

Manor Farm Industrial Estate,
Flint, Flintshire CH6 5UY

**PLEASE COMPLETE AND RETURN AS SOON AS POSSIBLE
TO ALLOW DESIGN/MANUFACTURE TO PROGRESS**

Telephone +44 (0)1352793222
Email: orders@tvcl.co.uk

TVC Quote No.	
Company Name	
Company Contact	
Address	
Delivery Address (if different from above)	

Customer Job No.	
Site Reference	

The above references will be added to
all documentation including drawings

Note: this document will be the official document used to configure your controller. Complete it carefully as any changes may result in additional cost and delayed delivery. Any features requested in this document that are not already included in the quotation may be subject to a price increase.

REQUIREMENTS

Please complete the attached questionnaire and supply all relevant information in order that the lift control panel(s) may be designed and manufactured. Inaccurate or incomplete information may delay delivery.

For Modernisation jobs, all application data on existing equipment and any requirements not covered on the quotation should be recorded and attached to this form.

Please contact TVC if any questions arise regarding the required data.

Authorised By: _____

Print Name: _____ Date: _____

TVC cannot accept this document unless signed and dated

Internal use only. TVC contract number:

MAINS SUPPLY

	Volts
	Phase
	Hz

Is a Suitable
Neutral Available?Yes
4 WireNo
3Wire

LIFT MACHINE

PLEASE SUPPLY MOTOR MANUFACTURER DATA SHEET FOR APPLICATION OR COMPLETE DETAILS BELOW

Data Sheet attached

No Yes

Motor data sheet ref number

Proceed to NEXT SHEET

MOTOR

Manufacturer	
Type	
V	
Hz	
RPM	
KW	
Full Load Current	
Flywheel/Heavy Brake Coupling	Yes No

We will assume the answer is no, however, if yes,
please supply full details including dimensions & material type

APPLICATION DETAILS

Car Speed	m/s	
Roping	1:1	2:1
Sheave Diameter	mm	
Gear Type	Geared	Gearless
Gear Ratio	/	
Motor RPM Required to Achieve Contract Speed		

BRAKE

Lift Voltage	Vdc	Lift Current	A
Hold Voltage	Vdc	Hold Current	A

Method of Brake release
during rescue operation

Mechanical

Electrical

PULSE ENCODER (Closed Loop Only)

1024PPR 10-30Vdc Push/Pull Complimentary
1024PPR 10-30Vdc Differential RS422 Line Driver
4096PPR 5Vdc Differential RS422 Line Driver
2048PPR 5Vdc EnDat Absolute Multi-Turn
Other (Please provide details)

Pulses per Revolution

Voltage

Output
Configuration

PPR

V

MOTOR FAN

Electrical Motor Fan

Yes No

Voltage V

Phases

Current A

Note: All new Sassi motors require a
230V 0.14A 1Phase motor fan

DOOR CONTROL

No of Car Entrances

1

2

If 2 entrances

Non-Selective
Door OpeningSelective
Door Opening

Select Type

Fully Automatic Car & Landing

☐
Complete **SECTION A** below only

Manually Operated Car & Landing

☐
Complete **SECTION B** below only

Fully Automatic Car & Manually Operated Landing

☐
Complete **SECTIONS A & B** below

CAR DOOR OPERATOR

SECTION A

Select Type

GAL VVVF

☐

Is GAL HA (Fault Monitoring) Unit Fitted

Yes

No

FERMATOR VVVF

☐

SEMATIC VVVF

☐

Select Type

SDS

F28

F29

SELCOM VVVF

☐

Select Type

SUPRA

MIDI

ECO

SIEMENS

☐

Select Type

AT18

AT25

AT40

OTHER

☐

Provide Details

RETIRING RAMP

SECTION B

Voltage

Vdc

Power Rating

W

SPECIAL DOOR CONTROL REQUIREMENTS

Please specify any special door control requirements

DIGITAL POSITION INDICATORS**24Vdc****Select Manufacturer****Specify Type**

Dewhurst

Stentorgate

ILE 4 Wire Serial

A&A Omega 4

Drucegrove

Digital Advance

Other

Standard position indicator signals

Floor Position, Lift Direction,

Lift on Fire Control,

Lift Overloaded, Lift Out of Service

Please provide a list of any additional
indicator messages

Displays fitted at:

