

Our ref JH/th/GSQ6006

27 May 2021

For the Attention of Mr. Hamish Ogilvie

Ravensby Glass Co Ltd
Fowler Road
West Pitkerro Industrial Estate
Dundee
DD5 3RU

Email: HFO@densmetals.co.uk

Dear Hamish,

Re: Forel 2500 Insulated Glass Unit Line

Following our recent call, I am pleased to submit our revised supply proposal, together with respective specifications for your appraisal and consideration.

The machinery & equipment contained within this proposal is based upon the manufacturing criteria that you have initially provided but can be modified if required, to suit specific or alternative production processes.

Although Promac offers technical support for office-based software links, we take no control or responsibility for the associated output files and hardware. The customer is entirely responsible for any charges that may be issued by your software supplier.

Preventative maintenance will increase the reliability of your machinery and from as little as £100 a month Promac will provide a service contract for the equipment we have installed after the warranty expires.

If you require any further information, please do not hesitate to contact me directly on 07866 767371.

Yours sincerely

Joe Hague
Promac Group Managing Director

QUOTATION_GSQ6006



CODE	DESCRIPTION	QTY	
	2500 IGU LINE with Two Sealing Robots		
GL00000HT	LINE SERVER PLUS with the possibility of interfacing with the customer production management software	1	
VW00025HT	VERTICAL WASHING MACHINE - H=2500 mm	1	
VWHT-01	Device for washing Low-e glasses, rear side	1	
VWHT-03	Stainless steel entire manufacturing	1	
AB00000ES	Anti-static bar	1	
RO130	Reverse Osmosis Unit 130 Litres per hour	1	
FP04025ES	Frame positioning conveyor with movable sliding bars - L=4000 mm x H=2500 mm Internal room with side access door for rear glass inspection	1	
AT04025ES	T Shape FLEXIBLE SPACER APPLICATOR - L=4000 mm x H=2500 mm	1	
ATHT-01	Diagnostic supervisor system	1	
ATHT-03	Georgian bars processing including conveyor with visual references	1	
ATHT-04	Set-up for printer/marker	1	
000-02	Pane support system with movable bars for Art, AT04020HT	1	
A420i	Domino Inkjet Printer	1	
CT00000ES	CT00000HT TAPE APPLICATOR to seal the last corner of the flexible spacer frame, including conveyor	1	
AP04025ES	FLAT COUPLING PRESS UNIT WITH GAS FILLING - L=4000 mm x H=2500 mm	1	
APES-02	Diagnostic supervisor system	1	
CA00025ES	CORK PADS APPLICATOR - H=2500 mm	1	
SR04025ES	SEALING ROBOT - L=4000 mm x H=2500 mm	1	
SHHT-01	Diagnostic supervisor system	1	
SHHT-03	Sealing of triple insulating glass units	1	
WP00000BG	200 ltr pumping unit	1	
WP00000SM	20 ltr pumping unit	1	
SH04025ES	HOT MELT SEALING ROBOT - L=4000 mm x H=2500 mm	1	
SRES-01	Diagnostic supervisor system	1	
SRES-03	Sealing of triple insulating glass units	1	
AH00000ES	HOT-MELT pumping unit Blocks	1	
LCHT-01	Air cushion conveying system (to be applied to each conveyor where applicable)	4	
	Transport 5 Standard HGV Trailers Required	5	



SALES TERMS

Training: Operation, machine settings & functions:
TBC regarding this entire project.

Availability: Estimated Delivery January 2022

Installation: **Forel Technician**
TBC

Installation and Training **Promac Technicians**
Included

Transport & Carriage: Approximately €5,200 per trailer TBC
Includes insurance

Warranty:

All new machinery is covered by our comprehensive 24-month warranty which includes mechanical and electrical parts, super structure and labour, based on a 40-hour working week.

Warranty Exclusions:

Wearing parts, consumable items, tooling, calibration and programming.
Any damage caused as a result of wilful neglect, misuse or abuse and third-party accessories or software connected or fitted without prior written authorisation from Promac Window Machinery Sales Ltd.

Customers Responsibilities and Provision

In advance of the machine's arrival and where applicable the provision of electric, pneumatic, water and drainage service isolators to within two metres of the machinery terminals including any third-party software or output files. All appropriate insurance and liability cover must be in place before the delivery of the equipment to its agreed destination, where applicable the provision of the appropriate lifting equipment and manpower to offload and position the equipment.

Payment Terms

Unless otherwise agreed: -

30% down-payment at order

65% before shipping (Appropriate to the machinery being shipped)

5% After commissioning

(Please note that our payment terms are unaffected by any delay from other third-party suppliers including utility services, software, or output files)

Cont...



Sales Terms Cont...

Continuous Improvement Policy

We reserve the right to amend specifications without notification as part of our continuous improvement policy.

Liability Insurance

Liability Insurance is a legal requirement to do business and forms an essential part of any commercial agreement. To ensure that Promac and our customers are adequately protected our insurers have provided over £15,000,000 of Employers, Public and Product liability cover.

