UNIFLOTES

THE VERSATILE FLOTATION SYSTEM

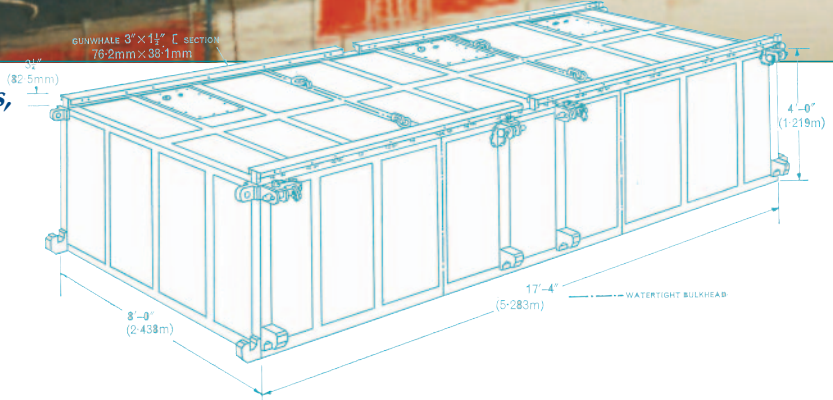
The Uniflote was conceived as a flotation system, based on Unit Construction principles in which numbers of units could be assembled together to form rafts or barges of various load carrying capacities. They can be used to form landing stages, roll-on-roll-off terminals and to carry land-based plant such as crawler cranes, pile drivers and excavators for marine works. The rafts are all composed of a number of identical rectangular units.

Uniflote rafts are extremely adaptable. The size and shape of individual rafts can be varied to meet most requirements. For craning all around a raft, a square or H shape may be most suitable. For pile driving or dredging rafts are often made in a U shape with the plant operating between the arms of the U. Other applications may be best suited with the plant operating through an aperture left in the centre of the raft.

Trim and stability calculations are relatively simple so that raft size and shape can be speedily selected to suit the application.

Accessories available include:

FENDERS	*To prevent damage*
SPUD LEGS	*To secure the raft in position*
BOLLARDS	*To secure ropes and hawsers*
SADDLES	*For secure mounting of equipment*
WINCHES	*For mooring the raft*



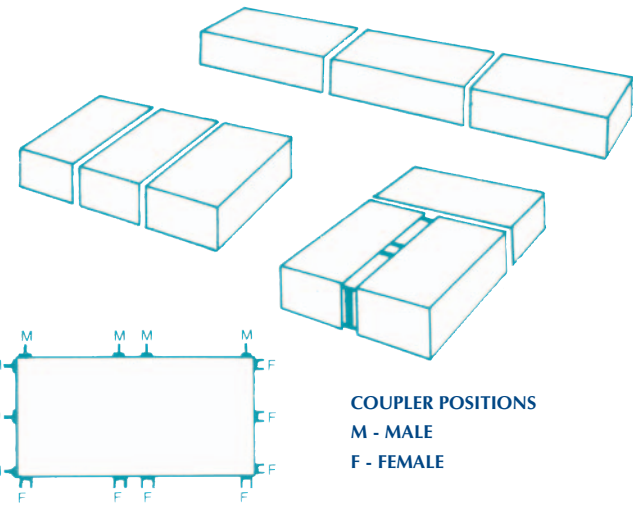
For a quote on hiring Uniflotes or advice on loadings, stability or trim, please contact your local depot.

KIER PLANT

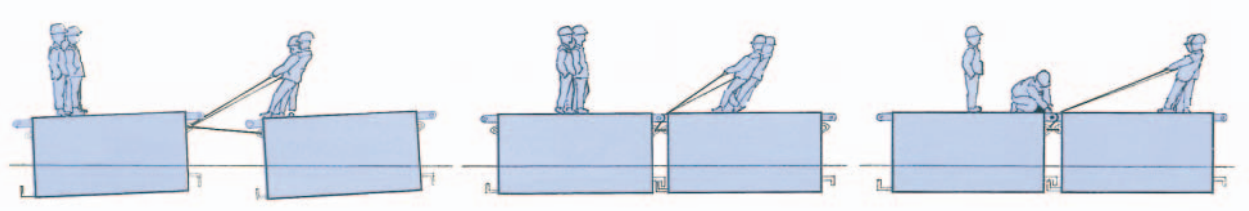
A member of the KIER GROUP

CONNECTING UNIFLOTES

Couplers are placed so that connection is possible end to end, side to side, or end to side. The exact layout will depend on the application, and the load distribution. It is normally safe to couple up to 4 Uniflotes end to end in a raft, and up to 6 Uniflotes side to side. A check on bending movement and shear load will show whether couplers could be overloaded. In applications such as a landing stage which may need to be 8 or more Uniflotes long, it may be necessary to relieve the bending moment by inserting articulating connectors, usually after a block of four end-coupled Uniflotes.



COUPLER POSITIONS
M - MALE
F - FEMALE



Uniflotes are connected in the water from deck level. To couple two Uniflotes, 2 men should be stationed on each.

By applying their weight over the male couplers Uniflotes tilt sufficiently to allow the bottom upturned hooks to pass under the downturned hooks

After the Uniflotes have been pulled together, the men shift their position so that the Uniflotes return to the horizontal thus engaging the bottom hooks.

Finally locking pins are fitted to the couplers.

It is imperative when assembling a raft that all coupling is done at one time along a line of couplers. It is not possible to make an end and side connection simultaneously in the manner illustrated. For example in a 9 Uniflote raft 3 long, 3 wide, the sequence would be to end couple three rows of three Uniflotes, and then side couple each row of three.

KIER PLANT
A member of the KIER GROUP

KIER PLANT DEPOTS

SOUTH EAST
Unit 2, Standard Industrial Estate, Henley Road, North Woolwich, London, E16 2ES
TEL: 0207 511 8646 FAX: 0207 511 8643
woolwich.plant@kier.co.uk

WESTERN
Sharpness Ship Yard, Berkeley, Gloucester, GL13 9UD
TEL: 01453 811911 FAX: 01453 811611
sharpness.plant@kier.co.uk

MIDLANDS
Chawston Lane, Chawston, Bedfordshire, MK44 3BH
TEL: 01480 477177 FAX: 01480 477277
chawston.plant@kier.co.uk

NORTH EAST
Moor Lane Trading Estate, Sherburn-in-Elmet, Yorkshire, LS25 6ES
TEL: 01977 684950 FAX: 01977 684880
sherburn.plant@kier.co.uk

NORTH WEST
Yardley Road, Knowsley Industrial Park, Kirkby, Liverpool, L33 7ST
TEL: 0151 548 5683 FAX: 0151 548 5688
liverpool.plant@kier.co.uk

SCOTLAND
Buchanan Business Park, Cumbernauld Road, Stepps, Glasgow, G33 6HZ
TEL: 0141 779 1531 FAX: 0141 779 1541
glasgow.plant@kier.co.uk

SETCH WORKSHOP & DEPOT
Setchey, Kings Lynn, Norfolk, PE33 0AX
TEL: 01553 811450 FAX: 01553 811451
setch.plant@kier.co.uk

HEAD OFFICE
Chawston Lane, Chawston, Bedfordshire, MK44 3BH
TEL: 01480 477800 FAX: 01480 477888