Car

Main Floor

All Floors

*(If free issue encoder, please ensure we receive
the unit at least two weeks before despatch date,
if not, we reserve the right to dispatch the
contract minus the free issue equipment fitted)*

Battery Backed Up Indicator Supply
(Lift out of service message)

Y

N

*If selected, TVC standard Back up duration is for 3 Hours*Discrete Hall Lantern Arrows
(Not driven by the Digital Display system)

Y

N

Please provide details

SPEECH UNIT**24Vdc****Select Manufacturer**

Dewhurst

Stentorgate

ILE

Drucegrove Digitalker

Digital Advance

Other

Standard speech unit signals

Floor Position, Doors Opening, Doors Closing,

Lift Direction, Lift on Fire Control,

Lift Overloaded, Lift Out of Service

Please provide a list of any additional
speech messages

Specify Manufacturer & Type

Dewhurst Stentorgate ILE Drucegrove Digitalker Digital Advance Other	[] [] [] [] [] []	[] [] [] [] [] []	Standard position indicator signals Floor Position, Lift Direction, Lift on Fire Control, Lift Overloaded, Lift Out of Service Please provide a list of any additional indicator messages [] [] []
Displays fitted at: Car [] Main Floor [] All Floors []			(If free issue encoder, please ensure we receive the unit at least two weeks before despatch date, if not, we reserve the right to dispatch the contract minus the free issue equipment fitted)
Battery Backed Up Indicator Supply (Lift out of service message) Y [] N [] <i>If selected, TVC standard Back up duration is for 3 Hours</i>			
Discrete Hall Lantern Arrows (Not driven by the Digital Display system) Y [] N []			Please provide details []

SPECIAL REQUIREMENTS

Please specify any additional indicator/speech/gong requirements

[]

LIFT SETUP / APPLICATION

No of Floors

Please insert floor markings

Front Entrances

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Rear Entrances

(If applicable)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Floor Height (M)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

(3M floor heights will be assumed if not specified)

Main (Homing) Floor

Control System

Simplex

Duplex

Group

HCD
Navigator

If Duplex, Group or HCD system and all lifts do not serve all floors, please supply full details of entrance layout

Full Collective

Down Collective

Non-Selective Collective

FAPB Control

LIFT POSITIONING SYSTEM**VPD – Vector Positioning Device**Lifts with
relevellingAbsolute
PositionAuto Shaft
LearnFirefighting
Applications

Speeds up to:

**Select
preferred
Option**

✗	✓	✓	✗	1.6 m/s	<input type="text"/>
---	---	---	---	---------	----------------------

Utilising signals from the motor encoder in a closed-loop VEC traction lift system, Vector Position Device (VPD) offers a simple, low-cost position solution. Shaft equipment is minimised with only door zone switches being required.

GPD – Governor Position DeviceLifts with
relevellingAbsolute
PositionAuto Shaft
LearnFirefighting
Applications

Speeds up to:

**Select
preferred
Option**

✓	✓	✓	✓	2.98 m/s	<input type="text"/>
---	---	---	---	----------	----------------------

The TVC combined governor and encoder system offers an absolute position option with minimal shaft equipment. Ideal for scenic lifts where minimal shaft equipment is desired but when high performance is required. Shaft equipment is minimised with only door zone switches being required.

LIMAX – Shaft Mounted Tape SystemLifts with
relevellingAbsolute
PositionAuto Shaft
LearnFirefighting
Applications

Speeds up to:

**Select
preferred
Option**

✓	✓	✓	✓	6.0 m/s	<input type="text"/>
---	---	---	---	---------	----------------------

The Limax uses a shaft mounted tape system, please specify the Tape length required

 M

The Elgo LIMAX shaft position system is an easy-to-install, high performance system suitable for all applications. Requires door zone switches in the lift shaft.

