with 2 Changeover ZD50
		depending on the relay's voltage, one of the following is required
	6 60-93-00007	Diode IN4007
	2 80-00-00001	RC Filter Type A (110VAC)
	6 60-02-50020	RC Filter 110/240VAC for Base ZD50

	Code	Description
		Intercom
	6 60-08-00006	KD-600 Intercom Master
	6 60-08-00007	KD-600/M Intercom Slave
		Leds
	6 60-93-00024	Led Red 12/24V Ø22
	6 60-93-00514	Light indicator RED 230 Vac 5TE5 800 (Logic / H32 / Serial Type)
		Auxilliary Relays with 3 Changeover Contacts
	6 60-02-53024	Auxilliary Relay 3 Changeover Contacts 12VDC
	6 60-02-53048	Auxilliary Relay 3 Changeover Contacts 24VDC
	6 60-02-53110	Auxilliary Relay 3 Changeover Contacts 48VDC
	6 60-02-53230	Auxilliary Relay 3 Changeover Contacts 110VAC
		must be combined with
	6 60-02-50011	Base for Auxilliary Relay with 3 Changeover ZPD 11 CG
		depending on the relay's voltage, one of the following is required
	6 60-93-00007	DIODE IN4007
	2 80-00-00001	RC Filter Type A (110VAC)
	2 80-50-00106	RC Filter 110/240VAC



Code	Description
	Sockets, for rail mounting
6 60-93-00140	Din Rail Socket 230VAC (Belgium)
6 60-93-00165	Din Rail Socket 230VAC (European)
6 60-93-00485	Din Rail Socket 230VAC (English)
	Sockets, for rail telephone
6 60-93-00107	Telephone Socket RJ11 (EU)
	Thermal magnetic circuit breaker
6 60-93-00031	Thermal-magnetic motor circuit-breaker GV2-ME-06 1-1.6A
	Thermal overload relays
6 60-92-50008	Overload Relay LRD16/9A-13A
6 60-92-50013	Overload Relay LRD21/12A-18A
6 60-92-50014	Overload Relay LRD22/16A-24A
	must be combined with
6 60-92-50007	Din Rail Base for Overload Relays LAD7B106
6 60-92-50015	Overload Relay LRD32/23A-32A
6 60-92-50009	Overload Relay LRD35/30-38A
6 60-92-50011	Din Rail Base for Overload Relays LA7D2064
6 60-92-50010	Overload Relay LRD3357/37A-50A
6 60-92-50012	Din Rail Base for Overload Relays LA7D3064



Code	Description
	UPS
6 60-93-00445	UPS 800VA / 220VAC Line Interactive (CL) Black Display
6 60-93-00488	UPS 2000VA / 220VAC Informer Compact (UPS.0104)
6 60-93-00489	UPS 3000VA / 220VAC Informer Compact
	Timers
6 60-93-00513	Din Rail Time Relay Multiple Functions 24-220 AC/DC 2 Contacts 7PV1508-1BW30
6 60-07-00004	Din Rail Time Relay Delay Off 24VDC (0-7 SEC) N 509
6 60-93-01012	Din Rail Time Relay Delay On 80.11.0-240
	The last 2 must be combined with
6 60-02-50008	Din Rail Base 8P ZPD 8 CG
	Impulse Latching Relays
6 60-02-00048	Step Relay 1P 16A 48VAC 20.21.8.048.0000 1N.O
6 60-93-00220	Step Relay 1P 16A 230VAC 2 0.21.8.230.0000 1N.O
	Rectifiers
6 60-93-00258	Rectifier 35A/1000V
6 60-07-00000	Phase Sequence/Failure Monitoring Relay E1PF400VES10 3Phase 400V
6 60-07-00012	Phase Sequence/Failure Monitoring Relay N510 3Ø 400V (Adjustable)
6 60-07-00003	Phase Sequence/Failure Monitoring Relay N510 3Ø 220V (Adjustable)
	The last 2 must be combined with
6 60-02-50008	Din Rail Base 8P ZPD 8 CG

Code	Description
	Schneider Contactors
6 60-02-00601	Contactor LC1K0601F7 6A / 110AC / 2,2KW (Main:3NO / Aux:1NC)
6 60-02-10901	Contactor LC1D09F7 9A / 110AC / 4KW (Main:3NO / Aux:1NO+1NC)
6 60-02-00018	Contactor LC1D18F7 18A / 110AC / 7,5KW (Main:3NO / Aux:1NO+1NC)
6 60-02-12501	Contactor LC1D25F7 25A / 110AC / 11KW (Main:3NO / Aux:1NO+1NC)
6 60-02-13201	Contactor LC1D32F7 32A / 110AC / 15KW (Main:3NO / Aux:1NO+1NC)
6 60-02-13801	Contactor LC1D38F7 38A / 110AC / 18,5KW (Main:3NO / Aux:1NO+1NC)
6 60-02-20001	Contactor Everlink LC1D50AF7 50A / 110AC / 22KW (Main:3NO / Aux:1NO+1NC)
6 60-02-20002	Contactor Everlink LC1D65AF7 65A / 110AC / 30KW (Main:3NO / Aux:1NO+1NC)
6 60-02-18011	Contactor LC 1D80F7 80A / 110AC / 37KW (Main:3NO / Aux:1NO+1NC)
	Auxiliary Contact, for Schneider Contactors
6 60-02-00904	Auxiliary Contact LA1 KN02 (2NC)
6 60-02-00902	Auxiliary Contact LA1 KN11 (1NO+1NC)
6 60-02-00903	Auxiliary Contact LA1 KN31 (3NO+1NC)
6 60-02-91020	Auxiliary Contact LAD-N02 (2NC)
6 60-02-91110	Auxiliary Contact LAD-N11 (1NO+1NC)
6 60-02-91130	Auxiliary Contact LAD-N13 (1NO+3NC)
6 60-02-91200	Auxiliary Contact LAD-N20 (2NO)
6 60-02-91220	Auxiliary Contact LAD-N22 (2NO+2NC)
6 60-02-91310	Auxiliary Contact LAD-N31 (3NO+1NC)
6 60-02-99001	Auxiliary Contact LAD8-N11 (1NO+1NC) for Side Mounting





Code	Description
	Schneider Contactors
6 60-02-19511	Contactor LC1D95F7 95A / 110AC / 45KW (Main:3NO / Aux:1NO+1NC)
6 60-02-00188	Contactor LC1D188F7 18A / 110AC (Main:2NO+2NC / Aux:1NO+1NC)
6 60-02-12580	Contactor LC1D258F7 25A / 110AC / 11KW (Main:2NO+2NC / Aux:1NO+1NC)
6 60-02-14080	Contactor LC1D40008F7 40A / 110AC / 18,5KW (Main:2NO+2NC / Aux:-)
6 60-02-16508	Contactor LC1D65008F7 65A / 110AC (Main:2NO+2NC / Aux:-)
6 60-02-18008	Contactor LC1D80008F7 80A / 110AC (Main:2NO+2NC / Aux:-)
6 60-02-11098	Contactor LC1D098P7 9A / 230AC (Main:2NO+2NC / Aux:1NO+1NC)
6 60-02-00019	Contactor LC1D18P7 18A / 220AC / 7,5KW (Main:3NO / Aux:1NO+1NC)
6 60-02-12509	Contactor LC1D25P7 25A / 230AC / 11KW (Main:3NO / Aux:1NO+1NC)
6 60-02-20009	Contactor Everlink LC1D50AP7 50A / 230AC / 22KW (Main:3NO / Aux:1NO+1NC)
6 60-02-11501	Contactor LC1D115P7 115A / 230AC / 55KW (Main:3NO / Aux:1NO+1NC)
6 60-02-15001	Contactor LC1D150P7 150A / 230AC / 75KW (MAIN:3NO / Aux:1NO+1NC)
6 60-02-13811	Contactor LC1D38ED 38A / 48DC / 18,5KW (MAIN:3NO / Aux:1NO+1NC)
6 60-02-13848	Contactor LC1D38EL 38A / 48DC / 18,5KW (MAIN:3NO / Aux:1NO+1NC) for Side Mounting





Code	Description
	Contactors Siemens
6 60-02-32015	Contactor 3RT2015-2AF01 7A / 110AC / 3KW (Main:3NO / Aux:1NO)(S)
6 60-02-32026	Contactor 3RT2026-2AF00 25A / 110AC / 11KW (Main:3NO / Aux:1NO+1NC)(S)
6 60-02-32027	Contactor 3RT2027-2AF00 32A / 110AC / 15KW (Main:3NO / Aux:1NO+1NC)(S)
6 60-02-32028	Contactor 3RT2028-2AF00 38A / 110AC / 18,5KW (Main:3NO / Aux:1NO+1NC)(S)
6 60-02-32016	Contactor 3RT2016-2AP02 9A / 230AC / 4KW (Main:3NO / Aux:1NC)(S)
6 60-02-11015	Contactor 3RT1015-1BB41 7A / 24DC / 3KW (Main:3NO / Aux:1NO)(S)
6 60-02-11034	Contactor 3RT1034-1BB40 32A / 24DC / 15KW (Main:3NO / Aux:-)(S)
6 60-02-32017	Contactor 3RT2017-2BW41 12A / 48DC / 5,5KW (Main:3NO / Aux:1NO) (For Compact)(S)
6 60-02-02026	Contactor 3RT2026-2BW40 25A / 48DC / 11KW (Main:3NO / Aux:1NO+1NC)(S)
6 60-02-02028	Contactor 3RT2028-2BW40 38A / 48DC / 18,5KW (Main:3NO / Aux:1NO+1NC) for Side Mounting



Code	Description
	Auxilliary contacts for Siemens contactors
6 60-02-93001	Auxiliary Contact 3RH1911-1FA11 (1NO+1NC) (S)
6 60-02-93000	Auxiliary Contact 3RH1911-1FA40 (4NO) (S)
6 60-02-92101	Auxiliary Contact 3RH1921-1CA01 (1NC) (S)
6 60-02-92110	Auxiliary Contact 3RH1921-1CA10 (1NO) (S)
6 60-02-91922	Auxiliary Contact 3RH1921-1EA11 (1NO+1NC) (S)
6 60-02-32900	Auxiliary Contact 3RH2911-1AA01 (1NC) (S)
6 60-02-32922	Auxiliary Contact 3RH2911-2FA22 (2NO+2NC) (S)
6 60-02-32940	Auxiliary Contact 3RH2911-2FA40 (4NO) (S)
6 60-02-32901	Auxiliary Contact 3RH2911-2HA01 (1NC) (S)
6 60-02-32910	Auxiliary Contact 3RH2911-2HA10 (1NO) (S)
6 60-02-32911	Auxiliary Contact 3RH2911-2HA11 (1NO+1NC) (S) for Side Mounting

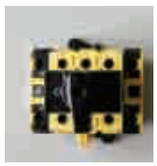


	Transformers
6 60-03-00038	Transformer 0-400V/96 340VA
6 60-03-00026	Transformer 230 / 230 500VA
6 60-03-00015	Transformer A130 240 / 12V
6 60-03-00005	Transformer A170 COMPACT 220-380-415V / 48-60-12-42-18
6 60-03-00201	Transformer A201 230V/120V 200VA (H:80mm W:96mm)
6 60-03-00040	Transformer A202 230V/24V 200VA
6 60-03-00003	Transformer A250 Compact 220-380-415 / 48-60-12-42-18
6 60-03-00007	Transformer A300 220V / 12-18-42V 300VA
6 60-03-00021	Transformer A301 220V / 0-110-220-240V
6 60-03-00002	Transformer A340 H=32 220-380-415V / 19-48-60-110-125V
6 60-03-00046	Transformer A341 H=32 220-380-415V / 19-48-60-125-140V



Code	Description
	Transformers
6 60-03-00450	Transformer A450 CompacT 220-380-415V / 48-60-12-42-18 (Evrowatt-Et %%)
6 60-03-00016	Transformer A470 0-230-380-415V / 0-15 0-28 0-48-60-110-125V 470VA
6 60-03-00019	Transformer A500 H-32 220-380-415V / 19-48-60-120V 500VA
6 60-03-00008	Transformer A501 230-380-415/ 19-60-110-125-230 500VA
6 60-03-00010	Transformer A502 H-32 220-380-415V / 19-48-60-140V 500VA
6 60-03-00045	Transformer A503 500VA (0-220V-380-415/0-170-190-210)
6 60-03-00009	Transformer A504 H-32 0-420-440-460 V / 19-48-60-120-220V 500VA (60Hz) (Marines)
6 60-03-00052	Transformer A505 H-32 220-380-415V / 19-48-60-90-120 500VA
6 60-03-00036	Transformer A620 0-230-380-415V / 0-15 0-28 0-48-60-110-125V 620VA
6 60-03-00030	Transformer A700 230-380-415V/0-19V/ 0-48-60-110-125/0-220V
6 60-03-00027	Transformer A700 230V/42V 700VA
6 60-03-00032	Transformer A860 0-230-380-415V/ 0-19/0-48-60-110-125/0-240V
6 60-03-00022	Transformer 3Phase 1000VA 380-400 / 125V
6 60-03-00039	Transformer 3Phase 1000VA 380/400V/150V
6 60-03-00060	Transformer 3Phase 500VA 220Δ/380Y (Δ to Y)
6 60-03-00018	Transformer 3Phase 500VA 380V / 140-150V
6 60-03-00004	Transformer 3Phase 500VA 380V/110-125V
6 60-03-00055	Transformer 3Phase 500VA 380Y/380Δ (Δ to Y)
	Thermostats
6 60-92-50025	Din Rail Thermostat EWDR 902/T





Code	Description
	Disconnectors
6 60-93-00180	Switch – Disconnector 4POLES 40A (SQ0320D3DL1N)
6 60-93-00182	Switch – Disconnector 4POLES 80A (SQ0630D3DL2N)
6 60-93-00183	Switch – Disconnector 4POLES 125A (SQ1250P03DL2N)
6 60-93-00184	Switch – Disconnector 4POLES 160A (SQ1600P03DL2N)
	Miniature Circuit Breakers Siemens



6 60-02-92017	Miniature Circuit Braker 1P 5SL6102-7	2A
6 60-02-92018	Miniature Circuit Braker 1P 5SL6106-6	6A
6 60-02-92003	Miniature Circuit Braker 1P	10A
6 60-02-92020	Miniature Circuit Braker 2P 5SL6206-7	6A
6 60-02-92021	Miniature Circuit Braker 3P 5SL6316-7	16A
6 60-02-92022	Miniature Circuit Braker 3P 5SL6320-7	20A
6 60-02-90326	Miniature Circuit Braker 3P 5SL6325-7	25A
6 60-02-92023	Miniature Circuit Braker 3P 5SL6332-7	32A
6 60-02-92030	Miniature Circuit Braker 3P	40A
6 60-02-92031	Miniature Circuit Braker 3P	50A
6 60-02-92032	Miniature Circuit Braker 3P	63A
6 60-02-92033	Miniature Circuit Braker 3P	80A
6 60-02-92033	Miniature Circuit Braker 3P	100A
6 60-02-92033	Miniature Circuit Braker 3P	125A
6 60-02-92024	Miniature Circuit Braker 4P 5SL6416-7	16A



6 60-02-92025	Miniature Circuit Braker 4P 5SL6420-7	20A
6 60-02-92026	Miniature Circuit Braker 4P 5SL6425-7	25A
6 60-02-92027	Miniature Circuit Braker 4P 5SL6432-7	32A
6 60-02-92029	Miniature Circuit Braker 4P 5SL6440-7	40A
6 60-02-92040	Miniature Circuit Braker 4P	50A
6 60-02-92041	Miniature Circuit Braker 4P	63A
6 60-02-92042	Miniature Circuit Braker 4P	80A
6 60-02-92043	Miniature Circuit Braker 4P	100A
6 60-02-92044	Miniature Circuit Braker 4P	125A







Code	Description
	Miniature Circuit Breakers Schneider
6 60-02-92001	Miniature Circuit Braker 1P C60A 2A
6 60-02-92002	Miniature Circuit Braker 1P C60A 6A
6 60-02-92005	Miniature Circuit Braker 1P C60A 10A
6 60-02-92016	Miniature Circuit Braker 2P C60a 6A A9F74206
6 60-02-92019	Miniature Circuit Braker 2P C60A 16A 23865
6 60-02-90316	Miniature Circuit Braker 3P C60N 16A 24602
6 60-02-90320	Miniature Circuit Braker 3P C60N 20A 24603
6 60-02-90325	Miniature Circuit Braker 3P C60N 25A 24604
6 60-02-92009	Miniature Circuit Braker 3P C60N 32A 24605
6 60-02-92010	Miniature Circuit Braker 3P C60N 40A 24606
6 60-02-92011	Miniature Circuit Braker 3P C60N 50A 24608



Code	Description
	Breakers Schneider
6 60-02-92012	Miniature Circuit Braker 3P C60N 63A 24609
6 60-02-92013	Miniature Circuit Braker 3P C120N 80A 18387
6 60-02-92014	Miniature Circuit Braker 3P C120N 100A 18388
6 60-02-92015	Miniature Circuit Braker 3P C120N 125A 18389
6 60-02-90416	Miniature Circuit Braker 4P C60N 16A 24617
6 60-02-90420	Miniature Circuit Braker 4P C60N 20A 24618
6 60-02-90425	Miniature Circuit Braker 4P C60N 25A 24619
6 60-02-90432	Miniature Circuit Braker 4P C60N 32A 24620
6 60-02-90440	Miniature Circuit Braker 4P C60N 40A 24621
6 60-02-90450	Miniature Circuit Braker 4P C60N 50A 24622
6 60-02-90463	Miniature Circuit Braker 4P C60N 63A 24623
6 60-02-90480	Miniature Circuit Braker 4P C120N 80A 18391
6 60-02-90410	Miniature Circuit Braker 4P C120N 100A 18392
6 60-02-90412	Miniature Circuit Braker 4P C120N 125A 18393



	Residual Current Circuit Breakers (RCCBs) Siemens
6 60-93-00520	Residual Current Circuit Breaker 2P 25A 30mA 5SM3312-0
6 60-93-00521	Residual Current Circuit Breaker 4P 25A 300mA 5SM3642-0
6 60-93-00522	Residual Current Circuit Breaker 4P 40A 300mA 5SM3644-0
6 60-93-00523	Residual Current Circuit Breaker 4P 63A 300mA 5SM3646-0
6 60-93-00524	Residual Current Circuit Breaker 4P 80A 300mA 5SM3647-0
6 60-93-00525	Residual Current Circuit Breaker 4P 100A 300mA 5SM3648-0
6 60-93-00526	Residual Current Circuit Breaker 4P 125A 300mA 5SM3645-0



Code	Description
	Residual Current Circuit Breakers (RCCBs) Scheider
6 60-02-92100	Residual Current Circuit Breaker 2P 25A 30mA 23009
6 60-93-00250	Residual Current Circuit Breaker 4P 25A 300mA 23040
6 60-93-00251	Residual Current Circuit Breaker 4P 40A 300mA 23045
6 60-93-00252	Residual Current Circuit Breaker 4P 63A 300mA 23049
6 60-93-00253	Residual Current Circuit Breaker 4P 80A 300mA 23054
6 60-93-00254	Residual Current Circuit Breaker 4P 100A 300mA 23056C60N 50A 24608
	Terminals



6 60-06-04921	Din Rail Terminal Ø4 mm Grey
6 60-06-04921	Din Rail Terminal Ø6 mm Grey
6 60-06-10921	Din Rail Terminal Ø10 mm Grey
6 60-06-16921	Din Rail Terminal Ø16mm Grey
6 60-06-43403	Din Rail Terminal Ø25mm Grey
6 60-06-85601	Din Rail Terminal Ø35 mm Grey



6 60-06-04924	Din Rail Terminal Ø4 mm Blue
6 60-06-06120	Din Rail Terminal Ø6 mm Blue
6 60-06-10120	Din Rail Terminal Ø10 mm Blue
6 60-06-16120	Din Rail Terminal Ø16 mm Blue
6 60-06-43404	Din Rail Terminal Ø25mm Blue
6 60-06-85634	Din Rail Terminal Ø35 mm Blue
6 60-06-41207	Din Rail Terminal Ø4 mm Green/Yellow
6 60-06-61207	Din Rail Terminal Ø6 mm Green/Yellow
6 60-06-84602	Din Rail Terminal Ø10 mm Green/Yellow



Code	Description
	Terminals
6 60-06-83602	Din Rail Terminal Ø16 mm Green/Yellow
6 60-06-43451	Din Rail Terminal Ø25 mm Green/Yellow
6 60-06-85607	Din Rail Terminal Ø35 mm Green/Yellow
6 60-06-41301	Din Rail Terminal Ø2,5mm Grey
6 60-06-41304	Din Rail Terminal Ø2,5mm Blue
6 60-06-41302	Din Rail Terminal Ø2,5mm Orange
6 60-06-09120	Din Rail Mounting Feet
6 60-06-04121	End And Intermediate Plate Ø4 mm
6 60-06-06121	End And Intermediate Plate Ø6 mm
6 60-06-10121	End And Intermediate Plate Ø10 mm
6 60-06-16121	End And Intermediate Plate Ø16 mm
6 60-06-41621	End And Intermediate Plate Ø2,5 mm
6 60-06-43013	End And Intermediate Plate Ø25 mm
	Pushbuttons, for rail mounting
6 60-93-00296	Din Rail Button 5TE4800 (1NO + 1NC) 20A With/Without Latching
6 60-93-00516	Din Rail Button 5TE4811 (2NO) 20A With/Without Latching
	Power Supllies
6 60-01-80030	Switching Power Supply 100W 24DC (RS-100-24)
6 60-01-80029	Switching Power Supply 75W 24DC (RS-75-24)
	Batteries
6 60-93-00319	Battery 12V – 2,2Ah





Tape Head
003-2 (Reader)



Code Number
4 80-00-00005

Subpart
Electronic Controller

Comment
Combined With Tape Head Tape [4 80-00-00002] -Mounting Kit [4 80-00-00003] & Tape Head Magnet [4 80-00-00004]

Proximity Switch
NO (blue)



Code Number
6 45-01-00008

Subpart
Electronic Controller

Comment
2 Contacts

Proximity Switch
NO+NC (yellow)



Code Number
6 45-01-00009

Subpart
Electronic Controller

Comment
3 Contacts

Switch Pizzato
FR 215 2NO+2NC



Code Number
6 59-04-00020

Subpart
Electronic Controller

Comment
Mounted On Revision Beam -On The Caar Top Hand Rail And On The Folded Apron (Flexy Lifts)

Switch Pizzato
FR-638-W



Code Number
6 59-04-00022

Subpart
Electronic Controller

Comment
Switch For Maintenance Phase

Switch Pizzato
FR-615 (Without Reset)



Code Number
6 59-04-00023

Subpart
Electronic Controller

Comment
Safety Gear Contact

Switch Pizzato
FR-638 (Terminal)



Code Number
6 59-04-00024

Subpart
Electronic Controller

Electronic Board
KLC-01



Code Number
6 60-01-00100

Subpart
Electronic Controller

Comment
Main Board Of Klc Controller -Old Type

Electronic Boaard
KLC-02



Code Number
6 60-01-00102

Subpart
Electronic Controller

Comment
Relevelling Board For Old Type Klc Controller

Electronic Board
KLC - DECI



Code Number
6 60-01-00103

Subpart
Electronic Controller

Comment
BCD To Decimal

CPU
KLC AT89C51ED2-3CSIM



Code Number
6 60-01-00104

Subpart
Electronic Controller

Comment
Processor For Klc Controller

PC
Board Logic



Code Number
6 60-01-00112

Subpart
Electronic Controller

Comment
Main Logic Controller Board

Board Adaptor
Logic & Chip

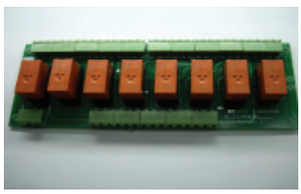


Code Number
6 60-01-00110

Subpart
Electronic Controller

Comment
For Logic Controller

Electronic Board
KD-2 Duplex 2X4 Relays



Code Number
6 60-01-00201

Subpart
Electronic Controller

Comment
Isolation Board For Duplex
In H-32 Controllers

PC
Board HL-2

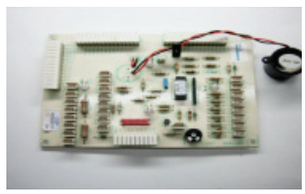


Code Number
6 60-01-00331

Subpart
Electronic Controller

Comment
Hall lanterns board

Electronic Board
Cop (421006100)



Code Number
6 60-01-00310

Subpart
Electronic Controller

Comment
Connecting Board
For Cop (With Sound)

Electronic Board
Copns (421006100)

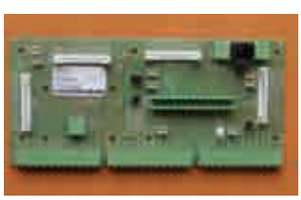


Code Number
6 60-01-00311

Subpart
Electronic Controller

Comment
Connecting Board
For Cop (Without Sound)

Electronic Board
Dis (421009100)



Code Number
6 60-01-00320

Subpart
Electronic Controller

Comment
Connecting Board
For Revision

Electronic Board
Lop (421007100)

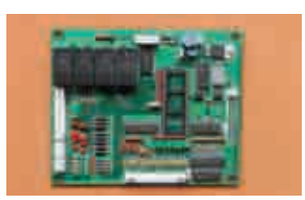


Code Number
6 60-01-00340

Subpart
Electronic Controller

Comment
Connecting Board
For Lop

Electronic Board
GL-1



Code Number
6 60-01-00700

Subpart
Electronic Controller

Comment
For The New Compact
Elevator Controller

Electronic Board
GL-2



Code Number
6 60-01-00701

Subpart
Electronic Controller

Comment
For The New Compact
Elevator Controller

Electronic Board GL-3
(Power Supply Unit
for GL-1,GL-2)



Code Number
6 60-01-00702

Subpart
Electronic Controller

Comment
For The New Compact
Elevator Controller

Power Relay Everlink
LC1D50AF7 50A / 110AC /
22KW (K:3NO / B:1NO+1NC)



Code Number
6 60-02-20001

Subpart
Electronic Controller

SL-1
Rectifier Board

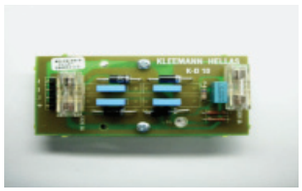


Code Number
6 60-01-00054

Subpart
Electronic Controller

Comment
For Serial Controller

Electronic Board
KD-10 3A



Code Number
6 60-01-01003

Subpart
Electronic Controller

Comment
Rectifier Board

Electronic Board
KD-10 6A



Code Number
6 60-01-01006

Subpart
Electronic Controller

Comment
Rectifier Board

Clips
ÁÊ130/2-5DS (blue)



Code Number
6 60-01-90300

Subpart
Electronic Controller

Comment
For KD-10 Boards
(2PCS /Board)

Electronic Board
BG15

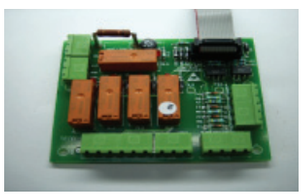


Code Number
6 60-01-01500

Subpart
Electronic Controller

Comment
Main Board
Of H-32 Controller

Electronic Board
BG16



Code Number
6 60-01-01600

Subpart
Electronic Controller

Comment
Block Of Valves
Controller Board

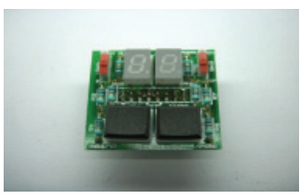
Electronic Board
KD-16 With Relays



Code Number
6 60-01-01601

Subpart
Electronic Controller

Electronic Board
BG17



Code Number
6 60-01-01700

Subpart
Electronic Controller

Comment
Diagnosis / Programming
Board Of H-32 Controller

Electronic Board
BG18



Code Number
6 60-01-01800

Subpart
Electronic Controller

Comment
Floor Extension Board
Of H-32 Controller

Electronic Board
BG19



Code Number
6 60-01-01900

Subpart
Electronic Controller

Comment
Second Automatic Door
Board Of H-32 Controller

Electronic Board
KD-20



Code Number
6 60-01-02000

Subpart
Electronic Controller

Comment
Emergency Evacuation Board

Electronic Board
BG20



Code Number
6 60-01-02001

Subpart
Electronic Controller

Comment
Duplex System
Board Of H-32 Controller

Electronic Board
BG23

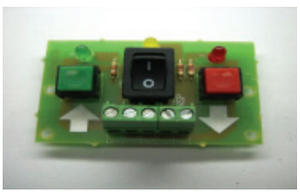


Code Number
6 60-01-02300

Subpart
Electronic Controller

Comment
Limit Switch Control
Board For Use
With Magnetic Contacts

Electronic Board
KD-50



Code Number
6 60-01-05000

Subpart
Electronic Controller

Comment
Controller Revision Board

Electronic Board
KD-50/OT



Code Number
6 60-01-05001

Subpart
Electronic Controller

Comment
Controller Revision Board

Electronic Board
N57



Code Number
6 60-01-05700

Subpart
Electronic Controller

Comment
Revision Board

Electronic Board
KD-60

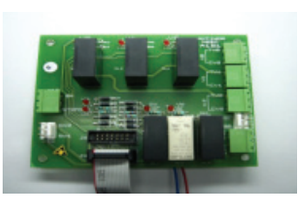


Code Number
6 60-01-06000

Subpart
Electronic Controller

Comment
Emergency Lighting Board

Electronic Board



Code Number
6 60-01-06500

Subpart
Electronic Controller

Comment
Connecting Board
For Inverter And H-32
Controller

Electronic Board
ASS N70



Code Number
6 60-01-07000

Subpart
Electronic Controller

Comment
Limit Switch Control Board
For Use With Tape Head

Electronic Board
KD-100

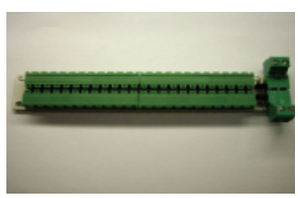


Code Number
6 60-01-10000

Subpart
Electronic Controller

Comment
Main Board For Compact
Elevator Controller

Electronic Board
KD-REV1 for
FLEX-Cables of the Revision

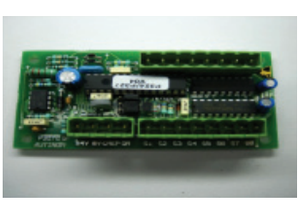


Code Number
6 60-01-20001

Subpart
Electronic Controller

Comment
For New Type
Pre-Wiring (Fl02)

Electronic Board
P327

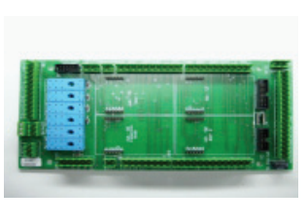


Code Number
6 60-01-32700

Subpart
Electronic Controller

Comment
De-Coding Board
For Floor-Level Indication

Electronic Board GL-3
LISA APO 14 (CLAPO14)



Code Number
6 60-01-80001

Subpart
Electronic Controller

Comment
LISA Controller

LISA Bus
Driver Board (CZLDM02)



Code Number
6 60-01-80002

Subpart
Electronic Controller

Comment
LISA Controller

Electronic Board
LISA Bus LBM9 (CLLBM08)

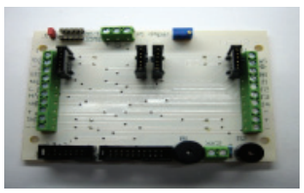


Code Number
6 60-01-80003

Subpart
Electronic Controller

Comment
LISA Controller

Electronic Board LISA
Emergency Lighting
(CELF12BES- BUZZER)

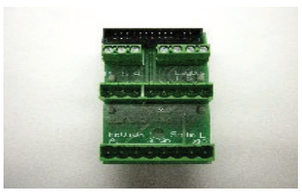


Code Number
6 60-01-80004

Subpart
Electronic Controller

Comment
LISA Controller

Electronic Board LISA
Bus for Flexcable Bus
AD2(CZBUSAD1)

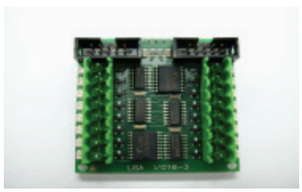


Code Number
6 60-01-80005

Subpart
Electronic Controller

Comment
LISA Controller

Electronic Board LISA
Input-Output I/O 16
(CLSRIO16)



Code Number
6 60-01-80007

Subpart
Electronic Controller

Comment
For KD-10 Boards
(2PCS /Board)

Electronic Board
BG15



Code Number
6 60-01-01500

Subpart
Electronic Controller

Comment
LISA Controller

Electronic Board LISA
10-10 (CLSRLISA10)



Code Number
6 60-01-80013

Subpart
Electronic Controller

Comment
LISA Controller

Single Phase
Power Supplier
Switching 75W 24DC



Code Number
6 60-01-80029

Subpart
Electronic Controller

Comment
Switching type power
suppliers for Lisa controllers

Single Phase Supplier
Switching 100S 24DC
(RS-100-24)



Code Number
6 60-01-80030

Subpart
Electronic Controller

Comment
Switching type power
suppliers for Lisa controllers

FL
Contact 48VAC



Code Number
6 60-02-00048

Subpart
Electronic Controller

Comment
For Shaft Lighting Check

Microswitch
C60A 1P 2A



Code Number
6 60-02-92001

Subpart
Electronic Controller

Comment
Control Switch Inside
The Controller
Only For Compact

Microswitch
C60A 1P 6A



Code Number
6 60-02-92002

Subpart
Electronic Controller

Comment
Control Switch Inside
The Controller
(For All Types Of Controllers)

Thermomagnetic Switch
1P 1A GB2-CB06



Code Number
6 60-02-92004

Subpart
Electronic Controller

Microswitch Double
C60a 23863 (6A)



Code Number
6 60-02-92016

Subpart
Electronic Controller

Comment
Control Switch
Inside The Controller

Microswitch
2A (Siemens) 5SJ6102-7



Code Number
6 60-02-92017

Subpart
Electronic Controller

Comment
Control Switch
Use Only For Compact

Microswitch
6A (Siemens)



Code Number
6 60-02-92018

Subpart
Electronic Controller

Comment
Control Switch Inside
The Controller

Transformer A340
H=32 220-380-415V /
19-48-60-110-125V



Code Number
6 60-03-00002

Subpart
Electronic Controller

Comment
Main Controller Transformer

Transformer A250
Compact 220-380-415 /
48-60-12-42-18

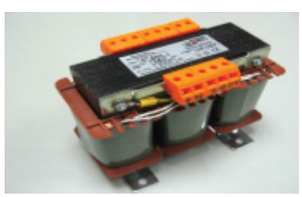


Code Number
6 60-03-00003

Subpart
Electronic Controller

Comment
Transformer Placed Inside The
Controller

Transformer
380V/110-125V/500VA



Code Number
6 60-03-00004

Subpart
Electronic Controller

Comment
Transformer Placed Inside
The Controller Or The
Car Ceiling

Transformer A170
Compact 220-380-415V /
48-60-12-42-18



Code Number
6 60-03-00005

Subpart
Electronic Controller

Comment
Transformer Placed Inside
The Controller

Transformer A300
(For Lights)
220V / 12-18-42V 300VA



Code Number
6 60-03-00007

Subpart
Electronic Controller

Comment
Transformer Placed Inside
The Controller Or The Car
Ceiling

Transformer A501
230-380-415/
19-60-110-125-230 500VA



Code Number
6 60-03-00008

Subpart
Electronic Controller

Comment
Transformer Placed Inside
The Controller

Transformer A502
H-32 220-380-415V /
19-48-60-140V 500VA



Code Number
6 60-03-00010

Subpart
Electronic Controller

Comment
Transformer Placed Inside
The Controller

Transformer A500
H-32 220-380-415V /
19-48-60-120V 500VA



Code Number
6 60-03-00019

Subpart
Electronic Controller

Comment
Transformer Placed Inside
The Controller

Transformer A201
230V/120V 200VA (H:80mm
W:96mm)



Code Number
6 60-03-00201

Subpart
Electronic Controller

Comment
Transformer Basically
On Atlas Lifts

Transformer A470
0-230-380-415V / 0-15 0-28
0-48-60-110-125V 470VA



Code Number
6 60-03-00016

Subpart
Electronic Controller

Comment
Transformer
For Serial Controller

Transformer A620
0-230-380-415V / 0-15 0-28
0-48-60-110-125V 620VA



Code Number
6 60-03-00036

Subpart
Electronic Controller

Comment
Transformer
For Serial Controller

Orange 3
Pole Bridge Female 730-103



Code Number
6 60-06-30103

Subpart
Electronic Controller

Comment
Prewiring Security
Systems Device

Orange 3
Pole Bridge Male 730-113



Code Number
6 60-06-30113

Subpart
Electronic Controller

Comment
Prewiring Security
Systems Device

Phase Failure Relay
N510 3Ø 400V



Code Number
6 60-07-00000

Subpart
Electronic Controller

Comment
Placed Inside
The Controller

Phase Failure Relay
N510 3Φ 220V



Code Number
6 60-07-00003

Subpart
Electronic Controller

Comment
Placed Inside The Controller

KD-600
Intercom Master

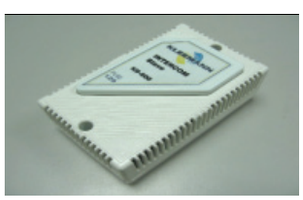


Code Number
6 60-08-00006

Subpart
Electronic Controller

Comment
Peripheral Controller Device

KD-600/M
Intercom Slave

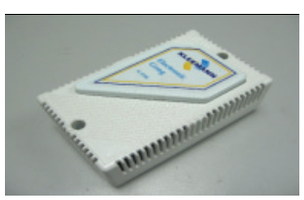


Code Number
6 60-08-00007

Subpart
Electronic Controller

Comment
Peripheral Controller Device

KD-30 3
Tone Gong



Code Number
6 60-08-00014

Subpart
Electronic Controller

Comment
Peripheral Controller Device

New voice
8170 (421013000 VOC)



Code Number
6 60-08-00024

Subpart
Electronic Controller

Comment
Peripheral Controller Device For
Floor Announcement

Voice
PC Board



Code Number
6 60-08-00026

Subpart
Electronic Controller

Voice loudspeaker
10cm cable 2x0,50mm



Code Number
6 60-08-00027

Subpart
Electronic Controller

Plastic Magnet
10cm (Forelca)



Code Number
6 60-90-00020

Subpart
Electronic Controller

Plastic Magnet
20cm (Forelca)



Code Number
6 60-90-00021

Subpart
Electronic Controller

Thermostat
EWDR 902/T



Code Number
6 60-92-50025

Subpart
Electronic Controller

Comment
Shaft Thermostat
Inside The Controller

Emergency Operation
Battery Kleemann
12V/7,2Ah



Code Number
6 60-93-00210

Subpart
Electronic Controller

Comment
Main Use On Evacuation
Modules

Siren
Revision PS11

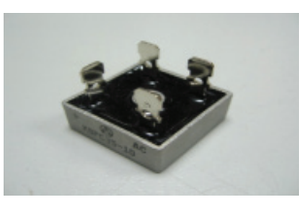


Code Number
6 60-93-00218

Subpart
Electronic Controller

Comment
The Siren Is Activated
By Pushing The Alarm Button

Bridge
35A/1000V



Code Number
6 60-93-00258

Subpart
Electronic Controller

Comment
Rectifier Bridge

Remote Switch Tl 1P 16A
(Fl Contact) 15510



Code Number
6 60-93-00270

Subpart
Electronic Controller

Comment
For Shaft Or Cabin Lighting
Testing

Magnetic Fllorswitch
(Compact)



Code Number
6 60-93-00305

Subpart
Electronic Controller

Comment
Mid-Level Switch Compact

Battery
12V 2,2AH



Code Number
6 60-93-00319

Subpart
Electronic Controller

Comment
Controller battery

Telephone
Device



Code Number
6 65-03-00532

Subpart
Electronic Controller

Comment
For The Cop

Timed Delay
On 80.11.0-240
(Forelca)



Code Number
6 60-93-01012

Subpart
Electronic Controller

Condensator
Timer
(80.41.240V)



Code Number
6 60-93-01014

Subpart
Electronic Controller

Comment
Transformer Basically
On Atlas Lifts

ADA1
Board



Code Number
6 60-93-00396

Subpart
Electronic Controller

Comment
For The Lop Wiring

BADA1
Board



Code Number
6 60-93-00397

Subpart
Electronic Controller

Comment
For The En 81-70 Lop Wiring

Bada P/N Board
(Positive/Negative)



Code Number
6 65-03-00550

Subpart
Electronic Controller

Comment
For Lisa Controllers As Well

EX8 Board
(For Pre-Wiring Sets)



Code Number
6 60-01-20003

Subpart
Electronic Controller

Comment
Floor Extension Board On Fl02
Pre-Wiring (For More Than 8
Stops) With Buzzer
For En 81-70

EX8 NS Board
(For Pre-Wiring Sets)



Code Number
6 60-01-20004

Subpart
Electronic Controller

Comment
Floor Extension Board On Fl02
Pre-Wiring
(For More Than 8 Stops)

PC board
SL-MAIN



Code Number
6 60-01-00050

Subpart
Electronic Controller

Comment
Serial Controller Main Board

SL-IO Board
(Bus Extension I/O)

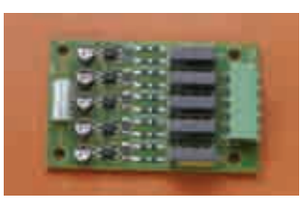


Code Number
6 60-01-00051

Subpart
Electronic Controller

Comment
Serial Controller

Pc board
SL-5 OPTO



Code Number
6 60-01-00059

Subpart
Electronic Controller

Comment
Serial Controller

SL-COP
Board



Code Number
6 60-01-00312

Subpart
Electronic Controller

Comment
For The Car Operating
Panel /Serial Controller

SL-DIS
Board



Code Number
6 60-01-00321

Subpart
Electronic Controller

Comment
Board For Cabin Distribution
Overhead / Serial Controller

GL-4
Board



Code Number
6 60-01-00704

Subpart
Electronic Controller

Comment
For Emergency Release /
Serial Controller

Power supplier UPS **800VA** 220VAC line interactive (CL) display black



Code Number
6 60-93-00445

Subpart
Electronic Controller

Power supplier UPS **2000VA** 220VAC informer compact (UPS.0104)



Code Number
6 60-93-00488

Subpart
Electronic Controller

Pit Stop (Stop+Alarm+Plug 220+Tel Plug)(Gm399/UK)



Code Number
6 60-93-00151

Subpart
Electronic Controller

Pit Stop
UK PQ02K UK Stop & Alarm)



Code Number
6 60-93-00163

Subpart
Electronic Controller

Inspection Box Revison EU
for Lisa



Code Number
2 80-50-00167

Subpart
Electronic Controller

Cabin Revision Box
(Pre-Wiring)
340 x 250mm



Code Number
6 60-91-00072

Subpart
Electronic Controller

Nductive Sensors
SI30-CE15 PNP NO



Code Number
6 45-00-00001

Subpart
Electronic Controller

Socket Revision
English Type (20401398)



Code Number
6 60-93-00168

Subpart
Electronic Controller

Terminals Connection
Box Gewiss GW44024



Code Number
6 42-05-0000x

Subpart
Electronic Controller

Light
for shaft 15W + 2m



Code Number
6 60-93-00500

Subpart
Electronic Controller

Bi-stable proximity
Switch (Bi-Stable Contacts)



Code Number
6 45-03-0000x

Subpart
Electronic Controller

Comment
For The Cop

Surface Mounted COP's

Surface mounted KLEEMANN COPs, standard type or customized to the car specific dimensions.

