

FORBES



PLASTICS TANKS AND ENVIRONMENTAL TECHNOLOGIES

QUOTATION – AO/102439/11 – Insight Waste Engineering Ltd

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Staffordshire

For the attention of [REDACTED]

26th November 2021

AO/102439/11

Dear [REDACTED]

We thank you for your recent email enquiry and have pleasure in quoting as follows:

We trust the information provided below will be of interest and assistance however should you require any additional information or you have any queries relating to the quotation, please do not hesitate to contact us.

Yours faithfully

[REDACTED]

IMPORTANT NOTE:

We are currently being faced with large price increases from suppliers for many of our core raw materials. These raw material price increases are being caused by a reduction in polymer production (which were based on manufacturers predictions) however a higher demand for plastics worldwide from many different industries & Countries means demand is currently exceeding supply and the situation continues to intensify.

Unfortunately, as we have no direct control of this situation, we are being forced to pay significantly higher prices for all of our thermoplastic materials in order to ensure the continued supply of our products and we therefore ask for your understanding during these uncertain times as we are unable to guarantee to hold firm our quoted prices beyond the 30 days shown below. Please refer to us for a price check at any time.

ITEM 1 – 30M³ CHEMICAL TANK

1 off 30m³ nominal capacity tank 3000mm internal diameter x 5102mm overall vertical height including a 402mm closed coned top and flat base. Suitable for mounting on a flat base. To be supplied with:-

- 1 x 600mm diameter top manway with bolted cover and gasket
- 1 x 600mm diameter side manway with bolted cover and gasket

All fabricated using black pigmented HDPE (High Density Polyethylene) material – PE100 grade to produce a highly corrosion resistant tank, manufactured using the latest thermoplastic extrusion techniques to produce high quality helically wound cylinder which is free from welded seams and of very strong construction. The tank base is machine welded automatically by a microprocessor controlled extrusion welding producing very strong, high quality welds.

For use with Various Chemicals as detailed on customer enquiry (Max SG 1.2) at ambient temperature at atmospheric pressure.

Note: We have designed these tanks for atmospheric pressure only, and assume the tanks will be vented to atmosphere – If a pressure design is required, we would need to offer in alternative materials, which would give a more expensive tank.

Basic tank cost	£	
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All other fittings will be supplied at an extra cost;

4 x lifting trunnions	£	
1 x external base ring with 8 x hold down clamps	£	
4 x 100mm NB flanged fittings	£	
4 x 80mm NB flanged fittings	£	
4 x 50mm NB flanged fittings	£	
1 x 300mm NB flanged vent with cowl	£	
1 x engraved flexible laminate nameplate		

Total price of fittings as above	£	
Tank price	£	
Total price of each tank with fittings as above	£	

ITEM 2 – 50M³ CHEMICAL TANK

1 off 50m³ nominal capacity tank 3500mm internal diameter x 6219mm overall vertical height including a 469mm closed coned top and flat base. Suitable for mounting on a flat base. To be supplied with:-

- 1 x 600mm diameter top manway with bolted cover and gasket
- 1 x 600mm diameter side manway with bolted cover and gasket

All fabricated as item 1.

For use with Various Chemicals as detailed on customer enquiry (Max SG 1.2) at ambient temperature at atmospheric pressure.

Note: We have designed these tanks for atmospheric pressure only, and assume the tanks will be vented to atmosphere – If a pressure design is required, we would need to offer in alternative materials, which would give a more expensive tank.

Basic tank cost	£	
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All other fittings will be supplied at an extra cost;

4 x lifting trunnions	£	
1 x external base ring with 8 x hold down clamps	£	
4 x 100mm NB flanged fittings	£	
4 x 80mm NB flanged fittings	£	
4 x 50mm NB flanged fittings	£	
1 x 300mm NB flanged vent with cowl	£	
1 x engraved flexible laminate nameplate		

Total price of fittings as above	£	
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Tank price	£	
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Total price of each tank with fittings as above	£	
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Installation

Forbes are now able to offer a full installation service including the management of all aspects of the offloading, positioning and mechanical installation for the above quoted equipment. Our experienced site engineers are fully trained in all aspects of site work (confined spaces, slinger / signaller etc.) and are qualified to CSCS & CPCS standards. A full **Risk Assessment & Method Statement** will be provided prior to commencement of any sitework.