CONTROLLER OPTIONS

Please select all options required to be included within the TVC control system

Select preferred Option

Cabinet Enclosure Details (See attached Mini/Midi/Maxi_Hybrid sheets for further details)

Mini	Midi	Maxi	Hybrid
------	------	------	--------

Remote OSG Trip Solenoid interface ☐ Voltage: VRemote OSG Reset Solenoid interface ☐ Voltage: VDigital Handwind Unit ☐Eco-mode ☐Unintended Car Movement Protection ☐

Achieved by:

Dual
Lift BrakeOSG
Solenoid

Other

Manufacturer	Solenoid Voltage V
Please provide details	

Swipe Card interface ☐ Please supply full details in the "Special Requirements" section on page 7Automatic Rescue Device (UPS) ☐Rescue lift at
reduced speed to:

Nearest Floor & shutdown	Main Floor & shutdown
-----------------------------	--------------------------

Regenerative Drive ☐Engineer's Access Control ☐

Allows safer access to the lift Cartop for maintenance personnel

Advance Brake Lift ☐

Allows Lift Brake to energise whilst lift doors are closing for faster take off

Building Management interface ☐

Please supply full details in the "Special Requirements" section on page 7

Emergency Generator Supply ☐TVC Elevator Monitoring Unit (EMU) ☐TVC Autodialler ☐

EM181

LX8

E-Director ☐

E-Director offers a graphical representation of the Ethos control systems, from simplex to full group

Hospital Priority control ☐

Please supply full details in the "Special Requirements" section on page 7

EN81-20:2014 Compliant Lift ☐EN81-21:2018 Compliant Lift ☐EN81-71:2005 Vandal Resistant Lift ☐

Note: TVC only offer a Robust enclosure, not Certified Vandal resistant

Category 1 Lift

Category 2 Lift

EN81-72:2015 Fire fighting Lift ☐

Note: The landing control panel must be fitted at the FSAL level

EN81-73:2016 Fire Alarm ☐BS9999:2017 Evacuation control ☐

Note: The landing control panel must be fitted at the FSAL level

Lift Consultants' Specification ☐

Specification reference:

Applicable pages:

ANCILLARY ITEMS

Please select all items required to be supplied by TVC with the control system

Overspeed Governor	<input type="checkbox"/>	TVC Standard offering is 300mm Bi-Directional c/w Absolute Enc, 24Vdc Parking & 230Vac Reset Solenoid
OSG Tension Weight	<input type="checkbox"/>	TVC Standard offering is a 45Kg Pit Mounted unit c/w Pulley Wheel
Emergency Stop Switch	<input type="checkbox"/>	
Rubber Electrical Safety Mat	<input type="checkbox"/>	1200mm x 1000mm x 9mm
Pre-wired Limit Switch Tree & Ramp	<input type="checkbox"/>	1 x 4 limit tree, 1 x 3 limit tree & 2.8M Adjustable Ramp
TVC Cartop Control Unit	<input type="checkbox"/>	EN81-20 Compliant
TVC Pit Control Station	<input type="checkbox"/>	EN81-20 Compliant
Cabinet Plinth	<input type="checkbox"/>	<div style="display: inline-block; text-align: center;"> <div style="margin-bottom: 5px;">Height</div> <div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; right: -10px; top: -5px;">→</div> </div> <div style="display: flex; border: 1px solid black; margin: 0 5px;"> <div style="width: 40px; height: 20px;"></div> <div style="width: 40px; height: 20px;"></div> <div style="width: 40px; height: 20px;"></div> </div> <div style="margin-left: 5px;">mm</div> </div> </div>
Cabinet Wall Mounting Brackets	<input type="checkbox"/>	
Lift Fixtures	<input type="checkbox"/>	TVC may contact you to discuss your requirements
LSOH Trailing Flexes	<input type="checkbox"/>	<div style="display: flex; align-items: center;"> <div style="flex-grow: 1; border-bottom: 1px solid black; position: relative;"> <div style="position: absolute; right: -10px; top: -5px;">→</div> </div> <div style="margin: 0 10px;">Lift travel</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 5px;"></div> <div style="margin: 0 10px;">Trailer length</div> <div style="border: 1px solid black; width: 40px; height: 20px; margin: 0 5px;"></div> </div> <p style="text-align: center; margin-top: 5px;"><i>If Trailing Flexes are specified, TVC will supply them suitable for the application; unterminated</i></p>