AKC SM BEST XX*



Dimension:
(X) 414 mm x (Z) 50 mm x (Y) 2150 mm

AKC-SM-BA BLUE LINE XX*



Dimension:
(X) 225mm x (Y) 1100 mm

SM BA XX*



SM BAU XX*



Dimension:
(X) 220 mm x (Z) 25 mm x (Y) 1000 mm

Any type of push button or floor position indicator (display) is available

**XX: the number of push buttons recesses*

Horizontal COP's

Satin or mirror stainless steel faceplates
Special stainless steel faceplates available upon request

NPY 1000



Dimension:
(X) 586 mm x (Z) 132 mm x (Y) 157 mm

FPY-1000 BLUE LINE



NPY 500



Dimension:
(X) 1050 mm x (Z) 132 mm x (Y) 157mm

Standard Fixation COP's

AKC BES
Dimension: (X) 200 mm x (Y) 2000 mm

AKC BES BLUE LINE XX*



AKC BES XX*



AKC BES L XX*



AKC BES (Buttons DR-90 SCHNEIDER)



Any type of push button or floor position indicator (display) is available

**XX: the number of push buttons recesses*

AKC XX*



AKC HB XX*



Any type of push button or floor position indicator (display) is available

**XX: the number of push buttons recesses*

(X) Width x (Y) Heihgt

Type	Number of Push buttons recesses	Faceplate Dimensions	Embedded Box Aperture Dimensions
AKC: Cops without embedded box and telephone box	4 to 18 12 to 14	200 x 615 200 x 760	585 x 170 730 x 170
AKC HB: Cops with embedded box, without telephone box	4 to 18 10 to 16 18 to 22	200 x 710 200 x 880 200 x 1050	660 x 170 825 x 170 995 x 170

Please contact our sales department regarding the availability of push buttons from different suppliers (eg Dewhurst US-91 and M-20, Schaefer)

Surface Mounted LOP's

Satin or mirror stainless steel faceplates

AKL SMQR

Dimension: (X) 92 mm x (Z) 20 mm x (Y) 230 mm

SMQR 300A



SMQR 600



SMQR 501AD



SMQR 601AD



Detailled View No need for aperture



Special stainless steel faceplates available upon request. Order specifications should include the type of push buttons and displays

SMQR 500SC



SMQR 600SC



SMQR 500DM



SMQR 600DM



SMSC SMSC E



Dimension: (X) 150 mm x (Y) 230 mm

Dimension: (X) 92 mm x (Z) 20 mm x (Y) 230 mm

SMSC 500DM



SMSC 501AD



SMSC 600



SMSC 300A



Special stainless steel faceplates available upon request. Order specifications should include the type of push buttons and displays

Surface Mounted LOP's

AKL 005



AKL 102



AKL 03



Dimension: (X) 85 mm x (Y) 230 mm

AKL 003



AKL 101



Dimension: (X) 85 mm x (Y) 180 mm

AKL

AKL 055



AKL 057



Dimension: (X) 150 mm x (Y) 285 mm

AKL 241



AKL 242

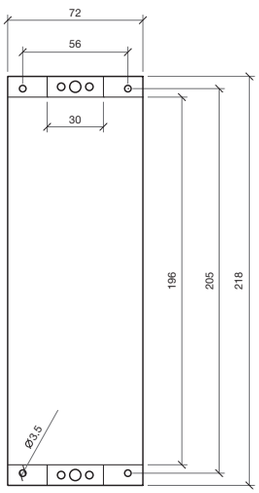


Dimension: (X) 210 mm x (Y) 250 mm

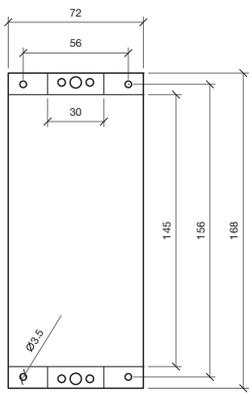
Please contact our sales department regarding the availability of push buttons from different suppliers (eg Dewhurst US-91 and M-20, Schaefer)

Embedded Boxes for LOP's

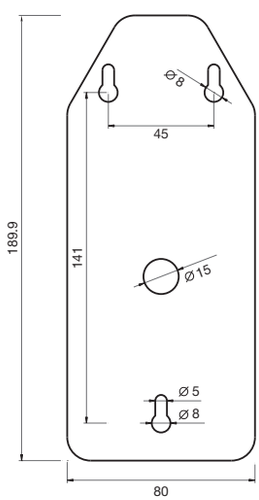
AKL 005
AKL 102
AKL 103/Compact



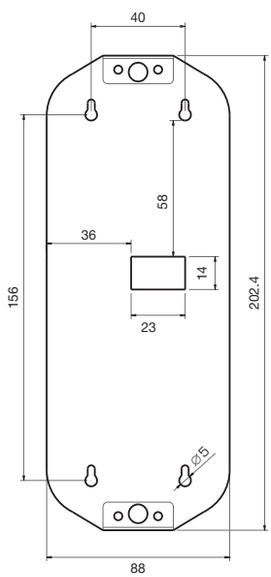
AKL 003
AKL 101



AMAUS



SMQR / SMSC



For detailed drawings please contact
KLEEMANN Exports Department

Surface Mounted Indicators

SM
and
WPY
(With Inclined Faceplate)

SM 910VL



Dimension:
(X) 200 mm x (Z)40 mm x (Y) 135 mm

SM 908SA



Dimension:
(X) 145 mm x (Z) 20 mm x (Y) 90 mm

WPY 910VL



Dimension:
(X) 200 mm x (Z) 117 mm x (Y) 175 mm

SMQR

SMQR 907



SMQR 907G



SMQR 911SCA



SMQR 911DM



SMQR 911DMG*



Dimension: (X) 92 mm x (Z) 20 mm x (Y) 230 mm

SMQR 905G



SMQR 909SCG



SMQR 909DMA

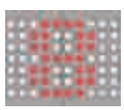


For non standard coloured displays
delivery time and price upon request

Dimension: (X) 230 mm x (Z) 20 mm x (Y) 92 mm

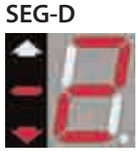
Displays

DM212 DOTD



Dimension:
(X) 46 mm x (Y) 39mm

SCAMD SEG-D



Dimension:
(X) 46 mm x (Y) 44 mm

LISA TYPE



Dimension:
(X) 96 mm x (Y) 63 mm

LCD



Dimension:
(X) 115 mm x (Y) 65 mm

Order specifications should
include displays
with special features

		Arrows		Input Signal Coding			Input Signal Voltage Level		
Model	**Supply Voltage**	**Constant**	**Scrolled Segments**	**BCD**	**Demical**	**Serial (BUS)**	**12V DC or 0V DC**	**24V DC or 0V DC**	**Serial (BUS)**
SC27	24V DC	–	–	√	–	–	–	24V DC	–
7segments	24V DC	√	–	√	√	–	–	√	–
7segments	12V DC	√	–		√	–	√	–	–
Dot Matrix	24V DC	–	√	√	√	–	–	√	–
Dot Matrix	12V DC	–	√		√	–	√	–	–
LCD	24V DC	–	√	√	–	–	–	√	–
LISA TYPE	24V DC	–	√	–	–	√	–	–	√

Push Buttons

FMQ



Dimension: (X) 36 mm x (Y) 36 mm

FMR



Dimension: ∅ 35 mm

BLUE LINE



KLH42R ø 35 mm

KLH42Q (X) 35 mm x (Y) 35 mm

Key Switches



Standard Type

Schaefer Type

MT42
by Schaefer



(X) 30 mm x (Y) 30 mm

BA54**K**



(X) 48 mm x (Y) 38 mm

Type	FMQ	FMR	BLUE LINE	MT42	BA54K
Shape	□	○	□○	□	○
Tactile or Polycarbonic	√	√	√	√	√
Satin St/St	√	√	√	√	√
or Mirror St/St	√	√	-	-	-
EN 81.70	√	√	√	√	√
Braille	Upon Request		-	√	-

Emergency Phones

Klemaphone



Connection with GSM modem

0880 – 40 - 00024
0880 – 40 – 00027

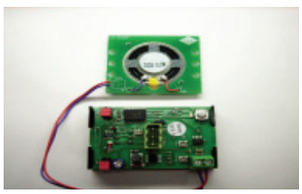
Klemaphone with extra COP

0880 – 40 – 00026

Memcom



Bus Ankunftsgong
LBGG-7 (Bus Gong For Lisa)



Code Number
6 65-03-00217

Subpart
Operating Panels

Comment
Use In Lisa Controllers

Converter 24 TO
12 Volt
(421016200 - V24T12)

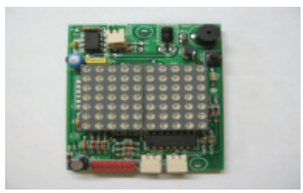


Code Number
6 65-03-00324

Subpart
Operating Panels

Comment
Voltage Converter 24 To 12 Volt

Display
DOT-D



Code Number
6 65-03-00246

Subpart
Operating Panels

Comment
With Code
**327 (Blue)
**328 (Green)

Display
K-D LCD 10

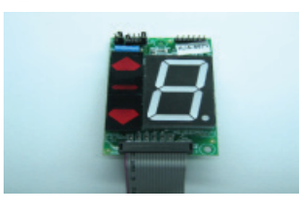


Code Number
6 65-02-01009

Subpart
Operating Panels

Comment
Lcd Display (Only In Blue Colour)

Display
KD-BCD 7 Segment Slim
12V

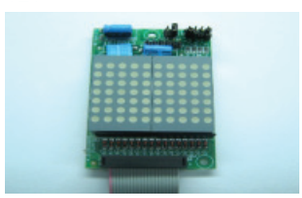


Code Number
6 65-03-00108

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**092 (24V)

Display
KD-BCD DOT Matrix Slim
12V

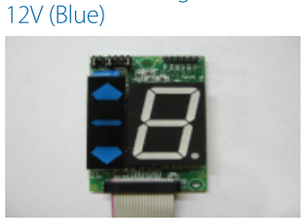


Code Number
6 65-03-00093

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**094 (24V)

Display
KD-BCD Slim 7Seg
12V (Blue)

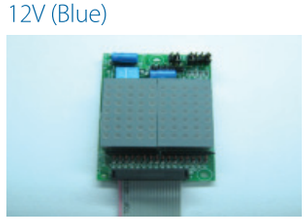


Code Number
6 65-03-00172

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**163 (24V - Blue)

Display
KD-BCD Slim DM
12V (Blue)

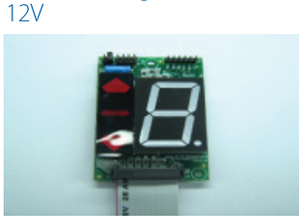


Code Number
6 65-03-00181

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**179 (24V - Blue)
**227 (24V - Green)

Display
KD-DECI 7 Segment Slim
12V

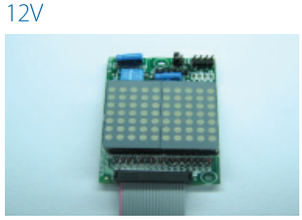


Code Number
6 65-03-00091

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**102 (24V)

Display
KD-DECI Dot Matrix Slim
12V



Code Number
6 65-03-00103

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**104 (24V)

Display
KD-DECI Slim 7SEG
12V (Blue)

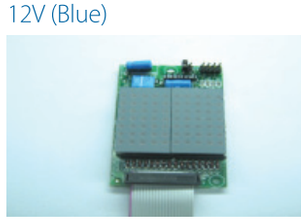


Code Number
6 65-03-00173

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**164 (24V)

Display
KD-DECI Slim DM
12V (Blue)

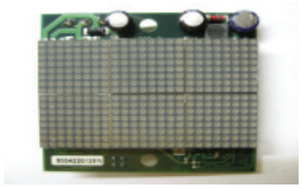


Code Number
6 65-03-00180

Subpart
Operating Panels

Comment
(Use In Controllers Not
Kleemann) With Code
**178 (24V - Blue)
**228 (24V - Green)

Display Lisa (Calblbds Bus-Anzeige Klein) LBDS7

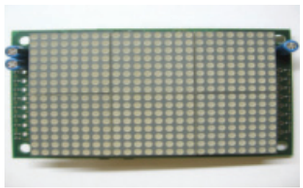


Code Number
6 65-03-00202

Subpart
Operating Panels

Comment
Use Only In Lisa Controller

Display Lisa LBDB10 Blue



Code Number
6 65-03-00266

Subpart
Operating Panels

Comment
Use Only In Lisa Controller

Display Lisa (Cabusanz 9B Bus-Anzeige Gross) LBDB7 Mit Schraubklemme

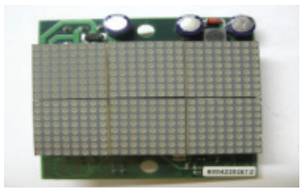


Code Number
6 65-03-00683

Subpart
Operating Panels

Comment
Use Only In Lisa Controller

Display Lisa LBDS10 (Small) (Blue)



Code Number
6 65-03-00267

Subpart
Operating Panels

Comment
Use Only In Lisa Controller

Display 7 Segment No Arrows -(AKC-SC27)



Code Number
6 65-03-00006

Subpart
Operating Panels

Comment
Without Direction Arrows

Display 7 Segment Led Arrows, Minus-Sign -(AKC-SCAMD)



Code Number
6 65-03-00004

Subpart
Operating Panels

Comment
Use In Fl02 Wiring Or In Controller Without Pre- Wiring **132 (Blue)

Display Dot Matrix 2 Digits and Round Arrows-Thin Model-(AKC-DM212A)

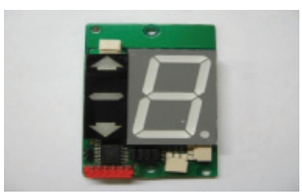


Code Number
6 65-03-00000

Subpart
Operating Panels

Comment
Use In Fl02 Wiring Or In Controller Without Pre- Wiring Code **188 (General +)

Display Scamd Green

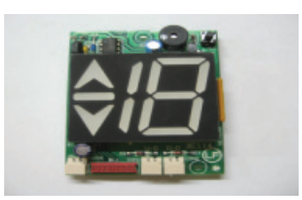


Code Number
6 65-03-00020

Subpart
Operating Panels

Comment
Use In Fl02 Wiring Or In Controller Without Pre- Wiring

Display SEG-D



Code Number
6 65-03-00247

Subpart
Operating Panels

Comment
Use In Fl02 Wiring Or In Controller Without Pre- Wiring

Display Dot Matrix 2 Digits and Round Arrows Slim Blue Led (Akc-Dm212-Slim)



Code Number
6 65-03-00120

Subpart
Operating Panels

Comment
Use In Fl02 Wiring Or In Controller Without Pre- Wiring Code **121 (Green)

DOT D (HL)



Code Number
6 65-03-00377

Subpart
Operating Panels

Comment
Only For Hall Lanterns 81-70 With Direction Arrows

Plexy (New Type) Red, Green, Blue

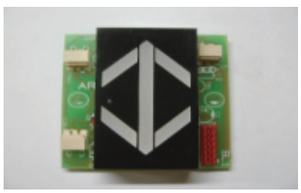


Code Number
6 65-03-00362

Subpart
Operating Panels

Comment
Filter For Display

Arrows
(No Sound) Arns



Code Number
6 65-03-00291

Subpart
Operating Panels

Comment
Only For Fl02 Pre-Wiring Code **394 (Blue)

Thermometer-
Clock For Cop K-D Rt

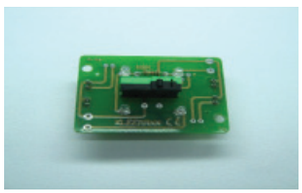


Code Number
6 65-01-00010

Subpart
Operating Panels

Comment
Thermometer-Clock K-D Rt

PC-
Board NSK



Code Number
6 65-03-00230

Subpart
Operating Panels

Comment
Not For Surface Mounted Operating Panels

Fan
PC Board

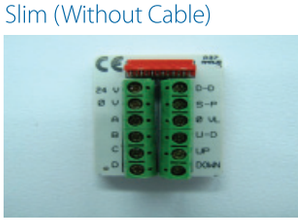


Code Number
6 65-03-00032

Subpart
Operating Panels

Comment
Fan Card

Displayconnector DM 212
Slim (Without Cable)



Code Number
6 65-03-00183

Subpart
Operating Panels

Comment
For Display Dm-212, Scamd, Seg-D, Dot-D, Gl Lcd-10

PC
Board FMQ



Code Number
6 65-03-00155

Subpart
Operating Panels

Comment
Fmq Button Card
With Code
**137 (Blue Led)

Keyswitch FMQ
With Spring Return



Code Number
6 65-03-00066

Subpart
Operating Panels

Comment
With Code
**065 (One & Two Contacts)

Keyswitch
NSK60
With Spring Return



Code Number
6 65-03-00152

Subpart
Operating Panels

Comment
With Code
**146 (One & Two Contacts)
**259 (Satin 1Contact)

Keyswitch
MS 42P S1 a Schaefer



Code Number
6 65-03-00090

Subpart
Operating Panels

Comment
With A Special Mounting Hole -Only For Replacement Of A Previous One

Keyswitch
MS42P S1 ae Schafer (XN47069)



Code Number
6 65-03-00082

Subpart
Operating Panels

Comment
With A Special Mounting Hole -Only For Replacement Of A Previous One

Keyswitch
With Spring Return HMG4



Code Number
6 65-03-00013

Subpart
Operating Panels

Comment
With Code
**012 (One & Two Contacts)

Keyswitch
With Spring Return Nsk



Code Number
6 65-03-00011

Subpart
Operating Panels

Comment
With Code
**010 (One & Two Contacts)

Keyswitch
With Spring Return Fmr



Code Number
6 65-03-00182

Subpart
Operating Panels

Comment
Code
**062 (One & Two Contacts)

Keyswitch
MS42P T1 Schafer
(XN47069)



Code Number
6 65-03-00083

Subpart
Operating Panels

Comment
With A Special Mounting Hole
-Only For Replacement Of A
Previous One

Full Load'
FMQ-FMR Overload Lamp

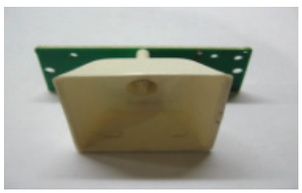


Code Number
6 65-03-00114

Subpart
Operating Panels

Comment
For FMQ or FMR

Overload
Lamp



Code Number
6 65-03-00267

Subpart
Operating Panels

Comment
Use Only In Lisa Controller

Keyswitch
With Spring Return
with Buzzer



Code Number
6 65-01-00006

Subpart
Operating Panels

Comment
Overload CE

Cabin Lamp
QT-FIT-8 1x36
220-240 VS20

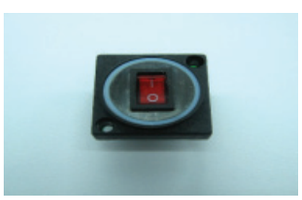


Code Number
6 65-03-00584

Subpart
Operating Panels

Comment
Fluorescent Lamp
Qt-Fit-8 1X36/220-240 Vs20

Button
On-Off (HMG 4)



Code Number
6 65-03-00033

Subpart
Operating Panels

Comment
It Can Replace The No Smok-
ing Cover

Button
On-Off (NSK)



Code Number
6 65-03-00034

Subpart
Operating Panels

Comment
It Can Replace
The No Smoking Cover

Button
HMG4



Code Number
6 65-03-00XXX

Subpart
Operating Panels

Comment
Available In Satin / Mirror / Gold
Satin / Gold Mirror, Braile Satin /
Mirror / Gold Satin / Gold Mirror,
Me Blue Or Green Led

Button
Braile NSK



Code Number
6 65-03-00XXX

Subpart
Operating Panels

Comment
Available Also In Satin Or Mirror Or
Inox Checks Or Gold Satin Or Gold
Mirror Or Bronze Satin Or Bronze
Mirror Or Oro Or Dots Lucido, With
Blue Or Green Led

Button
FMQ



Code Number
6 65-03-00XXX

Subpart
Operating Panels

Comment
Available In Satin / Mirror / Gold
Satin / Gold Mirror / Titanium
Gold / Bronze Satin, Polster
Satin, Me Blue Or Green Led

Button
FMQ Braile



Code Number
6 65-03-00XXX

Subpart
Operating Panels

Comment
Available In Satinor Mirror Or
Gold Satin Or Bronze Mirror, Me
Blue Or Green Led

Button
Schaefer MT-42



Code Number
6 65-03-00499

Subpart
Operating Panels

Comment
Along With Metal & Adaptor

Button
NSK



Code Number
6 65-03-00XXX

Subpart
Operating Panels

Comment
Available In Satin / Mirror,
With Blue Or Green Led

Button
FMR Braile



Code Number
6 65-03-00235

Subpart
Operating Panels

Comment
Available In Satin / Mirror,
With Blue Or Green Led

Button
On-Off (FMR)



Code Number
6 65-03-00106

Subpart
Operating Panels

Comment
It Can Replace a no Smoking
Cover

Button Schneider
DR90 (ATTADR090ERH)



Code Number
6 65-03-00249

Subpart
Operating Panels

Comment
Διατιθεται Σε Blue LED - EN81-70, GREEN
FRAME - EN81-70, BUZZER - EN81-70, Buzzer
Blue Led

Button
Frame FMQ



Code Number
6 65-03-00240

Subpart
Operating Panels

Comment
FMQ Button Frame

Button
Frame FMR



Code Number
6 65-03-00241

Subpart
Operating Panels

Comment
FMR Button Frame

Green Frame
for DR-90
81-70 (Green & White)



Code Number
6 65-03-00255

Subpart
Operating Panels

Comment
Frame For Landing
Floor Buttons DR-90

Frane
for DR-90 (White)



Code Number
6 65-03-00256

Subpart
Operating Panels

Comment
For Simple Button DR-90

Stop
Relais (24V)



Code Number
6 65-03-00162

Subpart
Operating Panels

Comment
Stop Relay (24V)

Phone
Device for Cop

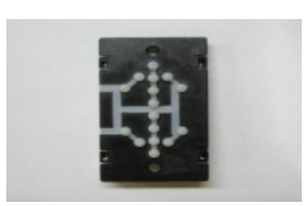


Code Number
6 65-03-00041

Subpart
Operating Panels

Comment
Standard For Car Operating
Panels

Arrows
SMQR (LA 101) Red



Code Number
6 65-03-00363

Subpart
Operating Panels

Comment
Wiuth Code
**366 (12V)
**364 (Blue)

Klemafon
Autodialer



Code Number
0880-40-00024

Subpart
Operating Panels

Tmr Micome
(Autodialer)



Code Number
6 65-03-00293

Subpart
Operating Panels

Blue Line
Strips



Code Number
6 65-03-00630

Subpart
Operating Panels

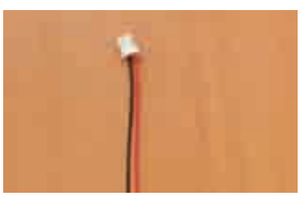
KD 24V
Power Supply 230V/24DC



Code Number
6 60-93-00407

Subpart
Operating Panels

Wiring (Cat)Red-Black
Connectors 30CM



Code Number
6 65-03-00601

Subpart
Operating Panels

Comment
Set Of Cables To Connect
Buttons With The Wiring

Wiring (Cat)Red-Black
Connectors 120CM



Code Number
6 65-03-00610

Subpart
Operating Panels

Comment
Set Of Cables To Connect
Buttons With The Wiring

Display
BST-L



Code Number
6 65-25-00010

Subpart
Operating Panels

Comment
For Landing Operating Panels

Display
BST-C



Code Number
6 65-25-00009

Subpart
Operating Panels

Comment
For Car Operating Panels

Blue Tag
(For Es_mega)



Code Number
6 65-03-00570

Subpart
Operating Panels

RT-42 Button
Bishade (Braille)



Code Number
6 65-03-00534

Subpart
Operating Panels

Comment
Bishade Version (Turns Faint At
First And Strongly Later)

RT-42 Button
(Bicolor)



Code Number
6 65-03-00619

Subpart
Operating Panels

Comment
Bicolor Version
(With Two Tone Edging)

KLH-42R
Metal Button
(Round)



Code Number
6 65-03-00632

Subpart
Operating Panels

Comment
Operating Panel Buttons

KLH-42R
Metal Button
(Rectangle)



Code Number
6 65-03-00624

Subpart
Operating Panels

Comment
Operating Panel Buttons

Transponder Es_mega
(MT-42 Design)
Complete



Code Number
6 65-03-00567

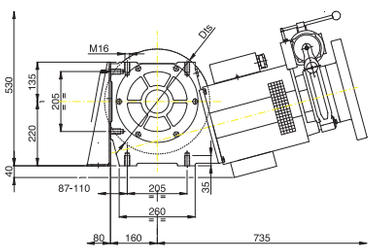
Subpart
Operating Panels

Traction

LEO Alberto Sassi



Static load
3000kg



Suspension
1:1

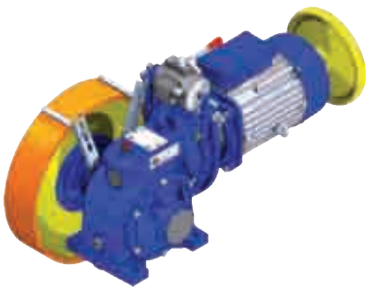
Two Speed AC2 - 4/16 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-01-01024 4 31-01-14001	300	0.63	∅450	3x∅10	1/55	3.5	Right
4 30-01-01001 4 31-01-14001	300	0.63	∅450	3x∅10	1/55	3.5	Left
4 30-01-01137 4 31-01-14002	300	1.00	∅480	3x∅10	2/71	3.5	Right
4 30-01-01136 4 31-01-14002	300	1.00	∅480	3x∅10	2/71	3.5	Left
4 30-01-01057 4 31-01-14022	450	1.00	∅480	4x∅10	2/71	4.9	Right
4 30-01-01005 4 31-01-14022	450	1.00	∅480	4x∅10	2/71	4.9	Left
4 30-01-01033 4 31-01-14018	630	0.63	∅450	5x∅10	1/55	4.9	Right
4 30-01-01006 4 31-01-14018	630	0.63	∅450	5x∅10	1/55	4.9	Left

VVVF 4 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-01-01138 4 31-01-14001	300	1.00	∅450	3x∅10	2/71	2.9	Right
4 30-01-01122 4 31-01-14001	300	1.00	∅450	3x∅10	2/71	2.9	Left
4 30-01-01028 4 31-01-14022	450	1.00	∅480	4x∅10	2/71	4.4	Right
4 30-01-01009 4 31-01-14022	450	1.00	∅480	4x∅10	2/71	4.4	Left
4 30-01-01032 4 31-01-14027	630	1.00	∅480	5x∅10	2/71	5.9	Right
4 30-01-01010 4 31-01-14027	630	1.00	∅480	5x∅10	2/71	5.9	Left

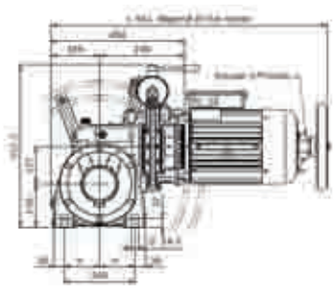
M76 Montanari



Static load
2000kg

One Speed AC1 – 4 Poles
Technical Data

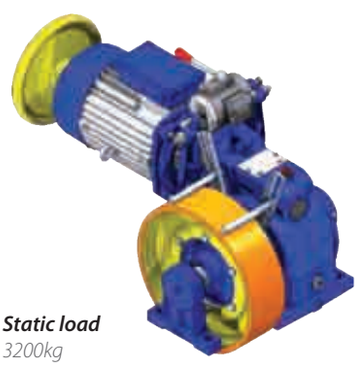
Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-02-14002 4 31-02-14002	300	0.63	∅480	3x∅10	1/60	3.0	3.0
4 30-02-14001 4 31-02-14002	300	0.63	∅480	3x∅10	1/60	3.0	3.0



Suspension
1:1

Two Speed AC2 – 4/16 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-02-14003 4 31-02-14002	300	0.63	∅480	3x∅10	1/60	3.0	Right
4 30-02-14004 4 31-02-14002	300	0.63	∅480	3x∅10	1/60	3.0	Left
4 30-02-14006 4 31-02-14004	450	0.63	∅480	4x∅10	1/60	3.7	Right
4 30-02-14005 4 31-02-14004	450	0.63	∅480	4x∅10	1/60	3.7	Left

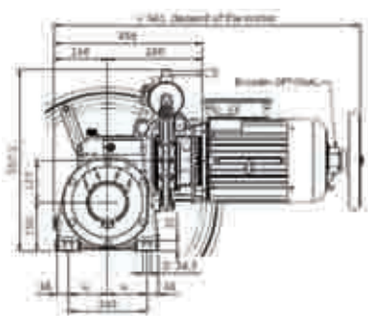


Static load
3200kg

M76S Montanari

Two Speed AC2 – 4/16 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-02-15008 4 31-02-14005	630	0.63	∅450	5x∅10	1/60	4.4	Right
4 30-02-15008 4 31-02-14005	630	0.63	∅450	5∅10	1/60	4.4	Left
4 30-02-15006 4 31-02-14005	630	1.00	∅480	5x∅10	1/37	5.9	Right
4 30-02-15005 4 31-02-14005	630	1.00	∅480	5x∅10	1/37	5.9	Left

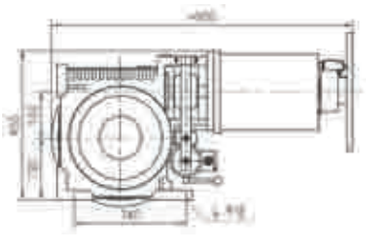


Suspension
1:1

YJ140 Torin



Static load
2200kg



Suspension
2:1

Two Speed AC2 – 4/16 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-09-01003 4 31-09-14001	450	0.63	∅425	4x∅10	1/51	4.1	Right
4 30-09-01002 4 31-09-14001	450	0.63	∅425	4x∅10	1/51	4.1	Left

VVVF 4 Poles
Technical Data

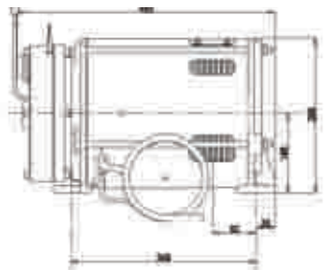
Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-09-01004 4 31-09-13001	300	1,00	∅340	6x∅8	2/51	3.5	Right
4 30-09-01001 4 31-09-13001	300	1,00	∅340	6x∅8	2/51	3.5	Left
4 30-09-01006 4 31-09-14001	450	0.63	∅425	4x∅10	1/51	3.5	Right
4 30-09-01005 4 31-09-14001	450	0.63	∅425	4x∅10	1/51	3.5	Left
4 30-09-01008 4 31-09-15001	450	1,00	∅560	4x∅10	1/41	4.5	Right
4 30-09-01007 4 31-09-15001	450	1,00	∅560	4x∅10	1/41	4.5	Left

VVVF 6 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Ratio	Power [Kw]	Position of Traction Sheave
4 30-09-01010 4 31-09-14002	630	1,00	∅425	5x∅10	2/41	7.5	Right
4 30-09-01009 4 31-09-14002	630	1,00	∅425	5x∅10	2/41	7.5	Left

Static load *2200kg*

Suspension *2:1*



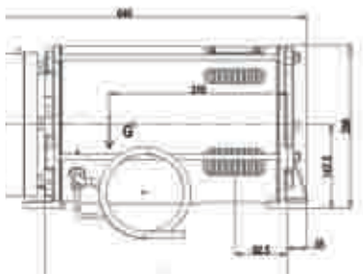
XA2 M2 Leroy Somer

Gearless 16 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Power [Kw]
4 30-08-01004 4 31-08-12001	630	1.00	∅240	6x∅6.5	4.5
4 30-08-01003 4 31-08-12001	630	1.60	∅240	6x∅6.5	7.2

Static load *2200kg*

Suspension *2:1*



XA2 L2 Leroy Somer

Gearless 16 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Power [Kw]
4 30-08-04001 4 31-08-22001	1000	1.00	∅240	9x∅6.5	
4 30-08-04002 4 31-08-22001	1000	1.60	∅240	9x∅6.5	10.7

Static load *2200kg*

Suspension *2:1*





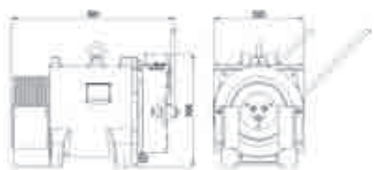
SM200.15C Ziehl Abegg

Gearless 20 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Power [Kw]
4 30-04-12001 4 31-04-12015	630	1.00	∅240	6x∅6.5	4.5
4 30-04-12002 4 31-04-12015	630	1.60	∅240	6x∅6.5	7.2

Static load *2200kg*

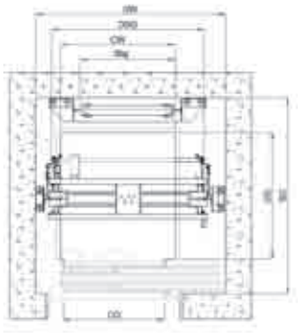
Suspension *2:1*



SM200.30C Ziehl Abegg

Gearless 20 Poles
Technical Data

Code (Motor + Traction Sheave)	Duty load [kg]	Speed [m/s]	Traction Sheave [mm]	Ropes	Power [Kw]
4 30-04-14001 4 31-04-12018	1000	1.00	∅240	9x∅6.5	8.4
4 30-04-14002 4 31-04-12018	1000	1.60	∅240	9x∅6.5	12.8



TLCF12 / CWF10

Technical Data

Car Frame

Max (P + Q)
1300kg

Weight TLCF12
90kg

DBG
600mm ~ 1500mm

Max Cabin Width
DBG - 130mm

dbg
500mm ~ 950mm

Headroom

Min Headroom (indicative)*
3050mm
3250mm
3450mm

Cabin Total Height
2161mm – 2360mm
2361mm – 2520mm
2521mm – 2720mm

Min Acc. to EN81-1 (indicative)*
3200mm
3400mm
3600mm

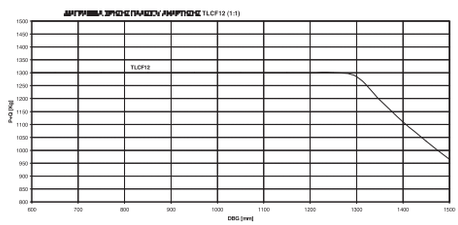
Pit Depth

Min Manufacturing
650mm

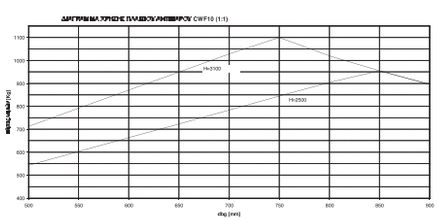
Min According to EN 81-2 (indicative)*
1050mm

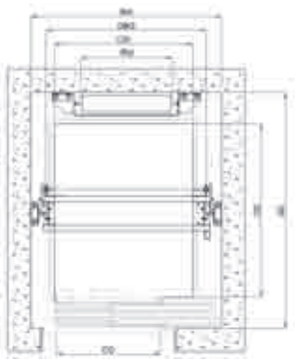
Application Diagram

TLCF12



CWF10





TLCF13 / CWF16

Technical Data

Car Frame

Max (P + Q)
2100kg

Weight
200kg

DBG
600mm ~ 2050mm

Max Cabin Width
DBG - 135mm

dbg
500mm ~ 1350mm

Headroom

Min Headroom (indicative)*
3250mm
3450mm
3650mm

Cabin Total Height
2161mm – 2360mm
2361mm – 2520mm
2521mm – 2720mm

Min Acc. to EN81-1 (indicative)*
3300mm
3500mm
3700mm

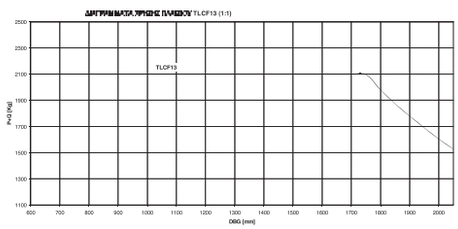
Pit Depth

Min Manufacturing
750mm

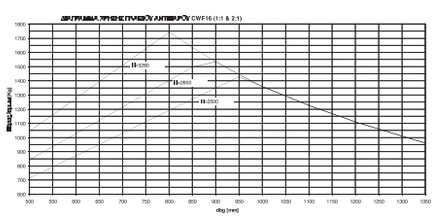
Min According to EN 81-2 (indicative)*
1150mm

Application Diagram

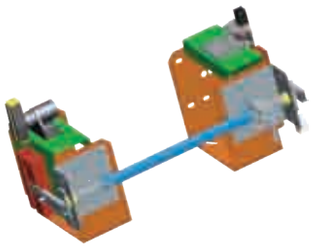
TLCF13



CWF16



** Please contact our sales department*



SBFR.1

The hypersling is placed on the top of the existing car sling in order to fit new safety gears.

