Drive Systems and Heavy Movable Structures

World Largest Bascule Bridge at Barcelona Harbour, Spain

Movable Bridges • Gates • Link Spans

...must see!

Greet Joan & RAF

DSD NOELL GMBH
**Erasmusbrug, Rotterdam**
Over River Maas in the City Centre, Netherlands

Built in 1995, DSD NOELL GmbH supplied and installed 2 hydraulic power units, 4 cylinders 600/400x6940 stroke, max. force per cyl. 5300 KN, locking systems and a control system Telemecanique TS 7.

- Length of bascule bridge: 56 m

**Este Barrage, Northern Germany**
Over River Maas in the City Centre, Netherlands

In 1999 DSD NOELL GmbH supplied 1 hydraulic power unit, 2 cylinder 500/360x10600 stroke, max. force per cyl. 5300 KN, locking systems and a control system Telemecanique TS 7.

**Tarragona Bridge, Spain**

In 1999 DSD NOELL GmbH supplied 2 HPU’s with 165 KW, 4 cylinder 500/300x4000 stroke, max. force per cyl. 3100 KN 4 pivot bearings 600, locking devices, dampers Control system: Simatic S7-400, Profibus, visualisation

- Width of bascule bridge opening: 80 m

**Estacio Bridge, Murcia, Spain**

In 2002 DSD NOELL GmbH supplied 2 HPU’s with 110 KW, 4 cylinder 460/280x3900 stroke, max. force per cyl. 2200 KN 4 Pivot bearings 440, locking devices, dampers Control system: Simatic S7-400, Profibus, visualisation

- Width of bascule bridge opening: 65 m
Ferry Landing Bridges, Yantai, Dalian East-China
for Railways, Trucks and Passangers

In 2006 DSD NOELL GmbH supplied and installed 2 hydraulic power units with oil conditioning system and oil coolers, 4 centre lifting cylinders Ø700/260x4850 with stroke measuring system and control block, lifting capacity of 6530 kN each. 4 shipside lifting cylinders Ø480/200x7100 with stroke measuring system and control block, lifting capacity of max. 4000 kN each. 4 cylinders with control blocks for rest bars. Plus 16 cylinders for auxiliary functions.

Double Rolling Bridge, Oldenburg Germany
Rehabilitation of Railway Steel Bridge

In 2003 DSD NOELL GmbH supplied and installed, 2 hydraulic power units with 74 KW, 4 cylinder Ø380/260x3620 stroke, max. force per cyl. 1535 KN. Control system: Simatic, visualisation.

Masjed Suleman, Spillway Drives, Iran

In 1995 DSD NOELL GmbH supplied 1 hydraulic power unit 10 cylinder 420/160x17500 stroke

- Gate size 15m wide x 20 m high

Karun 3, Spillway Radial Gates, Iran
Gate size 15m wide x 20 m high

In 2005 DSD NOELL GmbH supplied and installed 2 spillway radial gates, 2 HPUs with 75 KW each, 4 cylinder Ø520/250x11100 stroke, max. force per cyl. 3500 KN, Control system: Simatic S7-300.

Vegesack Ped.Bridge, Bremen Germany

In 1999 DSD NOELL GmbH supplied the complete bascule pedestrian bridge including a wire rope hoisting system. The Architecture of this bridge is of extraordinary nature.

- Bridge opening 19.5 m
New Projects on Hand:

>>> Double Bascule Bridge ALBATROS in Mexico, Lazaro Cardenas

>>> Rehabilitation of 34 m Navigation Lock IRON GATES 1 in Romania

>>> Large Navigation Lock, 40m, with 3 Bascule Bridges, SEVILLA, Spain

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