

DVL

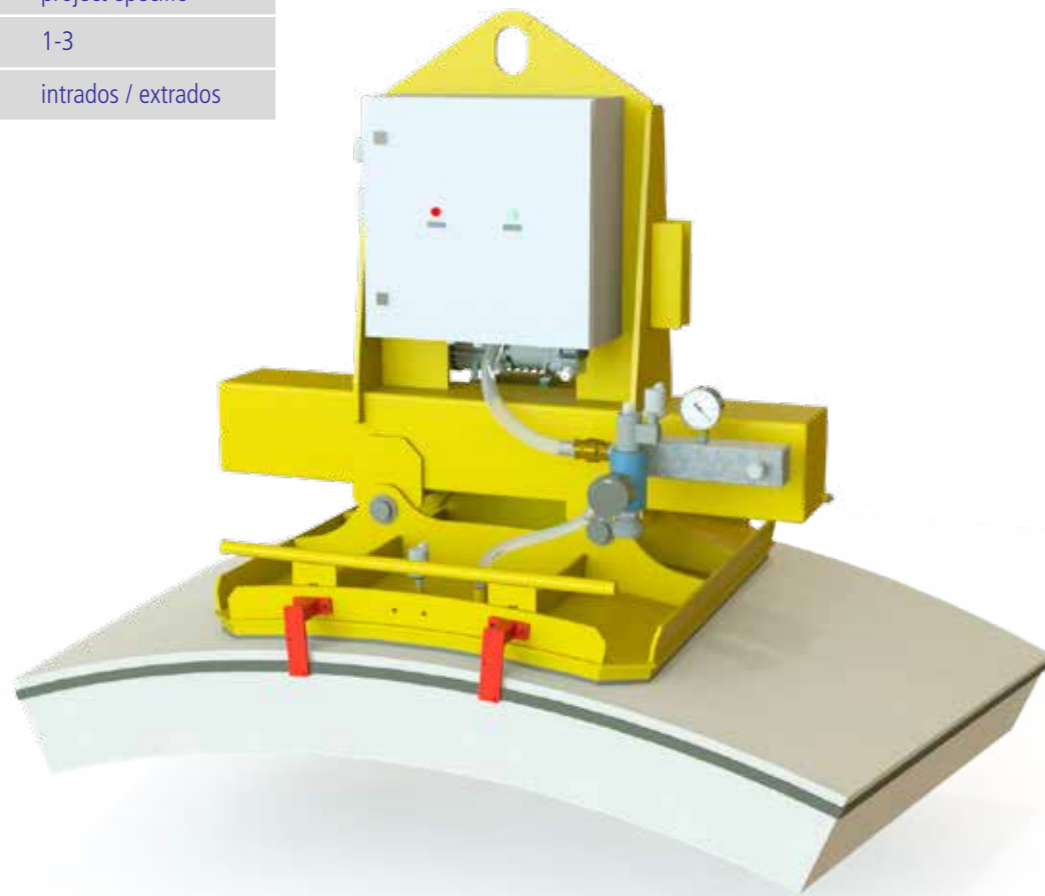
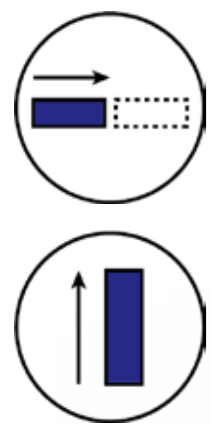
Vacuum lifter



DVL

Demoulding - transporting - stacking; the DEVO vacuum lifter is our versatile and proven solution for your handling work. We can adapt the number and shape of the vacuum plates to your individual idea and application fields. Intelligent vacuum monitoring and the integration of two vacuum circuits (optional) also make the DVL safe and versatile. The basic configurations of the DVL series predominantly serve to lift pre-cast concrete segments. Attached to a crane unit, the translatory linear delivery is also enabled not only in horizontal, but also in vertical direction. The DVL series is used above all for simple transport requirements in the manufacture and general handling of the pre-cast concrete segments. The system is available in external vacuuming (extrados) or internal vacuuming (intrados) design.

