

COLUMN/GIRDER MOULDS

Vollert 



MADE IN
GERMANY
**ENGINEERING
YOUR
SUCCESS**

 PRECAST CONCRETE PRODUCTION

KNOW-HOW, TECHNOLOGY AND EXPERIENCE MADE IN GERMANY

The latest system technology and outstanding expertise in stationary precast concrete production make us your first choice of contact. We provide the technically leading mould systems for manufacturing walls and slabs, but also for structural concrete elements, such as all kinds of columns, beams, joists or modern staircase components.

THE PRECAST CONCRETE PLANT OF TOMORROW

As one of the leading manufacturers in precast formwork technology, we provide stationary solutions for the production of laminary and structural precast concrete parts. High performance tilting tables and battery moulds for solid and semi-finished parts or column and beam moulds for structural precast elements – for every project requirement we will find a suitable and cost-effective plant concept.

The precast concrete plant of tomorrow will be based on the latest mould technology, optimised process flows and new manufacturing processes. Innovations

provide for more rational working steps, a reduced material usage and a high quality of the precast part.

In this, we always see ourselves as a reliable partner, from the initial design to the turnkey, forward-looking plant concept. We incorporate on an individual basis what the customer wants and we create tailor-made concepts. This is what makes our customers successful on a long-term basis in their markets.



Alexander Kaspar
Senior Sales Manager
Precast Concrete Plants

PRECAST CONCRETE ARCHITECTURE SETS THE TREND WORLDWIDE

The precast building system is state-of-the-art and setting trends worldwide. From the latest designs of single-family homes and multifunctional residential and office complexes through to logistics centres and multi-storey car parks, it is shaping urban architecture all over the world.



HYDRAULIC COLUMN/ GIRDER MOULDS

Vollert hydraulic moulds provide maximum flexibility, because they are available in any length required. As standard, heights of 400 – 1,200 mm and widths of 100 – 1,000 mm are possible, optional height and width extensions can be realised at any time. Whether as a mono or duplex mould – configuration is possible in almost all dimensions to suit your specific requirements.

In this case, the mould consists basically of a formwork base with a fixed centre platform and movable side platforms. Sections of the mould with different lengths can be operated individually or hydraulically by means of coupling plates across the entire length. Using an optional sliding plate, which is connected to the side platform by means of a pulling mechanism, demoulding is made



considerably easier. In this case, the finished concrete element together with the floor mould rests on the sliding plate and is separated from the centre mould surface before lifting out.

Vollert moulds are also available with an additional mould unit for the production of the foundation footings. A pre-stressing unit can also be integrated for the production of pre-stressed concrete elements as well as a heating register. To compact the concrete, vibrators are attached to the steel side formworks or side frame grids. In the KOMBITEC design, a variable installation at the required positions is also possible. In this, the vibrator motors transfer the energy to the mould via a central tube.



- 1 Hall construction in reinforced concrete construction
- 2 Column with foundation footing
- 3 Column row with manifold crane and console variations

VARIETY OF CONFIGURATIONS FOR MANIFOLD MOULDS

MULTI-FUNCTIONAL COLUMN/GIRDER MOULDS

Choose between mono moulds or multi-functional duplex moulds for maximum plant productivity. In this, the side frames are available as mould grates for onsite ply-wood covering or with steel covering.

The construction in the context of bottom formwork, side panels and wall panels is designed so that a variety of concrete elements can be produced on an exceptionally cost effective basis:

- Continuous bottom formwork in a 6 m grid, height-adjustable by up to 25 mm using special supports, easily replaceable if required
- Side panels attachable to the side platform independently of the grid with quick release couplings and at non-specific distances or grid dimensions
- Height of the mould panels: 400, 600, 800, 1,000 or 1,200 mm
- Mould panels of differing length 0.3 – 6 m with ply-wood covering or made of steel with special metal materials for the optimum surface finish of the elements
- Use of special, grid-independent moulds inserts is possible, for crane consoles, for example