The prices quoted are exclusive of VAT and are valid for thirty days,

Please refer to our full terms and conditions which can be viewed on our website
www.promac.co.uk

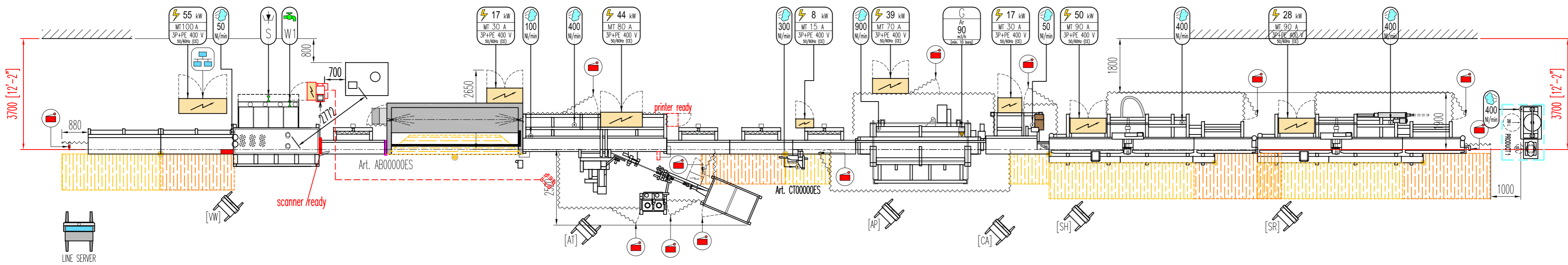
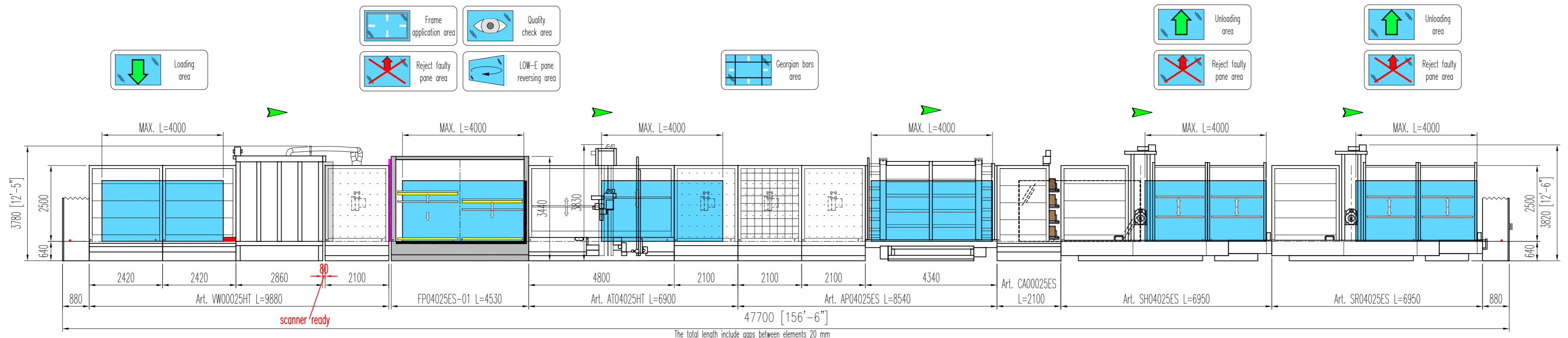
Preventative Maintenance Service Contract

Within this package, Promac Group Service will supply direct technical support on two separate occasions with the express purpose of surveying and servicing the machinery detailed above, This will take the form of a pre-service inspection of the equipment to assess the condition of the machinery and the need for any replacement of consumable or wearing parts, Depending on the requirement, we would offer a 10% discount on any parts involved in the service process, Promac would then visit the site within 2 weeks to perform the particulars gathered from the pre-service inspection.

All the associated service time, including travelling, is free of charge within this proposal, however, if you require any servicing over any given weekend, or bank holiday we would levy an additional service charge at 50% of our published rate.

There should be no requirement to interrupt production during the pre-service inspection other than where necessary for safety.

Dates for the service can be organised by yourself directly with Promac Group Service on 01788 577887.



	Laser scanner
	Safety optical barrier
	Safety guards supplied by the manufacturer
	Safety limit switch
	Ethernet network supply (RJ-45 connector)
	Electrical supply (absorbed maximum: ~80%)
	Transformer supply
	Air supply (peak) Ø1/2" 6÷8 bar
	Water supply
	W1 (Rp 1/2" Ø17 2,5 bar)
	W2 (Rp 1 1/4 Ø40 2,5 bar)
	Water discharge
	S (Rp 1 1/4)
	Gas supply (peak)
	IN=UNI11144 OUT=3/8" Rp

Line Plant made up of:

- Vertical washing machine Art. VW00025HT
- Flexible spacer applicator Art. AT04025HT
- Flat coupling press unit Art. AP04025ES
- Cork pads applicator Art. CA00025ES
- Sealing robot Art. SH04025ES
- Sealing robot Art. SR04025ES

(the conveying surfaces are inclined by 6° with respect to the vertical surface)

TECHNICAL FEATURES OF WORKING PANES ON I.G. LINE	
Minimum pane dimensions	320 x 180 mm
Maximum pane dimensions	4000 x 2000 mm
Single pane thickness	3 ÷ 25 mm
Minimum assembled pane thickness	12 mm (3+6+3)
Maximum assembled pane thickness	65 mm
Assembled pane weight (max.)	200 kg/m

Preliminary Layout

Ver.: 1 -	Date and Place	Stamp and Signature
	Cliente: RAVENSBY GLASS Co. Ltd	
	Cod.: RAVENSBY-14	Date: 27/05/2021 Dis: Loreno S. Scala: 1:100