TECHNICAL DATA	DVL
Payload	≤28'000 kg
Vacuum plate size	project-specific
Number of vacuum plates	1-3
Vacuum plate shape	intrados / extrados

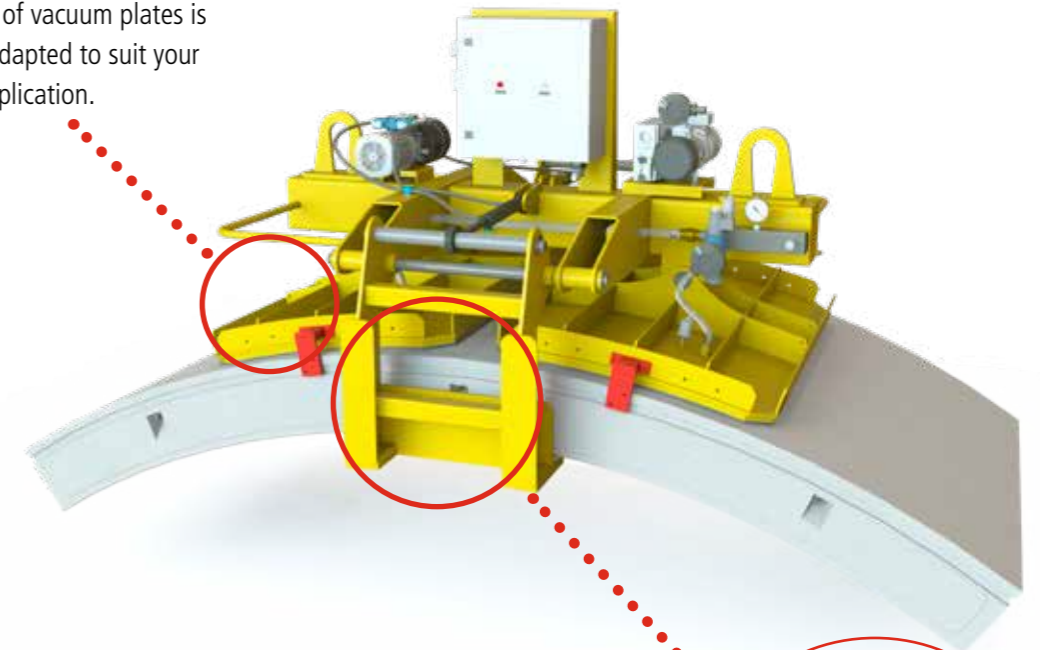


BASIC CONFIGURATION

The basic configuration of the DVL enables the uncomplicated vacuuming and lifting of a pre-cast concrete segment.