Technical Data

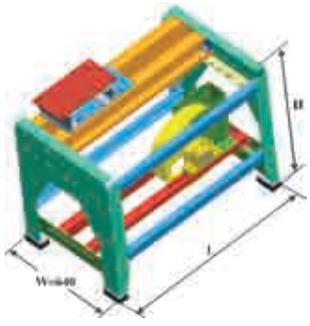
Max (P + Q)
1300kg

Max Speed
1.0m/s

Safety Gear
Dynatech PR2000UD (Progressive)

max Cabin width
DBG - 130mm

Guide Rail
5, 6, 7, 8, 9, 10, 12, 14,16



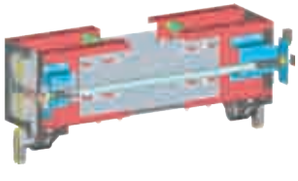
SMF
(Screw assembly)

Technical Data

Material
Metal Sheet 4mm ~ 6mm

(DBR)
570mm ~ 870mm

Motor
Alberto Sassi Leo
Montanari M76 – M71
Montanari M76S –M71S
Torin YJ140
Ziehl Abegg



SBFR.2

The SBFR.2 is mounted under the lower part

Technical Data

Max (P + Q)
2500kg

Max Speed
1.6m/s

Safety Gear
Dynatech PR2500UD, PQ4000UD (Progressive)

Guide Rail
9, 10, 16



Typical base
(welded)

Technical Data

Material
UPN

(DBR)
No limit

Motor
All

Compansation Chain



Code	Description
4 33-12-10223	Compansation Chain WFS 10
4 33-12-10372	Compansation Chain WFS 14
4 33-12-10520	Compansation Chain WFS 16
4 33-12-10149	Compansation Chain WFS 8



4 33-12-20223	Hanging Device WFS 10 (∅12)
4 33-12-20372	Hanging Device WFS14 / WFS16 (∅16)
4 33-12-20149	Hanging Device WFS 8 (∅10)



4 33-12-90001	Dampening Device WFS (A)
4 33-12-90002	Dampening Device WFS (B)

Model	Unit Weight (kg/m)	Allowed least curvation Dia(mm)	Max working length(m)	Broken load(≥kn)
WFS-8	1.40±0.2	260±20	190	≥23.68
WFS-10	2.13±0.2	280±20	230	≥37.00
WFS-14	4.20±0.2	300±20	240	≥69.93
WFS-16	5.80±0.2	320±20	240	≥94.72

Counterweight Screan



RS1

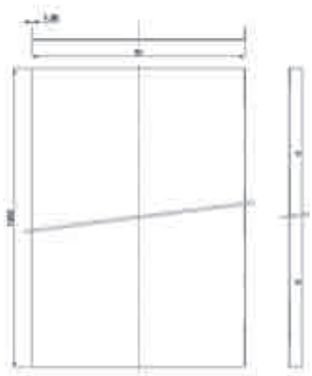
Technical Data

Counterweight Guides
T50x50x5,
T70x70x9,
T89x62x16,
T90x75x16,
T125x82x16

Pieces
1

Code
0558-01-12100

Code Support
3N58-01-11100 (6 pieces)



RS2

Technical Data

Counterweight Guides
T50x50x5,
T70x70x9,
T9x62x16,
T90x75x16,
T125x82x16

Pieces
2

Code
0558-01-12200

Code Support
3N58-01-11100 (8 pieces)

Slider



TAB 224

Technical Data

Rotation
x, y, z axis

Oil Can
Optional

Guide Rails
5, 6, 7, 8, 9, 10, 12, 14,16mm



TAB 200 & TAB 250
(Adjustable)

Technical Data

Rotation
Yes adjustable in z axis

Oil Can
No

Guide Rails
5, 6, 7, 8, 9, 10, 12,14,16mm

Rope Brake



Protection against upper overspeed

Technical Data

Type
618

Total distance between ropes
86mm

Max Speed
1,27m/s

Max Rated load
816kg

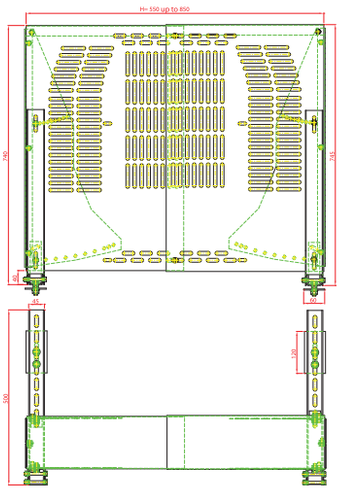
Min Rated load
272kg

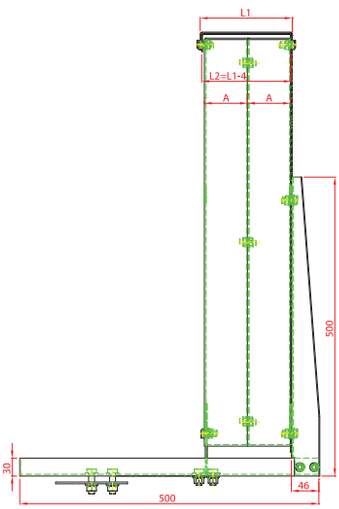
Max Static load
4990kg

Min Cabin and Counterweight weight
1034kg

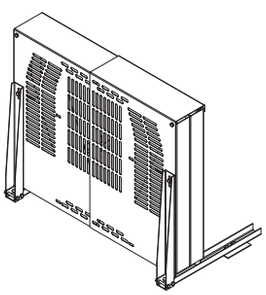
Code
4 99-30-21000

Type 1

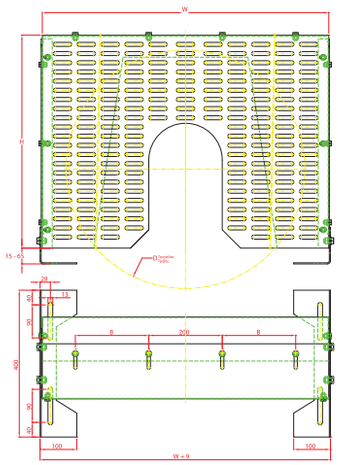


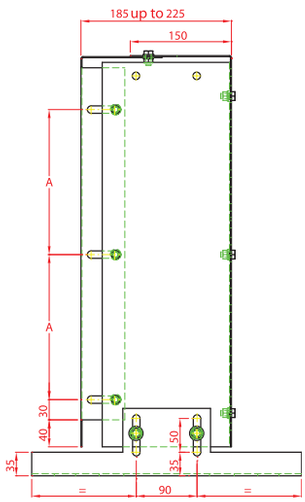


	L1	L2	A
52.63.600.01	114	110	52
52.63.600.02	124	120	57
52.63.600.03	134	130	62
52.63.600.04	144	140	67
52.63.600.05	154	150	72
52.63.600.06	164	160	77
52.63.600.07	174	170	82
52.63.600.08	184	180	87
52.63.600.09	194	190	92
52.63.600.10	204	200	97



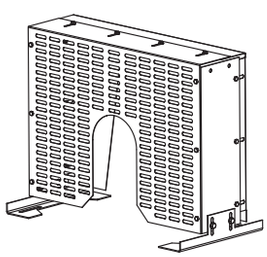
Type 2



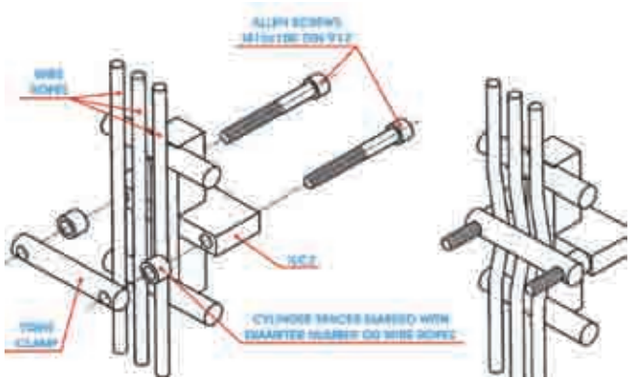


Traction Sheave

	D	W	H	A	B
52.63.650.01	550	680	530	190	150
52.63.650.02	600	730	555	202.5	175
52.63.650.03	650	780	580	215	200
52.63.650.04	700	820	605	227.5	225
52.63.650.05	750	870	630	240	250
52.63.650.06	800	920	655	252.5	275

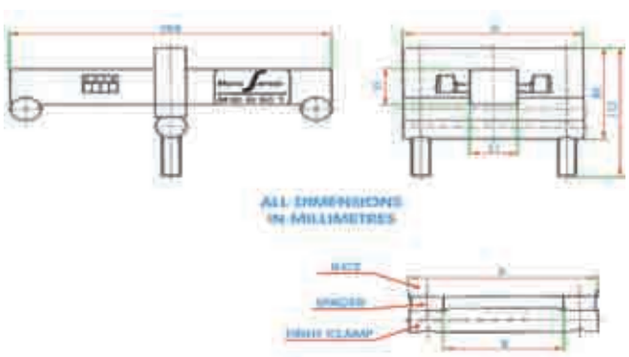


ILC2 Installation
on wire ropes

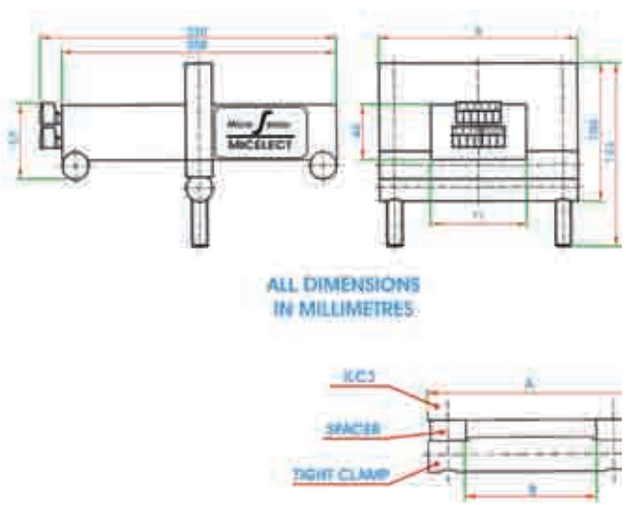


- Automatic calibration per wire rope diameter.
- No need to use any known weight to calibrate it.
- Very easy installation (5 min).
- Universal clamp to fix all wire ropes.
- SW to correct compensating chain.
- 2 programmable alarm values (Full load and Overload).
- Display to visualize the real weight.
- EEPROM to save data.

ILC2



ILC3



ILC2 , ILC3
Dimensions

(total load
up to 3.500mm)

	A	B
Size 1	97	55
Size 2	117	75
Size 3	157	115
Size 4	202	160
Size 5	230	188
Size 6	268	226
Size 7	306	263
Size 8	360	317

System Roller
Ø125 x 30
Ø25



Code Number
0232-40-11000

Subpart
Car frame

Comment
For new type car frames
ZU210 & guide rails T89 & T75

System Roller
Ø125 x 35
Ø25



Code Number
0232-40-12000

Subpart
Car frame

Comment
For new type car frames
ZU210

System Roller
Ø125 x 40
Ø30



Code Number
0232-60-11501

Subpart
Car frame

Comment
For ZU240 & ZU270 car frames

System Roller
Ø125 x 40
Ø25



Code Number
0233-10-10000

Subpart
Car frame

Comment
For green guide shoe ETN green
& UCF car sling

System Roller
Ø125 x 40
Ø25 (Old Type)



Code Number
0233-10-10001

Subpart
Car frame

Comment
For old type car frames

System Roller
Ø125 x 30
Ø20



Code Number
0236-01-10001

Subpart
Car frame

Comment
For new type car slings:
ZU160 ZU170 ZU180

System Roller
Ø125 x 35
Ø20



Code Number
0236-01-10002

Subpart
Car frame

Comment
For new type car slings :
ZU160 ZU170 ZU180

System Roller
Ø125 x 30
Ø20 (Old Type)



Code Number
0236-01-10011

Subpart
Car frame

Comment
For old type car frames

Safety Gear System
(Wide) 14-15-16mm



Code Number
0236-04-00001

Subpart
Car frame

Comment
For S = 14 - 15 - 16mm

Safety Gear System
(Narrow)



Code Number
0236-04-00002
0236-04-00012

Subpart
Car frame

Comment
For S = 8 - 9mm
For S = 10mm

Safety Gear Testing Device
STDS 4:1



Code Number
0236-18-00000

Subpart
Car frame

Comment
Jack possition: side

Safety Gear Testing Device
STDO 4:1



Code Number
0236-19-00000

Subpart
Car frame

Comment
Jack possition: opposite the
entrance

Guide Rai Oiler
KLEEMANN



Code Number
6 96-02-000XX

Subpart
Car frame

Comment
For
S= 9 - 10 - 14 - 15 - 16mm

Guide Rai Oiler
CON 170



Code Number
6 96-02-00007

Subpart
Car frame

Comment
For CON guide shoe bases

Guide Rai Oiler
ETN 120



Code Number
6 96-02-00003

Subpart
Car frame

Comment
For ETN 140 & ETN 180
Guide shoe bases

Guide Rai Oiler
ETN 170



Code Number
6 96-02-00005

Subpart
Car frame

Comment
For ETN 140

Buffer Base
BS-S



Code Number
0542-4X-00000

Subpart
Car frame

Comment
Type
S1 S2 S3 S4

Magnetic Switches Base
(Complete)



Code Number
3N43-11-00000

Subpart
Car frame

Comment
Along with
2pcs. of bolts 2 43-11-01099

Left & Right Safety Gear Arm
(ZU-180 / HAI/
Instantaneous)



Code Number
2 32-15-53000
2 32-15-54000

Subpart
Car frame

Balance Small
(ZU-170)



Code Number
2 32-11-14400

Subpart
Car frame

Balance Big
(ZU-170)



Code Number
2 32-11-14500

Subpart
Car frame

Pulley Cam



Code Number
Extension
for Plastic Plate

Subpart
Car frame

Comment
For all types of pulleys

Narrow Base for Guide-Shoes ETN100
(Counterweight Sling)



Code Number
2 58-14-11001

Subpart
Car frame

Comment
Along with a tie bar

Extension
for Plastic Plate



Code Number
3N32-10-1220X

Subpart
Car frame

Comment
Thickness 1 - 2mm

Left Roller Base
(ZU180)



Code Number
3N32-15-13100

Subpart
Car frame

Comment
For upper roller

Right Roller Base
(ZU180)

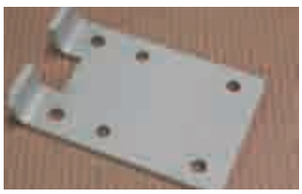


Code Number
3N32-15-13200

Subpart
Car frame

Comment
For upper roller

Guide Shoe System Base



Code Number
3N32-15-15600

Subpart
Car frame

Comment
For ZU160 & ZU180 car slings

Ropes Suspension Expansion
(ZU180)



Code Number
3N32-15-31X00

Subpart
Car frame

Comment
Thickness 2 - 5 - 10mm

Inlet-Extension
for Guideshoe ETN 180



Code Number
3N32-60-12501
3N32-60-12501

Subpart
Car frame

Comment
Thickness 1 - 2mm

Inlet-Extension
for Guideshoe ETN 181
(Vertical Mounting)



Code Number
3N32-60-12506
3N32-60-12507

Subpart
Car frame

Comment
Thickness 1 – 2mm
Used basicaly in traction lifts &
HA HAD

Left & Right Safety Gear Arm



Code Number
3N33-10-40200 &
6 94-00-04000

Subpart
Car frame

Comment
For ropes with diameter
D13 & D14

Balance Small
(ZU-170)



Code Number
3N35-13-1040X

Subpart
Car frame

Comment
Thickness 1 - 2mm

Inlet-Extension
for Guideshoe Klem 140



Code Number
3N36-02-0030X

Subpart
Car frame

Comment
Thickness 1 - 2mm

Safety Gear
Block Spring



Code Number
6 94-00-01220

Subpart
Car frame

Comment
For instaneous safety gear KL

Wire Rope Tube
(For Rope Rod M16 & M18)



Code Number
3N36-05-00200
6 94-00-03203

Subpart
Car frame

Comment
For ropes with diameter
D8 – D12

Base for Pulley Switch
Pizzato FR 538 LSPL



Code Number
3N44-32-00100

Subpart
Car frame

Comment
For all types of guide rails

Fixation Angle for Pizzato Switch FR 638



Code Number
3N44-52-00400

Subpart
Car frame

Comment
For
T70 80 82 89 90 guide rails

Fixation Angle for Pizzato Switch FR 638 (FSPA 125)



Code Number
3N44-52-00200

Subpart
Car frame

Comment
For T125 & T127 guide rails

Single Angular Plate for Switches Fixation (FSA)



Code Number
3N44-52-00500

Subpart
Car frame

Comment
For all types of guide rails

Spring Return 1,6 x 12,5 x 77,5 (Safety Gear System)



Code Number
6 94-00-01602

Subpart
Car frame

Comment
Spring return for the safety gear arm (Used in car slings ZU160 170 180 210)

Inlet-Extension for Counterweight-Guideshoe 5mm (Counterweight Sling)



Code Number
3N58-14-10602

Subpart
Car frame

Comment
For guide shoe base ETN 100

Elastic Buffer Acla A 300401



Code Number
6F99-04-10003

Subpart
Car frame

Elastic Buffer Elastogran 080080



Code Number
6F99-04-08080

Subpart
Car frame

Elastic Buffer Elastogran 125080



Code Number
6F99-04-12508

Subpart
Car frame

Elastic Buffer Elastogran 165080



Code Number
6F99-04-16508

Subpart
Car frame

Elastic Buffer Cable Buffers



Code Number
4 99-04-000XX

Subpart
Car frame

Comment
Types available
5017-1 5017-2
6521-1 6521-2

Guide Shoe Base Kleemann Pl32/40



Code Number
6 50-00-00001

Subpart
Car frame

Comment
For old type KL guide shoe, use in pulleys

Guide Shoe Base Kleemann CON



Code Number
6 50-01-00000

Subpart
Car frame

Comment
For guide shoe Kleemann CON green, use in car slings

Guide Shoe Base
Kleemann Kl12



Code Number
6 50-01-00001

\Subpart
Car frame

Comment
For old type KL guide shoe -usen in pulleys

Guide Shoe Base
Kleemann CON (Angular)



Code Number
6 50-01-00002

Subpart
Car frame

Comment
For guide shoe Kleemann CON green – usen in pulleys

Guide Shoe Base
Kleemann CON (Oval Holes)



Code Number
6 50-01-00003

Subpart
Car frame

Comment
For guide shoe Kleemann CON green

Base for Guide Shoe
Plastic Liner 80 x 90 (New Type)



Code Number
6 50-02-00001

Subpart
Car frame

Comment
For ZU car slings

Guide Shoe Base
KLEEMANN KL19



Code Number
6 50-03-00001

Subpart
Car frame

Comment
For old type guide shoe yellow -use in car slings

Guide Shoe Base
ETN HSM 140



Code Number
6 50-05-00001

Subpart
Car frame

Comment
For guide shoe ETN green- use in car slings

Guide Shoe Base
ETN HSMG 140 (Half)



Code Number
6 50-05-00002

Subpart
Car frame

Comment
For guide shoe ETN green, use in car slings in cases there are rollers on the car sling as well.

Guide Shoe Base
ETN HSML 180



Code Number
6 50-05-00003

Subpart
Car frame

Comment
For guide shoe etn green-use in UCF HA HAD HADI car slings

Guide Shoe Base
ETN HSMK 100



Code Number
6 50-05-00007

Subpart
Car frame

Comment
For guide shoe ETN green, basicaly for traction lifts

Guide Shoe Base
CON 140 (Half)



Code Number
6 50-01-00004

Subpart
Car frame

Comment
For car slings with rollers

Guide Shoe
ETN PU



Code Number
6 51-00-00X0X

Subpart
Car frame

Comment
Red colour. Softer gum, material than the green guideshoes

Guide Shoe
ETN EM 12PU



Code Number
6 51-00-01201

Subpart
Car frame

Comment
Orange colour. Old type

Guide Shoe
ETN PA



Code Number
6 51-00-0XX0X

Subpart
Car frame

Comment
Yellow Colour. Old Type

Guide Shoe
KLEEMANN



Code Number
6 51-00-0XX0X

Subpart
Car frame

Comment
Yellow colour. Old type

Guide Shoe
KLEEMANN CON
(Green Half)



Code Number
6 51-00-01617

Subpart
Car frame

Comment
Green colour

Guide Shoe
KLEEMANN CON



Code Number
6 51-00-0XXXX

Subpart
Car frame

Comment
Green colour
(Available in 140-180
back dimension)

Guide Shoe
ETN PE



Code Number
6 51-00-0XXXX

Subpart
Car frame

Comment
Black colour.
For higher quality sliding,
available in 100-140-180 back
dimension

Guide Shoe
TN TPE



Code Number
6 51-00-0XXXX

Subpart
Car frame

Comment
White colour. For compact
elevators

Guide Shoe Plastic Liner
80 x 90
(New Type)



Code Number
6 92-06-00000

Subpart
Car frame

Comment
For ZU car slings

Guide Shoe Plastic Liner
60 x 100
(Old Type)



Code Number
6 92-07-00000

Subpart
Car frame

Comment
For older types of car sling (UCF)

Overload Device
DS-EUROPE MRL- 200-7mm



Code Number
4 34-99-00018

Subpart
Car frame

Cylinder Bracket



Code Number
0542-5X-0XX00

Subpart
Car frame

Shaft Beam Bracket



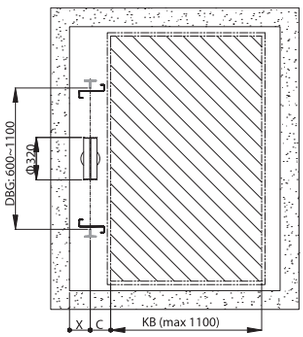
Code Number
0542-5X-0XX00

Subpart
Car frame

Hydraulic

KLEEMANN™
Your 1st Choice in Lifts

Zu160 HAI 32



Technical Data

Car Frame

Weight
130up to 2150kg

Safety Gear
Instantaneous / Progressive

Frame Guiding
Up: Slider
Down: Roller

Headroom

Cabin Total Height
2171mm – 2270mm
2271mm – 2370mm
2371mm – 2470mm

Min Manufacturing
3030mm
3130mm
3230mm

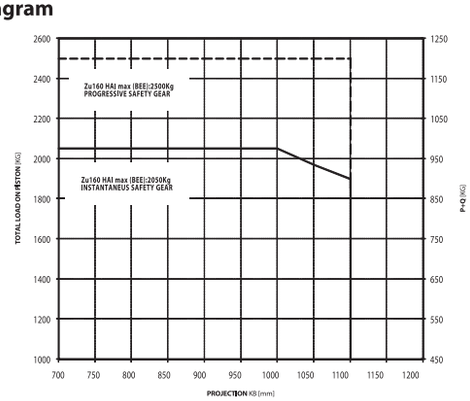
Min acc. to EN81-2
(indicative)*
3200mm
3300mm
3400mm

Pit Depth

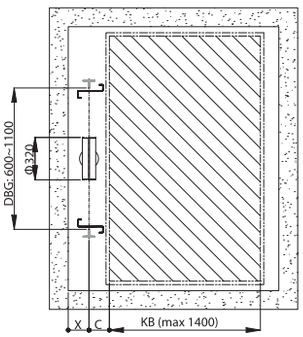
Min Manufacturing
(Instantaneous safety gear)
540mm

Min According to EN 81-2
(indicative)*
970mm

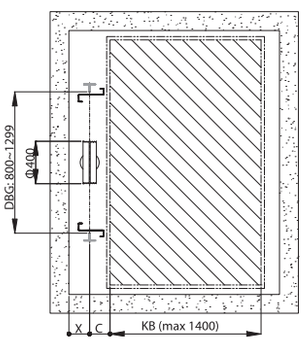
Application Diagram



Zu180 HAI 32 & HAI 40



Zu180 HAI / 32



Zu180 HAI / 40

Technical Data

Car Frame

Weight
170 up to 210kg

Safety Gear
Instantaneous / Progressive

Frame Guiding
Up: Slider
Down: Roller

Headroom

Cabin Total Height
2171mm – 2270mm
2271mm – 2370mm
2371mm – 2470mm

Min Manufacturing
3040mm
3140mm
3240mm

Min acc. to EN81-2
(indicative)*
3200mm
3300mm
3400mm

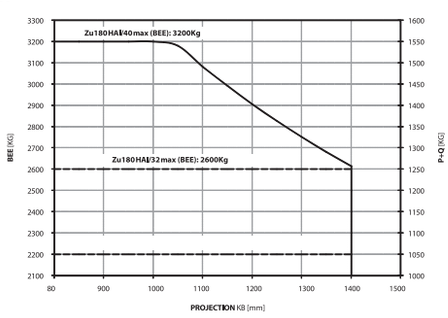
Pit Depth

Min Manufacturing
(Instantaneous safety gear)
660mm

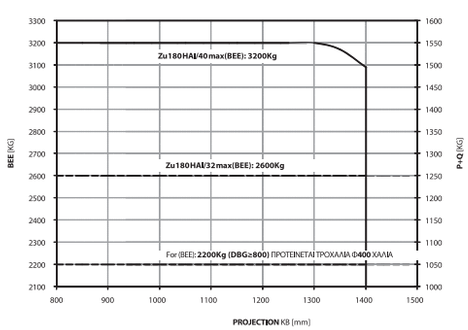
Min According to EN 81-2
(indicative)*
970mm

Application Diagram

Instantaneous Safety Gear

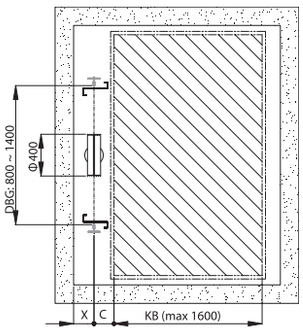


Progressive Safety Gear



** Please contact our sales department*

Zu210 HAI 40



Technical Data

Car Frame

Weight
220 up to 260kg

Safety Gear
Instantaneous / Progressive

Frame Guiding
Up: Roller + Slider
Down: Roller

Headroom

Cabin Total Height
2151mm – 2250mm
2251mm – 2350mm
2351mm – 2450mm

Min Manufacturing
3020mm
3120mm
3220mm

Min acc. to EN81-2 (indicative)*
970mm

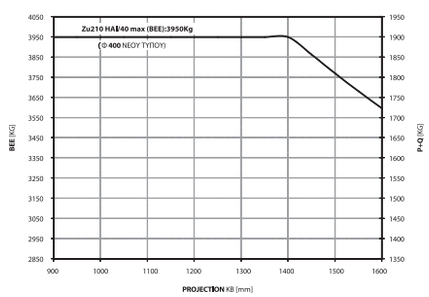
Pit Depth

Min Manufacturing (Instantaneous safety gear)
660mm

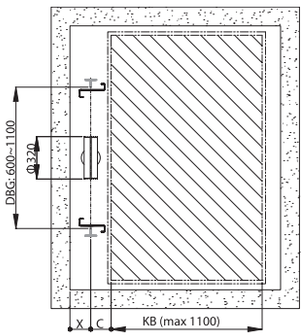
Min According to EN 81-2 (indicative)*
970mm

Application Diagram

Instantaneous Safety Gear



Zu240 HAI 45



Technical Data

Car Frame

Weight
270 up to 320kg

Safety Gear
Instantaneous / Progressive

Frame Guiding
Up: Slider
Down: Roller

Headroom

Cabin Total Height
2151mm – 2250mm
2251mm – 2350mm
2351mm – 2450mm

Min Manufacturing
3080mm
3180mm
3280mm

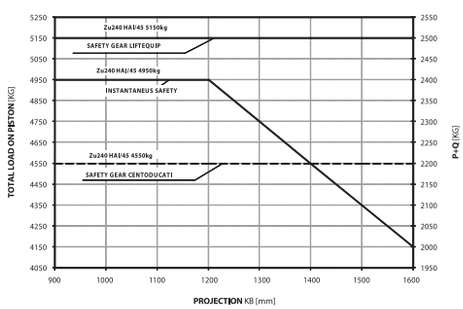
Min acc. to EN81-2 (indicative)*
970mm

Pit Depth

Min Manufacturing (Instantaneous safety gear)
770mm

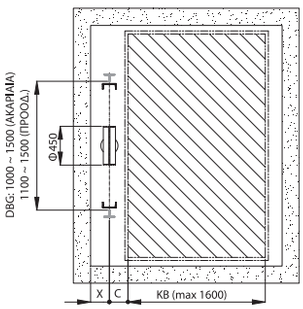
Min According to EN 81-2 (indicative)*
970mm

Application Diagram



** Please contact our sales department*

Zu270 HAI 40 & HAI 52



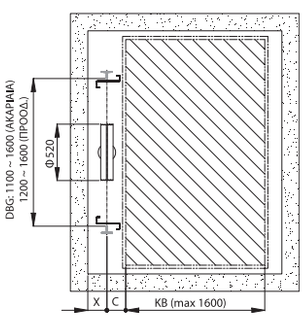
Technical Data

Car Frame

Weight
420 up to 490kg

Safety Gear
Instantaneous / Progressive-

Frame Guiding
Up: Slider
Down: Roller



Headroom

Cabin Total Height
2161mm – 2360mm
2261mm – 2520mm
2361mm – 2720mm

Min Manufacturing
3200mm
3360mm
3560mm

Min acc. to EN81-2
(indicative)*
3300mm
3450mm
3600mm

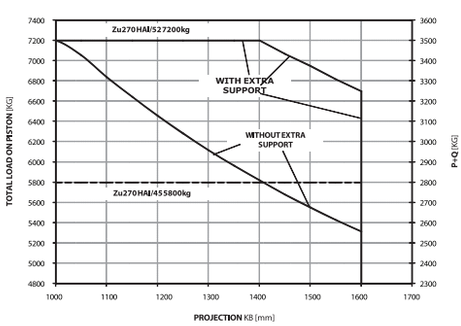
Pit Depth

Min Manufacturing
(Instantaneous safety gear)
680mm

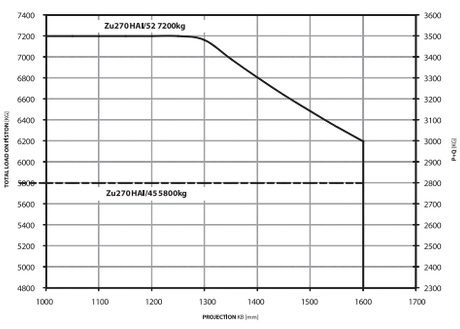
Min According to EN 81-2
(indicative)*
3300mm
3450mm

Frame
Application Diagram

Instantaneous Safety Gear

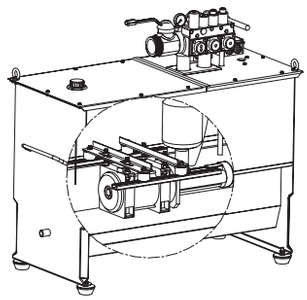


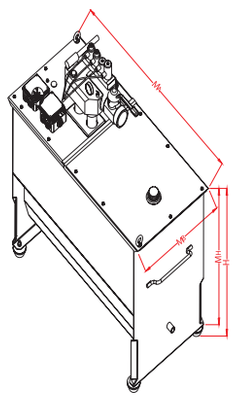
Progressive Safety Gear



** Please contact our sales department*

Power Unit





KLT Type	KLH Type	Length (M_A) (mm)	Breadth (M_B) (mm)	Height (M_H) (mm)	Total Volume (Lt)	Service Able Volume (Lt)	Weight (Kg)	Thermal Surface (m²)
T50	-	575	330	550	50	35	30	0.9892
T150	T150 - Grl1	820	510	705	150	90	52	2.0136
T250	T250 - Grl2	1070	510	790	246	165	64	2.7736
T350	T350 - Grl3	1070	510	990	346	265	75	3.3736
T450	T450 - LTZ	1325	510	990	430	330	87	4.0336
T600	T600 - Grl4	1325	630	1100	620	480	105	4.9792
T750	T750 - LTZ	1570	630	1100	740	575	128	5.7592
T1200	T1200 - Grl5	1570	830	1245	1100	936	245	7.4560

Oil Cooler

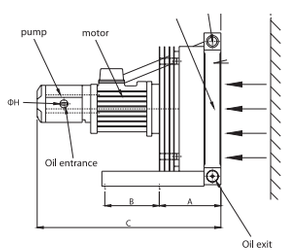
Description Operation

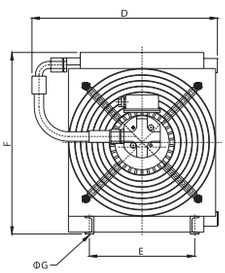
The main parts of the oil cooler are:

The heat exchanger, the pump and the motor, which are positioned on a common base the cooler

The set of cooler flexible connector tubes connecting to the power unit







Selection of oil cooler

TFSA 085 Oil Cooler
this is employed in simple office buildings or generally in professional premises with little lift traffic (maximum motor power 13kW)

TFSA 130 Oil Cooler
this is employed in simple office buildings or generally in professional premises with relatively frequent lift traffic (maximum motor power 24kW)

TFSA 200 Oil Cooler
this is employed in public buildings or generally in professional premises with high lift traffic (motor power above 24kW)