SPECIAL REQUIREMENTS

Please specify details for any special requirements:

STANDARD FEATURES INCLUDED IN THE CONTROL PANEL**Control Features**

- 110V/230VAC Door detector supply
- Emergency lighting / Alarm supply 12Vdc 1A/hr
- Standard adhesive component labels
- Dewhurst EnBuzz interface
- Dual illumination
- Non-adjustable Thermostat
- Phase failure / phase reversal protection
- Motor thermistor protection
- Door open & door close push indicator outputs
- Alarm Filtering in compliance with EN81-28:2014
- Emergency electrical operation
- ECO mode car light & fan turn off
- Door Nudging (Feature can be enabled via Ethos MMI)
- Advance door opening (Feature can be enabled via Ethos MMI)
- Relevelling (Feature can be enabled via Ethos MMI)
- Volt-free Lift in/out of service & Lift alarm contacts
- Top of Car Termination Box (Including serial Car Module)

Standard Ethos Microprocessor features

- Service control / Car preference
- 90% load weighing
- 110% load weighing
- Emergency recall to fire floor (selected via Ethos MMI), doors dwell closed
- Fire alarm recall to fire floor (selected via Ethos MMI), doors park open (default)
- Homing (floor selected via Ethos MMI)
- Anti nuisance
- Door disable switch
- Prepare to test switch
- Double journey timer
- English language Colour touch screen MMI
- Facility for inserting car & landing calls via Ethos MMI
- Floor position, car direction, doors status & lift status graphical display
- Digital trip counter
- Door nudging buzzer output
- No Entry Indicator Output
- Shaft self-learning for quicker installations

Call pushes

- 24Vdc 3 wire Car & Landing call pushes.
- Maximum power rating for each call push 1W

Controller Mechanics

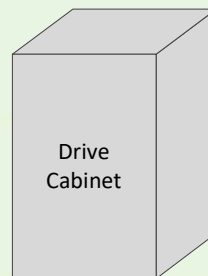
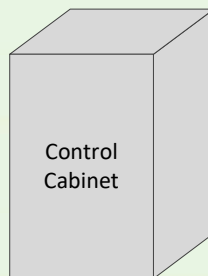
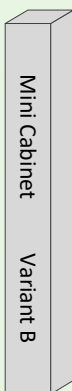
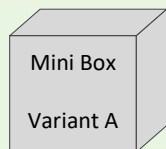
See attached Cabinet enclosure Details sheets for further information

Compliance details

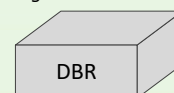
Products are manufactured within a system certified to BS EN ISO9001:2000

Cabinet Enclosure Details

Mini



Note: See details below for DBR resistor when Regenerative unit is used.



	Landing Cabinet **		Control Cabinet	Drive Cabinet	DBR Resistors (Non-Regen)
	Variant A	Variant B			
Height	632 mm	2200 mm	1364 mm	752 mm ***	150 mm
Width	632 mm	160 mm	455 mm	455 mm ***	465 mm
Depth	115 mm	100 mm	158 mm	315 mm ***	300 mm
Material	RAL 7032 Powder Coated	304 Brushed Stainless Steel 240 Grit	Galvanised Steel	Galvanised Steel	Galvanised Steel
Cable entry	Rear	Base/Bottom Rear	Base	Base	Base
Ventilated	Not required	Not required	On both sides & Front	On both sides & Front	All round
Hinged **	LEFT	RIGHT	Lift off Cover	Lift off Cover	Not Applicable
Mounting Site	Landing	Landing Architrave	Lift Shaft	Lift Shaft	Lift Shaft