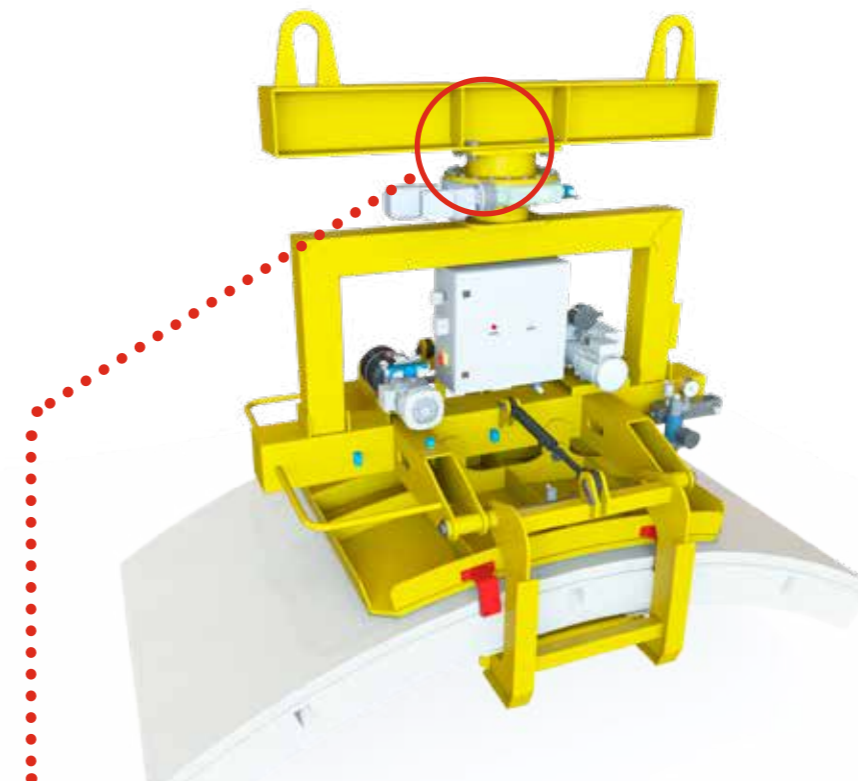
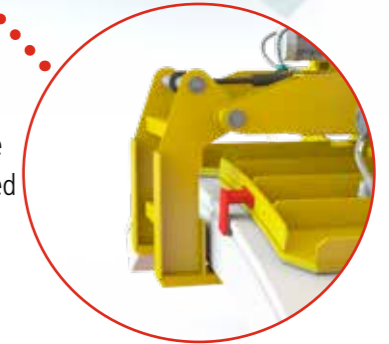
VACUUM PLATES

The type and number of vacuum plates is variable and can be adapted to suit your ideas and fields of application.



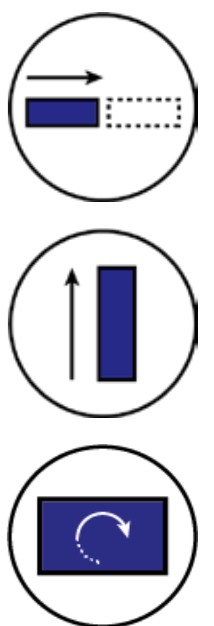
MECHANICAL RESTRAINT

Upon request, the basic configuration can be equipped with a mechanical clamp to additionally secure the concrete segment as an extra safety measure in the event of increased safety requirements and/or a possible interruption of the power supply.



ROTATION

The suspension of the DEVO vacuum lifter can also be equipped with a rotation option round the vertical axis of up to 360° upon request.