Technical specifications	TFSA 085	TFSA 130	TFSA 200
Cooler performance (kW) (temp difference=25K)	4.8	7.2	12.5
Motor power rating (kW)	0.55	1.1	1.5
Operating voltage (V)	380	380	380
Pump supply (l/min)	30	38	50
Air supply (m³/h)	1131	2565	2232
Weight (Kg)	28	45	55
Noise level [dB(A)]	64	74	76
Maximum permissible operating pressure (for viscosity flow 40mm/s²)	10	10	5
Rubber hose	1" (DN25)		
Motor protection class	IP 55		
Colour	RAL 5009		
Maximum permissible distance from cooler to container	5	5	5

Type	A	B	C	D*	E	F	G	H*	I	Wmin
TFSA 085	204	150	525	450	298	430	11	1"	1	150
TFSA 130	237	150	552	560	440	547	11	1"	1	150
TFSA 200	237	150	611	560	440	547	11	1"	1	150

* approxiamations



Modification
from blain to bucher

Block of valves CLRV
Electronic card
Hand pump
Rubber Hose
Metal cover for the power unit
Electronic Valve*

**In co-operation with Bucher Hydraulics*

Electronic Valve

Advantages
Technical Characteristics

Reduced power consumption (up to 30%)

Excellent ride quality equal to VVVF traction systems

Exceptional leveling accuracy (max ± 3mm)

Lift operation insensitive to changes in oil pressure and temperature

Easily adjustable functions through a special terminal

Adjustable maintenance speed (up to 50% of the lift's nominal speed)

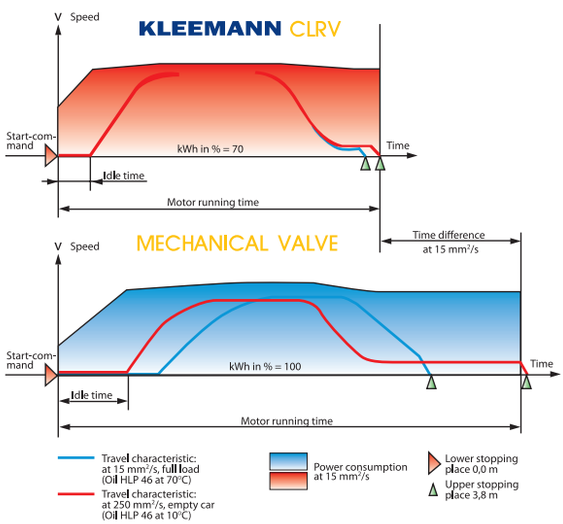
Down speed can easily be increased up to 50% with no cost

All parameters and functions can be adjusted independently

Easy fault diagnosis

Speed up to 1m/s

Up to 50% reduced energy consumption



CHARACTERISTICS AT TEMPERATURE DIFFERENCES		
	KLEEMANN CLRV	MECHANICAL
idle time	short and constant	variable
acceleration	constant	variable
travel speed	constant	variable
deceleration	constant	variable
levelling speed	constant	variable
travelling time	constant	variable
power consumption	constant	variable
power loss	low	high

Curved Hose 90°
Reinforced



Code Number
0123-11-X0000

Subpart
Power Unit

Comment
Dimensions:
3/4″ 1″ 1 1/4″ 1 1/2″ 2″

Runner Hose
Brackets



Code Number
0128-3X-00000

Subpart
Power Unit

Comment
Dimensions:
3/4″ 1″ 1 1/4″ 1 1/2″ 2″

Oil Thermistor K
Complete



Code Number
2 23-12-00000

Subpart
Power Unit

Comment
Power: 250W

Silencer S



Code Number
2 26-1X-10000

Subpart
Power Unit

Comment
Depends on the power
Unit Type

Throttling Pipe
for Nitrogen Silencer
(M14x1.5) (A) (Parker)



Code Number
3N23-12-01X00

Subpart
Power Unit

Comment
Combined with the Nitrogen
Silencer
Dimensions:
3/4″ 1″ 1 1/4″ 1 1/2″ 2″

Pump
Allweiler RUC



Code Number
6 10-00-XXX00

Subpart
Power Unit

Comment
Flow from 27Lt to 36Lt
& 175Lt to 800Lt

Pump
Settima GR



Code Number
6 10-10-XXX00

Subpart
Power Unit

Comment
Flow from 8Lt to 800Lt

Pump Allweiler RUA
(Square Flange)



Code Number

6 10-31-XXX00**Subpart**
Power Unit

Comment
Flow from 60Lt to150Lt
(Use when the motor
Has Flywheel)

Pump Allweiler SUA
(Rectangular Fishplate)
& SUC



Code Number
6 10-32-07500

Subpart
Power Unit

Comment
For lifts with inverter

Motor Elmo



Code Number
6 11-00-XXXXX

Subpart
Power Unit

Comment
Power from 1,2Kw to 47Kw

Shut-Off Ball
Valve Total



Code Number
6 12-19-0X000

Subpart
Power Unit

Comment
Dimensions:
3/4″ 1″ 1 1/4″ 1 1/2″ 2″

Handpump H11 - BL



Code Number
6 19-00-00001

Subpart
Power Unit

Comment
For Blain Block of Valves EV100

Handpump H12 - GR



Code Number
6 19-00-00005

Subpart
Power Unit

Comment
Installation on the tank

Handpump H11 - GR



Code Number
6 19-00-00003

Subpart
Power Unit

Comment
For blain block of valves EV100

Handpump Bucher
C-LRV 175, 350



Code Number
6 19-00-00004

Subpart
Power Unit

Comment
For bucher block of valves

Pressure Switch Suco
DL 1-10 Bar
with Support Base



Code Number
6 19-01-00001

Subpart
Power Unit

Comment
CODE 805803

Pressure Switch Suco
DL 1-100 Bar
with Support Base



Code Number
6 19-01-00002

Subpart
Power Unit

Comment
CODE 806103

Thermostat Unit Imit
(0 - 90 °C) Complete



Code Number
6 19-02-00002

Subpart
Power Unit

Oil Heater Unit TH
(Blain)



Code Number
6 19-03-00002

Subpart
Power Unit

Oil Thermistor PTC



Code Number
6 19-04-00001

Subpart
Power Unit

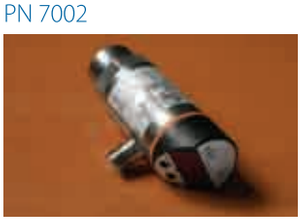
Electronic Pressure Switch
(Micelect) SPB 1-100 BAR



Code Number
6 19-06-00009

Subpart
Power Unit

Electronic Pressure Switch
PN 7002



Code Number
6 19-06-00001

Subpart
Power Unit

Comment
Comined with: Nipel (Yellow)
1/4"[6 90-04-00000]
& the pressure switch cable
PN 7002 [6 19-06-00012]

Nitrogen Silencer
(M14x1.5) (A) (Hydec)



Code Number
6 19-08-00003

Subpart
Power Unit

Terminals Connection Box
Gewiss



Code Number
6 42-05-0000X

Subpart
Power Unit

Comment
Depends on the power unit
type

T Junction 1/4" M
Galvanised



Code Number
6 90-01-00000

Subpart
Power Unit

Comment
Combined with the pressure switches suco DH (needs nipel ¼") – this is for use of two pressure switches

Nipel Yellow
Galvanised



Code Number
6 90-04-0XXXX

Subpart
Power Unit

Comment
Various sizes

Throttling Pipe



Code Number
6 90-08-00XXX

Subpart
Power Unit

Comment
Various sizes

Joint
Galvanised



Code Number
6 90-09-10XXX

Subpart
Power Unit

Comment
Type:
Ø10 - Ø10, Ø25 - Ø25,
Ø30 - Ø30, Ø35 - Ø35,
Ø38 - Ø38, Ø42 - Ø42

Lowering Control
Valve L10



Code Number
6 12-09-04000

Subpart
Power Unit

Coupling
Ø10 , Ø12



Code Number
6 19-00-10001

Subpart
Power Unit

Comment
Connected to the l10 valve – for the oil return in the tank

Coupling
Ø10 , Ø12 (Angle)



Code Number
6 19-00-10007
6 19-00-12001

Subpart
Power Unit

Comment
In cases of L10 valves in flexy lifts

Rubber Tube
Ø10 , Ø12



Code Number
6 19-00-10007
6 19-00-12001

Subpart
Power Unit

Comment
Connected to the couplings of the same diameters (mentioned above)

Valves Block
EV100 3/4″



Code Number
6 12-00-03XXX

Subpart
Power Unit

Valves Block
EV100 1 1/2″



Code Number
6 12-00-07XXX

Subpart
Power Unit

Valves Block
EV100 2″



Code Number
6 12-00-08XXX

Subpart
Power Uni

Valves Block
KV 1-S 1/2″



Code Number
6 12-02-101XX

Subpart
Power Unit

Comment
For compact elevators

By-Pass Valve
Spool EV100 3/4″



Code Number
6 12-25-1130X

Subpart
Power Unit

Comment
Depends on the flow
and the static pressure

Down Valve
Spool EV100 3/4″

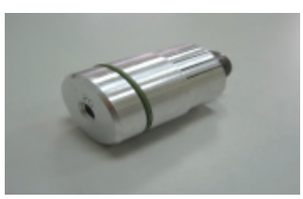


Code Number
6 12-25-1140X

Subpart
Power Unit

Comment
Depends on the flow
and the static pressure

By-Pass Valve
Spool EV100 1 1/2″ & 2″



Code Number
6 12-25-1230X

Subpart
Power Unit

Comment
Depends on the flow a
nd the static pressure

Down Valve
Spool EV100 1 1/2″ & 2″



Code Number
6 12-25-1240X

Subpart
Power Unit

Comment
Depends on the flow
And the static pressure

By-Pass Valve
Spool No8 EV100 2 1/2″



Code Number
6 12-25-14308

Subpart
Power Unit

Comment
For EV100 2 1/2″

By-Pass Valve
Spool No9 EV100 2 1/2″



Code Number
6 12-25-14309

Subpart
Power Unit

Comment
For EV100 2 1/2″

Down Valve
Spool No9 EV100 2 1/2″



Code Number
6 12-25-14409

Subpart
Power Unit

Comment
For EV100 2 1/2″

By-Pass Valve
Spool No10 EV100 2 1/2″

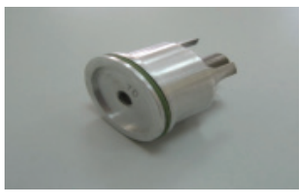


Code Number
6 12-25-14410

Subpart
Power Unit

Comment
For EV100 2 1/2″

Down Valve Spool No10
EV100 2 1/2"



Code Number
6 12-25-14411

Subpart
Power Unit

Comment
For EV100 2 1/2"

By-Pass Valve
Spool KV 1/2"



Code Number
6 12-25-21XX0

Subpart
Power Unit

Dimensions
For compact elevators.
Depends on the flow
and the static pressure

Guide Shoe
KLEEMANN CON
(Green Half)



Code Number
6 12-25-21XX0

Subpart
Power Unit

Comment
For compact elevators.
Depends on the flow and the
static pressure

Solenoid



Code Number
6 12-02-101XX

Subpart
Power Unit

Comment
Variable voltages
(42vdc, 110vdc, 180vdc,
220vac, 24vdc, 110vac)

Solenoid
DC or AC + 12VDC



Code Number
6 12-25-3120X

Subpart
Power Unit

Comment
Variable voltages
(42vdc, 110vdc, 180vdc, 220vac,
24vdc, 110vac) + 12vdc

Manometer
0-100 Bar



Code Number
6 12-25-90000

Subpart
Power Unit

Comment
Pressure Measurement

O-Ring Set
for EV100 3/4"



Code Number
6 12-25-90001

Subpart
Power Unit

Comment
Block Sealings

O-Ring Set
for EV100 1 1/2" - 2"



Code Number
6 12-25-90002

Subpart
Power Unit

Comment
Block Sealings

By-Pass Spring
EV100 3/4"



Code Number
6 12-25-90003

Subpart
Power Unit

Comment
Placed in the attachment No1

By-Pass Spring
EV100 1 1/2" - 2"



Code Number
6 12-25-90004

Subpart
Power Unit

Comment
Placed in the attachment No1

Tube Solenoid
"UP" (AR)



Code Number
6 12-25-90007

Subpart
Power Unit

Comment
Use on the "up" spools

Tube Solenoid
"Down" (DR)



Code Number
6 12-25-90008

Subpart
Power Unit

Comment
Use on the "down" Spools

Adjustment
"S" + Spring



Code Number
6 12-25-90010

Subpart
Power Unit

Comment
For the relief pressure adjustment on the valve block

Needle Down D (DN)
for EV100



Code Number
6 12-25-90012

Subpart
Power Unit

Comment
Replace in case of internal leakage -this is inside the "down" spool tubes

Seat Solenoid "Down" D
(DS) for EV100



Code Number
6 12-25-90013

Subpart
Power Unit

Comment
Replace in case of internal leakage

Spring of Adjustment
No4 EV100 1 1/2"



Code Number
6 12-25-90014

Subpart
Power Unit

Comment
Placed in the return valve

Spring of Adjustment
No4 EV100 3/4"



Code Number
6 12-25-90015

Subpart
Power Unit

Comment
Placed in the return valve

Manual Lowering
Valve + O Ring



Code Number
6 12-25-90018

Subpart
Power Unit

Comment
Emergency lowering

Manometer
0-160 bar



Code Number
6 12-25-90023

Subpart
Power Unit

Comment
Pressure measurement

Needle Down D (N6)
for KV1S



Code Number
6 12-25-90025

Subpart
Power Unit

Comment
Replace in case of internal leakage.
For compact elevators

Seat Solenoid "Down" D
(S6) FOR KV1S



Code Number
6 12-25-90026

Subpart
Power Unit

Comment
Replace in case of internal leakage.
For compact elevators

Filter for Valve
KV1S



Code Number
6 12-25-90031

Subpart
Power Unit

Comment
For compact elevators

O-Ring Flange
(FO)



Code Number
6 12-25-90032

Subpart
Power Unit

Comment
For by-pass valve spool

UP - Valve Spool Collar
(AD)



Code Number
6 12-25-90033

Subpart
Power Unit

Comment
Use on "up" spools

Down Valve Spol CX
No05 - 06 EV100 3/4"



Code Number
6 12-25-90035

Subpart
Power Unit

Comment
Use in cases of speed difference between the travel with an empty car & travel with full load

Spring Solenoid
"UP" (AF)



Code Number
6 12-25-90036

Subpart
Power Unit

Comment
Use in "up" spools

Spring Solenoid
"Down" (DF)



Code Number
6 12-25-90037

Subpart
Power Unit

Comment
Use in "down" spools

O-Ring by Pass
EV100 1 1/2" - 2"



Code Number
6 12-25-90038

Subpart
Power Unit

Comment
For by-pass valve spool

Non-Return Valve Spool
(Adjustment No4)
EV100 3/4"



Code Number
6 12-25-90039

Subpart
Power Unit

O-Ring Set
for KV1S



Code Number
6 12-25-90040

Subpart
Power Unit

Comment
Block sealings
for compact elevators

Non-Return Valve Spool
Adjustment No4
EV100 1 1/2" & 2"



Code Number
6 12-25-90041

Subpart
Power Unit

Adjustment KS
(EV100)



Code Number
6 12-25-90043

Subpart
Power Unit

Comment
Adjustment of cable slackening valve KS

Non-Return Valve Spool
(KV)



Code Number
6 12-25-90044

Subpart
Power Unit

Comment
For compact elevators

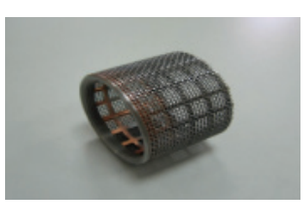
Down Valve Filter
EV100 3/4"



Code Number
6 12-25-90045

Subpart
Power Unit

Down Valve Filter
EV100 1 1/2"



Code Number
6 12-25-90046

Subpart
Power Unit

Switch for Manometer



Code Number
6 12-25-90047

Subpart
Power Unit

Filter Solenoid
"Down" (FD)



Code Number
6 12-25-90048

Subpart
Power Unit

Comment
Placed inside the "down" spool

Adjustment No2
for EV100 3/4" & 1 1/2"



Code Number
6 12-25-91200

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment
No3, 5, 6



Code Number
6 12-25-91300

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment No7
EV100 3/4"



Code Number
6 12-25-91700

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment No8



Code Number
6 12-25-91800

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment No9
for EV100 3/4"



Code Number
6 12-25-91900

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment No4
EV100 1 1/2", 2"



Code Number
6 12-25-92400

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment No7
EV100 1 1/2' & 2"



Code Number
6 12-25-92700

Subpart
Power Unit

Comment
Valve block adjustment

Adjustment No9
EV100 1 1/2" & 2"



Code Number
6 12-25-92900

Subpart
Power Unit

Comment
Valve block adjustment

Flange by Pass
EV100 3/4"



Code Number
6 12-25-93100

Subpart
Power Unit

Flange Non-Rreturn
Valve EV100 3/4"



Code Number
6 12-25-93101

Subpart
Power Unit

Flange Down Valve (7-9)
with KS EV100 3/4'



Code Number
6 12-25-93102

Subpart
Power Unit

Flange Down Valve
(7-9) without KS
(EV100 3/4")



Code Number
6 12-25-93103

Subpart
Power Unit

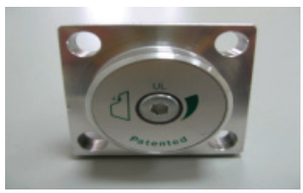
Flange By-Pass
(EV100 1 1/2" & 2")



Code Number
6 12-25-93200

Subpart
Power Unit

Flange Non-Return Valve
(EV100 1 1/2" & 2")



Code Number
6 12-25-93201

Subpart
Power Unit

Flange Down Valve
(EV100 1 1/2" & 2")



Code Number
6 12-25-93202

Subpart
Power Unit

Flange Down Valve (7-9)
without KS
(EV100 1 1/2" & 2")



Code Number
6 12-25-93203

Subpart
Power Unit

Spool Cover-Safety
(MM)



Code Number
6 12-25-99905

Subpart
Power Unit

Comment
Locks the spools to the valves

O-Ring for Spool
(MO)



Code Number
6 12-25-99906

Subpart
Power Unit

Needle for Magnetic Up-Spool
(AN) for EV100



Code Number
6 12-25-99907

Subpart
Power Unit

Comment
Use on "up" spools

Sealing Base for Up-Spool
(AH)



Code Number
6 12-25-99908

Subpart
Power Unit

Comment
Use on "Up" spools

Sealing Base for Down-Spool
(DG)



Code Number
6 12-25-99909

Subpart
Power Unit

Comment
Placed in the tube
of the lowering spool

Sealing Ring for Up-Spool
(AS) For EV100



Code Number
6 12-25-99910

Subpart
Power Unit

Comment
Placed in the tube
of the "up" spool

O-Ring Non-Return Valve
(VO) (EV100 1 1/2")



Code Number
6 12-25-99912

Subpart
Power Unit

O-Ring Down Valve
(XO) EV100 3/4"



Code Number
6 12-25-99913

Subpart
Power Unit

O-Ring Down Valve
(XO) EV100 1 1/2"



Code Number
6 12-25-99914

Subpart
Power Unit

Bucher Valve Block
CLR-V 175



Code Number
6 12-27-000XX

Subpart
Power Unit

Bucher Valve Block
CLR-V350



Code Number
6 12-27-000XX

Subpart
Power Unit

Bucher Valve Block
VF CLR-V-V



Code Number
6 12-27-000XX

Subpart
Power Unit

Console for Valve Operation
C-LRV (Cable and Adaptor)



Code Number
6 12-25-93202

Subpart
Power Unit

Comment
To adjust the block

Rubber Base for C-LRV 175
(120X120x5)



Code Number
6 12-27-00016

Subpart
Power Unit

Feedback Sensor-Hall
(Bucher)



Code Number
6 12-27-00100

Subpart
Power Unit

Seal Kit Complete C-LRV 175
Incl. Down Pilot Valve



Code Number
6 12-27-00107

Subpart
Power Unit

Seal Kit Complete C-LRV 350
Incl. Down Pilot Valve



Code Number
6 12-27-00108

Subpart
Power Unit

Seal Kit Complete C-LRV 700
Incl. Down Pilot Valve



Code Number
6 12-27-00109

Subpart
Power Unit

Comment
Use on "up" spools

Feedback Cable
(6 Meters)
(Bucher)



Code Number
6 12-27-00110

Subpart
Power Unit

Comment
Connects the sensor with the electronic control board

Electronic Control Board
C-Delcon Siu-1



Code Number
6 12-27-00111

Subpart
Power Unit

Comment
Combined with the power supply unit NTA-2

Power Supply
Unit NTA-2
(220/230/240 VAC)



Code Number
6 12-27-00112

Subpart
Power Unit

Comment
Combined with the electronic control board C-Delcon SIU-1

Non Return Valve
for EHP 10



Code Number
6 12-27-00144

Subpart
Power Unit

Feedback Cable
(9 Meters) (Bucher)



Code Number
6 12-27-00145

Subpart
Power Unit

Protection Cap with Screw
(Sp-Sp)



Code Number
6 12-27-01001

Subpart
Power Unit

Comment
Connects the sensor with the electronic control board

Valve Top Port Complete
C-LRV 175 (SP-SP)



Code Number
6 12-27-01004

Subpart
Power Unit

Comment
To adjust the block

Sensing Rod
with Guide Tube (SP-SP)



Code Number
6 12-27-01005

Subpart
Power Unit

Flow Ring
C-LRV 175 250L (SP-SP)



Code Number
6 12-27-01006

Subpart
Power Unit

Down Valve Spool Complete 250L
(SP-SP)



Code Number
6 12-27-01007

Subpart
Power Unit

Comment
Depends on the flow

Up Valve Spool Complete 250L
(SP-SP)

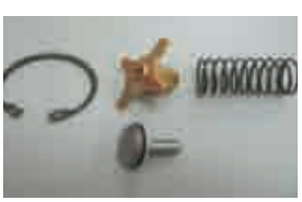


Code Number
6 12-27-00108

Subpart
Power Unit

Comment
Depends on the flow

Check Valve Complete
C-LRV 175 (SP-SP)



Code Number
6 12-27-00109

Subpart
Power Unit

Emergency Lowering Valve Complete
(SP-SP)



Code Number
6 12-27-00110

Subpart
Power Unit

Retainer/Handle Kit
Emergency Lowering Valve (SP-SP)



Code Number
6 12-27-00111

Subpart
Power Unit

Manometer
(SP-SP)



Code Number
6 12-27-00112

Subpart
Power Unit

Down Solenoid
Complete (Black Plug)
(SP-SP)



Code Number
6 12-27-01013

Subpart
Power Unit

Up Solenoid
Complete (Grey Plug)
(SP-SP)



Code Number
6 12-27-01014

Subpart
Power Unit

Down Pilot Valve
Complete (SP-SP)



Code Number
6 12-27-01015

Subpart
Power Unit

By-Bus Screw + Spool
(SP-SP)



Code Number
6 12-27-01016

Subpart
Power Unit

Up Pilot Valve
Complete (SP-SP)



Code Number
6 12-27-01018

Subpart
Power Unit

Pilot Plate Complete
C-LRV175 (SP-SP)



Code Number
6 12-27-01017
6 12-27-01019
6 12-27-01021

Subpart
Power Unit

Pressure Relief Valve
Complete (SP-SP)



Code Number
6 12-27-01020

Subpart
Power Unit

Pilot Filter
Complete (SP-SP)



Code Number
6 12-27-01022

Subpart
Power Unit

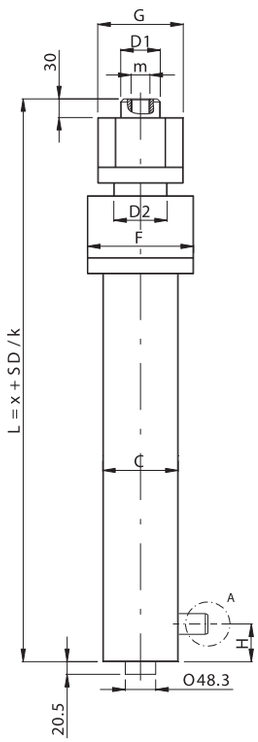
Main Part Bucher C-LRV 175
(SP-SP)



Code Number
6 12-27-01023

Subpart
Power Unit

Telescopic Cylinder
KZT2 PA *



2-stage telescopic cylinder without yoke guides for side-ram system.

A: Piston area of biggest stage

Q: Duty load

P: Car and car frame weight

Bε0: Ram weight zero stroke

Bε: am weight per m stroke

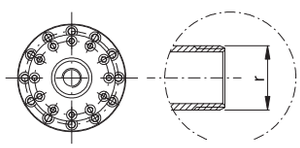
B0: Total cylinder weight zero stroke

B: Total cylinder weight per m stroke

VS: Oil volume to be filled in per m stroke

VO: Oil volume to be pumped per m stroke

pmax: Max. static pressure

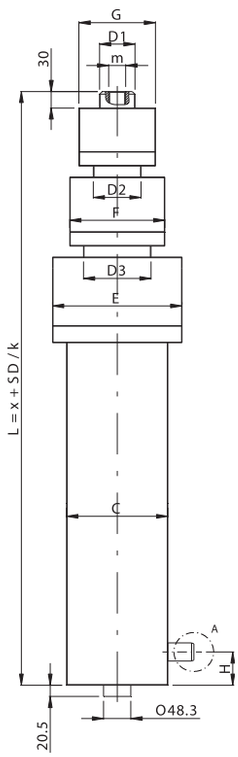


KZT2		50	63	70	85
ØD1	mm	50	63	70	85
ØD2	mm	70	85	100	120
ØC	mm	100	120	140	170
ØF	mm	150	170	190	230
ØG	mm	112	130	150	170
H	mm	60	60	60	60
x	mm	404	400	428	439
r	-	R 1	R 1 1/2	R 1 1/2	R 1 1/2
k	-	1.93	1.96	1.898	1.998
m	-	M30	M30	M30	M30
$B_{\varepsilon 0}$	kg	11.2	15.4	24.9	29.1
B_{ε}	kg/m	11.7	19.4	23.7	35.8
B_0	kg	32.6	44.1	64.4	88.4
B	kg/m	20.3	29.8	39.7	58.3
V_S	l/m	1.5	1.9	2.7	4.3
V_0	l/m	2.9	4.3	5.65	8.5
A	cm	56.74	86.59	113.1	169.7
P_{max}	bar	50	50	50	50

$$P_{STAT} = \frac{[2 \times (Q+P) + 1.5 \times (B_{\varepsilon 0} + B_{\varepsilon} \times SD)] \times 9.81}{A \times 10}$$

SD: Total stroke (including overtravels)

Telescopic Cylinder
KZT3 PA *



3-stage telescopic cylinder without yoke guides for side-ram sys-tem.

A: Piston area of biggest stage

Q: Duty load

P: Car and car frame weight

Bε0: Ram weight zero stroke

Bε: Ram weight per m stroke

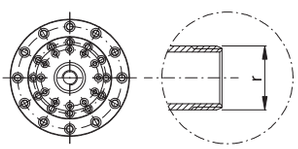
B0: Total cylinder weight zero stroke

B: Total cylinder weight per m stroke

VS: Oil volume to be filled in per m stroke

VO: Oil volume to be pumped per m stroke

pmax: Max. static pressure

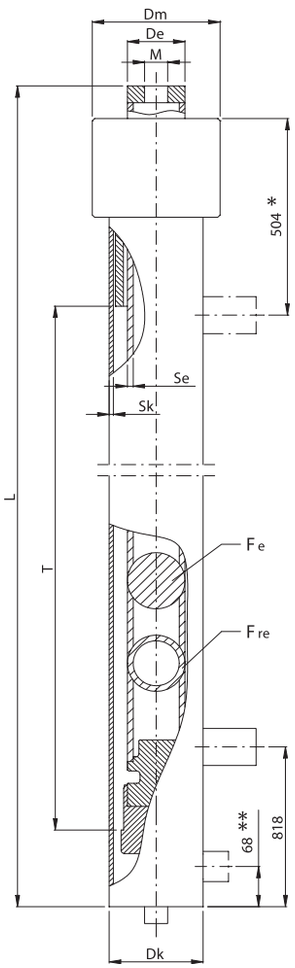


KZT2		50	63	70
ØD1	mm	50	63	70
ØD2	mm	70	85	100
ØD3	mm	100	120	140
ØC	mm	150	180	219.1
ØE	mm	200	240	260
ØF	mm	150	170	190
ØG	mm	112	130	150
H	mm	60	60	60
x	mm	561	659	684
r	-	R 1 1/2	R 1 1/2	R 1 1/2
k	-	2.84	2.99	2.927
m	-	M30	M30	M30
$B_{\varepsilon 0}$	kg	33.2	43.4	60.1
B_{ε}	kg/m	13.5	19.8	26.4
B_0	kg	83.0	120.5	173.8
B	kg/m	25.0	33.8	54.7
V_S	l/m	3	4.2	5.7
V_0	l/m	4.7	6.7	9.2
A	cm	132.73	201.06	268.8
P_{max}	bar	45	45	45

$$P_{STAT} = \frac{[3 \times (Q+P) + 2 \times (BEO + BE \times SD)] \times 9.81}{A \times 10} \text{ (bar)}$$

SD: Total stroke (including overtravels)

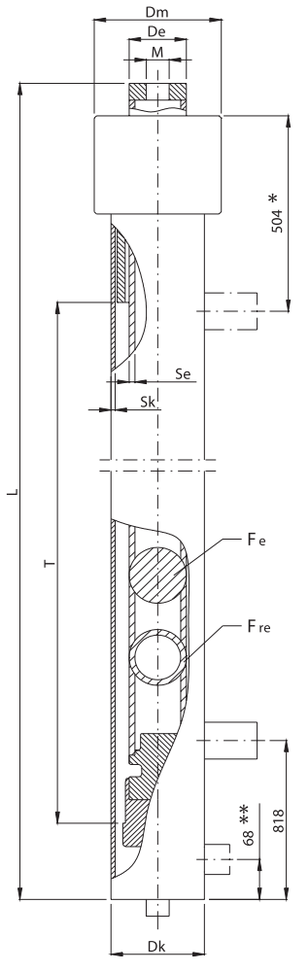
**For telescopic piston with yoke guirde and / or drilling contact our sales department*



Simple
KZA JACKS

Jack Description			KZA 70 x 5	KZA 80 x 5	KZA 90 x 5	KZA 90 x 6	KZA 100 x 5	KZA 100 x 6	KZA 100 x 7	KZA 100 x 8.5	KZA 100 x 12	KZA 110 x 5	KZA 110 x 7.5	KZA 110 x 10
External ram diameter	mm	D_e	70	80	90	90	100	100	100	100	100	110	110	110
Ram wall thickness	mm	S_e	5	5	5	6	5	6	7	8.5	12	5	7.5	10
Ram pressure surface	cm^2	F_e	38.48	50.27	63.62	63.62	78.54	78.54	78.54	78.54	78.54	95.03	95.03	95.03
Ram cross-section surface	cm^2	F_{re}	10.21	11.78	13.35	15.83	14.92	17.72	20.45	24.43	33.18	16.49	24.15	31.42
Weight per metre of ram	Kp/m	B_e	8.03	9.26	10.49	12.45	11.73	13.93	16.08	19.20	26.08	12.96	18.98	24.69
Ram weight for length L=0	Kp	B_{eo}	4.5	5.8	7.4	7.4	9	9	9	9	8.2	10.8	10.8	10.8
Piston plug screw thread	mm	M	30	30	30	30	30	30	30	30	30	30	30	30
External cylinder diameter	mm	D_k	101.6	114.3	139.7	139.7	139.7	139.7	139.7	139.7	139.7	159	159	159
Cylinder wall thickness	mm	S_k	3.6	4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5	5	5
External head diameter	mm	D_m	131	138	157	157	167	167	167	167	167	177	177	177
Max permissible cylinder pres-sure	bar	PK_{max}	46.51	47.7	45.53	45.53	45.53	45.53	45.53	45.53	45.53	45.72	45.72	45.72
Weight per metre of cylinder	Kp/m	B_k	8.71	10.89	15.02	15.02	15.02	15.02	15.02	15.02	15.02	19.01	19.01	19.01
Cylinder weight for length L=0	Kp	B_{ko}	9.5	9.6	14.7	14.7	14.9	14.9	14.9	14.9	14.9	17.2	17.2	17.2
Nominal ram length	mm	-	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0
Ram travel distance	mm	T	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0 -114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114
Total retracted jack length	mm	L	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151
Jack extension	mm	T+L	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37	2L_0+37

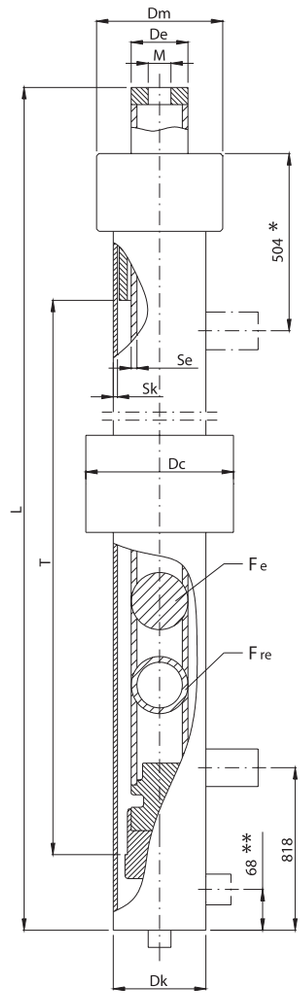
* The oil inlet can be at the upper part of the jack if the machine room is at the top of the shaft.
** The evacuation outlet is added to the jack only if the only inlet is at the upper part of jack.



Simple
KZA JACKS

Jack Description			KZA 120 x 6	KZA 120 x 9	KZA 130 x 6	KZA 130 x 10	KZA 150 x 8	KZA 150x12	KZA 100x12	KZA 165x8	KZA 165x12
External ram diameter	mm	D_e	120	120	130	130	150	150	100	165	165
Ram wall thickness	mm	S_e	6	9	6	12	8	12	12	8	12
Ram pressure surface	cm^2	F_e	113.1	113.1	13.73	132.73	176.71	176.71	78.54	213.82	213.82
Ram cross-section surface	cm^2	F_{re}	21.49	31.38	23.37	44.48	35.69	52.02	33.18	39.46	57.68
Weight per metre of ram	Kp/m	B_e	16.89	24.67	18.37	34.97	28.05	40.89	26.08	31.01	45.34
Ram weight for length L=0	Kp	B_{eo}	13	13	15.5	14.9	20.9	20.4	8.2	26.3	25.8
Piston plug screw thread	mm	M	30	30	30	30	36	36	30	36	36
External cylinder diameter	mm	D_k	159	159	177.8	177.8	193.7	193.7	139.7	219.1	219.1
Cylinder wall thickness	mm	S_k	5	5	5.6	5.6	5.9	5.9	4.5	7.1	7.1
External head diameter	mm	D_m	177	177	192	192	217	217	167	240	240
Max permissible cylinder pres-sure	bar	PK_{max}	45.72	45.72	47.02	47.02	45.97	45.97	45.53	50.60	50.60
Weight per metre of cylinder	Kp/m	B_k	19.01	19.01	23.81	23.81	27.36	27.36	15.02	37.17	37.17
Cylinder weight for length L=0	Kp	B_{ko}	17.2	17.2	18.6	18.6	21.8	21.8	14.9	25.0	25.0
Nominal ram length	mm	-	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0
Ram travel distance	mm	T	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114
Total retracted jack length	mm	L	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151
Jack extension	mm	T+L	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37

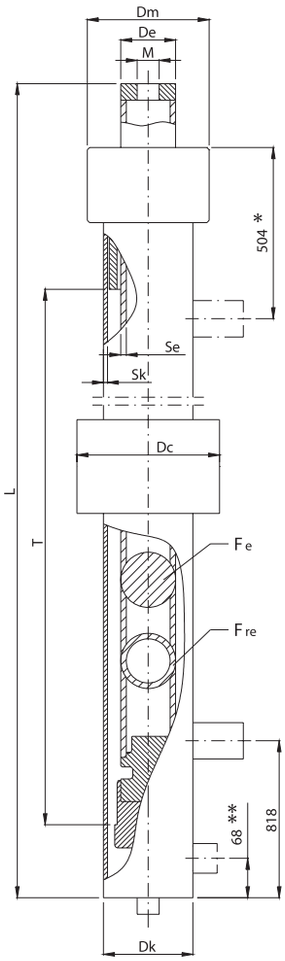
* The oil inlet can be at the upper part of the jack if the machine room is at the top of the shaft.
** The evacuation outlet is added to the jack only if the only inlet is at the upper part of jack.



