EQUIPMENT

Our equipment pool is continuously growing – Your solution for every challenge

We offer a wide range of state-of-the-art strand jacks, suitable for a broad spectrum of lifting, lowering and shifting operations. In addition to our standard solutions, we also offer custom solutions specifically tailored to your individual requirements.

Our equipment includes:

Strand jacks

LH12	Capacity:	120 kN
LH80	Capacity:	800 kN
LH200	Capacity:	2000 kN
LH400	Capacity:	4000 kN
LH1000	Capacity:	10,000 kN



Hydraulic pumps

KPU1-2.1	HPU4-14
HPU2-4	HPU4-30
HPU4-9	

SPMT (Self-Propelled Modular Transporter)

4-Axle SPMT	6-Axle SPMT

PPU (Power Pack Units)

PPU Z100 DE	PPU Z390 DA

Payload per axle: 48 to 60 tonnes



For heavy transport in bridge construction and other industrial applications.

Our equipment is specifically designed to carry out demanding lifting, lowering and shifting operations efficiently and precisely.

INNOVATIVE SOLUTIONS AND PRECISE EXECUTION

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Our certifications

DSD Heavy Lift AG is proud to set and meet high industry standards.

Our certifications include:

- SCC Safety Certificate for Contractors
- EN ISO 9001 und ISO 14001
- Authorisation for the handling of ionising radiation

Contact us for more information about our technical capabilities.
We're happy to support your next control-systems projects.

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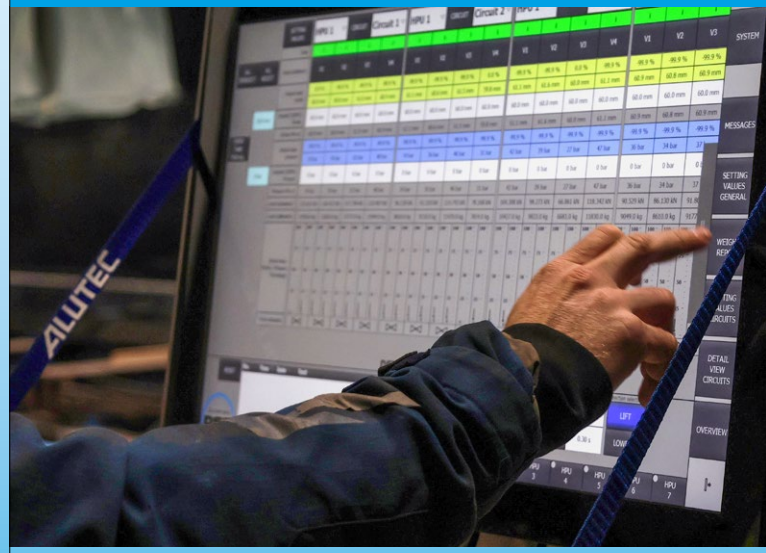
DSD HEAVY LIFT

Heavy loads, innovative solutions: Your partner for success without limits!

We operate worldwide in various heavy lifting sectors, including bridge and power plant construction, the nuclear industry, building and industrial facilities, tunnelling, SPMT transport, offshore and marine projects, waterway and shipping infrastructure, and much more.

With us, receive everything from a single source – from planning, assembly and execution to deconstruction and removal.

CONTROL SYSTEMS ENGINEERING



www.dsd-heavylift.com



LOCK GATES TIP THE SCALES

5th Lock Chamber, Kiel Canal (NOK) - Brunsbüttel (DE)

For the 5th lock chamber on the Kiel Canal (NOK) in Brunsbüttel, three identical lock gates were built. Two gates are used for daily operations (inner and outer gates) while a third gate is held in reserve for maintenance and emergencies. The lock gates were manufactured in Plauen (DE) and assembled in Emden (DE).

