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 during assembly and disassembly, and relocation of tunnel boring machines (TBMs). 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
HPU2-4
HPU4-9
HPU4-14
HPU4-30

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 tunnelling projects.

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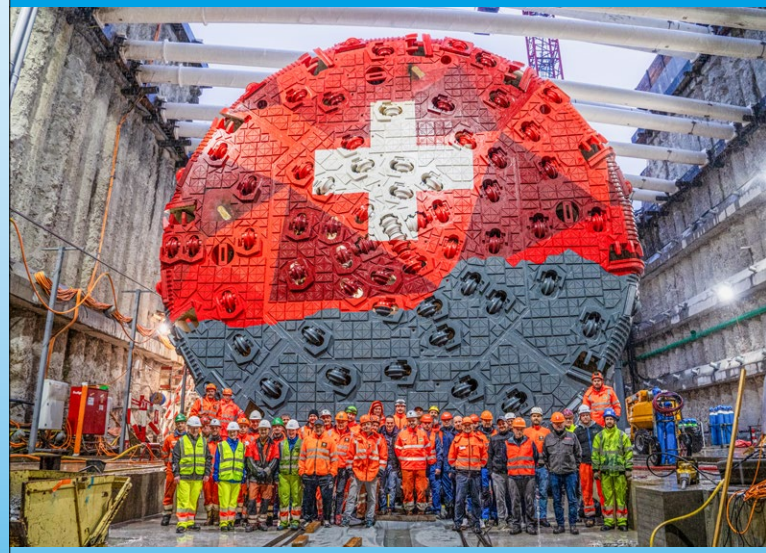
DSD HEAVY LIFT

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

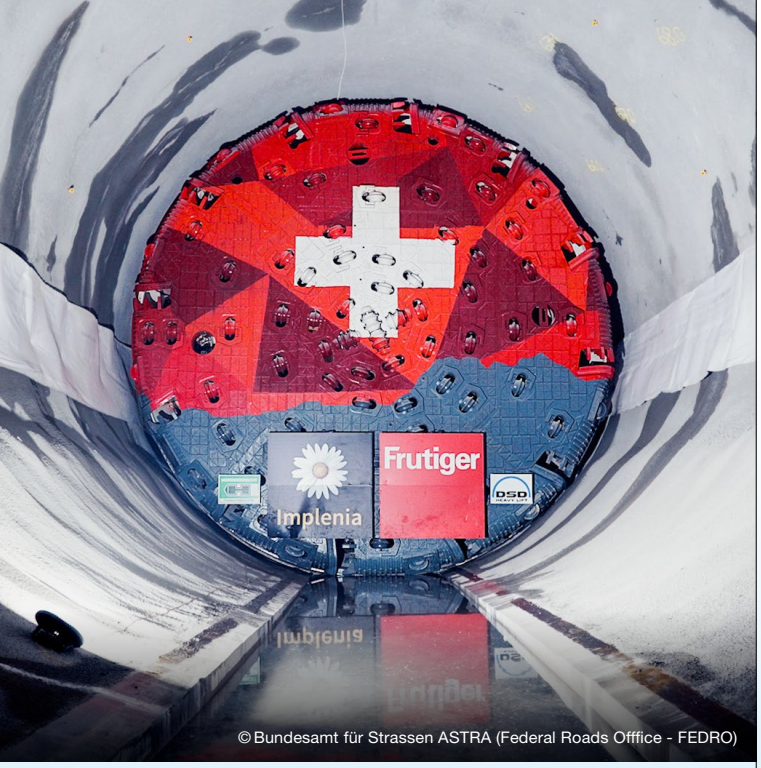
We operate worldwide in various heavy lifting sectors, including bridge and power plant construction, the nuclear industry, building and industrial facilities, tunnelling, SPMT transport, offshore and marine projects, waterway and shipping infrastructure, and much more.

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

TUNNELLING



www.dsd-heavylift.com



© Bundesamt für Strassen ASTRA (Federal Roads Office - FEDRO)

YOUR PARTNER IN TUNNELLING SOLUTIONS

For complex tunnelling tasks, we offer customised solutions for **assembly, disassembly, shifting and SPMT transport.** Our services include the use of **portal systems, strand jacks, special presses, shifting system and SPMT,** all specifically developed for handling tunnel boring machines (TBM) and other heavy machinery.

Thanks to our developed systems, machines can be precisely dismantled, assembled, moved and aligned even in confined spaces. These space-saving solutions **minimise tunnel profile enlargement** and contribute to the efficient implementation of all types of projects. High-performance strand jack systems enable the safe handling of extremely heavy loads.

Our solutions are flexible and adaptable to your specific needs.

ASSEMBLY AND SHIFTING

TBM Gotthard - Construction of the Second Tunnel Bore

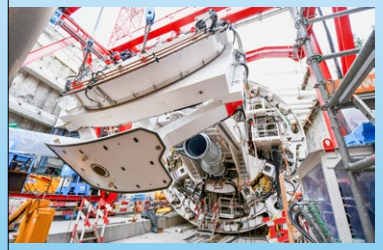
For the construction of the second Gotthard (CH) Tunnel Bore, we handled the demanding assembly and relocation of the tunnel boring machines in Göschenen (CH). Due to limited space, our **specifically developed lifting portal with a 360 tonne capacity** was used.

A particular challenge was the precise lifting of the **355-tonne drilling head,** which was installed with millimetre accuracy while suspended.

Initially, the 110-metre TBM was assembled in stages on an 80-metre pre-assembly platform. The shield machine was then aligned by **4.5 degrees,** and, using our space-saving jacking system, we carefully moved the entire TBM into the tunnel in a controlled manner.

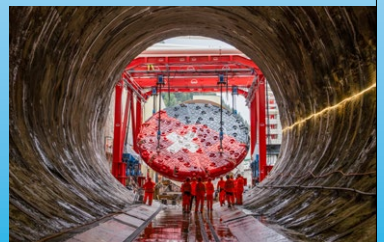
In total, **1,800 tonnes were moved over 410 metres,** 375 metres of which were within the tunnel. The average shifting speed was 7 m/h, with a maximum of up to **20 m/h**.

We set new standards with our innovative solutions.













DECONSTRUCTION AND REMOVAL

TBM “Delia” - Access Tunnel Fault Zone South Second Gotthard Road Tunnel

After reaching the geological fault zone in Airolo (CH), we handled the deconstruction of the TBM “Delia” shield machine in the access tunnel for the second Gotthard Road Tunnel. Once the **600-tonne shield machine** had reached its final tunnel position, we used our strand jack system to extract it from the bore position.

For the disassembly, our specially developed, **space-saving portal structure** was used, allowing the shield machine to be dismantled step by step into the largest possible components. Special emphasis was placed on dismantling the machine in a way that ensured the safe and efficient removal of the parts from the tunnel.

We are your partner for any tunnelling project. Whether for assembly, deconstruction, shifting or SPMT transport, we implement complex construction projects efficiently with innovative solutions and an experienced team.

Rely on our expertise for your next tunnelling projects.