Split Jacks
KZA-D

Jack Description			KZA - D 70 x 5	KZA - D 80 x 5	KZA - D 90 x 5	KZA - D 90 x 6	KZA - D 100 x 5	KZA - D 100 x 6	KZA - D 100 x 7	KZA - D 100 x 8.5	KZA - D 100 x 12	KZA - D 110 x 5	KZA - D 110 x 7.5	KZA - D 110 x 10
External ram diameter	mm	D_e	70	80	90	90	100	100	100	100	100	110	110	110
Ram wall thickness	mm	S_e	5	5	5	6	5	6	7	8.5	12	5	7.5	10
Ram pressure surface	cm^2	F_e	38.48	18.48	63.62	63.62	78.54	78.54	78.54	78.54	78.54	95.03	95.03	95.03
Ram cross-section surface	cm^2	F_{re}	10.21	10.21	13.35	15.83	14.92	17.72	20.45	24.43	33.18	16.49	24.15	31.42
Weight per met sre of ram	Kp/m	B_e	8.03	8.03	10.49	12.45	11.73	13.93	16.08	19.20	26.08	12.96	18.98	24.69
Ram weight for length L=0	Kp	B_{eo}	4.5	4.5	7.4	7.4	9	9	9	9	8.2	10.8	10.8	10.8
Ram plug screw thread	mm	M	30	30	30	30	30	30	30	30	30	30	30	30
External cylinder diameter	mm	D_k	101.6	114.3	139.7	139.7	139.7	139.7	139.7	139.7	139.7	159	159	159
Cylinder wall thickness	mm	S_k	3.6	4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5	5	5
External head diameter	mm	D_m	131	138	157	157	167	167	167	167	167	177	177	177
Max permissible cylinder pres-sure	bar	PK_{max}	46.51	47.7	45.53	45.53	45.53	45.53	45.53	45.53	45.53	45.72	54.72	45.72
Weight per metre of cylinder	Kp/m	B_k	8.71	10.89	15.02	15.02	15.02	15.02	15.02	15.02	15.02	19.01	19.01	19.01
Cylinder weight for length L=0	Kp	B_{ko}	9.5	9.6	14.7	14.7	14.9	14.9	14.9	14.9	14.9	17.2	17.2	17.2
External screw nut diameter	mm	D_c	150	163	190	190	190	190	190	190	190	210	210	210
Nominal ram length	mm	-	L_o	L_o	L_o	L_o	L_o	L_o	L_o	L_o	L_o	L_o	L_o	L_o
Ram travel distance	mm	T	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116	L_o-116
Total retracted jack length	mm	L	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218	L_o+218
Jack extension	mm	T+L	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102	$2L_o$+102

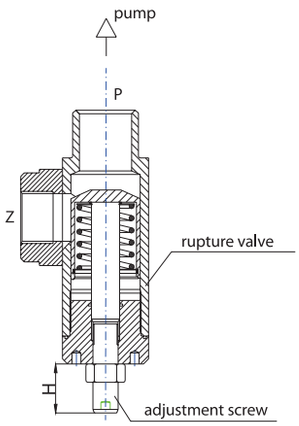
* The oil inlet can be at the upper part of the jack if the machine room is at the top of the shaft.
** The evacuation outlet is added to the jack only if the only inlet is at the upper part of jack.



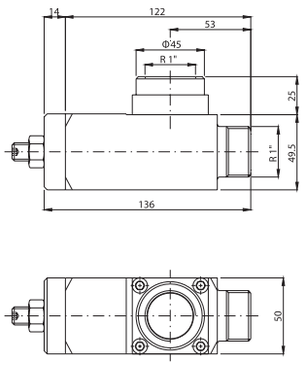
Split Jacks
KZA-D

Jack Description			KZA 120 x 6	KZA 120 x 9	KZA 130 x 6	KZA 130 x 10	KZA 130 x 12	KZA - D 150 x 8	KZA - D 150 x 12	KZA - D 165 x 8	KZA - D 165 x 12
External ram diameter	mm	D_e	120	120	130	130	130	150	150	165	165
Ram wall thickness	mm	S_e	6	9	6	10	12	8	12	8	12
Ram pressure surface	cm^2	F_e	113.1	113.1	13.73	132.73	132.73	176.71	176.71	213.82	213.82
Ram cross-section surface	cm^2	F_{re}	21.49	31.38	23.37	37.70	44.48	35.69	52.02	39.46	57.68
Weight per metre of ram	Kp/m	B_e	16.89	24.67	18.37	29.63	34.97	28.05	40.89	31.01	5.34
Ram weight for length L=0	Kp	B_{eo}	13	13	15.5	15.5	14.9	20.9	20.4	26.3	25.8
Ram plug screw thread	mm	M	30	30	30	30	30	36	36	36	36
External cylinder diameter	mm	D_k	159	159	177.8	177.8	177.8	193.7	193.7	219.1	219.1
Cylinder wall thickness	mm	S_k	5	5	5.6	5.6	5.6	5.9	5.9	7.1	7.1
External head diameter	mm	D_m	177	177	192	192	192	217	217	240	240
Max permissible cylinder pres-sure	bar	PK_{max}	45.72	45.72	47.02	47.02	47.02	45.97	45.97	50.60	50.60
Weight per metre of cylinder	Kp/m	B_k	19.01	19.01	23.81	23.81	23.81	27.36	27.36	37.17	37.17
Cylinder weight for length L=0	Kp	B_{ko}	17.2	17.2	18.6	18.6	18.6	21.8	21.8	25.0	25.0
External screw nut diameter	mm	D_c							257	282	282
Nominal ram length	mm	–	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0	L_0
Ram travel distance	mm	T	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-114	L_0-116	L_0-116	L_0-116
Total retracted jack length	mm	L	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+151	L_0+218	L_0+218	L_0+218
Jack extension	mm	T+L	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+37	$2L_0$+102	$2L_0$+102	$2L_0$+102

* The oil inlet can be at the upper part of the jack if the machine room is at the top of the shaft.
** The evacuation outlet is added to the jack only if the only inlet is at the upper part of jack.



The rupture valve must be connected directly to the lifting unit.
It is activated when the pressure at point P is reduced and becomes much lower than the corresponding pressure at point Z.

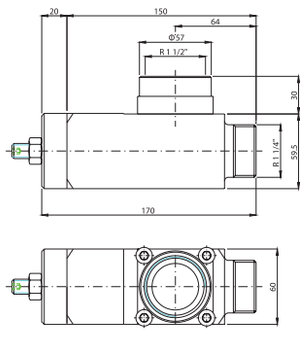


KL 10 1″

Operating Specifications

Nominal supply (l/min)	50-125
Pressure range (bar)	10-60
Oil viscosity (cst) at 40 °C	32-46
Ambient temperature (°C)	10-65

Activation supply is generally 30% greater than the nominal supply

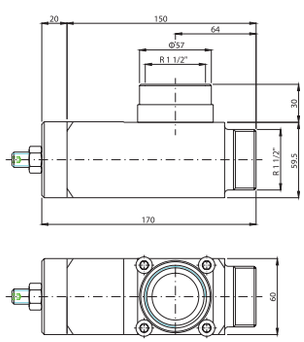


KL 10 1″

Operating Specifications

Nominal supply (l/min)	130-270
Pressure range (bar)	13-45
Oil viscosity (cst) at 40 °C	32-46
Ambient temperature (°C)	10-65

Activation supply is generally 30% greater than the nominal supply

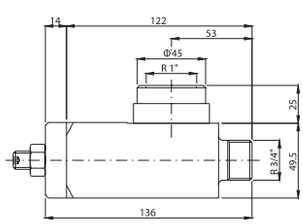


KL 10 1 ½″

Operating Specifications

Nominal supply (l/min)	130-270
Pressure range (bar)	10-60
Oil viscosity (cst) at 40 °C	32-46
Ambient temperature (°C)	10-65

Activation supply is generally 30% greater than the nominal supply

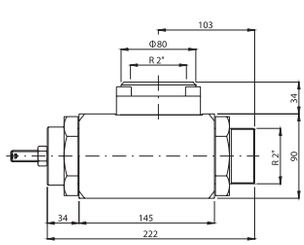


KL 10 3/4″

Operating Specifications

Nominal supply (l/min)	50-125
Pressure range (bar)	13-45
Oil viscosity (cst) at 40 °C	32-46
Ambient temperature (°C)	10-65

Activation supply is generally 30% greater than the nominal supply



KL 10 2″

Operating Specifications

Nominal supply (l/min)	271-450
Pressure range (bar)	15-45
Oil viscosity (cst) at 40 °C	32-46
Ambient temperature (°C)	10-65

Activation supply is generally 30% greater than the nominal supply

Rapture Valve
KL10



Code Number
0019-1X-00011

Subpart
Piston

Comment
Dimensions:
3/4″ 1″ 1 1/4″ 1 1/2″ 2″

Rapture Valve
KL10 + HOLE



Code Number
0019-1X-00012

Subpart
Piston

Comment
Dimensions:
1″ 1 1/4″ 1 ½ 2″

Ram Head
Extractor



Code Number
0019-31-00000

Subpart
Piston

Comment
For new type jack head,
KZA KZL KZBC KZT1

Ram Head Inserter
M30 & M36

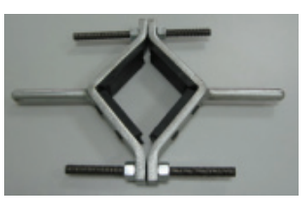


Code Number
0019-88-3X000

Subpart
Piston

Comment
For new type jack head,
KZA KZL KZBC KZT1

Ram
Clamp



Code Number
0019-89-00000

Subpart
Piston

Comment
For new type jack head,
KZA KZL KZBC KZT1

Ram Head
KZC



Code Number
3N14-X1-00100

Subpart
Piston

Comment
For Compact Elevators

Ram Air
Bleed Screw



Code Number
3N11-10-10200
6 99-04-00003

Subpart
Piston

Comment
For telescopic jacks
KZA KZL KZBC KZT1

Bearings Base
KZA



Code Number
3N11-X1-30700

Subpart
Piston

Comment
New type for
KZA KZL KZBC KZT1

Seal Base
KZA



Code Number
3N11-X1-30800

Subpart
Piston

Comment
For new type jack,
KZA KZL KZBC KZT1

Damping Rod
KZA



Code Number
3N11-X1-30901

Subpart
Piston

Comment
New type

Ram Head Bearing
(TAPE) KFB

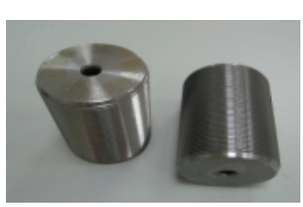


Code Number
3N11-XX-30600

Subpart
Piston

Comment
From piston with diameter
Ø40 to Ø210

Ram Division
Connection Screw KZA



Code Number
3N12-X1-31000

Subpart
Piston

Comment
For Split jack

Ram Head Klem
(For Tdi Seal)



Code Number
3N77-X1-30200

Subpart
Piston

Comment
For old type jacks-these are now modified for the new types of piston seals

Strangling Valve
1/2"



Code Number
6 12-14-02000

Subpart
Piston

Comment
For compact lifts

Ram Head Seal
S8



Code Number
6 20-00-XXX00

Subpart
Piston

Comment
Used until 1998.
From Ø40 to Ø210 (
Colour: black)

Ram Head Seal
T20



Code Number
6 20-01-XXX00

Subpart
Piston

Comment
It was used until 1994.
From Ø40 to Ø170
(Colour: Dark Blue)

Ram Head Seal
Balsele



Code Number
6 20-02-XXXXX

Subpart
Piston

Comment
It was used
after 1998 until 2005.
From Ø40 to Ø210
(can be replaced with TDI)

Ram Head Seal
TDI



Code Number
6 20-04-XXX00

Subpart
Piston

Comment
New type.
Available on pistons
Ø35 to Ø210

Ram Bottom Seal
T18



Code Number
6 20-07-XX000

Subpart
Piston

Comment
For older types of telescopic jacks

Ram Bottom Seal
TPM



Code Number
6 20-11-13000

Subpart
Piston

Comment
For current types of telescopic jacks

Ram Head Dirt Wiper
PU 5



Code Number
6 21-00-XXX00

Subpart
Piston

Comment
For pistons with diameter
Ø40 to Ø165

Ram Head Dirt Wiper
PU 6



Code Number
6 21-01-XXX00

Subpart
Piston

Comment
From Ø185 to Ø210

O-Ring
N70



Code Number
6 22-0X-XXXXX

Subpart
Piston

Comment
From Ø35 to Ø210

Ram Overflow
T-Junction



Code Number
6 29-01-00001

Subpart
Piston

Comment
For the ram head

Overflow Angle
1/4" M-F & Input



Code Number
6 90-00-00011

Subpart
Piston

Hexagonal Screw
M30 x 60 Galvanized



Code Number
6 70-22-03005

Subpart
Piston

Comment
Connects the pulley with the ram

Ram Glue Supertite
Z-Lock 4Ml



Code Number
6 91-10-00003

Subpart
Piston

Comment
For split jack

Piston Rubber Base
Ø50/120 x 6



Code Number
6 92-08-00000

Subpart
Piston

Comment
Use under the cylinder

Tube PVC
Ø11



Code Number
6 92-11-01100

Subpart
Piston

Comment
Combined with the ram overflow T - Junction

Plastic Transparent
4 Lt Oil Can



Code Number
6 92-26-00001

Subpart
Piston

Comment
Combined with the ram overflow T-Junction and the tube pvc Ø11

Air Bleed Screw
(For Old Type Rams)



Code Number
6 99-04-00001
6 99-05-00001
6 72-04-00005

Subpart
Piston

Comment
Old type

Rapture Valve
Interconnection Set



Code Number
0019-91-0XXXX

Subpart
Piston

Joint
G-11



Code Number
0019-91-0XXXX

Subpart
Piston

Cabins and **Doors**

KLEEMANN™
Your 1st Choice in Lifts

Modern Life

700 series


L710


L720

500 series


L510


L520


L530

300 series


L310


L320

100 series


L110

Classic Athena

700 series


A710


A720

500 series


A510


A520


A530

300 series


A310


A320

100 series


A110

Relay Modulefor
Minimax 79 Light Curtain



Code Number
6 39-30-00000

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Photocell-Curtain
LA16/112-2400A-RS (Duometric)



Code Number
6F99-24-00016

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Fluorecent Type Lamp
11W 600mm With Led



Code Number
6 44-00-32090

Subpart
Cabins

Comment
For the ceiling lighting

Memco Light
Curtain (618)



Code Number
6F99-24-00015

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Light Curtain Base Set
for Automatic Doors



Code Number
0660-55-00001
0660-55-00002

Subpart
Cabins

Comment
Use for the light curtain mounting (-00001 for telescopic doors & -00002 for central opening doors)

Power Supply
for Memco Light Curtain (618)

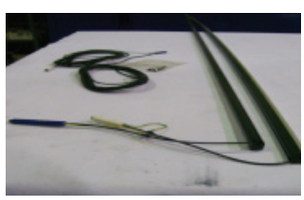


Code Number
6F99-24-00017

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Light Curtain Cedes
Cegard/Mini SY-2000-16



Code Number
6F99-24-00023

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Aeco
Photocell



Code Number
6 49-12-00401

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Light Curtain
Weco 917 L



Code Number
6F99-24-00026

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Power Supply PWS - 220
Vacfor Weco Light Curtain



Code Number
6F99-24-00027

Subpart
Cabins

Comment
Use to secure the embarkation & disembarkation of passengers

Mac Retiring
Cam 48V



Code Number
6 39-07-00407

Subpart
Cabins

Comment
For unlocking the semi-automatic door

Mac Retirirng
Cam 110V



Code Number
6 39-07-00404

Subpart
Cabins

Comment
For unlocking the semi-automatic door

Electronic
Transformer 12/150VA



Code Number
6 41-03-99002

Subpart
Cabins

Comment
For car ceiling ligths

Fan Ø150
Blower Sanyo 24/26W

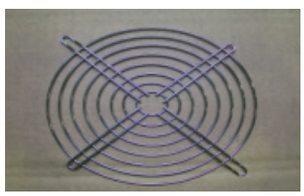


Code Number
6 43-04-00013

Subpart
Cabins

Comment
For cabin ventilation

Fan Mantle
(EBM-PAPST)



Code Number
6 43-04-00015

Subpart
Cabins

Comment
For cabin ventilation

Small Lamp
(LOUSE) Ø30 12V / 20W



Code Number
6 44-00-00101

Subpart
Cabins

Comment
For the ceiling lighting

Spot Lamp
Ø60 12V/35W with Glass



Code Number
6 44-00-00204

Subpart
Cabins

Comment
For the ceiling lighting

Led
For Spot 3X1



Code Number
6 44-00-01007

Subpart
Cabins

Comment
For car ceiling lighting

Fluorescent Light T5 14W
of Direct Ignition with Electronic Ballast (2Pcs Set)



Code Number
6 44-08-00021

Subpart
Cabins

Comment
For the ceiling lighting

Fluorescent Light 14W
of Direct Ignition T5



Code Number
6 44-00-30140

Subpart
Cabins

Comment
For car ceiling lighting

Chromium
Spot Ø30 Satin



Code Number
6 44-02-00100

Subpart
Cabins

Comment
For car ceiling lights

Chromium
Spot Ø60 Satin

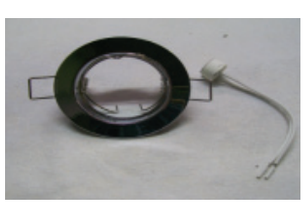


Code Number
6 44-02-00101

Subpart
Cabins

Comment
For car ceiling lights

Chromium
Spot Ø30 Mirror



Code Number
6 44-02-00102

Subpart
Cabins

Comment
For car ceiling lights

Chromium
Spot Ø60 Mirror



Code Number
6 44-02-00105

Subpart
Cabins

Comment
For car ceiling lights

Security Light
GR-312 (3Hours)

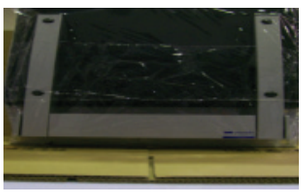


Code Number
6 12-25-90010

Subpart
Power Unit

Comment
For the relief pressure adjustment on the valve block

Cabin
Bench - Aestic

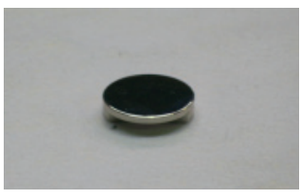


Code Number
6 12-25-90012

Subpart
Power Unit

Comment
Replace in case of internal leakage -this is inside the "down" spool tubes

Mirror Fixings
Ø30 Nickel Mirror

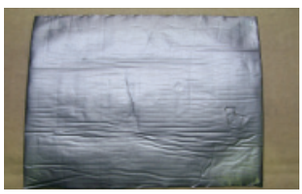


Code Number
6 12-25-90013

Subpart
Power Unit

Comment
Replace in case of internal leakage

Sound Insulate Matrial
(Eurochimika) Width: 10cm

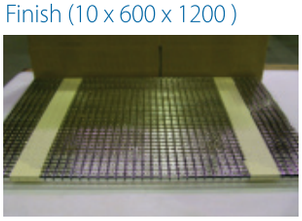


Code Number
6 12-25-90014

Subpart
Power Unit

Comment
Placed in the return valve

Square Light Frame in Nickel
Finish (10 x 600 x 1200)



Code Number
6 39-07-00051

Subpart
Cabins

Comment
For the cabin ceiling

Polycarbonate Blister Panel
6mm BL Opal 2100 x 6000

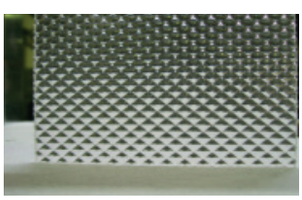


Code Number
6 30-01-00612

Subpart
Cabins

Comment
For the cabin ceiling

Plexiglas
(Crystaline) 3 x 1220 x 1850



Code Number
6 30-02-00302

Subpart
Cabins

Comment
For the cabin ceiling

Laminate Decor Panel
CPL 4346
200 x 25 x 3050mm



Code Number
6 34-06-02000

Subpart
Cabins

Comment
For cabin walls

Laminate Decor Panel
7581 with Curves
150 x 17 x 3050mm



Code Number
6 34-06-07582

Subpart
Cabins

Comment
For cabin walls

Modern Automatic Door



Automatic
Big Vision

In automatic doors the minimum door post width is the following:

- For Blue Line 100mm
- For the Display 100mm
- For the Push Button 80mm

For doors that are below the given limits, please contact our technical department, in order to inform you if the door can be manufactured.

Available from 600mm
up to 1200mm clear opening,
Clear Height up to 2300mm

Modern Semiautomatic Doors



M710
(Color 280)

Available from 700mm
up to 850mm clear opening,
Clear Height 2000mm



M510
(Color 7032)

Available from 600mm
up to 950mm clear opening,
Clear Height up to 2200.
And for Clear opening: 1000mm,
Clear Height up to 2000mm.



M310
(Color 5017)

Available from 600mm
up to 1350mm clear opening,
Clear Height up to 2500mm

Modern Folding Doors



FD720

Available from 600/650mm
up to 1350/1400mm clear openning,
Clear Height
from 1800mm up to 2200mm



FD520

Available from 750/800mm
up to 1350/1400mm clear openning,
Clear Height
from 1800mm up to 2200mm



FD320

Available from 500/550mm
up to 1350/1400mm clear openning,
Clear Height up to 2300mm

Classic Automatic Door



Automatic
Stainless Steel

In semiautomatic door the minimum post door wich:

- For Blue Line is 125mm

For doors that are below the given limits, please contact our technical department, in order to inform you if the door can be manufactured.

Available from 600mm
up to 1600mm clear opening,
Clear Height up to 2600mm

Classic Semiautomatic Doors



C710
(Wooden)

Available from 600mm
up to 950mm clear opening,
Clear Height from 2000 mm
up to 2200mm
and for Clear opening:1000mm,
Clear Height 2000mm



C520
(Color 7032)

Available from 600mm
up to 950mm clear opening,
Clear Height up to 2200mm
and for clear opening: 1000mm,
Clear Height up to 2000mm.



C310
(Skinplate DL92)

Available from 600mm
up to 1350mm,
Clear Height up to 2500mm

Classic Folding Doors



FD730

Available from 550/600mm
up to 1100/1150mm clear openning,
Clear Height up to 2300mm



FD530

Available from 550/600mm
up to 1350/1400mm clear openning,
Clear Height 2000mm



FD330

Available from 550/550mm
up to 1350/1400mm clear openning,
Clear Height 2300mm

Heavy Duty Door



Reinforced Mekanism

- Reinforced operator / sill
- 50/11 rail



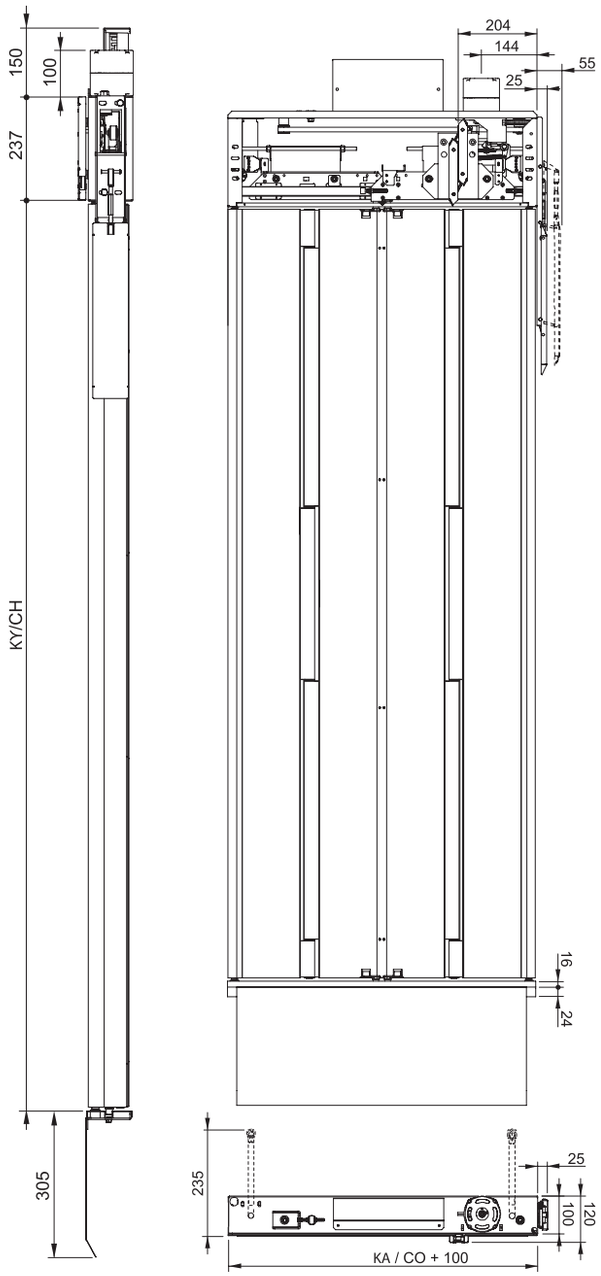
Rail

Anti-Vandal Door

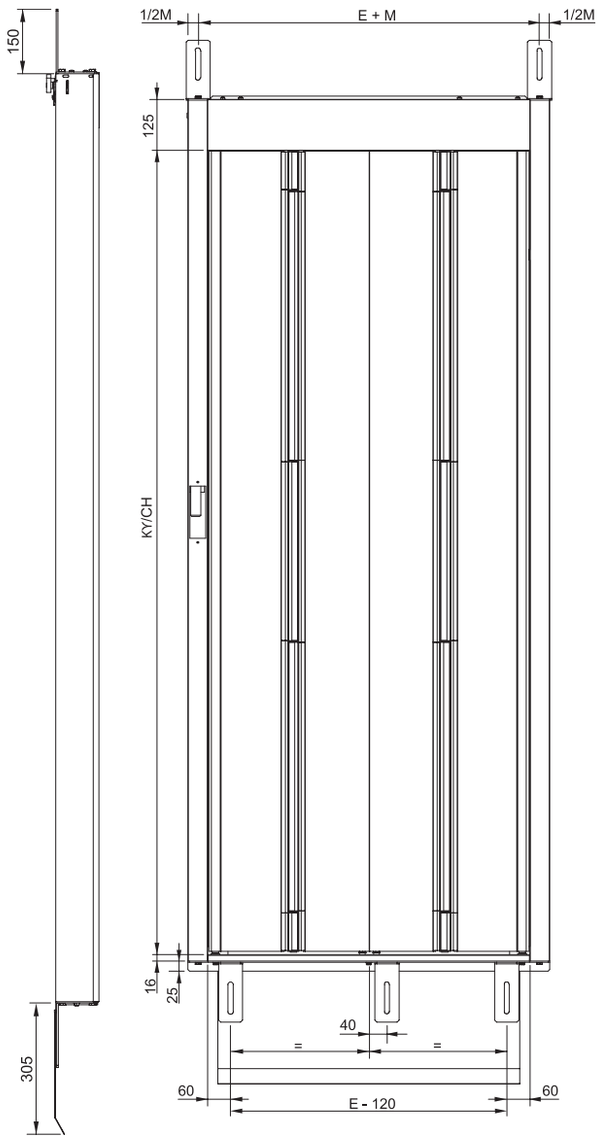


Compliance with EN81-71
Reinforced panels
Extra safety cam in the sill
Additional safety locking switch

Folding Car Door
LB Model



Folding Landing Door
LB Model

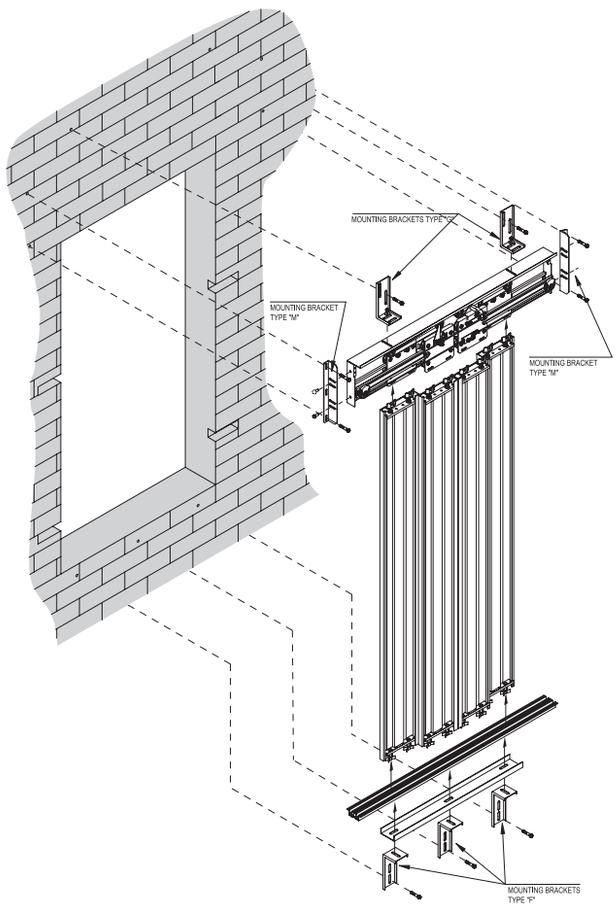


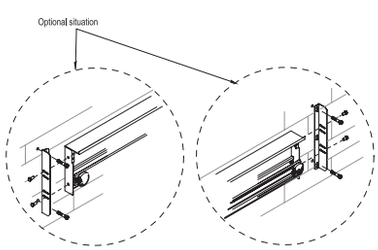
M	50	65	100
E (Entrance)= CO+100			

Central Opening

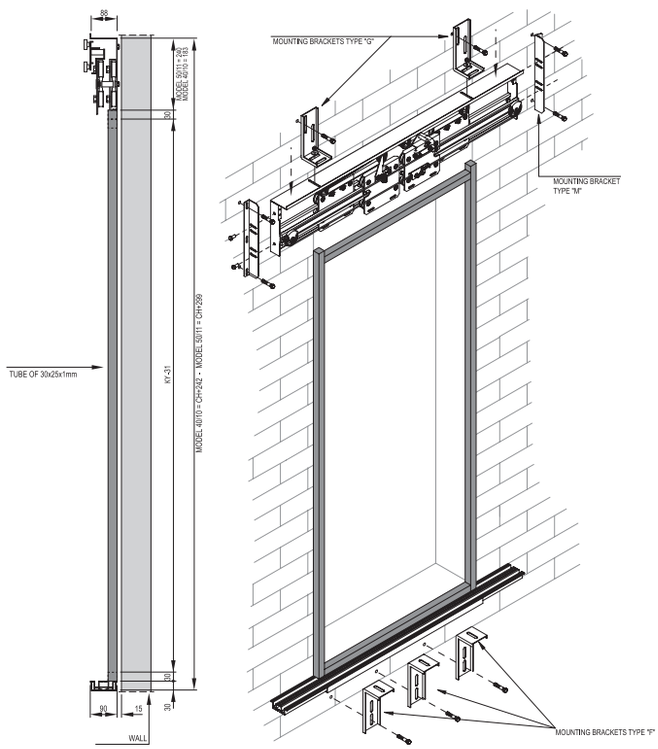
Landing door without frames,
for modernization

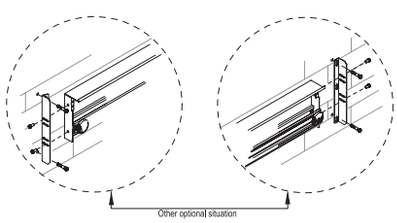
Assembly detail of central parting landing doors





Assembling tool of landing door without frames





Asymetric
Bus Door



Suitable in cases
of 2 doors in the cabin

Reversed Car Operator
BUSDoor



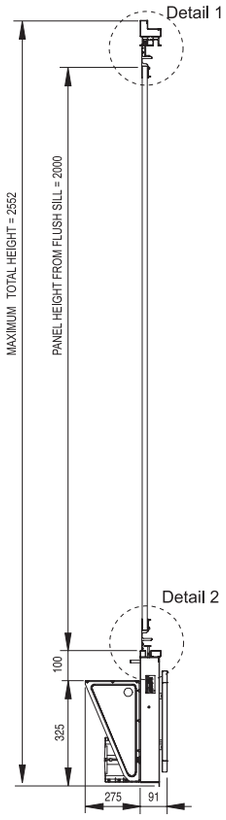


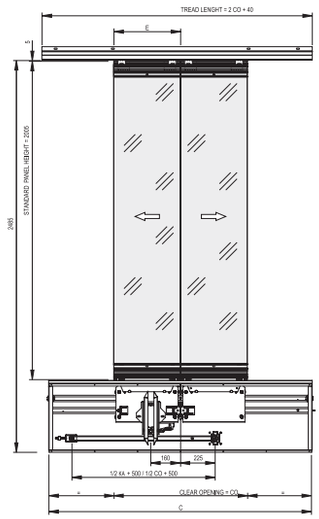
BUS

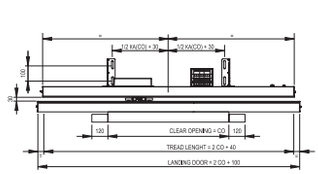


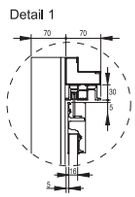
Automatic

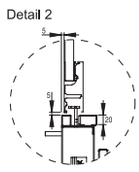
2 Panel centre
Parting car door with
Under driven operator





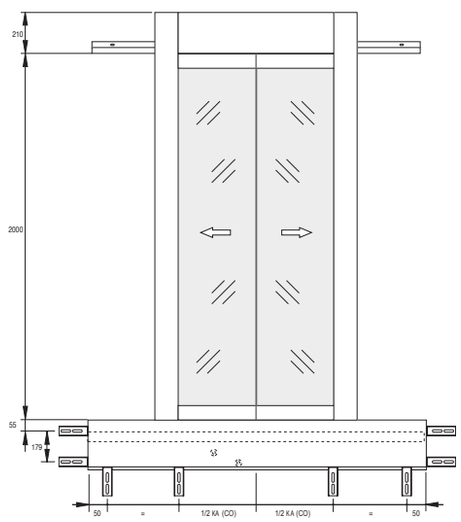


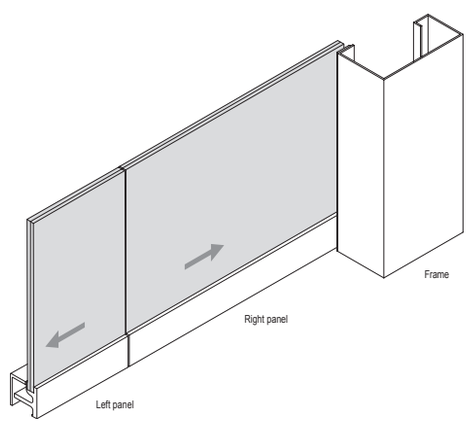




CO	600	650	700	750	800	850	900	1000	1100	1200
C	1250	1350	1450	1550	1650	1750	1850	1050	2250	2450
E	320	345	370	395	420	445	470	520	570	620
Weight Kg	88’13	95’46	102’81	110’16	117’50	124’84	132’19	146’88	161’56	176’25

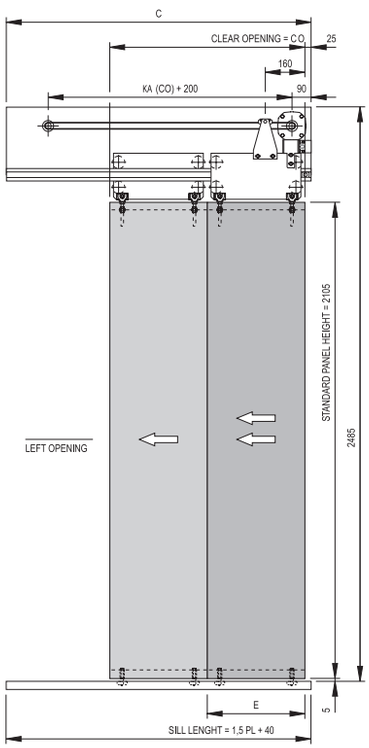
2 Panel centre
Parting landing door with
Under driven mechanism

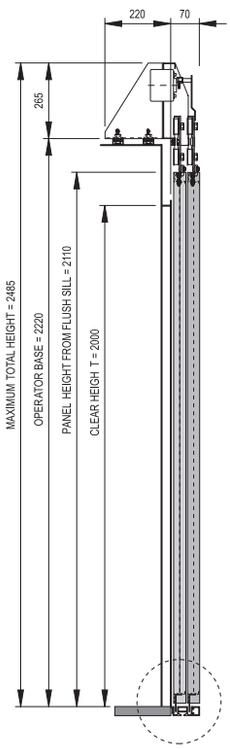


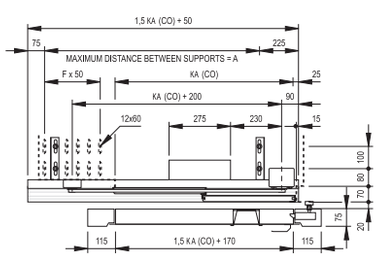


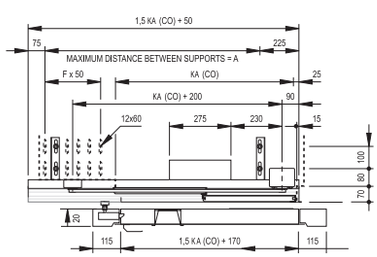
2 Panel side Opening Car Door

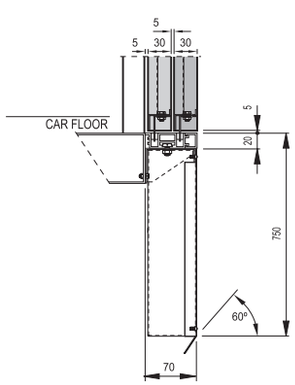
Landing door without frames, for modernization







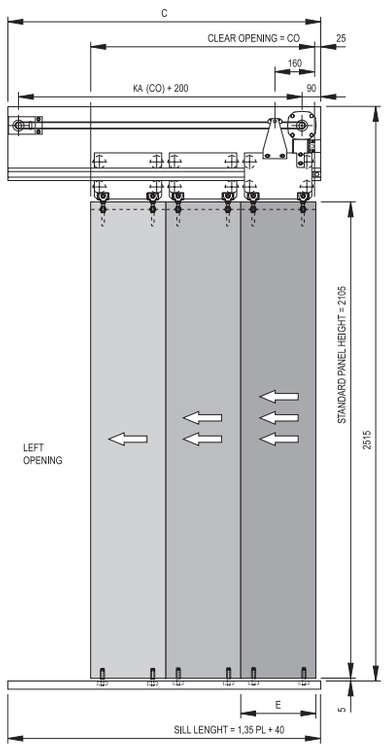


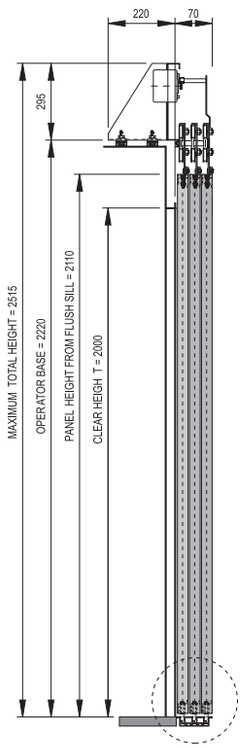


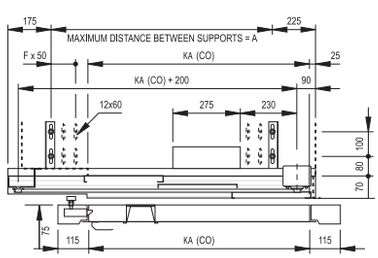
CO	600	650	700	750	800	850	900	1000	1100	1200	1300	1400	1500	1600
A	650	545	800	875	950	1025	1100	1250	1400	1550	1700	1850	2000	2150
C	950	945	1100	1175	1250	1325	1400	1550	1700	1850	2000	2150	2300	2450
E	320	235	370	395	420	445	470	520	570	620	670	720	770	820
F	4	4	5	5	6	6	6	7	8	8	8	8	9	9
Time (s)	1.56	1.62	1.68	1.74	1.8	1.85	1.91	2.01	2.11	2.2	2.3	2.4	2.5	2.6
Weight (Kg)	52.5	61.5	61.5	66	700	74.5	79	87.5	9.5	105	114	122.5	131.5	140

