



Mailing address: Jiangdong Industrial Zone,
Xiaoshan District, Hangzhou City, Zhejiang Province
Website: www.unicrane.net

TEL: +86-(0)571-82986188#60
Fax: +86-(0)571-82985299
E-mail: unicrane@unicrane.net

Unicrane Machinery CO., Ltd

Your professional moulds manufacturer,
because we know segment and concrete well.



2014. July Issue II

Mega construction for Hong Kong:

Tuen Mun- Chek Lap Kok Link Northern Connection Sub-sea
Tunnel Section-

OD17m x 1.7m x **0.7m** (12pcs/ring)

One complete full set of 17m x 1.7m x 0.7m (12pcs mould/ ring):
2 set of 17m steel segment mould will deliver to Wuhu to cast in China



Mailing address: Jiangdong Industrial Zone,
Xiaoshan District, Hangzhou City, Zhejiang Province
Website: www.unicrane.net

TEL: +86-(0)571-82986188#60
Fax: +86-(0)571-82985299
E-mail: unicrane@unicrane.net

Communication Construction Company.



Connection of 17m mould is designed by straight bolt connection with Shear Cones. There is no bolt connection on radial panel.



The thickness of the segment is designed with 700mm thick; this is designed beyond the expectation of any previous tunnel segment project. Unicrane is strong in our design analyzing by using FEM study and theoretical calculation to calculate the structure design in order to achieve a lighter weight of mould with better vibration performance. The tolerance of the mould is specified as following with such size of the mould:

- Arc length.. = +/- 0.6mm
- Width of the segment. = +/- 0.3mm
- Thickness of the segment. = +0 / - 0.5mm

Unicrane has show to the world that we are the only mould manufacturer who can **achieve with**



Mailing address: Jiangdong Industrial Zone,
Xiaoshan District, Hangzhou City, Zhejiang Province
Website: www.unicrane.net

TEL: +86-(0)571-82986188#60
Fax: +86-(0)571-82985299
E-mail: unicrane@unicrane.net

this tightest tolerance in such huge size of segment mould.



The fabrication period for 2 full set of OD17m mould is completed within 2 months (including design period).

Mould covers are designed in 2 pc section, so the casting of concrete could separate into 2 stages.



Following shows the scale of the mould compare with a 1.7m high person.



Mailing address: Jiangdong Industrial Zone,
Xiaoshan District, Hangzhou City, Zhejiang Province
Website: www.unicrane.net

TEL: +86-(0)571-82986188#60
Fax: +86-(0)571-82985299
E-mail: unicrane@unicrane.net





Mailing address: Jiangdong Industrial Zone,
Xiaoshan District, Hangzhou City, Zhejiang Province
Website: www.unicrane.net

TEL: +86-(0)571-82986188#60
Fax: +86-(0)571-82985299
E-mail: unicrane@unicrane.net



Mould is painted in Unicrane's factory.



Trail master ring assembly in Dragages Bouygues JV's precast yard (OD13.5m x 2.2m x 0.55m).