** Please delete as applicable

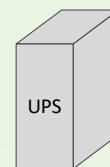
*** Drive cabinet size for upto 30A FLC

Approximate Distance between cabinets

Control Panel Standard features

Consumer Unit	→	Consumer Unit Comprises –
Emergency Stop Switch		30mA RCD
BT Socket		6A Carlight supply
3-Pin 13A Socket		16A Shaft Power supply
Cabinet Light		16A Cabinet power supply
Shaft Light Switch		6A Autodialler supply

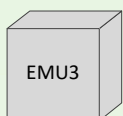
The following UPS is required to be mounted remotely from the above cabinets



Height	271 mm
Width	93 mm
Depth	310 mm
Mounted	Lift Shaft

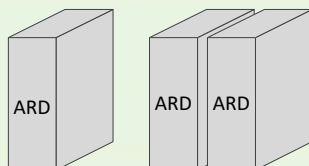
The following features (when requested) are required to be mounted remotely from the above cabinets

TVC Elevator Monitoring Unit (EMU3)



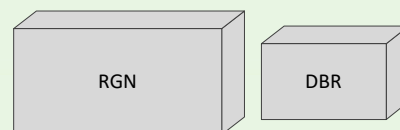
Height	350 mm
Width	350 mm
Depth	100 mm

Automatic Rescue Device (ARD)



	5/6KVA Single unit	8/10KVA Double unit
Height	448 mm	2 x 448 mm
Width	131 mm	2 x 131 mm
Depth	640 mm	2 x 640 mm

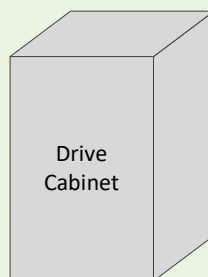
Regenerative Unit (RGN)



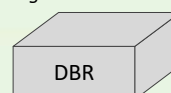
	13KW	26/39KW	DBR (With Regen)
Height	400 mm	828 mm	230 mm
Width	790 mm	376 mm	300 mm
Depth	128 mm	190 mm	185 mm

Cabinet Enclosure Details

Midi



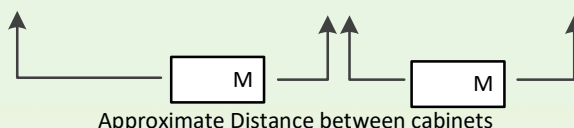
Note: See details below for DBR resistor when Regenerative unit is used.



	Control Cabinet		Drive Cabinet	DBR Resistors (Non-Regen)
Height	2200 mm		752 mm ***	150 mm
Width	500 mm		455 mm ***	465 mm
Depth	200 mm		315 mm ***	300 mm
Material	304 Brushed Stainless Steel 240 Grit		Galvanised Steel	Galvanised Steel
Cable entry	Base/Bottom Rear		Base	Base
Ventilated	Forced Ventilated out of Top rear		On both sides & Front	All round
Hinged **	LEFT	RIGHT	Lift off Cover	Not Applicable
Mounting Site	Landing Architrave		Lift Shaft	Lift Shaft

** Please delete as applicable

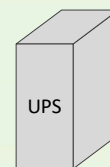
*** Drive cabinet size for upto 30A FLC



Control Panel Standard features

Consumer Unit	→	Consumer Unit Comprises –
Emergency Stop Switch		30mA RCD
BT Socket		6A Carlight supply
3-Pin 13A Socket		16A Shaft Power supply
Cabinet Light		16A Cabinet power supply
Shaft Light Switch		6A Autodialler supply

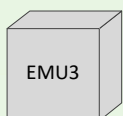
The following UPS is required to be mounted remotely from the above cabinets



Height	271 mm
Width	93 mm
Depth	310 mm
Mounted	Lift Shaft

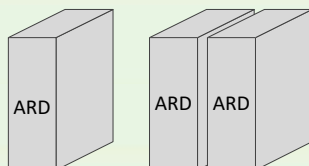
The following features (when requested) are required to be mounted remotely from the above cabinets

TVC Elevator Monitoring Unit (EMU3)



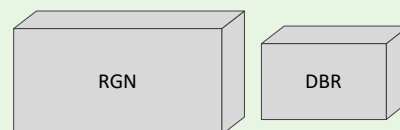
Height	350 mm
Width	350 mm
Depth	100 mm

Automatic Rescue Device (ARD)