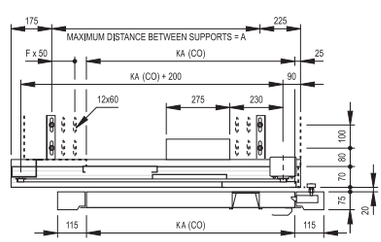
3 Panels Side Opening Car Door

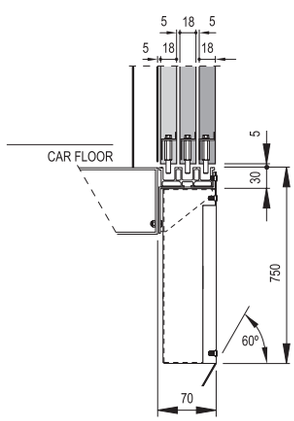
With hinged semi-automatic landing door and flush sill of 70mm



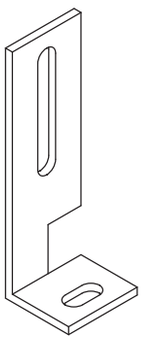








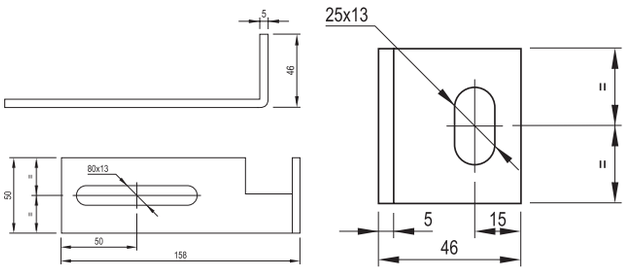
CO	600	650	700	750	800	850	900	1000	1100	1200	1300	1400
A	495	545	595	645	720	795	845	995	1145	1295	1395	1545
C	895	945	995	1045	1120	1195	1245	1395	1545	1695	1795	1945
E	220	235	253	270	285	305	320	353	385	420	453	485
F	4	4	4	4	4	4	4	4	4	5	5	6
Time (s)	1.56	1.62	1.68	1.74	1.8	1.85	1.91	2.01	2.11	2.2	2.3	2.4
Weight (Kg)	57	61.5	66	71	75.5	80..5	85	94.5	104	113.5	123	132.5

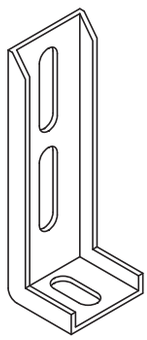


Mounting Bracket
Model "A"

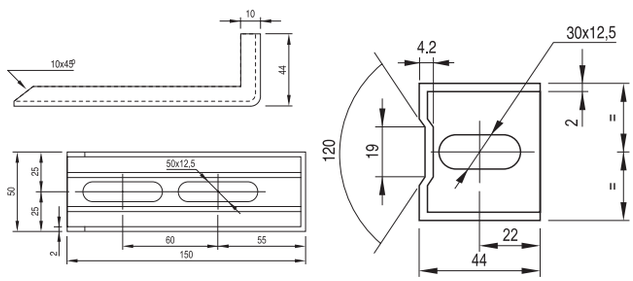
Special for automatic landing doors model DIN 18.091

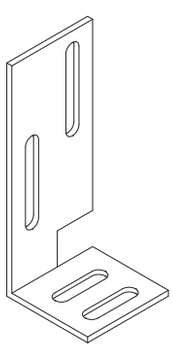
Door frame mounting brackets





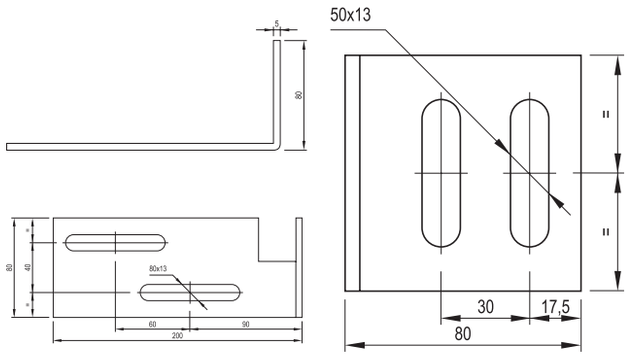
Mounting Bracket
Model "E"

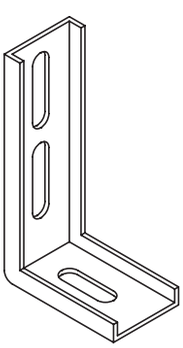




Mounting Bracket
Model "D"

Special for automatic landing doors model DIN 18.091

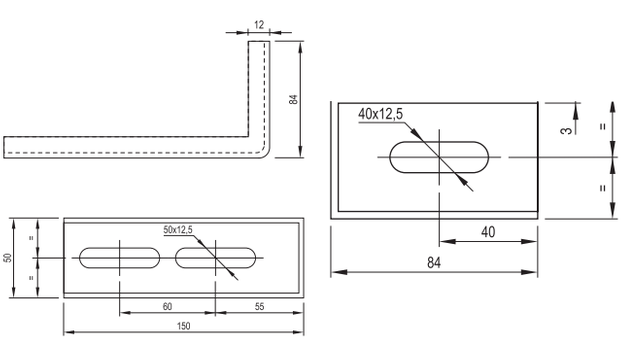




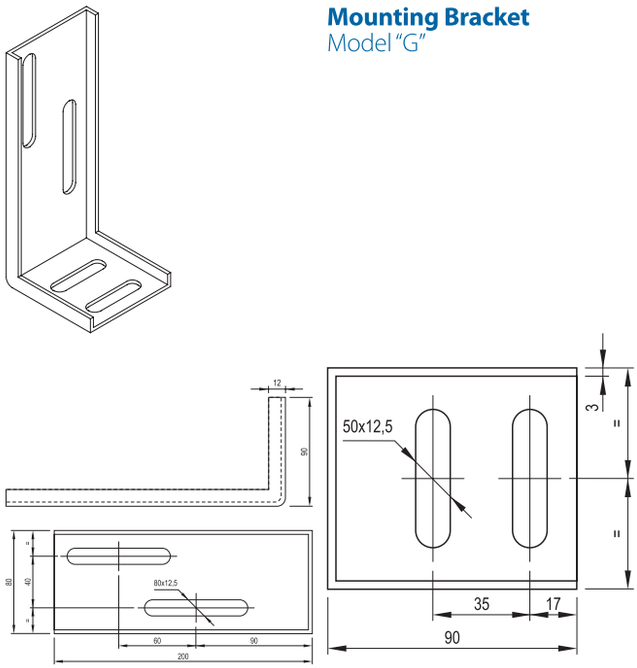
Mounting Bracket
Model "F"

For all type of automatic landing doors

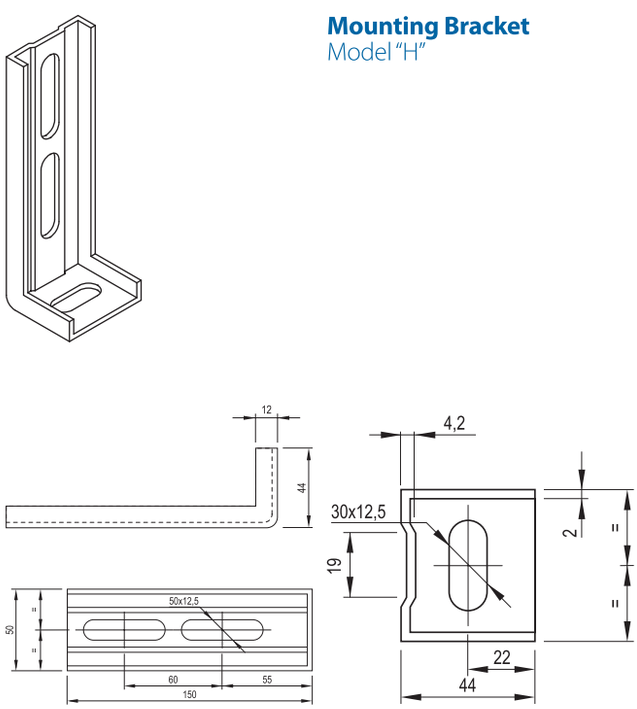
Door frame mounting brackets



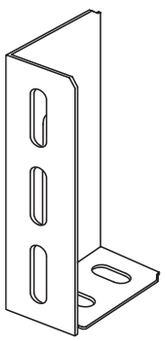
Mounting Bracket
Model "G"



Mounting Bracket
Model "H"



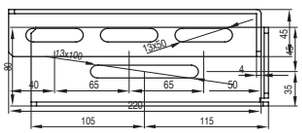
Door frame mounting brackets

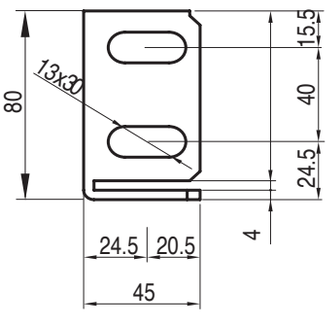


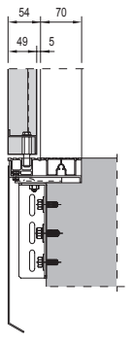
Mounting Bracket
Type "V8"

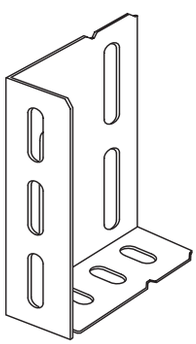
For all type of automatic landing doors

Situation mounting bracket type "v8" Width sill lower than 80 mm.



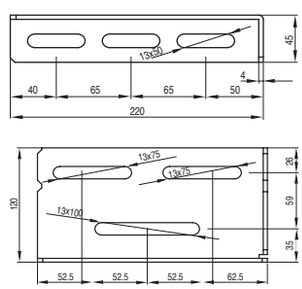


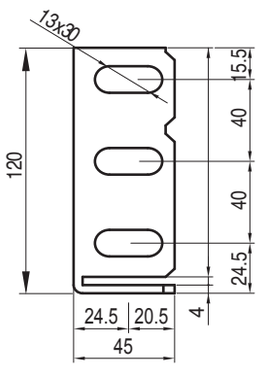


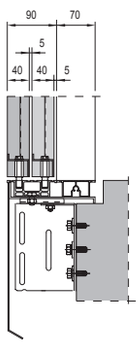


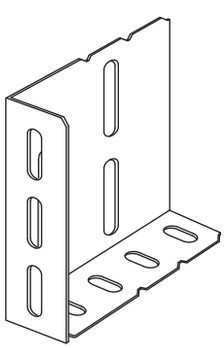
Mounting Bracket
Type "V2"

Situation mounting bracket type "v2" Width sill lower than 120 mm.



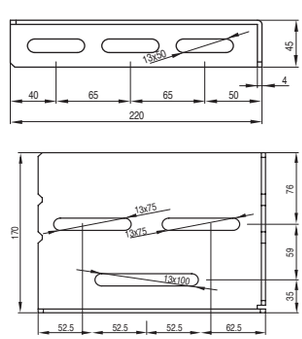


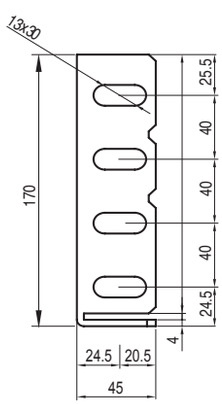


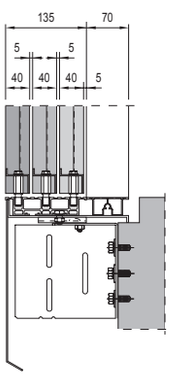


Mounting Bracket
Type "V7"

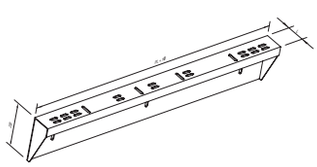
Situation mounting bracket type "v7" Width sill lower than 170 mm.







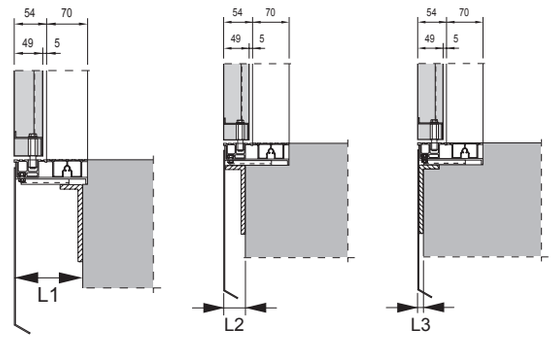
Landing Tread Supports
Of Fixations Console



L	50	80	130	190

2PCO & 1PSO

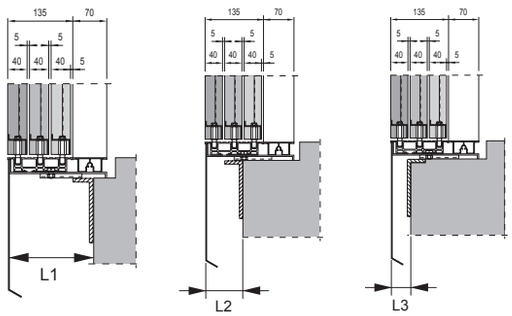
Recomended
use of different brackets



Projection to shaft

Bracket	L1	L2	L3
A	95	46	15
D	120	80	15
H	95	44	–
G	120	90	–
V8	130	80	–
V2	170	120	–
V7	220	170	–

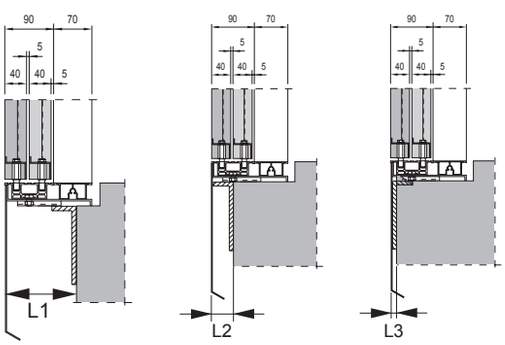
6PCO & 3PSO



Projection to shaft

Bracket	L1	L2	L3
A	95	64	55
G	140	115	–
V8	130	120	–
V2	170	120	–
V7	220	170	–

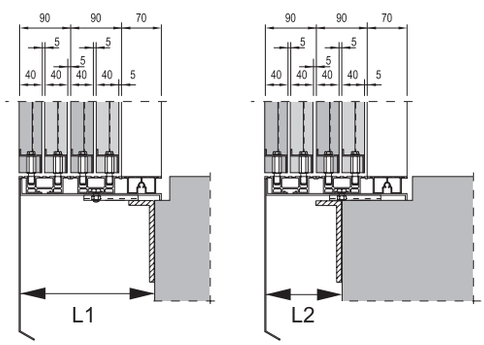
4PCO & 2PSO



Projection to shaft

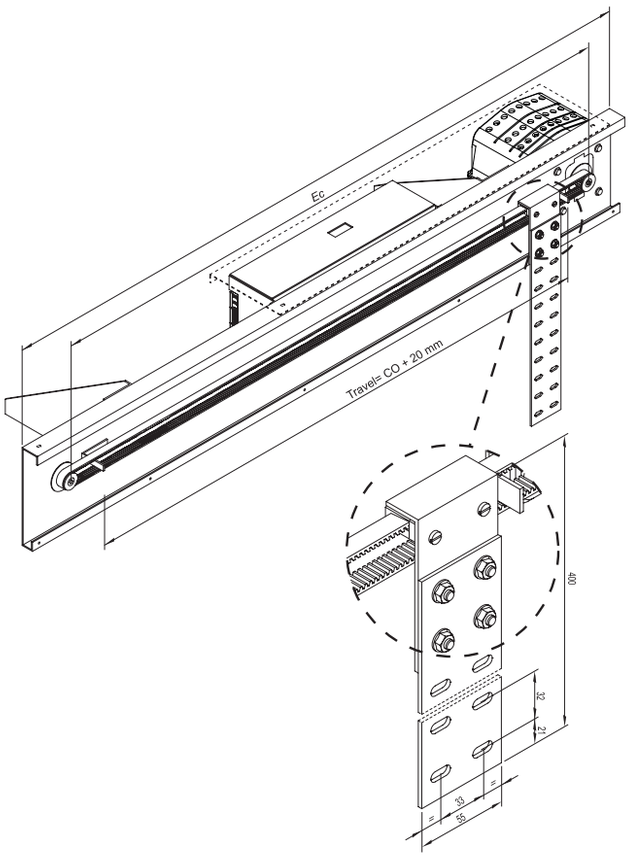
Bracket	L1	L2	L3
A	95	46	15
D	130	89	15
G	140	90	-
V8	130	80	-
V2	170	120	-
V7	220	170	-

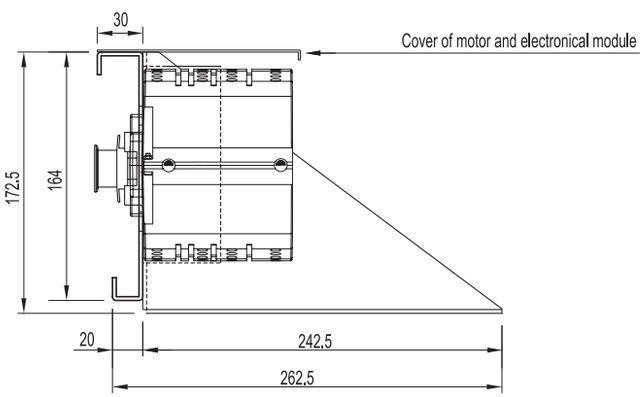
8PCO & 4PSO



Projection to shaft

Bracket	L1	L2
A	95	64
G	140	115
V8	130	120
V2	170	120
V7	220	170

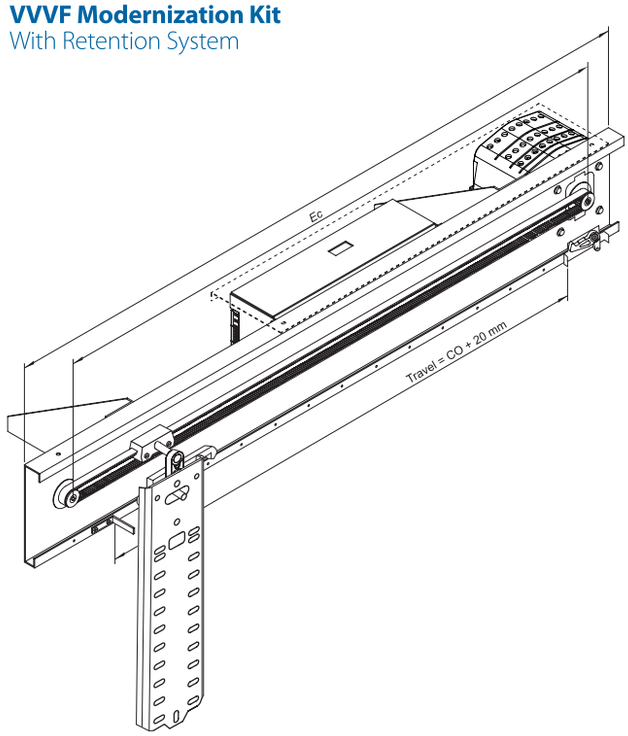


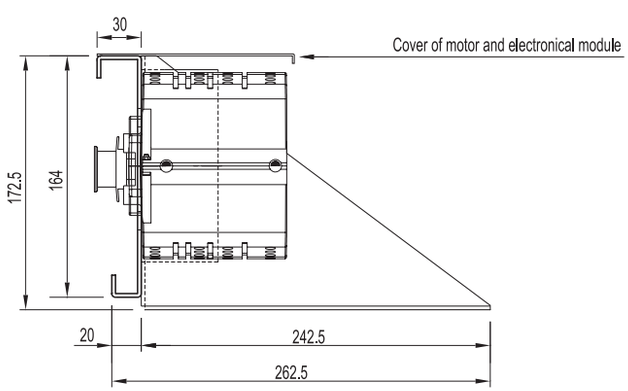


Reference K2 ∅	Travel	EC	Total
KVF-VF00.CT200.1400	1420	997	1100
KVF-VF00.CT200.1600	1620	1097	1200
KVF-VF00.CT200.1800	1820	1197	1300
KVF-VF00.CT200.2400	2420	1497	1600
KVF-VF00.CT200.3000	3020	1797	1900

Reference T2 ∅	Travel	EC	Total
KVF-VF00.CT200.0700	720	997	1100
KVF-VF00.CT200.0800	820	1097	1200
KVF-VF00.CT200.0900	920	1197	1300
KVF-VF00.CT200.1200	1220	1497	1600
KVF-VF00.CT200.1500	1520	1797	1900

VVVF Modernization Kit
With Retention System



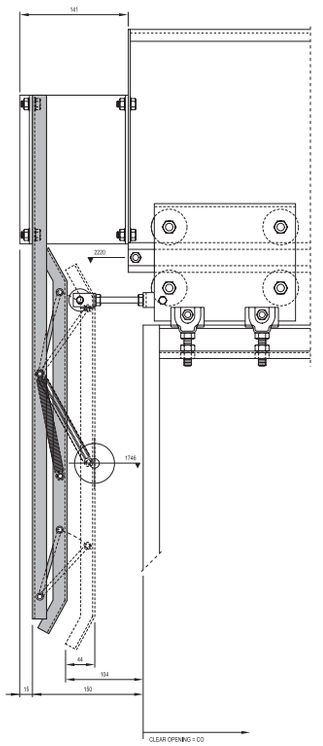


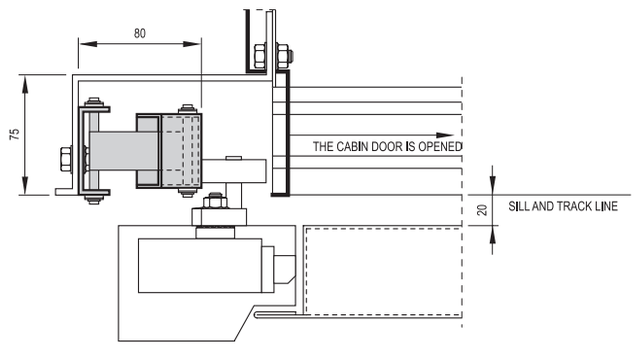
Reference K2 ∅	Travel	EC	Total
KVF-VFCR.CT200.1400	1420	997	1100
KVF-VFCR.CT200.1600	1620	1097	1200
KVF-VFCR.CT200.1800	1820	1197	1300
KVF-VFCR.CT200.2400	2420	1497	1600
KVF-VFCR.CT200..3000	3020	1797	1900

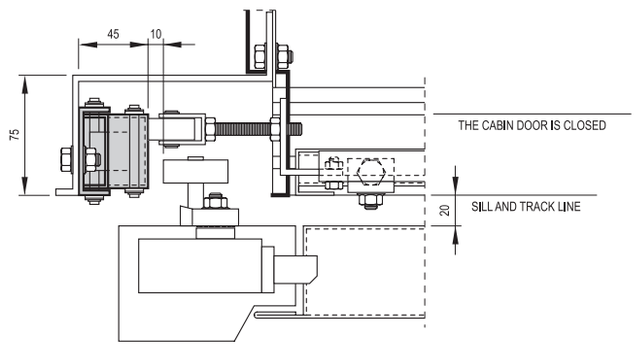
Reference T2 ∅	Travel	EC	Total
KVF-VFCR.CT200.0700	720	997	1100
KVF-VFCR.CT200.0800	820	1097	1200
KVF-VFCR.CT200.0900	920	1197	1300
KVF-VFCR.CT200.1200	1220	1497	1600
KVF-VFCR.CT200.1500	1520	1797	1900

Side Acting Retractable Cam

For all type of side Opening Car Door

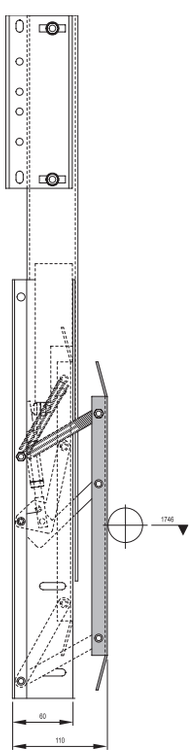


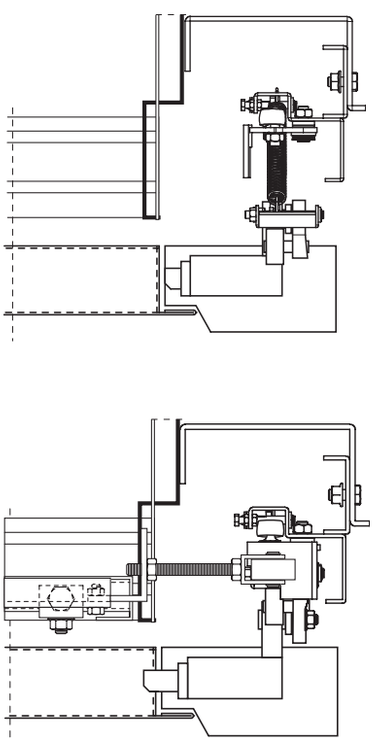


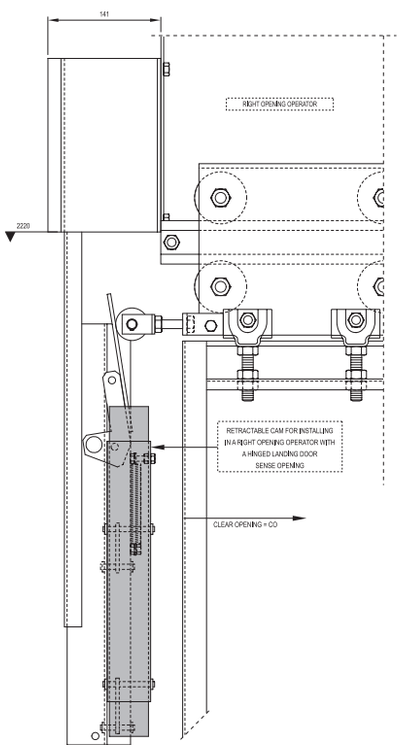


Frontal Acting Retractable Cam

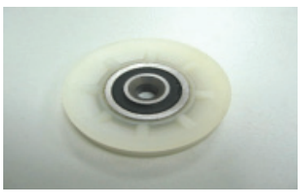
For all type of Side Opening Car Door







Wire Rope Pulley D=47mm
Internal ∅=6 (Telescopic)

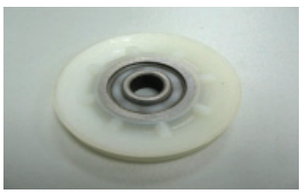


Code Number
4K10-70-07000

Subpart
Automatic Doors

Comment
For telescopic automatic doors

Wire Rope Pulley D=47mm
Internal ∅=8 (Central Open.)



Code Number
4K10-70-07001

Subpart
Automatic Doors

Comment
For central opening automatic doors

Eccentric Roller
∅=48mm (Length 33mm)

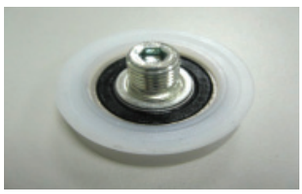


Code Number
4K10-70-10000

Subpart
Automatic Doors

Comment
Special edition l=33mm

Concentric Roller
∅=48mm



Code Number
4K10-70-20000

Subpart
Automatic Doors

Comment
For 40/10 rail

Eccentric Roller
∅=48mm



Code Number
4K10-70-22000

Subpart
Automatic Doors

Comment
L-28mm

Eccentric Roller
∅=30mm (Simple)



Code Number
4K10-70-23000

Subpart
Automatic Doors

Comment
For 40/10 rail

Eccentric Roller
∅=30mm (With Bearing)



Code Number
4K10-70-23000

Subpart
Automatic Doors

Comment
For 50/11 rail

Metal
Roller



Code Number
4K90-26-00001

Subpart
Automatic Doors

Metal
Roller



Code Number
4K90-27-00001

Subpart
Automatic Doors

Side-Acting Retracting Cam for Cooperation With Semitautomatic Doors



Code Number
4K10-81-00000

Subpart
Automatic Doors

Comment
Part for semi- automatic door that replaces the cam

Fixed Cam
for Semiautomatic Doors



Code Number
4K10-90-01000

Subpart
Automatic Doors

Comment
Mounted uppon the door panel- for central opening mechanisms

Rubber Stop
M6



Code Number
4K20-10-07000

Subpart
Automatic Doors

Comment
Mounted on the landing door lock

Lock
Series Switch



Code Number
4K20-20-04000

Subpart
Automatic Doors

Comment
60mm-for landing doors

Lock
Series Switch



Code Number
4K20-20-04002

Subpart
Automatic Doors

Comment
New contact 40mm
for landing doors

Locker
(Complete)



Code Number
4K20-20-XX0XX

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door

Door Release Rod
(For 40/10 Rail Doors)



Code Number
4K20-30-0100X

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door

Complete Door
Release System



Code Number
4K20-30-03000

Subpart
Automatic Doors

Comment
Depends on the direction the landing door opens

Door
Release Spring



Code Number
4K20-30-0400X

Subpart
Automatic Doors

Comment
Depends on the direction the landing door opens

Triangular
Emergency Key



Code Number
4K20-30-05000

Subpart
Automatic Doors

Comment
Emergency release key for automatic and semi-automatic doors

Cabin
Door Hanger

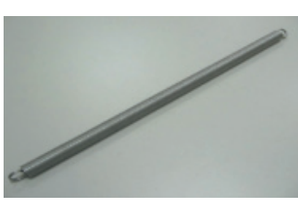


Code Number
4K20-51-0200X

Subpart
Automatic Doors

Comment
L=60mm for landing door panels & l=100mm for car door panels

Landing Door
Closing Spring

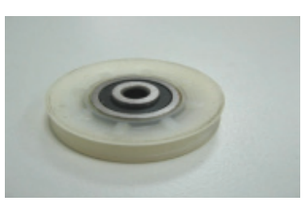


Code Number
4K20-70-0200X

Subpart
Automatic Doors

Comment
For L=374mm - 392mm - 424mm - 442mm - 474mm - 650mm depends on the direction the door opens

Door Spring
Closer Pulley D=42mm



Code Number
4K20-70-03003

Subpart
Automatic Doors

Comment
Klefer 20.70.03

Door Closing
Spring Fixing



Code Number
4K20-70-04000

Subpart
Automatic Doors

Comment
For landing door mechanisms

Landing
Lock Beak



Code Number
4K20-80-0100X

Subpart
Automatic Doors

Comment
Type depending on door specifications

Lock Pick
Up Roller



Code Number
4K20-80-03000

Subpart
Automatic Doors

Comment
For landing door lock

Lock Roller
Mounting Plate



Code Number
4K20-81-0200X

Subpart
Automatic Doors

Comment
Depends on the direction of the opening of the door

Lock Roller Mounting Plate (for 4Panel Max 915mm Clear Open)



Code Number
4K20-81-03000

Subpart
Automatic Doors

Comment
Only for 4 panel opening doors

Mounting Bracket
For Landing Doors "A"



Code Number
4K20-90-01000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.01)

Mounting Bracket
for Landing Doors "D"



Code Number
4K20-90-03000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.03)

Mounting Bracket
for Landing Doors "F"

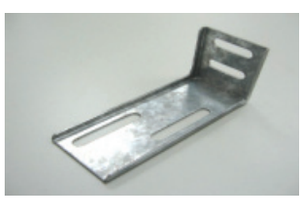


Code Number
4K20-90-05000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.05)

Mounting Bracket
for Landing Doors "G"



Code Number
4K20-90-06000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.06)

Mounting Bracket
for Landing Doors "K"



Code Number
4K20-90-07000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)

Mounting Bracket
for Landing Doors "H"



Code Number
4K20-90-07001

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.08)

Mounting Bracket
for Landing Doors "I"



Code Number
4K20-90-08000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.08)

Mounting Bracket
for Landing Doors "V2"



Code Number
4K20-90-09000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.08)

Mounting Bracket
for Landing Doors "V7"



Code Number
4K20-90-11000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame)
(Klefer 20.90.08)

Mounting Bracket
for Landing Doors "V8"



Code Number
4K20-90-10000

Subpart
Automatic Doors

Comment
For mounting of landing doors(mechanism-door posts-lower door frame) (Klefer 20.90.08)

VVVF Motor
125/40,220V



Code Number
4K90-11-01000

Subpart
Automatic Doors

Comment
Automatic door motor

Rubber Motor
Mounting



Code Number
4K90-11-03000

Subpart
Automatic Doors

Comment
For motor with metal bracket

Motor Slined
Sprocket

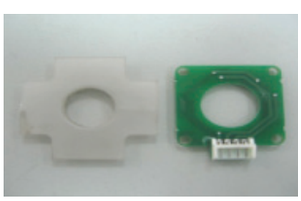


Code Number
4K90-11-04000 5/2011<
4K90-11-04001 >5/2011

Subpart
Automatic Doors

Comment
For the automatic door motor

Motor
Encoder



Code Number
4K90-11-06000

Subpart
Automatic Doors

Comment
For the automatic car door motor

Encoder
Wires



Code Number
4K90-11-07000

Subpart
Automatic Doors

Comment
For the automatic car door motor

Idler Return
Slined Sprocket

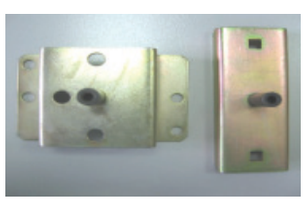


Code Number
4K90-12-00000

Subpart
Automatic Doors

Comment
For car door mechanisms

Base for Idler
Return Slined Sprocket



Code Number
4K90-13-00000

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door (directions of opening & clear opening)

Joint Of
HTD Belt



Code Number
4K90-14-00000

Subpart
Automatic Doors

Comment
For car door mechanisms

HTD-5M
Belt



Code Number
4K90-15-000XX

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door

Skate Set
M L=400



Code Number
4K90-16-0000X

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door (also available l=500 - 600 - 700)

Connecting Rod Skate
To Belt



Code Number
4K90-16-01000

Subpart
Automatic Doors

Comment
Indicate direction the panels open along with clear opening of the doors

Moving Skate
Trigger



Code Number
4K90-16-02000

Subpart
Automatic Doors

Comment
Part of the skate set

Pin Of Moving Skate
Trigger



Code Number
4K90-16-03000

Subpart
Automatic Doors

Comment
Part of the skate set

Moving Skate
Trigger Spring



Code Number
4K90-16-04000

Subpart
Automatic Doors

Comment
Part of the skate set

Spacer
for Lever



Code Number
4K90-16-05000

Subpart
Automatic Doors

Comment
Klefer 90.16.05

Skate
Connector



Code Number
4K90-16-06000

Subpart
Automatic Doors

Comment
Part of the skate set

Skate
Arms

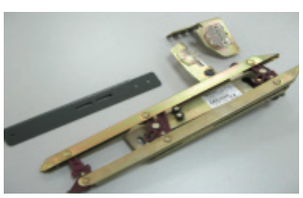


Code Number
4K90-16-0700X

Subpart
Automatic Doors

Comment
Part of the skate set

Car Door
Locker



Code Number
4K90-16-X000X

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door (comes as set with the door contact)

Fixed Skate
Trigger Base



Code Number
4K90-17-0100X

Subpart
Automatic Doors

Comment
Depends on the technical characteristics of the door

Fixed Skate
Trigger



Code Number
4K90-17-02000

Subpart
Automatic Doors

Comment
Part of the car door mechanism

Pin For Skate
And Steady Skatearm



Code Number
4K90-17-03000

Subpart
Automatic Doors

Comment
Part of the car door mechanism

Fixed Skate
Trigger Spring

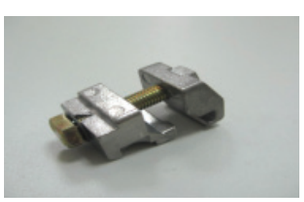


Code Number
4K90-17-04000

Subpart
Automatic Doors

Comment
Part of the car door mechanism

Wire Rope
Aluminium Joint

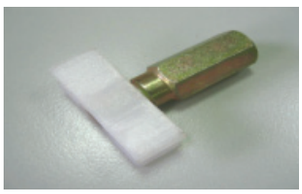


Code Number
4K90-18-00000

Subpart
Automatic Doors

Comment
For car & landing door mechanisms

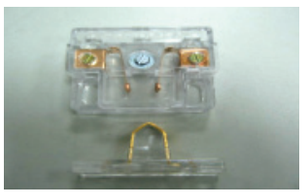
Complete Bottom
Guide Shoe



Code Number
4K90-19-00000

Subpart
Automatic Doors

Car Door
Contact

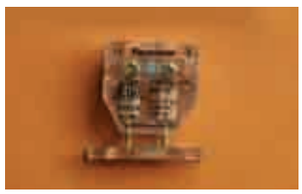


Code Number
4K90-22-00000

Subpart
Automatic Doors

Comment
For car door mechanisms 50mm

Car Door Contact
(New)



Code Number
4K90-2200001

Subpart
Automatic Doors

Comment
For car door mechanisms – 40mm

Synchronization
Metal Cord

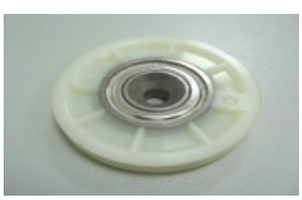


Code Number
4K90-23-000XX

Subpart
Automatic Doors

Comment
Indicated type of door (car/landing) direction the panels open and clear opening