We would be pleased to offer you a quotation for the site installation of the above equipment (subject to completing a full site survey) - please contact us for your free no obligation site survey / quotation.

DOCUMENTATION COSTS

We offer the following documentation packs:

PACK 1 - BASIC PACK (INCLUDING):	
General arrangement drawings	X
Certificate of Conformity	X
Operating & Maintenance Manual (OMM)	X
Handling Instructions	X
PACK 1:	£ [REDACTED]
PACK 2 - FULL PACK (INCLUDING ABOVE PLUS):	
Quality Plan	X
Material Certificates	X
Test Certificates	X
Weld Procedures & Welder Qualifications (If applicable)	X
Data Book	X
PACK 2:	£ [REDACTED]
PACK 3 - DESIGN CALCULATION PACK (INCLUDING ABOVE PLUS):	
Detailed Mechanical Design Calculations	X
PACK 3:	£ [REDACTED]
Please discuss any specific documents not covered above. All documents are provided in an electronic format only, hard copies can be provided at extra cost if necessary.	

TECHNICAL NOTES

GENERAL

The tank is designed using the guidelines set out in DVS 2205 which satisfies the requirements of the latest British & European design standard BS EN 12573:2000. The tank is designed with a safety factor (S) of 1.3 and a design life of 20 years.

The tank is designed to withstand 0.005 bar internal pressure and 0.003 bar vacuum. The shell and roof is designed to withstand snow and wind loadings in the UK.

The black pigmentation gives 100% resistance to U/V light (sunlight).

The helical wound manufacturing process specified produces a cylinder free of welded seams, reducing the risk of leakage and suitable for areas where high levels of hygiene are essential.

The tank is manufactured from virgin polymer which is 100% recyclable to ease end of life disposal issues.

Flanged nozzles will be fitted with stub flanges to BS EN 1092 PN10 with carbon steel backing flanges encapsulated in corrosion resistant glass filled polypropylene (apart from nozzles 300mm NB and larger which will be fitted with flat full face flanges). All flanged fittings up to 100mm NB will be gusseted. Any specific design on nozzle loadings must be fully discussed prior to order placement.

All bolts supplied will be to BS 4190 grade 8.8 hot spun galvanised unless specified otherwise.

All gaskets supplied will be fabricated from EPDM rubber unless specified otherwise.

The tank must be mounted on a firm flat base with cut-out for outlet fittings if applicable.

If the tank is subject to high velocity or high volume feed rates, care must be taken to prevent excessive vibrations being transmitted to the shell.

The tank is **NOT** designed to cater for any uplift forces that may be generated from a bund flooded with rainwater. Any bunds used must be kept dry at all times.

HYDROSTATIC TEST

A full hydrostatic test can be completed either on site (by others) or at our Factory prior to delivery. If the test is required at our Factory, additional costs will be incurred. The hydrostatic test should always be repeated on site after installation.

QUALITY ASSURANCE

Forbes Technologies Ltd operate a Quality Management System which complies with the requirements of ISO 9001:2015 (Certificate No: FM 24188).

COMMERCIAL NOTES

TERMS & CONDITIONS OF SALE

Forbes standard Terms & Conditions of Sale shall apply – unless otherwise agreed in writing.

TERMS OF PAYMENT – SUBJECT TO CREDIT APPROVAL

Pro-forma invoice – Nett payment due immediately on receipt of invoice to allow design / drawings to be completed for approval prior to manufacture.

TERMS OF DELIVERY

All the quoted prices are EX WORKS - KELSO (unless specified otherwise).

Delivery period - TO BE DISCUSSED AND AGREED - delivery times can usually be tailored to meet your specific requirements.

NB: No items can be scheduled for production until full manufacturing details have been approved. To improve delivery times please include nozzle orientation drawings with your order.

If once an order is in production the customer should either amend or put the order on hold, any production delays will be charged for at an extra cost per day.

QUOTATION VALIDITY

The prices stated on this quotation will remain fixed and open for acceptance within 30 days of the date shown.

V.A.T.

All the above quoted prices are subject to the addition of V.A.T. at the current rate.

Please confirm your end-user status under the CIS Domestic VAT Reverse Charge. If you are not the end-user, please provide us with your UTR/CIS and VAT Numbers for our records.

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