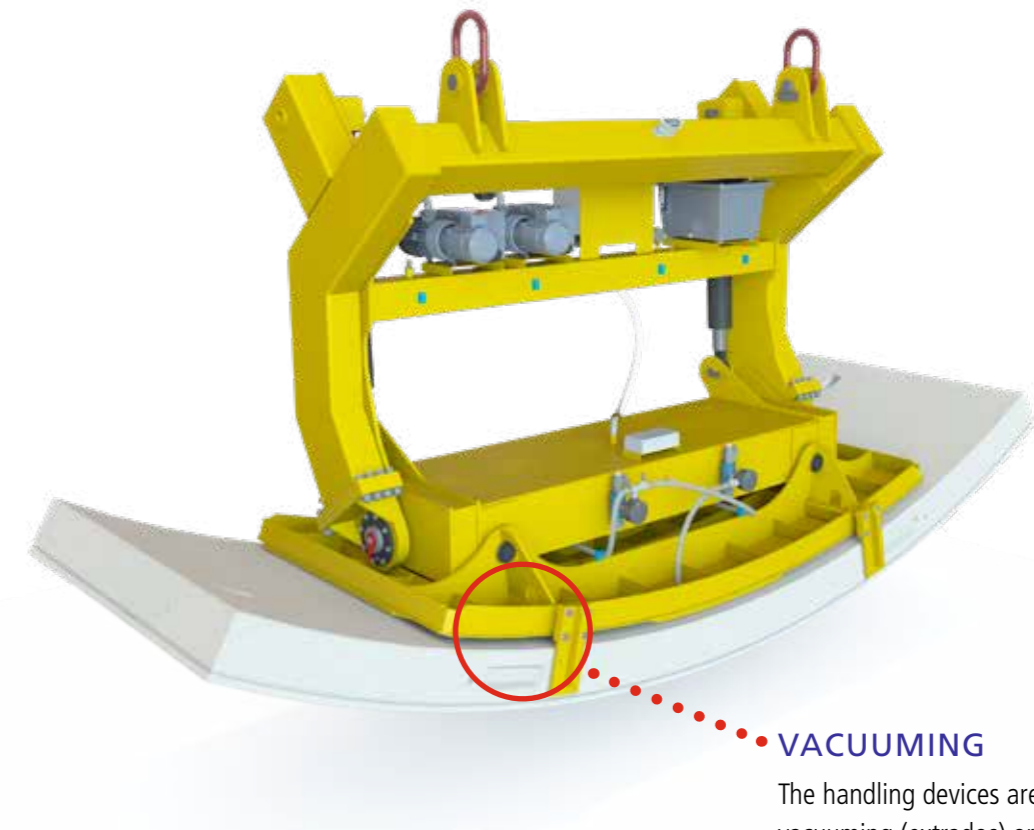
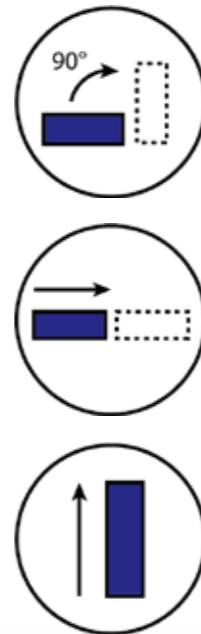
DVL - 90

The DVL-90 vacuum lifter, as an extension of the DVL series, is equipped with an additional swivel function. In addition to the purely translatory linear movements in horizontal and vertical direction, this enables the swivelling round the longitudinal axis of the pre-cast concrete segments by up to 90°.

The DVL-90 vacuum lifter is mainly used in areas where partial turning or erection of the pre-cast concrete segments is required. Demoulding and partial turning of the pre-cast concrete segments take place combined into one step.

The system is available in external vacuuming (extrados) or internal vacuuming (intrados) design.

TECHNICAL DATA	DVL-90
Payload	≤28'000 kg
Vacuum plate size	project-specific
Number of vacuum plates	1-3
Vacuum plate shape	intrados / extrados
Turning time	approx. 30s