Wire Rope
Pulley D=64mm



Code Number
4K90-24-00000

Subpart
Automatic Doors

Comment
For central opening automatic doors

Metal Base Plate
For Rope



Code Number
4K90-25-00000

Subpart
Automatic Doors

Comment
Klefer 90.25.00

Concentric Roller
∅=54mm



Code Number
4K90-26-00000

Subpart
Automatic Doors

Comment
For 50/11 Rail

Eccentric Roller
∅=54mm

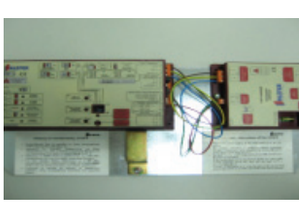


Code Number
4K90-27-00000

Subpart
Automatic Doors

Comment
For 50/11 Rail

Vvvf4 Replacement Set
(Without Battery)

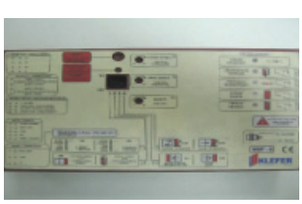


Code Number
4K90-30-0000X

Subpart
Automatic Doors

Comment
Replaces the vvvf3. Indicate whether it is for left-central or right hand opening car doors

VVVF
Unit



Code Number
4K90-30-1000X

Subpart
Automatic Doors

Comment
Indicate whether it is for left-central or right hand opening car doors

VVVF Battery
Back-Up Board



Code Number
4K90-16-0000X

Subpart
Automatic Doors

Comment
Co-operation with the VVVF module

VVVF Module
Connector (3 Connections)



Code Number
4K90-30-12000

Subpart
Automatic Doors

Comment
Indicate number of plug connections of the VVVF

VVVF Module
Connector (5 Connections)



Code Number
4K90-30-12001

Subpart
Automatic Doors

Battery (Panasonic)
For VVVF



Code Number
4K90-30-13000

Subpart
Automatic Doors

Comment
For the vvvf battery back up circuit board

Complete Photocell
(Emiting & Receiving)



Code Number
6D90-32-00000

Subpart
Automatic Doors

Comment
In cases of doors witout light curtains

Rubber Stop
(20X30mm)

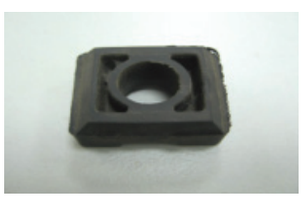


Code Number
4K90-33-00000

Subpart
Automatic Doors

Comment
Klefer 90.33.00

Rubber Stop
(25X30mm)



Code Number
4K90-33-01000

Subpart
Automatic Doors

Comment
Klefer 90.33.01

Programming
Console



Code Number
4K90-34-00000

Subpart
Automatic Doors

Comment
For the VVVF programming

Rubber Stop
of Terminal Opening



Code Number
4K90-35-00000

Subpart
Automatic Doors

Comment
Klefer 90.35.00

Landing Lock Beak
(for 50/11)



Code Number
4K91-03-0100X

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door

Electrical Contact
(for 50/11)



Code Number
4K91-03-02000

Subpart
Automatic Doors

Comment
50/11

Support Main Part Lock
(for 50/11)



Code Number
4K91-03-0300X

Subpart
Automatic Doors

Comment
For 50/11 rail mechanisms-depends on the clear opening and the direction the panels open

Safety for Landing Lock
Mechanism 50/11 Rail

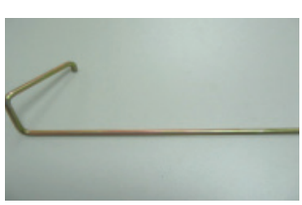


Code Number
4K91-03-04000

Subpart
Automatic Doors

Comment
For landing door mechanisms -depends on door specifications

Door Release Rod
(for 50/11)



Code Number
4K91-03-0700X

Subpart
Automatic Doors

Comment
Depends on the technical specifications of the door

Hangers Projection
100mm



Code Number
4K99-01-69000

Subpart
Automatic Doors

Comment
For big vision car door panels and cases that require extension of the door panel

Hangers Projection
150mm



Code Number
4K99-01-91000

Subpart
Automatic Doors

Comment
For big vision car door panels and cases that require extension of the door panel

Set of Plates
for Co-Operation with Semi-Automatic Doors



Code Number
4K90-16-080XX

Subpart
Automatic Doors

Comment
Set of hangers for the mechanism co-operation with the landing doors (Klefer 90.16.08)

Aluminium Air
Cord Clamp



Code Number
4K90-18-00000

Subpart
Automatic Doors

Comment
For car & landing door mechanisms (Klefer 90.18.00)

Complete Bottom
Guide Shoe

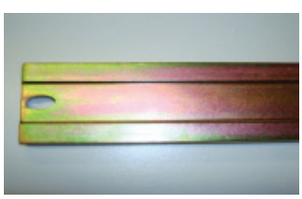


Code Number
4K90-19-00000

Subpart
Automatic Doors

Comment
For sill of 3-p landing & car door for 15mm channel al 90 (Klefer)

Top Track
50\11



Code Number
4K90-20-00000

Subpart
Automatic Doors

Comment
Indicate type of doors and clear opening of doors (Klefer 90.20.00)

Sill Between Frames,
Width = 70mm



Code Number
4K10-80-080XX

Subpart
Automatic Doors

Comment
Indicate type and clear opening of doors (Klefer 10.80.08)

Door Motor
VVVF IP 54



Code Number
4K90-11-03000

Subpart
Automatic Doors

Comment
Motort for ip 54 car door (Klefer)

Mounting Bracket For The Idler
Return Splined Sprocket



Code Number
4K90-13-00000

Subpart
Automatic Doors

Comment
Indicate type of doors and clear opening of doors (Klefer 90.13.00)

Dle Return
Slpined Sprocket

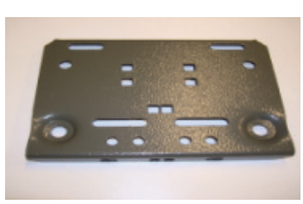


Code Number
4K90-12-00000

Subpart
Automatic Doors

Comment
For car door mechanisms (Klefer 90.12.00)

Carriage
Hunger



Code Number
4K91-01-00000

Subpart
Automatic Doors

Comment
For mechanisms 40\10- indicate type of doors and opening of the doors

Support
Main Part Lock

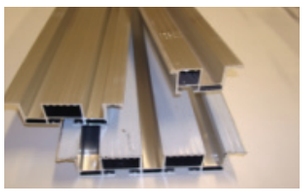


Code Number
4K20-20-020XX

Subpart
Automatic Doors

Comment
Indicate type of doors and clear opening of doors - for 40/10 opening doors

Sill Track
Aluminium

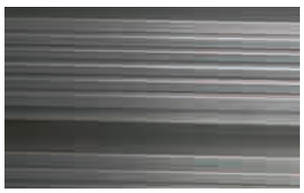


Code Number
4K10-80-0100X

Subpart
Automatic Doors

Comment
Indicate type of doors and clear opening of doors.
(Klefer 10.80.01)
Reinforced sills also available

Iron
Sills

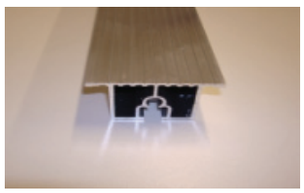


Code Number
4K10-80-01xxx

Subpart
Automatic Doors

Comment
Indicate type of doors and clear opening of doors.
-Massif iron sills also available

Sill Between Frames,
Width = 60mm

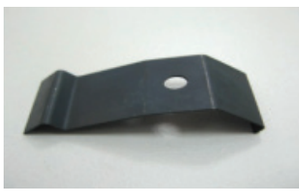


Code Number
4K10-80-0300X

Subpart
Automatic Doors

Comment
Indicate type and clear opening of doors.
(Klefer 10.80.03)

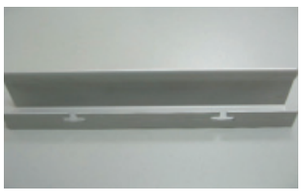
Vision Panel Glass
Fixing Clip



Code Number
4K80-14-03000

Subpart
Semiautomatic Doors

Aluminium Grip
(For Classic)



Code Number
4K80-15-01000

Subpart
Semiautomatic Doors

Comment
For model classic

Nikeled Door Grip
(Lux) [Satin-231]



Code Number
4K80-15-01001

Subpart
Semiautomatic Doors

Nikeled Door Grip
(Lux) [Satin-346]

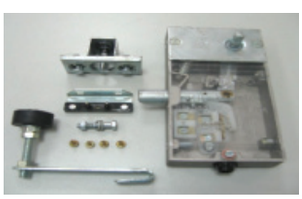


Code Number
4K90-18-00000

Subpart
Semiautomatic Doors

Comment
For car & landing door mechanisms
(Klefer 90.18.00)

Aljo Lock
(for Left Door)



Code Number
4K80-16-01000

Subpart
Semiautomatic Doors

Aljo Lock
(for Right Door)



Code Number
4K80-16-01001

Subpart
Semiautomatic Doors

Comment
Indicate type of doors and clear opening of doors
(Klefer 90.20.00)

Opposite Of Lock Aljo
(Female)

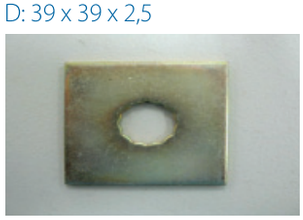


Code Number
4K80-16-02000

Subpart
Semiautomatic Doors

Comment
Indicate type of doors and clear opening of doors
(Klefer 10.50.13)

Metal Plate
With "Star" Cut-Out
D: 39 x 39 x 2,5



Code Number
4K99-01-55000

Subpart
Semiautomatic Doors

Comment
Motort for ip 54 car door
(Klefer)

Semi Automatic Door
Grip D: 180 x 150 x 50mm



Code Number
4K99-02-78000

Subpart
Semiautomatic Doors

Comment
Nickel or black

Locker For Semi
Automatic Door (Complete)



Code Number
4K99-03-10002

Subpart
Semiautomatic Doors

Comment
Mounted on the semiutomatic doors frame.

Door
Contact



Code Number
4K99-03-10010

Subpart
Semiautomatic Doors

Comment
On each semi-automatic door you mount a pair of these.

Lock Type
TA



Code Number
4K99-03-10011

Subpart
Semiautomatic Doors

Comment
Mounted on the semiutomatic doors frame.

Lock Type
TD



Code Number
4K99-03-10012

Subpart
Semiautomatic Doors

Comment
Mounted on the semiutomatic doors frame.

Door
Contact



Code Number
4K99-03-10014

Subpart
Semiautomatic Doors

Comment
On each semi-automatic door you mount a pair of these.

Double Lock
Joint Assembly



Code Number
4K99-03-10017

Subpart
Semiautomatic Doors

Comment
For 2-panel semiautomatic doors with 1 or 2 locks

Semiautomatic Doors
Spring DM14X2X260



Code Number
4K99-03-10018

Subpart
Semiautomatic Doors

Comment
For the return of panel

Lock Type
T-F ATV 612



Code Number
4K99-03-10020

Subpart
Semiautomatic Doors

Comment
Mounted on the semiutomatic doors frame.

Door-Closer for Semiautomatic Doors



Code Number
4K99-03-10025

Subpart
Semiautomatic Doors

Comment
For an even door closing Klefer (Cod:3111640)

Automatic Mechanism for Semiautomatic Doors
Closing



Code Number
4K80-17-00004

Subpart
Semiautomatic Doors

Incorporation System Between Contact & Semiautomatic Door



Code Number
4K99-03-10244

Subpart
Semiautomatic Doors

Spring Return
for Semiautomatic Door



Code Number
4K80-16-07002

Subpart
Semiautomatic Doors

Security Locker
for Semiautomatic Door



Code Number
4K99-03-10084

Subpart
Semiautomatic Doors

System of Incorprated Contact
on Semiautomatic Door



Code Number
4K99-03-10244

Subpart
Semiautomatic Doors

Pulley Belt
(6 x 735mm)



Code Number
4κ50-20-11000

Lift Part
Bus

Comment
Motor belt for bus door with many belts (klefer 50.20.11)

Elastic Belt
(L = 650mm)



Code Number
4K50-20-01000

Lift Part
Bus

Comment
Motor belt for bus door with many belts (klefer 50.20.01)

Toothbelt
(450 HTD 5M)



Code Number
4K50-20-03000

Lift Part
Bus & Leo

Comment
Motor belt for bus door with many belts-for leo type models as well

Bus Motor
D=90mm



Code Number
4K50-10-01000

Lift Part
Bus

Comment
For bus doors with many belts (klefer 50.10.01)

Motor Reduction Pulley
24V – G3 (63908)



Code Number
4K53-10-00000

Lift Part
G3

Comment
Use G3 doors – for the driving of the panels arms

Motor Reduction Pulley
24V – LEO (61779)



Code Number
4K99-03-10050

Lift Part
Leo

Comment
Use on leo doors -for the driving of the panels arms

Rubber Motor
Mounting



Code Number
4K50-10-02000

Lift Part
Bus

Comment
For bus doors with many belts (Klefer 50.10.02)

Motor Pulley
D=35mm



Code Number
4K50-10-13000

Lift Part
Bus

Comment
For bus doors with many belts (Klefer 50.10.13)

Motor Pulley
D=43mm



Code Number
4K50-10-13001

Lift Part
Bus

Comment
Motor belt for bus door with many belts
(Klefer 50.20.11)

Small Pulley
for Toothed Belt Leo (62094)



Code Number
4K99-03-10053

Lift Part
Leo

Comment
For Leo doors

Reduction Toothed Belt
(450HTD 5M)



Code Number
4K50-20-04000

Lift Part
Bus

Comment
For bus doors with many belts (Klefer 50.20.04)

Reduction Pulley's
Main Wheel



Code Number
4K50-20-05000

Lift Part
Bus

Comment
For bus doors with many belts (Klefer 50.20.05)

Belt Guide
(For Main Pulley)



Code Number
4K50-20-08000

Lift Part
Bus

Comment
For bus doors with many belts
(Klefer 50.20.08)

Primary Drive
Arm



Code Number
4K50-20-06000

Lift Part
Bus & Leo

Comment
Indicate type of door opening
(Bus or Leo)
(Klefer 50.20.06)

Central Foldable Arm Set
(Galvanised Gold) G3
(62154)



Code Number
4K99-03-10105

Lift Part
G3

Comment
For G3 door
(Klefer ID 63993)

Primary Drive Arm
For G3 Doors



Code Number
4K53-50-00000

Lift Part
G3

Comment
Klefer ID 63993

Primary Drive Arm for G3 Doors in Monternizations Cases with Short Mechanism



Code Number
4K53-50-00001

Lift Part
G3

Comment
Klefer ID 70860

Drive
Shaft



Code Number
4K50-20-07000

Lift Part
Bus

Comment
For bus doors with many belts
(klefer 50.20.07)

Clutch's Sring
L=40mm for G3 (63909)



Code Number
4K53-40-04000

Lift Part
G3

Comment
For G3 doors
(Klefer ID 63909)

Arm Washer
Insert (Middle)



Code Number
4K50-20-09000

Lift Part
Bus

Comment
In co-operation with the
clutche's spring

Plastic Grommet
Of Clutche's Spring



Code Number
4K53-40-05000

Lift Part
G3

Comment
For G3 doors
(Klefer ID 52695)

Drive Arm's
Plastic Bearing



Code Number
4K50-30-02000

Lift Part
Bus & Leo & G3

Comment
ForG3 Doors
(Klefer 50.30.02)

Lay-Drive
Arm



Code Number
4K50-30-0100X

Lift Part
Bus & Leo & G3

Comment
Indicate door type
(Bus -Leo-G3)

Limit
Switch Cam



Code Number
4K50-30-10000

Lift Part
Bus

Comment
For bus doors with many belts
(Klefer 50.30.10)

Limit Switch Cam
For G3



Code Number
4K53-50-03000

Lift Part
G3

Comment
For G3 doors
(Klefer ID 64010)

Capacitor
(6MF 450V)



Code Number
4K50-40-01000

Lift Part
Bus

Comment
For bus doors with many belts
(Klefer 50.40.01)

Wiring Set
For Bus-Leo-G3 (57243)



Code Number
4K99-03-10064

Lift Part
Bus & Leo

Comment
Please indicate door type:
Bus, Leo, G3
(Klefer 70.10.02)

Safety Edge Switch
Cable (Breatch)



Code Number
4K50-40-03000

Lift Part
Bus & Leo

Comment
Please indicate door type: Bus,
Leo, G3 along with clear opening
(Klefer 50.40.03)

Complete Drive Arm
Asembly (Long Cable)



Code Number
4K50-50-000XX

Lift Part
Bus & Leo

Comment
Please indicate door type: Bus,
Leo, G3 along with clear opening
(Klefer 50.50.00)

Complete Drive Arm
Asembly (Short Cable)



Code Number
4K50-50-000XX

Lift Part
Bus & Leo

Comment
Please indicate door type: Bus
orLeo along with clear opening
(Klefer 50.50.00)

Drive Arm
Cover



Code Number
4K50-50-01000

Lift Part
Bus & Leo

Comment
For Bus & Leo doors
(Klefer 50.50.01)

Complete Drive Arm
Set of Door Drive φor G3



Code Number
4K53-60-0000X

Lift Part
G3

Comment
Indicate clear opening

Drive Arm Set Of
Edges (G3 Doors)



Code Number
4K53-60-02000

Lift Part
Bus & Leo & G3

Comment
For Bus, Leo & G3 doors
(Klefer 50.50.03)

Drive Arm Bolt
For G3-Bus-Leo (52688)



Code Number
4K53-60-01000

Lift Part
Bus & Leo & G3

Comment
For Bus, Leo & G3 doors
(Klefer ID 52688)

Drive Belt Limit
Switch (Bleatch)



Code Number
4K50-50-02000

Lift Part
Bus & Leo

Comment
For Bus, Leo & G3 doors
(Klefer 50.50.02)

3 Contacts Micro Limit Switch with Wheel for Bus Leo (61884)



Code Number
4K99-03-10054

Lift Part
Bus & Leo

Comment
For Bus, Leo & G3 doors
(Klefer 30.10.04)

On/Off Limit Switch
with Wheel for G3 (61884)



Code Number
4K53-40-08000

Lift Part
G3

Comment
For Bus & G3 doors
(Klefer 30.10.04)

Barrier Micro
Switch



Code Number
4K53-40-07000

Lift Part
G3

Comment
For Bus & G3 doors
(Klefer ID 63916)

Nylon Hinge
(for Landing Door Panels)



Code Number
4K50-60-05000

Lift Part
Bus Doors

Comment
For old type Bus doors with folding panles
(Klefer 50.60.05)

Nylon Hinge
(for Flat Panels)



Code Number
4K50-90-05000

Lift Part
Bus Flat

Comment
For old type Bus doors with flat panels
(Klefer 50.60.05)

Door Panel
Guide



Code Number
4K50-60-11000

Lift Part
Bus & Leo & G3

Comment
For Bus, Leo, G3 Type doors
(Klefer 50.50.25)

Central Rubber Stop
for Bus Door Sill

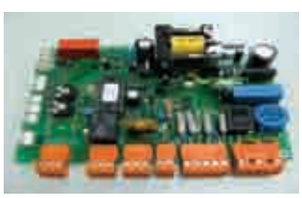


Code Number
4K50-60-12000

Lift Part
Bus

Comment
For old type of Bus doors
(Klefer 50.60.12)

Electronic Board
G3



Code Number
4K53-30-00000

Lift Part
G3

Comment
For G3 doors

Electronic Board
(Leo F1) CI 035101

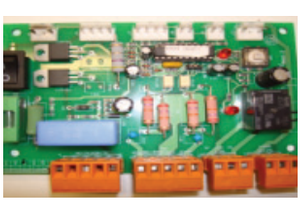


Code Number
4K99-03-10028

Lift Part
Leo

Comment
For Leo doors

Bus Door Board
C2T /C4T



Code Number
4K70-10-01000

Lift Part
Bus

Comment
For Bus doors with many belts
(Klefer 70.10.01)

Emergency Release Battery
(Panasonic)



Code Number
4K90-30-13000

Lift Part
Leo & G3

Comment
For the emergency release system of G3-Leo doors
(Klefer 90.30.13)

Hexagon Pin With Slot
for G3-Leo Doors (61892)



Code Number
4K99-03-10058

Lift Part
Leo & G3

Comment
For G3 & Leo doors

Female Part Of Bearing
Pin-Bus -Leo (61891)



Code Number
4K99-03-10056

Lift Part
Bus

Comment
For Bus & Leo doors

Black Plastic Handle
82 x 15mm
Model Bus/Leo/ G3 (60305)



Code Number
4K99-01-71000

Lift Part
Bus & Leo & G3

Comment
Ndicate door type
(Bus / Leo / G3)
(Klefer ID 60305)

Motor Upper
Clutch

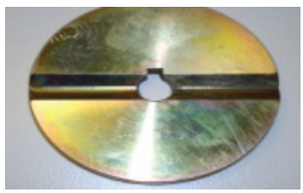


Code Number
4K53-40-00000

Lift Part
G3

Comment
For Bus G3
(Klefer ID 63998)

Motor Upper
Clutch



Code Number
4K53-40-01000

Lift Part
G3

Comment
For Bus G3
(Klefer ID 63995)

Ball Bearing
51102



Code Number
4K53-40-06000

Lift Part
G3

Comment
For Bus G3
(Klefer ID 63915)

PCM Bearing
12 x 14 x 20mm



Code Number
4K53-40-02000

Lift Part
G3

Comment
For Bus G3 doors
(Klefer ID 63917)

Sill
Ball



Code Number
4K53-80-05000

Lift Part
Leo & G3

Comment
For Bus G3 & Leo door
(Klefer ID 62101)

G3 Lock
Tumbler



Code Number
4K53-40-03000

Lift Part
G3

Comment
For Bus G3 door
(Klefer ID 63914)

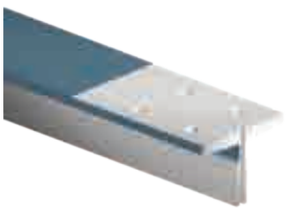
Electronic Equipment
For Flat -Leo



Code Number
4K99-03-10086

Lift Part
Bus Doors

Components

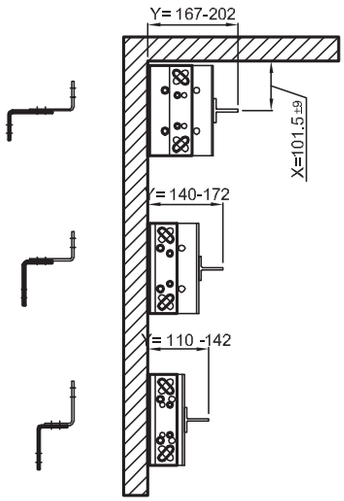


Guide Rail
Complete

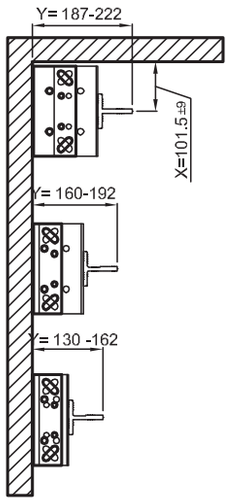
Code	Description
4 20-06-05000	50 x 50 x 5 / A (L=5,0m)
4 20-06-07000	70 x 70 x 9 / A (L=5,0m)
4 20-06-07500	75 x 62 x 10 / B (L=5,0m)
4 20-06-08200	82.5 x 68.25 x 9 / A (L=5,0m)
4 20-06-08900	89 x 62 x 16 / B (L=5,0m)
4 20-06-09001	90 x 75 x 16 / B (L=5,0m)
4 20-06-12500	125 x 82 x 16 / B (L=5,0m)
4 20-06-12700	127 x 89 x 16 /2 - B (L=5,0m)
4 20-06-14000	140 x 102 x 28,6 /2-B (L=5,0m)
4 20-06-14001	140 x 108 x 19 / 1-B (L=5,0m)
4 20-06-05001	50 x 50 x 5 / A (L=2,5m)
4 20-06-07001	70 x 70 x 9 / A (L=2,5m)
4 20-06-07501	75 x 62 x 10 / B (L=2,5m)
4 20-06-08201	82.5 x 68.25 x 9 / A (L=2,5m)
4 20-06-08901	89 x 62 x 16 / B (L=2,5m)
4 20-06-09002	90 x 75 x 16 / B (L=2,5m)
4 20-06-12501	125 x 82 x 16 / B (L=2,5m)
4 20-06-12702	127 x 89 x 16 /2 - B (L=2,5m)

GB 10.1 (45.61.520.90)

T 50 T70



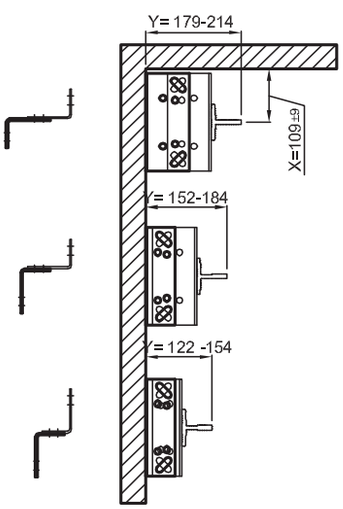
T 50x50x5



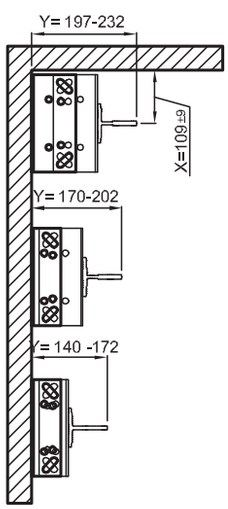
T 70x70x9

GB 10.2 (45.61.521.90)

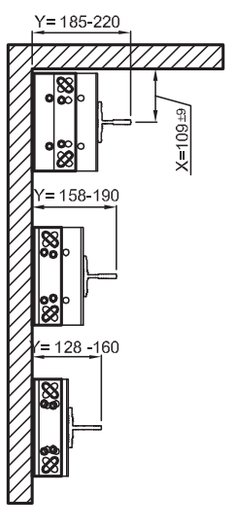
T 75 T80 T82



T 75x62x10



T 80a0x9

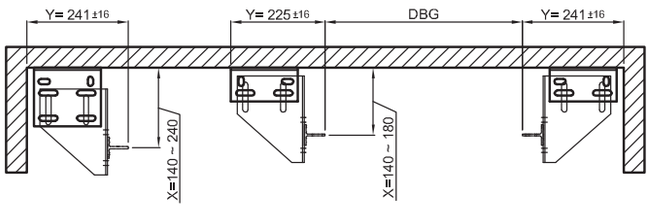


T 82.5x68x9

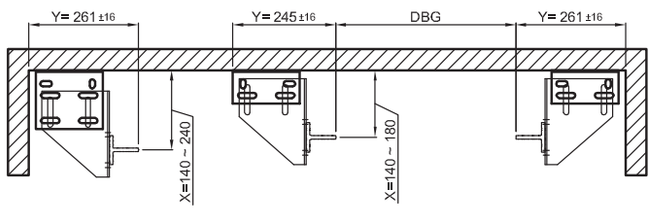
WB 11 / GB 11.1 (45.61.530.90)

T 50 T70

T 50 x 50 x 5



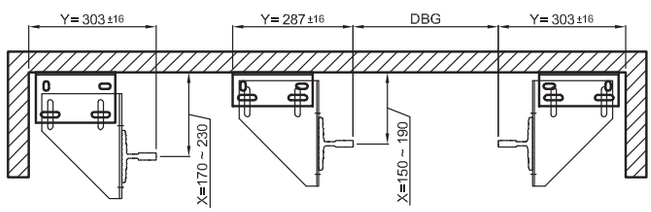
T 70 x 70 x 8/9



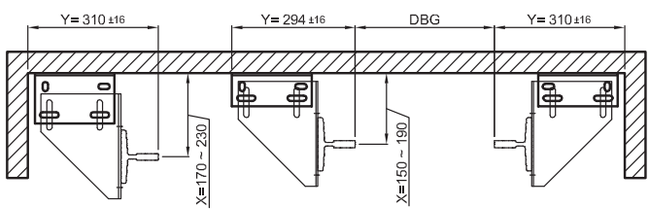
WB 11 / GB 11.1 (45.61.530.90)

T 125 T127

T 125x82x16



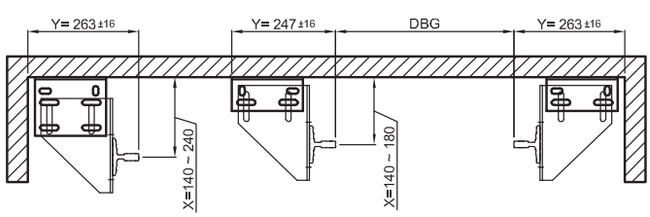
T 127x89x16



WB 12 / GB 12.2 (45.61.532.90)

T 89 T90

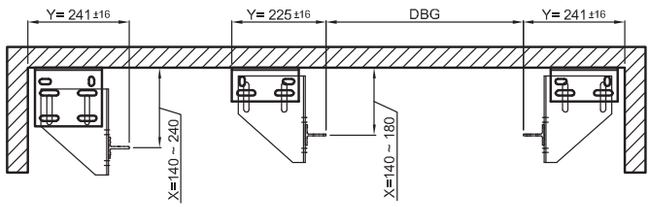
T 89x62x16



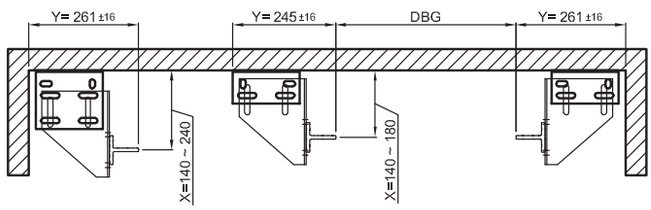
WB 11 / GB 11.1 (45.61.530.90)

T 50 T70

T 50 x 50 x 5



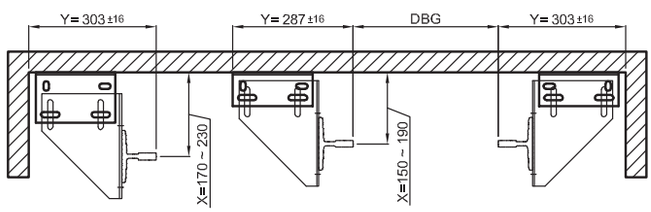
T 70 x 70 x 8/9



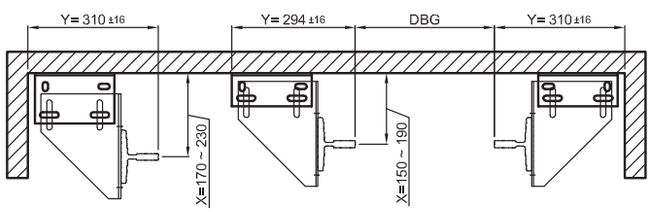
WB 11 / GB 11.1 (45.61.530.90)

T 125 T127

T 125x82x16



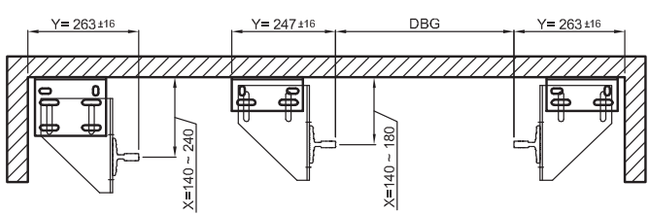
T 127x89x16



WB 12 / GB 12.2 (45.61.532.90)

T 89 T90

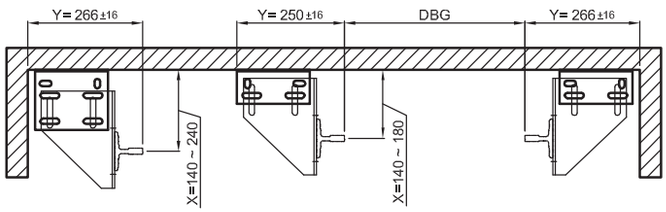
T 89x62x16



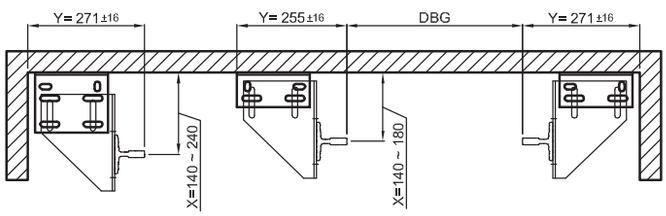
WB 12 / GB 12.2 (45.61.532.90)

T 89, T90

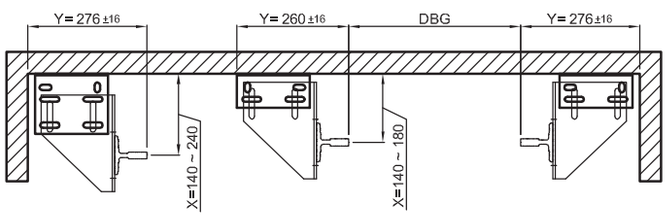
T 90x65x14



T 90x75x15



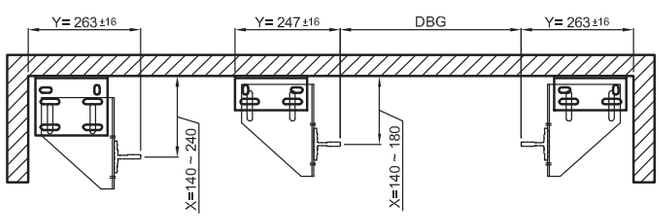
T 90x75x16



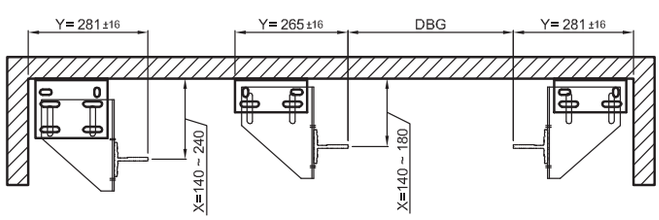
WB 12 / GB 12.1 (45.61.531.90)

T 75, T62x10

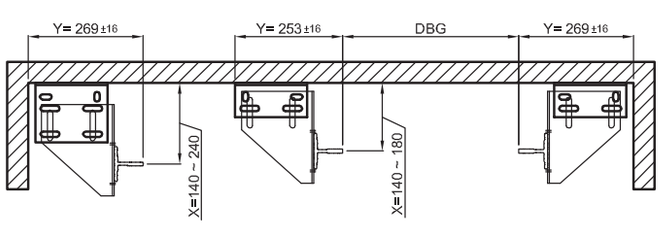
T 75 x 62 x 10



T 80 x 80 x 9



T 82.5 x 68 x 9





Code	Description
	Clips
6F21-09-00012	Clips T2 (M12 x 32) + [Grover M12 - Washer Ø12] Galvanised(A)
6F21-09-00002	Clips T2 (M12 x 32) + [Grover M12 - Washer Ø12](A)
6F21-09-00013	Clips T3 (M14 x 38) + [Grover M14 - Washer Ø14] Galvanised(A)
6F21-09-00003	Clips T3 (M14 x 38) + [Grover M14 - Washer Ø14](A)
6F21-09-00004	Clips T4 (M16 x 42) + [Grover M16 - Washer Ø16](A)
6F21-09-00005	Clips T5 (M18 x 42) + [Grover M18 - Washer Ø18](A)
6F21-09-00001	Clips T1 (M10 x 28) + [Grover M10 - Washer Ø10](A)
6F21-07-00001	Clips SL1 (M8 x 15)



Code	Description
	Overspeed
4 33-25-21063	Overspeed Governor BI Directional VNOM=0,63m/s - Ø235mm
4 33-25-40060	Overspeed Governor for Lifts 0.63m/s - 235mm (EN 81.1_A3)
4 33-25-40100	Overspeed Governor for Lifts 1.00m/s - 235mm (EN 81.1_A3)
4 33-25-31063	Overspeed Governor BI Directional VNOM=0,63m/s - Ø315mm
4 33-25-60063	Overspeed Governor for Lifts 0.63m/s - 315mm (EN 81.1_A3)
4 33-25-31100	Overspeed Governor BI Directional VNOM=1,00m/s - Ø315mm
4 33-25-60100	Overspeed Governor for Lifts 1.0m/s - 315mm (EN 81.1_A3)
4 33-25-31120	Overspeed Governor BI Directional VNOM=1,20m/s - Ø315mm
4 33-25-31160	Overspeed Governor BI Directional VNOM=1,60m/s - Ø315mm
4 33-25-60160	Overspeed Governor for Lifts 1.60m/s - 315mm (EN 81.1_A3)
4 33-25-20040	Overspeed Governor BI Directional VNOM=0,40m/s - Ø235mm + remote control
4 33-25-20084	Overspeed Governor BI Directional VNOM=0,63m/s - Ø235mm + remote control
4 33-25-30100	Overspeed Governor BI Directional VNOM=1,00m/s - Ø315mm + remote control
4 33-25-30160	Overspeed Governor BI Directional VNOM=1,60m/s - Ø315mm + remote control
4 33-25-20000	Tension Pulley Ø235 double axis (with 2 weights 6+6kg)
4 33-25-30000	Tension Pulley Ø315 double axis (with 2 weights 6+6kg)