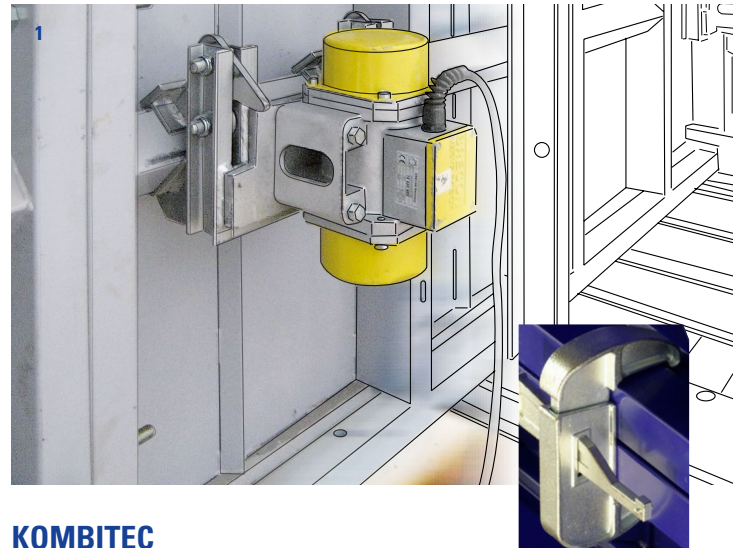


- 1 Column mould with side frame grid
- 2 Duplex column mould with foundation footing

ADDITIONAL SOLUTIONS FOR COLUMN/GIRDER MOULDS

SIMPLE AND MECHANICAL – THE YELLOW LINE

For moulds in the Yellow Line design, the platforms are adjusted and tilted at the side mechanically. The adjustment is done by means of winches. A mechanically adjustable stop absorbs the hydraulic pressure when concreting.



KOMBITEC MOULD SYSTEM

The universally mould panel system is length and height compatible. In this context the optional available KOMBITEC elements are exceptionally variable in the longitudinal and height grid. A configuration to create a cross console in different heights is possible, as well as frame constructions.

The couplings are designed to align the panels area-equal with quick release mechanisms. The integrated central tube guarantees the rapid coupling and the independent positioning of the vibrators. This construction ensures the optimum compaction of the finished element.

- 1 *The KOMBITEC mould system is extremely flexible and variable*
- 2 *Simple and mechanical: the YELLOW LINE*

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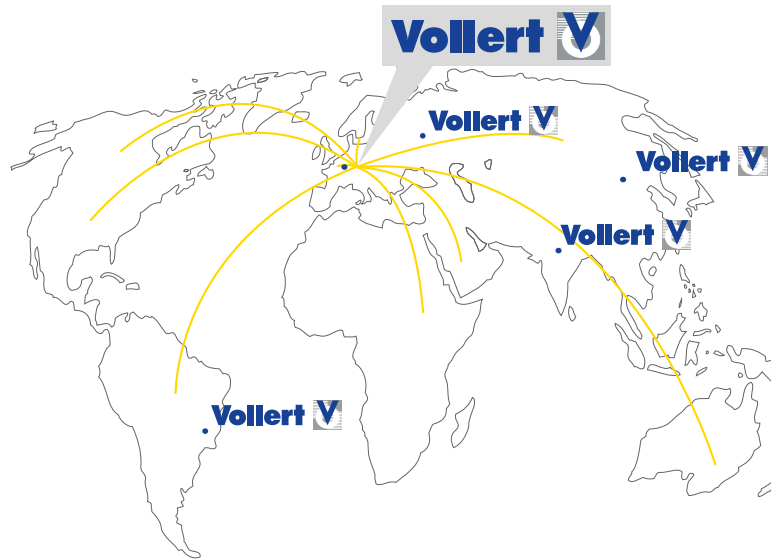
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