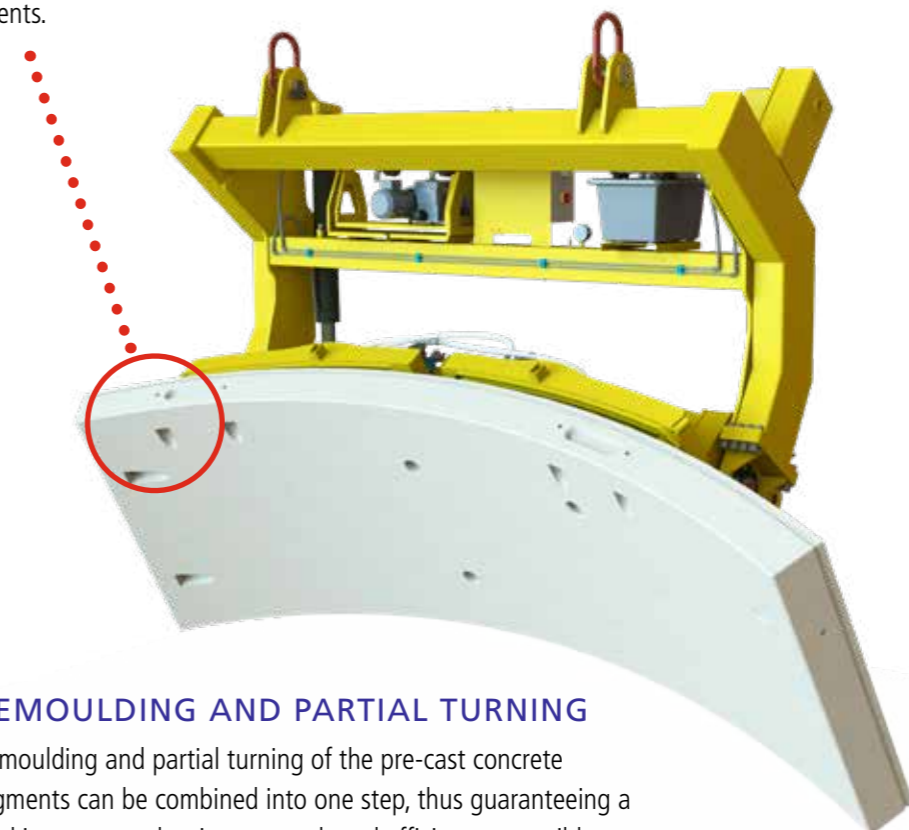


VACUUMING

The handling devices are available in external vacuuming (extrados) or internal vacuuming (intrados) design.

RECESSES

In order to rule out the possibility of a loss of vacuum, we adapt our vacuum plate design to the recesses of your concrete segments.



DEMOULDING AND PARTIAL TURNING

Demoulding and partial turning of the pre-cast concrete segments can be combined into one step, thus guaranteeing a working process that is as smooth and efficient as possible.



VACUUM RESERVE TANK

In order to rationally perform the vacuuming process, the DVL-90 is equipped with an additional vacuum reserve tank, allowing short cycle times.