Wire Rope Brake

Code	Description	MBL (KN)	kg/m
4 91-00-00602	Wire Rope Drako Ø 6 [6 x 19S - FC1570]	19	0.13
4 91-00-00651	Wire Rope Drako Ø 6,5 [8 x 19W - LWRC1770] 250T	31.5	0.179
4 91-00-00816	Wire Rope Drako Ø 8 [8 x 19S - FC1570] L	30.4	0.215
4 91-00-00815	Wire Rope Drako Ø 8 [8X19s-Fc 1570] R	30.4	0.215
4 91-00-00801	Wire Rope Drako Ø 8 [8 x 19W - LWRC1570] 250T	43.3	0.271
4 91-00-00908	Wire Rope Drako Ø 9 [8 x 19S - FC1570] L	38.4	0.273
4 91-00-00903	Wire Rope Drako Ø 9 [8 x 19S - FC1570] R	38.4	0.273
4 91-00-01003	Wire Rope Drako Ø 10 [6 x19W-FC1770]	61.9	0.368
4 91-00-01018	Wire Rope Drako Ø 10 [8 x 19S - FC1570] L	47.4	0.337
4 91-00-01017	Wire Rope Drako Ø 10 [8 x 19S - FC1570] R	47.4	0.337
4 91-00-01006	Wire Rope Drako Ø 10 [8 x 19W - LWRC1570] 250T	67.7	0.423
4 91-00-01109	Wire Rope Drako Ø 11 [8 x 19S - FC1570] L	57.4	0.407
4 91-00-01108	Wire Rope Drako Ø 11 [8 x 19S - FC1570] R	57.4	0.407
4 91-00-01209	Wire Rope Drako Ø 12 [8 x 19S - FC1570] L	68.3	0.485
4 91-00-01208	Wire Rope Drako Ø 12 [8 x 19S - FC1570] R	68.3	0.485
4 91-00-01315	Wire Rope Drako Ø 13 [8 x 19S - FC1570] L	80.2	0.569
4 91-00-01314	Wire Rope Drako Ø 13 [8 x 19S - FC1570] R	80.2	0.569
4 91-00-01514	Wire Rope Drako Ø 15 [8 x 19S - FC1570] L	107	0.757
4 91-00-01506	Wire Rope Drako Ø 15 [8 x 19S - FC1570] R	107	0.757
4 91-00-01601	Wire Rope Drako Ø 16 [8 x 19S - FC1570] R	121	0.861
4 91-00-01312	Wire Rope Gustav Wolf Ø 13 [8 x 19w-Iwrc 1570] PAWO F7S	116	0.727


Wire Rope Rode

Code	Description
	Rope Rod
4 22-07-00005	Rope Rod Drako Typ 4-5D (M10 x 180) (Spring)
4 22-07-00006	Rope Rod Drako Typ 4-5Um (M10 x 180)
4 22-07-00001	Rope Rod Drako Typ 6,5D (M10 x 180) (Spring)
4 22-07-00002	Rope Rod Drako Typ 6,5Um (M10 x180)
4 22-00-00006	Rope Rod Klem Ø8 (M16 x 325) Galvanised
4 22-00-00004	Rope Rod Klem Ø9-10 (M16 x 325) Galvanised
4 22-00-00002	Rope Rod Klem Ø11 (M16 x 325) Galvanised
4 22-00-00003	Rope Rod Klem Ø12 (M16 x 325) Galvanised
4 22-05-00025	Rope Rod Montanari Ø15-17 (M24 x 450)
4 22-05-00024	Rope Rod Welded Montanari Ø12-14 (M20 x 305) Galvanised
4 22-05-00023	Rope Rod Welded Montanari Ø9-11 (M16 x 255) Galvanised
	Thimble
4 99-06-01000	Thimble Ø 10 Galvanized Din 6899A
4 99-06-01200	Thimble Ø12 Galvanized Din 6899A
4 99-06-00600	Thimble Ø6 Galvanized Din 6899A
4 99-06-00700	Thimble Ø7 Galvanized Din 6899B
4 99-06-00800	Thimble Ø8 Galvanized Din 6899A
	Wire Rope Clips
4 99-05-00400	Wire Rope Clips Ø4-5 (3/16") DIN 1142
4 99-05-06500	Wire Rope Clips Ø6,5 (1/4") DIN 1142 [Gold]
4 99-05-00801	Wire Rope Clips Ø8 (5/16") DIN 1142
4 99-05-01001	Wire Rope Clips Ø9-10 (3/8") DIN 1142
4 99-05-01201	Wire Rope Clips Ø11-12-13 (1/2") DIN 1142
4 99-05-01601	Wire Rope Clips Ø15-16 (5/8") DIN 1142

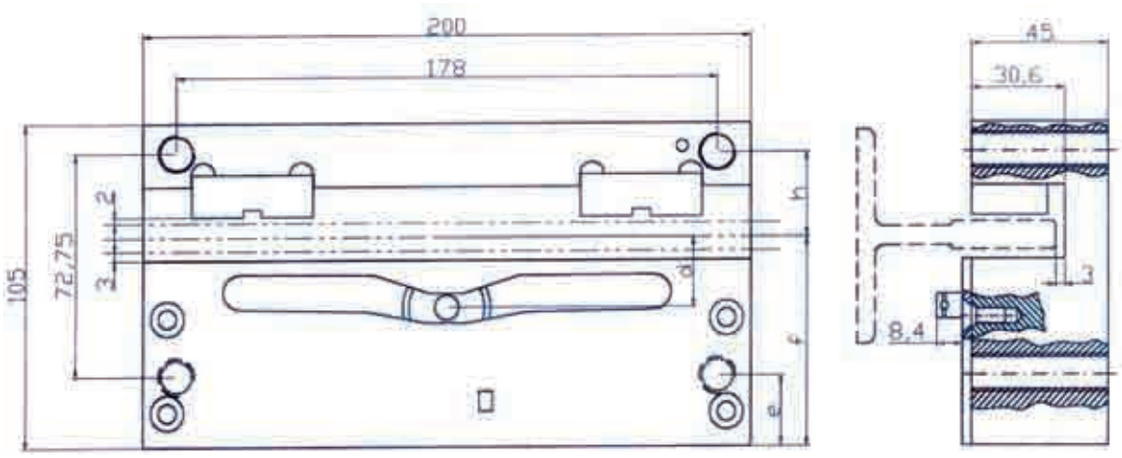




PR2000UD

Guide Rail	P+Q	Code
5mm	537	6 25-11-10705
	621	6 25-11-10205
	719	6 25-11-10305
	823	6 25-11-10405
	911	6 25-11-10505
	1053	6 25-11-10605
6mm	537	6 25-11-10106
	621	6 25-11-10206
	719	6 25-11-10306
	823	6 25-11-10406
	911	6 25-11-10506
	1053	6 25-11-10606
7mm	621	6 25-11-10207
	719	6 25-11-10307
	834	6 25-11-10407
	911	6 25-11-10507
	1053	6 25-11-10607
	1222	6 25-11-10707
8mm	537	6 25-11-10108
	621	6 25-11-10208
	719	6 25-11-10308
	834	6 25-11-10408
	911	6 25-11-10508
	1053	6 25-11-10608
	1222	6 25-11-10708
9mm	537	6 25-11-10109
	621	6 25-11-10209
	719	6 25-11-10309
	834	6 25-11-10409
	911	6 25-11-10509
	1053	6 25-11-10609
	1222	6 25-11-10709
10mm	537	6 25-11-10110
	621	6 25-11-10210
	719	6 25-11-10310
	834	6 25-11-10410
	911	6 25-11-10510
	1053	6 25-11-10610
	1222	6 25-11-10710
11mm	621	6 25-11-10211
	834	6 25-11-10411

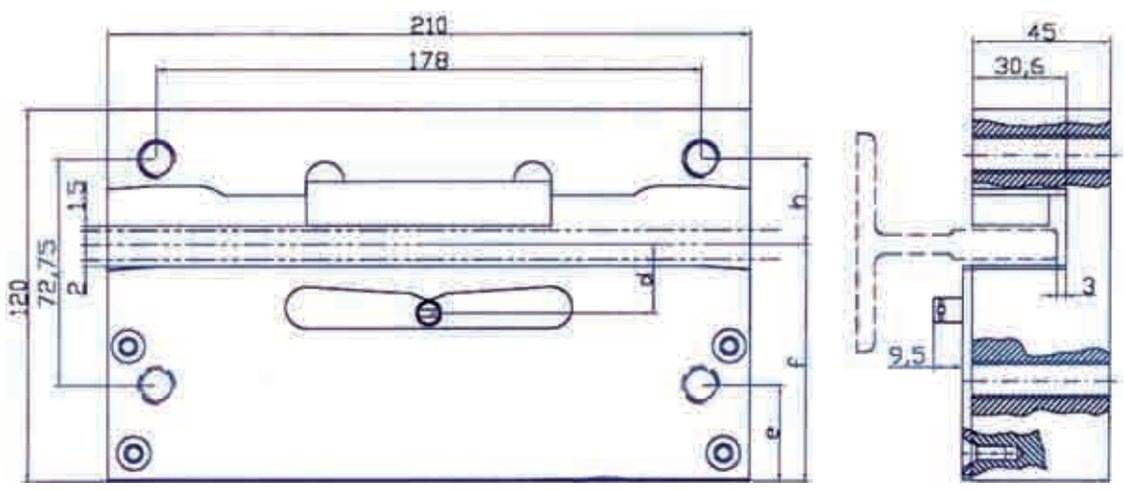
Guide Rail	P+Q	Code
12mm	537	6 25-11-10112
	621	6 25-11-10212
	719	6 25-11-10312
	834	6 25-11-10412
	911	6 25-11-10512
	1053	6 25-11-10612
	1222	6 25-11-10712
14mm	537	6 25-11-10114
	621	6 25-11-10214
	719	6 25-11-10314
	834	6 25-11-10414
	911	6 25-11-10514
	1053	6 25-11-10614
15mm	537	6 25-11-10714
	621	6 25-11-10115
	719	6 25-11-10215
	834	6 25-11-10315
	911	6 25-11-10415
	1053	6 25-11-10515
	1222	6 25-11-10615
16mm	537	6 25-11-10715
	621	6 25-11-10116
	719	6 25-11-10216
	834	6 25-11-10316
	911	6 25-11-10416
	1053	6 25-11-10516
	1222	6 25-11-10616
		6 25-11-10716



PR2500UD

Guide Rail	P+Q	Code
8mm	613	6 25-11-20108
	711	6 25-11-20208
	826	6 25-11-20308
	929	6 25-11-20408
	1041	6 25-11-20508
	1146	6 25-11-20608
	1274	6 25-11-20708
	1424	6 25-11-20808
	1572	6 25-11-20908
	1759	6 25-11-21008
	1955	6 25-11-21108
9mm	613	6 25-11-20109
	711	6 25-11-20209
	826	6 25-11-20309
	929	6 25-11-20409
	1041	6 25-11-20509
	1146	6 25-11-20609
	1274	6 25-11-20709
	1424	6 25-11-20809
	1572	6 25-11-20909
	1759	6 25-11-21009
	1955	6 25-11-21109
10mm	613	6 25-11-20110
	711	6 25-11-20210
	826	6 25-11-20310
	929	6 25-11-20410
	1041	6 25-11-20510
	1146	6 25-11-20610
	1274	6 25-11-20710
	1424	6 25-11-20810
	1572	6 25-11-20910
	1759	6 25-11-21010
	1955	6 25-11-21110

Guide Rail	P+Q	Code
12mm	613	6 25-11-20112
	711	6 25-11-20212
	826	6 25-11-20312
	929	6 25-11-20412
	1041	6 25-11-20512
	1146	6 25-11-20612
	1274	6 25-11-20712
	1424	6 25-11-20812
	1572	6 25-11-20912
	1759	6 25-11-21012
	195	6 25-11-21112
14mm	613	6 25-11-20114
	711	6 25-11-20214
	826	6 25-11-20314
	929	6 25-11-20414
	1041	6 25-11-20514
	1146	6 25-11-20614
	1274	6 25-11-20714
	1424	6 25-11-20814
	1572	6 25-11-20914
	1759	6 25-11-21014
	1955	6 25-11-21114
15mm	613	6 25-11-20115
	711	6 25-11-20215
	826	6 25-11-20315
	929	6 25-11-20415
	1041	6 25-11-20515
	1146	6 25-11-20615
	1274	6 25-11-20715
	1424	6 25-11-20815
	1572	6 25-11-20915
	1759	6 25-11-21015
	1955	6 25-11-21115
16mm	613	6 25-11-20116
	711	6 25-11-20216
	826	6 25-11-20316
	818	6 25-11-20416
	1041	6 25-11-20516
	1146	6 25-11-20616
	1274	6 25-11-20716
	1424	6 25-11-20816
	1572	6 25-11-20916
	1759	6 25-11-21016
	1955 5	6 25-11-21116



PQ4000UD

Guide Rail	P+Q	Code
8mm	2173	6 25-11-30108
	2402	6 25-11-30208
	2606	6 25-11-30308
	2821	6 25-11-30408
	3081	6 25-11-30508
	3345	6 25-11-30608
	3622	6 25-11-30708
	4023	6 25-11-30808
9mm	2173	6 25-11-30109
	2402	6 25-11-30209
	2606	6 25-11-30309
	2821	6 25-11-30409
	3081	6 25-11-30509
	3345	6 25-11-30609
	3622	6 25-11-30709
	4023	6 25-11-30809
10mm	2173	6 25-11-30110
	2402	6 25-11-30210
	2606	6 25-11-30310
	2821	6 25-11-30410
	3081	6 25-11-30510
	3345	6 25-11-30610
	3622	6 25-11-30710
	4023	6 25-11-30810
12mm	2173	6 25-11-30112
	2402	6 25-11-30212
	2606	6 25-11-30312
	2821	6 25-11-30412
	3081	6 25-11-30512
	3345	6 25-11-30612
	3622	6 25-11-30712
	4023	6 25-11-30812
13mm	3345	6 25-11-30613

Guide Rail	P+Q	Code
14mm	2173	6 25-11-30114
	2402	6 25-11-30214
	2606	6 25-11-30314
	2821	6 25-11-30414
	3081	6 25-11-30514
	3345	6 25-11-30614
	3622	6 25-11-30714
	4023	6 25-11-30814
15mm	2173	6 25-11-30115
	2402	6 25-11-30215
	2606	6 25-11-30315
	2821	6 25-11-30415
	3081	6 25-11-30515
	3345	6 25-11-30615
	3622	6 25-11-30715
	4023	6 25-11-30815
16mm	2173	6 25-11-30116
	2402	6 25-11-30216
	2606	6 25-11-30316
	2821	6 25-11-30416
	3082	6 25-11-30516
	3345	6 25-11-30616
	3622	6 25-11-30716
	4023	6 25-11-30816

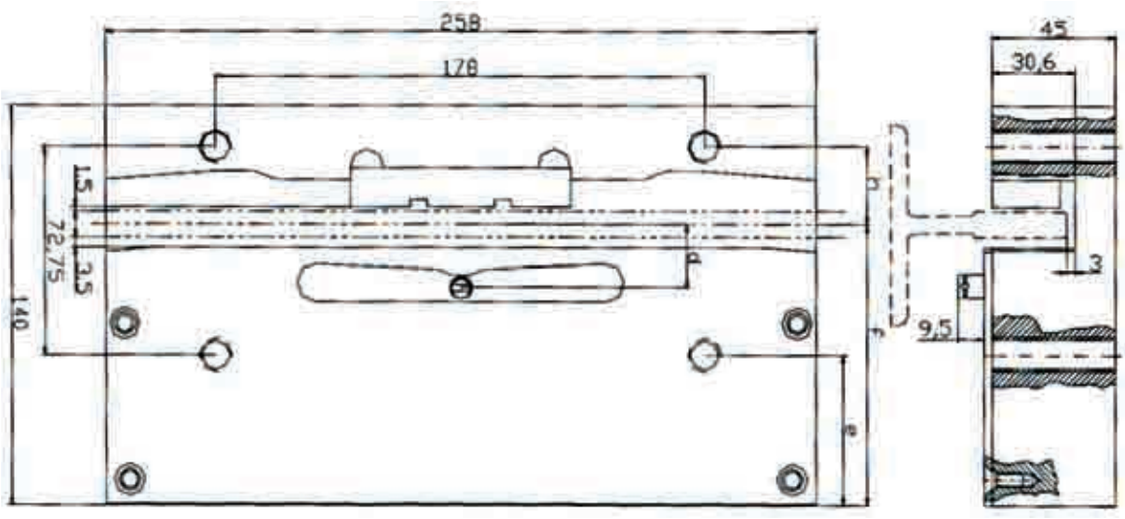
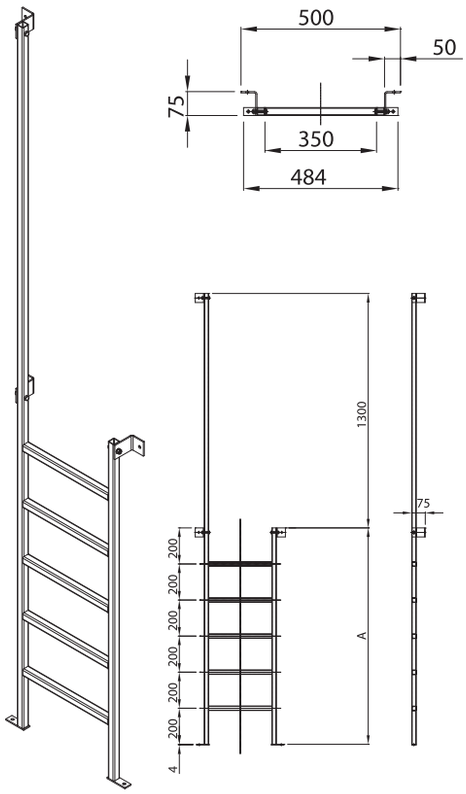


Photo Curtain

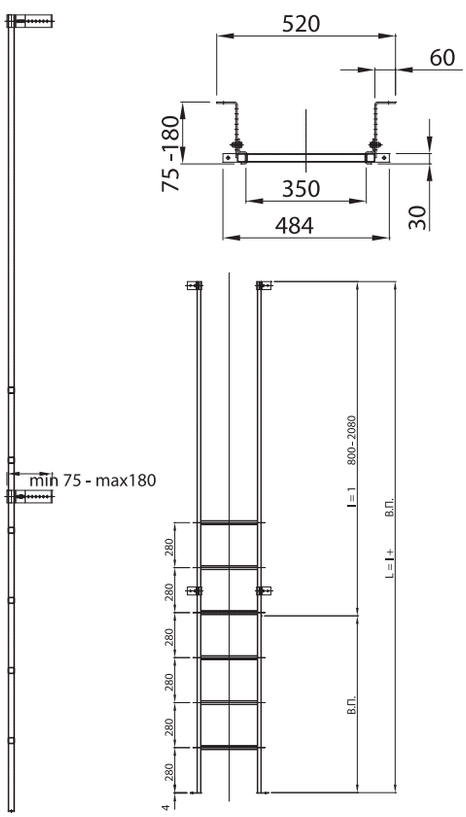
Code	Description
6F99-24-00005	Light Curtain (MEMCO 616)
6F99-24-00025	Photocurtain WECO 917 L
6 49-12-00403	Photocurtain TL JONES
6F99-24-00049	Photocurtain Cedes Cegard /Mini
6F99-24-00047	Photocurtain MEMCO 618(Complete)
6F99-24-00050	Photocurtain MEMCO 3D PANA40 PLUS (Complete)
6F99-24-00046	Photocurtain MEMCO 2D C2510 with power supplier C 2850 (Panachrome)
6F99-24-00048	Photocurtain Cedes GRS 700 (Complete)

4410000



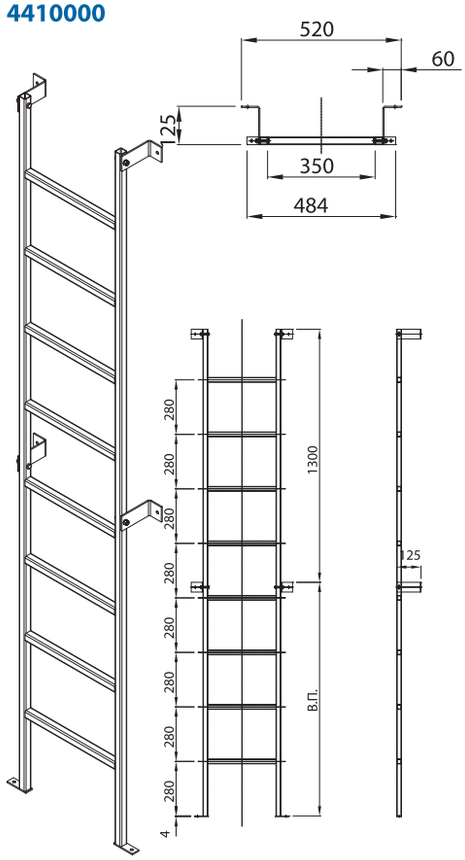
Code	Pit Ladder	Pit Depth [mm]
0544-11-00000	Pit Ladder PL-1200	<=1100
0544-12-00000	Pit Ladder PL-1400	1101-1300
0544-13-00000	Pit Ladder PL-1600	1301-1500
0544-14-00000	Pit Ladder PL-2000	1501-1900

4410200



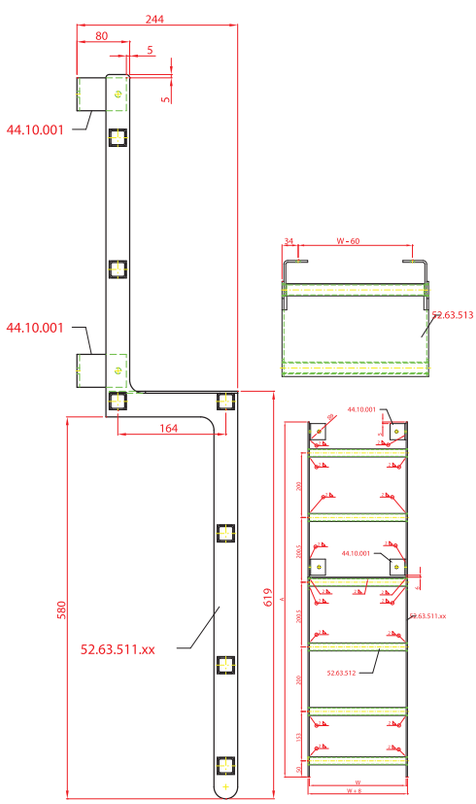
Code	Pit Ladder	Pit Depth [mm]
0544-11-20000	Pit Ladder PL-1100 NL	1100-1379
0544-12-20000	Pit Ladder PL-1380 NL	1380-1659
0544-13-20000	Pit Ladder PL-1660 NL	1660-1939
0544-14-20000	Pit Ladder PL-1940 NL	1940-2220

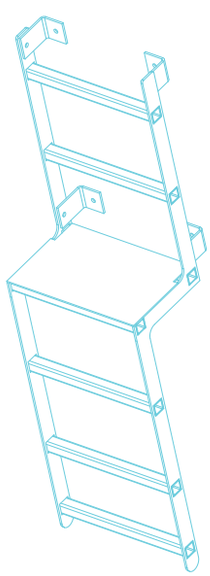
4410000



Code	Pit Ladder	Pit Depth [mm]
0544-11-10000	Pit Ladder PL-1200 AU	<=1200
0544-12-10000	Pit Ladder PL-1500 AU	1201-1500
0544-13-10000	Pit Ladder PL-1750 AU	1501-1750
0544-14-10000	Pit Ladder PL-2000 AU	1751-2000

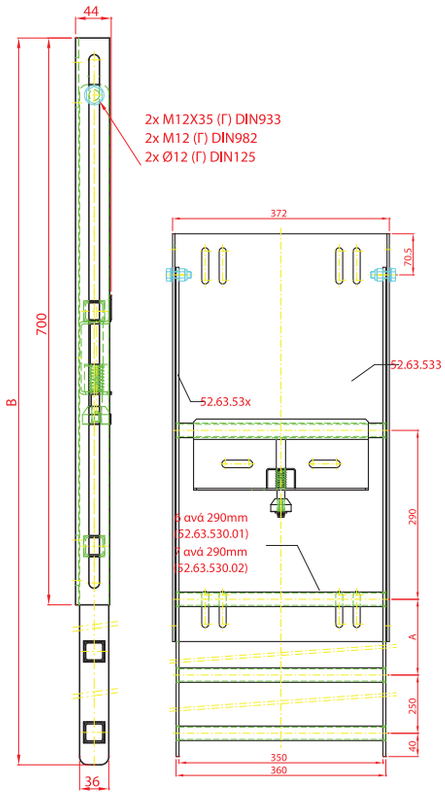
Atlas





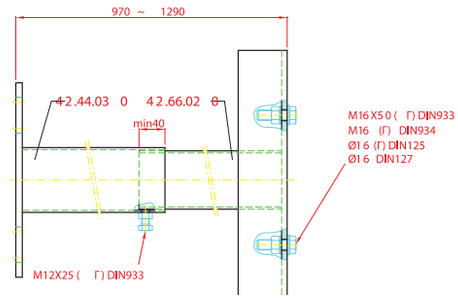
Code	Pit Ladder	Pit Depth [mm]
0552-63-50001	Pit Ladder TLPL A=1100 Traction lift	<=1100
0552-63-50002	Pit Ladder TLPL A=1300 Traction lift	1101-1300
0552-63-50003	Pit Ladder TLPL A=1500 Traction lift	1301-1500
0552-63-50004	Pit Ladder TLPL A=1900 Traction lift	1501-1900

Atlas
Australian



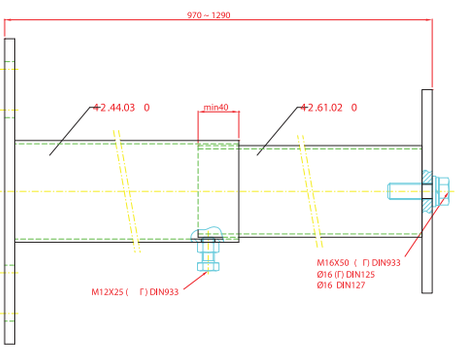
Code	Pit Ladder	Pit Depth [mm]
0552-63-53001	Pit Ladder TLPL L=2600 Australia Type	<=1200
0552-63-53002	Pit Ladder TLPL L=2890 Australia Type	1200-1500

BSHGD4



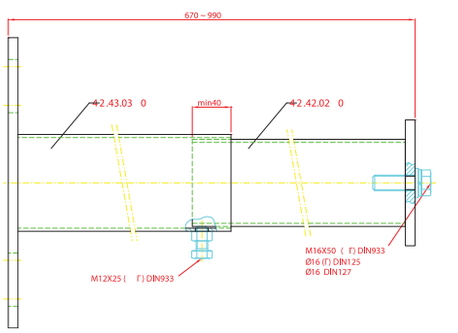
Code	Description	Height		Suitable for
0542-65-00000	Buffer Base BS-HG-D1	240	420	2 Buffers
0542-66-00000	Buffer Base BS-HG-D2	380	690	
0542-67-00000	Buffer Base BS-HG-D3	670	990	
0542-68-00000	Buffer Base BS-HG-D4	970	1290	
0542-69-00000	Buffer Base BS-HG-D5	>1290		

BSHGS4



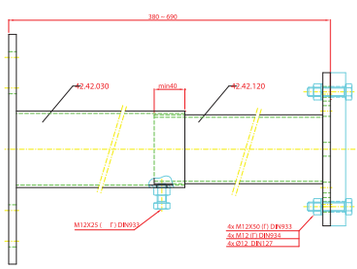
Code	Description	Height		Suitable for
0542-60-00000	Buffer Base BS-HG-S1	240	420	Elastogran 125080(A)
0542-61-00000	Buffer Base BS-HG-S2	380	690	
0542-62-00000	Buffer Base BS-HG-S3	670	990	Elastogran 165080(A)
0542-63-00000	Buffer Base BS-HG-S4	970	1290	
0542-64-00000	Buffer Base BS-HG-S5	>1290		

BSS3

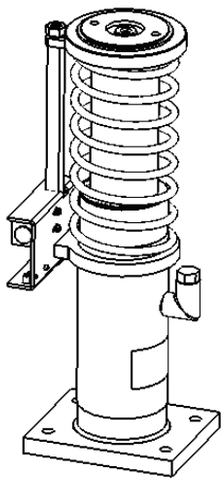


Code	Description	Height		Suitable for
0542-41-00000	Buffer Base BS-S1	240	420	Acla B 300401(A)
0542-42-00000	Buffer Base BS-S2	380	690	Elastogran 1002-K(A)
0542-43-00000	Buffer Base BS-S3	670	990	
0542-44-00000	Buffer Base BS-S4	970	1290	Elastogran 080080(A)
0542-45-00000	Buffer Base BS-S5	>1290		

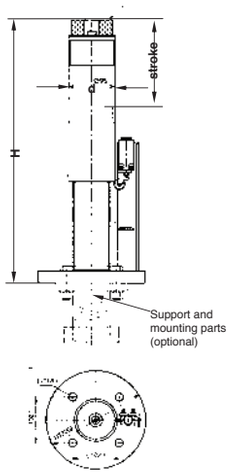
4242100



Code	Description	Height		Suitable for
0542-41-10000	Buffer Base BS-HB1		420	Hydraulic Buffer
0542-42-10000	Buffer Base BS-HB2		690	
0542-43-10000	Buffer Base BS-HB3		990	
0542-45-10000	Buffer Base BS-HB5	>990		



6F32-10-00011
up to
6F32-10-00024

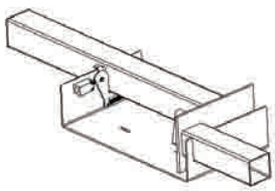


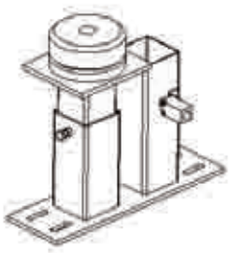
6F32-10-00111

6F32-10-00111	Hydraulic Buffer DF YH52, Umax=1,6m/sec(A)	<=1,6 m/s	3500
6F32-10-00011	Hydraulic Buffer Lift Equip O1A, Umax=1,6m/sec, With Oil(A)	<=1,6 m/s	1370
6F32-10-00012	Hydraulic Buffer Lift Equip O1B, Umax=1,6m/sec, With Oil(A)	<=1,6 m/s	2000
6F32-10-00013	Hydraulic Buffer Lift Equip O1C, Umax=1,6m/sec, With Oil(A)	<=1,6 m/s	3020
6F32-10-00021	Hydraulic Buffer Lift Equip O2A, Umax=2,0m/sec, With Oil(A)	<=2 m/s	1370
6F32-10-00022	Hydraulic Buffer Lift Equip O2B, Umax=2,0m/sec, With Oil(A)	<=2 m/s	2000
6F32-10-00023	Hydraulic Buffer Lift Equip O2C, Umax=2,0m/sec, With Oil(A)	<=2 m/s	3020
6F32-10-00025	Hydraulic Buffer Lift Equip O3B, Umax=2,5m/sec, With Oil(A)	<=2,5 m/s	2000
6F32-10-00024	Hydraulic Buffer Lift Equip O3C, Umax=2,5m/sec, With Oil(A)	<=2,5 m/s	3020

Code	Description	Speed					Load				
6F99-04-10003	Buffer Acla B 300401(A)	0.4	0.63	0.7	0.85	1	1600, 2442	1455, 2149	1345, 1913	1140, 1740	1000, 1542
6F99-04-00000	Buffer Elastogran 1002-K(A)	0.4	0.63	0.7	0.85	1	1600, 2442	1455, 2149	1345, 1913	1140, 1740	1000, 1542

Code	Description	Speed				Load			
6F99-04-08080	Buffer Elastogran 080080(A)	0.5	0.63	0.8	1	1500, 4000, 6500	1300, 3500, 5500	1200, 2500, 4200	1000, 1600, 3500
6F99-04-12508	Buffer Elastogran 125080(A)	0.5	0.63	0.8	1	1500, 4000, 6500	1300, 3500, 5500	1200, 2500, 4200	1000, 1600, 3500
6F99-04-00012	Buffer Elastogran 165080(A)	0.5	0.63	0.8		1500, 4000, 6500	1300, 3500, 5500	1200, 2500, 4200	1000, 1600, 3500





Safety Beam
(Pit Prop)

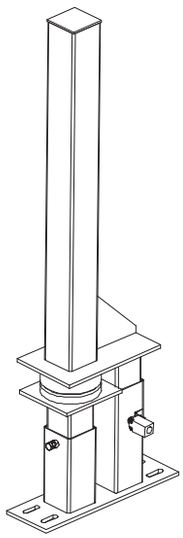
Technical Data

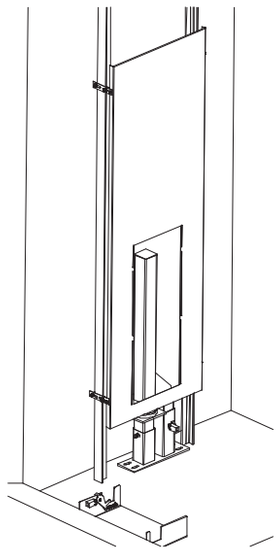
Type of Lift
MR Traction

Application
Low Pit (EN81-21):
Fitting under the cabin
Low Headroom (EN81-21):
Fitting under
the counterweight

Max T Speed
1,00m/s
Replacing the buffer base

Code
0552-63-40000





Counterweight
(Screan for low Pit)

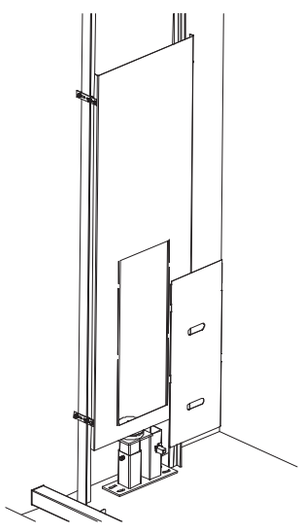
Technical Data

Type of Lift
MR Traction

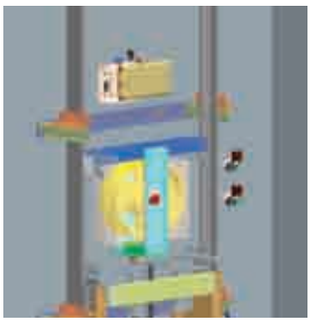
Application
Low Headroom (EN81-21)

Max T Speed
1,00m/s

Code
0558-01-13000



Low Headroom
Hydraulic lift



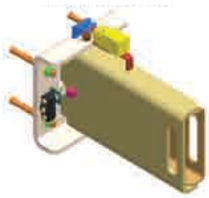
Technical Data

Code
0546-10-20000

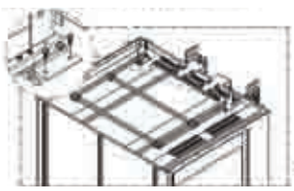
Normal Mode = 0° Posstion

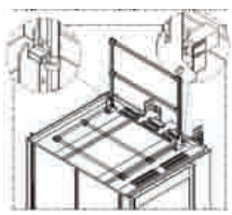


Inspection Mode = 90° Posstion



Retractable balustrate



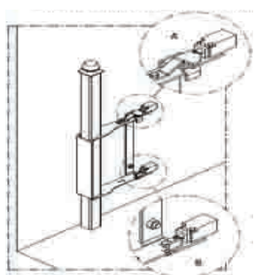


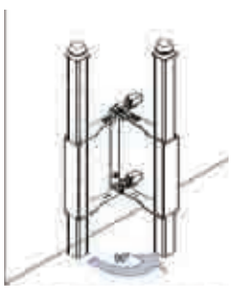
Low Pit Depth (EN81-21)
Hydraulic Lift

Technical Data

Type of lift
Hydraulic lift

Application
Low Headroom (EN81-21)





Teleskopic apron

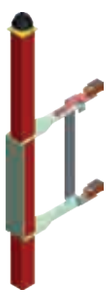








Low Pit
and Headroom Kit



KLEEMANN™
Your 1st Choice in Lifts

Greece **Head Offices-Export Sales:**
Kilkis Industrial Area,
P.O. BOX 25, P.C. 61 100 Kilkis, Greece
T: +30 23410 38100
F: +30 23410 38200
headoffice@kleemann.gr

United Kingdom **KLEEMANN Lifts UK Ltd**
Unit 8 Arena 14,
Charbridge Lane, Bicester,
Oxfordshire, OX26 4ST
T: 00441869327070
uk@kleemannlifts.com

Turkey **KLEEMANN Asansör**
Yukari Dudullu, Türker, Cad No 34 34775,
Ümraniye Istanbul Türkıye,
T: +90 216 4662267, F: +90 216 4662285
info@kleemannturk.com

Serbia **KLEEMANN Liftovi**
Golubinačka b.b, Šimanovci, Beograd, Serbia,
T: +381 22 409000, F: +381 22 409090,
office@kleemann.rs

Romania **KLEEMANN Lift Ro**
str. Filderman Wilhelm nr. 4 bis, 3 district,
Bucharest,
T: +40 314 228917, F: +40 314 228916,
office@kleemannlifts.ro

China **KLEEMANN China**
Kunshan American Industrial Park
No. 238 Chenfeng Road
KSND, Kunshan, Jiangsu, China | 215300,
T: +86 0512 36823223- 8661,
F: +86 0512 36823240,
info@kleemannlifts.cn

Germany **Sales Office Germany**
Kölner Strasse 15 D-45661 Recklinghausen
Fon: +49 (0) 2361 3023415
Fax: +49 (0) 2361 3023482
office.germany@kleemannlifts.com

Russia **Sales Office Russia**
Partiyny pereulok
1/57, Building 3 (Entrance from 3-rd Pavlovsky pereulok),
P.C. 115093, Moscow, Russia
T / F: +7495 7812 018
office@kleemannlifts.ru

United Arab Emirates **Sales Office UAE**
Sheikh Zayed Road,
P.O. Box 25, Dubai, UAE
T: +971 4-3390000
F: +971 4-3395605

Poland **Sales Office Poland**
ul. PIOTRA SKARGI 4 lokal 12
95-100 ZGIERZ
Poland
poland@kleemann.gr

KLEEMANN is not responsible for any typing errors
Photos may differ slightly in appearance from reality
Products may change without any prior notice

©Copyright Kleemann

www.kleemannlifts.com

KL1MODERNISATIONENG0612

www.kleemannlifts.com

KLEEMANN™
Your 1st Choice in Lifts

+30 23410 38300
24 HOUR SERVICE