To ensure the gates were optimally prepared for both transport and future operation, they were weighed using a **specially developed weighing procedure**. These measurements were essential for calculations including:

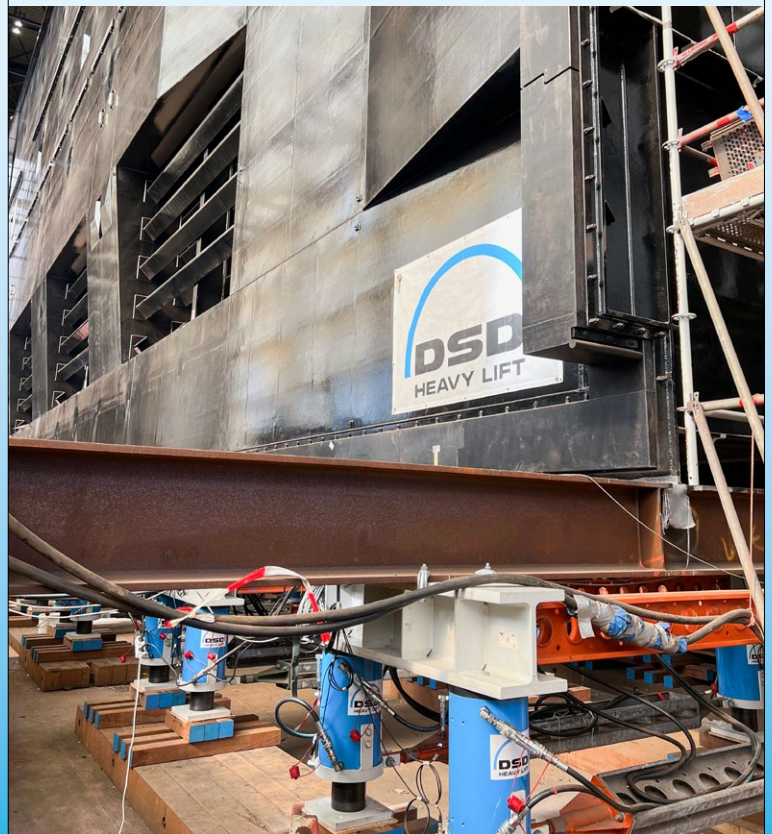
- buoyancy during water transport,
- load and force distribution during operation,
- and ballasting for flotation stability.

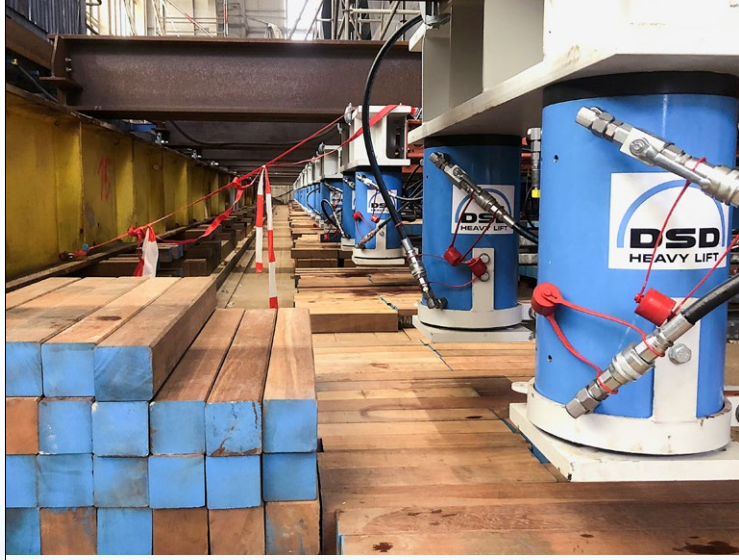
PRECISE WEIGHING FOR MAXIMUM SECURITY

Each gate weighs approx. **2,200 tonnes,** has a **height of 24 metres, a length of 47 metres and a width of 10 metres.** All gates were weighed in fully assembled condition, including steel structure, coating, drives and electrical/hydraulic systems. Components to be installed later, such as flood protection, were weighed separately and added to the total.

Weighing was carried out under controlled conditions in the production hall to eliminate external interferences (e.g. wind, floor vibration).

To ensure independent floatation, the hollow chambers were filled with precisely calculated amounts of ballast.





HIGHEST PRECISION THANKS TO CALIBRATED MEASUREMENT TECHNOLOGY

The weight of the three lock gates was determined using our **specially developed programmable logic controller (PLC)**. A total of **128 synchronised hydraulic presses** were used. Each press was equipped with pressure and stroke sensors to accurately measure the weight distribution. To ensure precise results, each lock gate was weighed three times. The required measurement tolerance was 1%, but thanks to our technology we achieved an **accuracy of +/- 0.2 %.**

Our innovative weighing method ensures that the lock gates can be commissioned safely and efficiently.

We are your reliable partner for all types of control engineering projects. Whether for complex systems or automation solutions, we implement complex construction projects efficiently with innovative solutions and an experienced team.

Rely on our expertise for your next control systems projects.