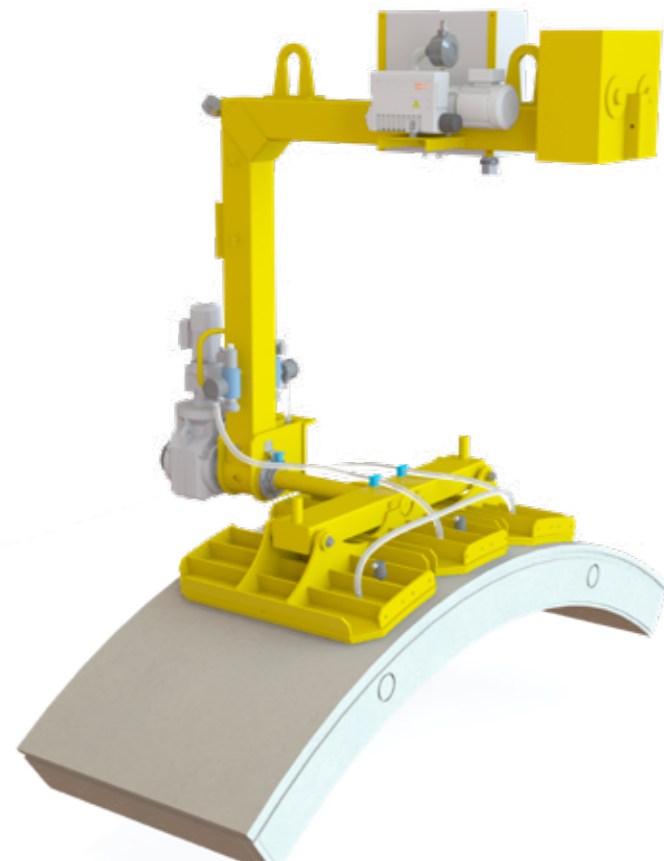
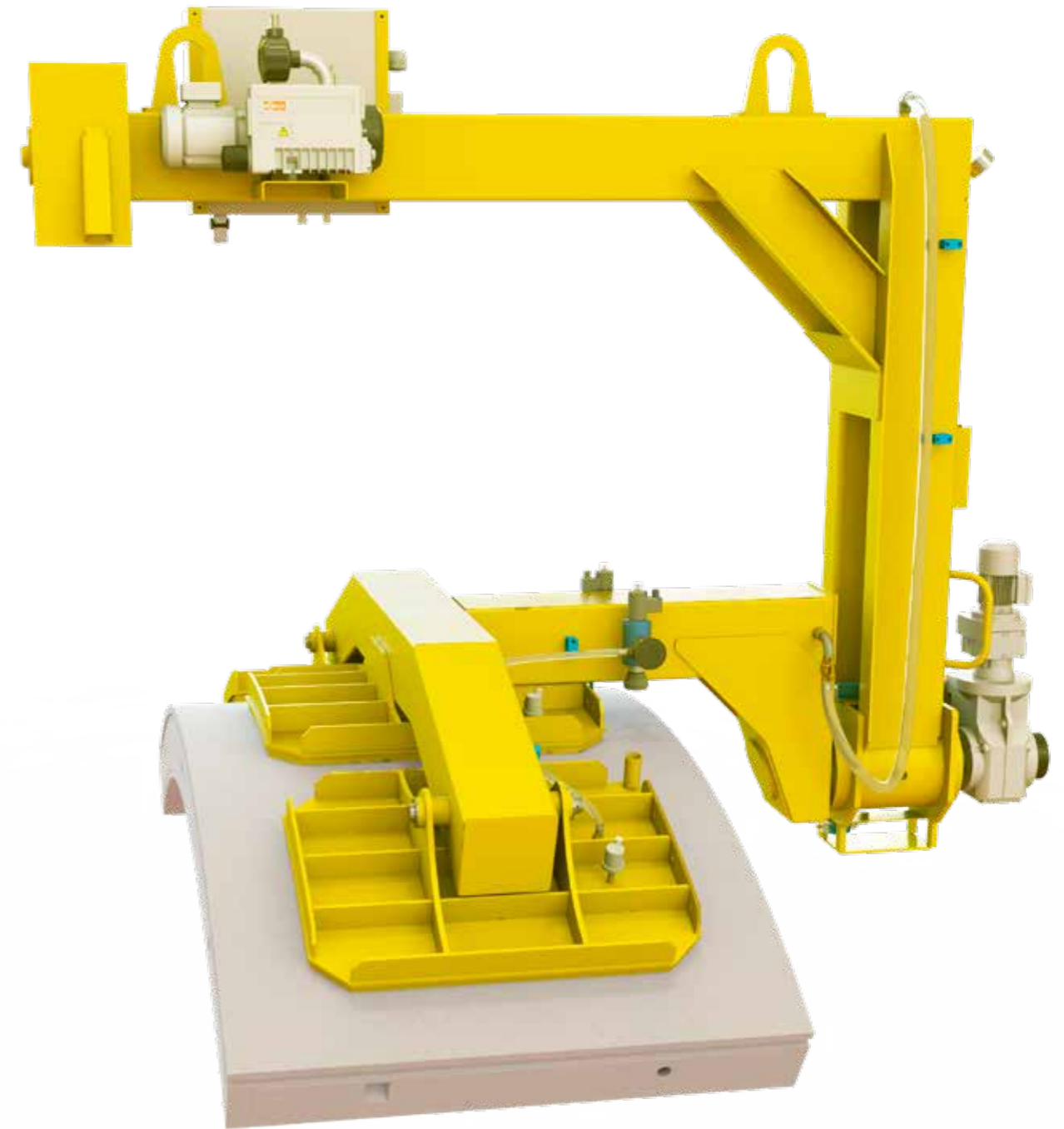
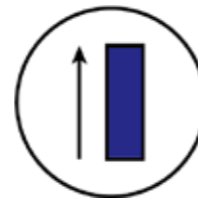
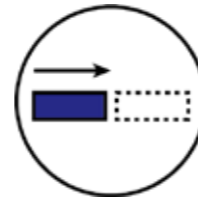
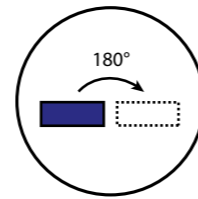
DVL - 180