	5/6KVA Single unit	8/10KVA Double unit
Height	448 mm	2 x 448 mm
Width	131 mm	2 x 131 mm
Depth	640 mm	2 x 640 mm

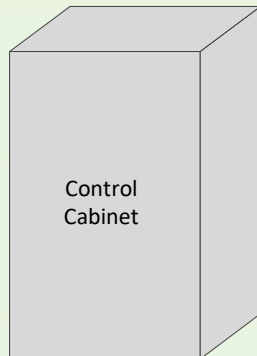
Regenerative Unit (RGN)



	13KW	26/39KW	DBR (With Regen)
Height	400 mm	828 mm	230 mm
Width	790 mm	376 mm	300 mm
Depth	128 mm	190 mm	185 mm

Cabinet Enclosure Details

Maxi

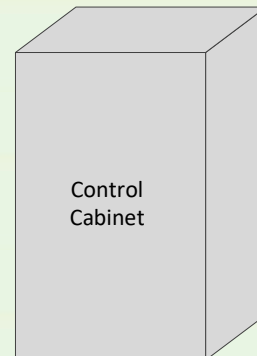


Note: See details below for DBR resistor when Regenerative unit is used.



	Control Cabinet	DBR Resistors (Non-Regen)
Height	2200 mm ***	150 mm
Width	500 mm ***	465 mm
Depth	300 mm ***	300 mm
Material	304 Brushed Stainless Steel 240 Grit	Galvanised Steel
Cable entry	Base/Bottom Rear	Base
Ventilated	Forced Ventilated out of Top rear	All round
Hinged **	LEFT RIGHT	Not Applicable
Mounting Site **	Landing Mounted	Lift Shaft

Hybrid



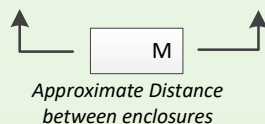
Note: See details below for DBR resistor when Regenerative unit is used.



	Control Cabinet	DBR Resistors (Non-Regen)
Height	1200/1400/1600mm **	150 mm
Width	800 mm	465 mm
Depth	400 mm	300 mm
Material	Powder Coated Mild Steel	Galvanised Steel
Cable entry	Base	Base
Ventilated	On both sides & Front	All round
Hinged	Centre Opening	Not Applicable
Mounting Site	Dedicated room/cupboard	

** Please delete as applicable

*** Control cabinet size for upto 30A FLC

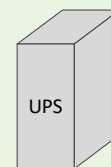


** Please delete as applicable

Control Panel Standard features

Consumer Unit	→	Consumer Unit Comprises –
Emergency Stop Switch		30mA RCD
BT Socket		6A Carlight supply
3-Pin 13A Socket		16A Shaft Power supply
Cabinet Light		16A Cabinet power supply
Shaft Light Switch		6A Autodialler supply

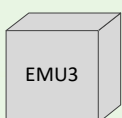
The following UPS is required to be mounted remotely from the above cabinets



Height	271 mm
Width	93 mm
Depth	310 mm
Mounted	Lift Shaft

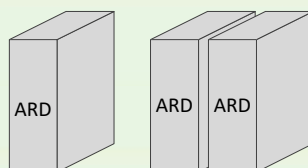
The following features (when requested) are required to be mounted remotely from the above cabinets

TVC Elevator Monitoring Unit (EMU3)



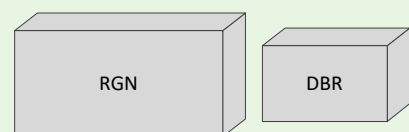
Height	350 mm
Width	350 mm
Depth	100 mm

Automatic Rescue Device (ARD)



	5/6KVA Single unit	8/10KVA Double unit
Height	448 mm	2 x 448 mm
Width	131 mm	2 x 131 mm
Depth	640 mm	2 x 640 mm

Regenerative Unit (RGN)



	13KW	26/39KW	DBR (With Regen)
Height	400 mm	828 mm	230 mm
Width	790 mm	376 mm	300 mm
Depth	128 mm	190 mm	185 mm