The DVL-180 vacuum lifter, also a configuration of the DVL series, has a turning function. This enables the pre-cast concrete segment to be turned by 180° in one working cycle.

The DVL - 180 is used above all on smaller tunnel construction sites. We can produce the appropriate supports for the pre-cast concrete segments for you upon request.

The vacuum turning beam DVL-180 brings a high degree of benefit for cost-saving pre-cast concrete segment production as a demoulding device with 180° turning function.

TECHNICAL DATA	DVL-180 (small)	DVL-180 (large)
Payload	≤ 1400 kg	≤ 3000 kg
Vacuum plate size	project-specific	project-specific
Vacuum plate shape	intrados / extrados	intrados / extrados
Number of vacuum plates	1-3	1-3
Turning time	approx. 30s	approx. 30s





Bogota (COL)



 Eppenberg (CH)
 Bülchen (CH)



Sotchi (RU)



Bosslertunnel (D)



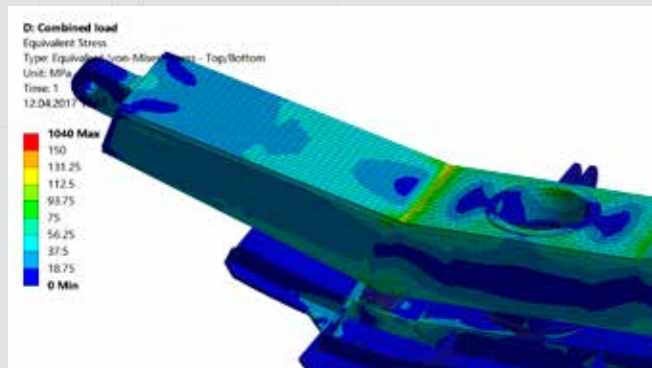
Koraln (AUT)

PROJEKT MANAGEMENT / ENGINEERING

MANUFACTURING

ASSEMBLING

AFTER SALES SERVICE



- Quality Management ISO 9001
- Concept studies, simulation, documentation
- State of the art software (Solidworks, Ansys, Eplan, ...)



- Qualified manufacturing processes
- 90% Inhouse manufacturing
- EN 1090 certified conformity



- Experienced and highly trained personnel
- In-depth understanding of the overall TBM
- Field experience from diverse variety of former project implementations



- Quick reaction time
- Professional project support
- Vast international experience

DEVO-TECH - YOUR PARTNER FOR TBM EQUIPMENT



With more than 20 years of expertise in manufacturing vacuum lifting systems we are the preferred segment handling supplier for the world market leader of tunneling technology. Our devices can lift and transport loads of up to 30,000 kg safely and precisely into any desired position.

With applications ranging from Europe across Asia to even Australia we have proven our vast competence within a variety of international projects. »

WORLD CLASS QUALITY MADE IN SWITZERLAND

Having our core business within the area of special machine construction, most of our products are unique and are specifically customised for the required application. We plan and build the individual solution for your special device from one source. The close cooperation between our engineers, specialist technicians and the production department enables us to provide a system that meets your requirements in all areas.

Our manufacturing comprises an extensive range of machinery meeting the latest technical and quality standards. Given the constant process optimisation in accordance with our ISO 9001 certification, we can guarantee short implementation deadlines and an outstanding price-performance ratio as we do most of the work in-house. Combined with components from our European partners every final product fulfils exceptional quality requirements.



