For your stationary **precast concrete production** you want a partner that provides you with the latest **mould technology** and plenty of **know-how**.
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, piers or modern staircase components. For multi-functional special moulds, for example for sewer shafts and bridge beams, we have a comprehensive range of models.

We are convinced that Nuspl is the right partner for your project because

• we have experienced engineers and project managers who work with great dedication on your project.
• since 1955 we have provided engineering made in Germany, which is one of the highest quality standards.
• with Vollert, we work closely with a leading plant specialist, that has built over 350 precast concrete plants and has a worldwide presence.

Our numerous customers appreciate this and the direct contact with Nuspl, because the best concept solutions is found by meeting in person.

Alexander Kaspar Hans-Jörg Vollert

As one of the leading manufacturers in precast formwork technology, we provide stationary solutions for the production of German and structural precast concrete parts. High performance tilting tables and battery moulds for solid and semi-finished parts are our focus. We design precast elements, foundry and precast concrete plants.

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.

Know-how, technology and experience made in Germany

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We know what makes precast concrete plants successful.
Moulds and formwork for laminary precast concrete parts

High performance tilting tables, production lines and formwork tables
- Long-line beds, formwork tables and high performance tilting tables for flexible, horizontal manufacture of large area wall/facade components and special parts

Battery moulds
- High performance battery moulds for the vertical manufacture of single-layer laminary wall and slab elements

Column and beam moulds for structural precast concrete parts

Multifunctional moulds for structural columns and beams, pre-tensioned or reinforced – in hydraulic or mechanical design, as single or double version

Stair moulds and special moulds

Special moulds
- Special moulds for any application, for example for light and lift shafts, towers or special concrete parts

Concrete plant equipment
- Comprehensive range of accessories and equipment for the modern precast concrete plant – from formwork pallets, concrete distribution systems, loading beams to transport vehicles and set-down racks

The best equipment for modern concrete plants

Stair moulds
- Technology for modern staircase production in exposed concrete quality – whether vertical, horizontal, overhead or for extra-wide stairs

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High-performance tilting tables for flexible precast concrete production

High-performance tilting tables allow the flexible, horizontal manufacture of wall and façade elements and laminar special parts. Hydraulic tilting joints, fixed with the tilting frame and tilting block, set up the mould surface up to a tilting angle of 83° and ensure stripping without concrete edge failures. First-class exposed concrete surfaces are guaranteed by the plane-ground mould surface.

Whether as version with fixed side rail; with height adjustable side rail in the range of 120 – 350 mm; or as wooden construction mould with height adjustable substructure – the construction is designed so flexibly that any number of wall heights can be manufactured. An extremely solid welding construction made of steel profiles means positioning on even ground without foundations is possible. Torsion stiffness guarantees construction of large dimensions. All current shuttering systems can be used.

There is a selection of various concrete spreading systems for casting the concrete, whether crane-driven, as a bridge or portal concrete distribution systems. We also provide solutions for surface treatment from simple screening to surface finishing systems. Also a combination of a tilting formwork table with a separately movable tilting unit and a mobile elevatable drive is possible. Special high frequency vibrators compact the concrete to make it homogeneously.

Very basic configurations ensure maximum flexibility

The construction is designed so flexibly that numerous solid elements can be produced extremely economically:

• Widths 2.5 – 5 m and lengths of 6 – 100 m at a load per unit area of 500 – 1,000 kg/m²
• Hydraulic tilting block as standard up to a tilting angle of 83°, optional mechanism with overhead crane and a hoisting support
• Removable complete for dispatching in 40’ containers
• Design with high quality flat steel panels or as a mould grid, for example for ply-wood cover and cleaning/milling/polishing tables
• Design with fixed or freely adjustable side rail of 120 – 350 mm (with extension up to a height of 500 mm) or ply-wood frames with height adjustable steel substructure
• High frequency vibrator with grouped vibrator frequency setting for homogeneous compaction of the concrete; also with asymmetric element configurations alternatively pneumatically or hydrostatically
• Heating registers can be integrated in the top structures for hot supply with overhead crane or thermostats, alternatively design with electrical heating possible; thermal insulation can be integrated
• Various other configurations available

To produce particularly large casting areas for up to 100 m in length, tandem tilting tables are used. To do this, a mould bridge is fitted between the tilting tables and connected to the hydraulic system.

In this way, several tilting tables can optionally be synchronised with each other. However, the individually combined tilting tables can also be used individually at any time.
Long-line beds and formwork tables are suitable for the production of solid walls and slabs. Also for smaller series with a different shuttering work or for a frequent shuttering work, these stationary solutions are particularly suitable. They feature a low level of basic investment combined with a simple machine technology. Particularly in low cost countries, it is an interesting first step in the production of precast concrete elements.

Simple formwork tables are a particularly rapid and low-cost solution for producing solid concrete parts. For this, Nuspl provides a welded steel section construction with blank-ground surface, to guarantee a high exposed concrete quality. Fixed or tilted side rails and the variable arrangement of the shuttering system allow individual precast concrete geometries without the need for huge investments. Flexible arrangeable shutters and heating systems provide rapid curing and compaction of the concrete and optimum quality.

The stationary arrangement of several formwork tables in a row produces a production line. As a result, several solid elements can be produced at the same time. Also, all concreting, compaction and tilting processes can be done simultaneously or on more than one workstation. Large plotters, chokers, concrete spreading systems and loading mechanisms can be integrated without any difficulty.

Depending on your requirements, the stationary solutions can be designed tailored to your needs:

- **Widths of 1 – 4 m and lengths of 4 – 100 m at a load per unit area of up to 750 kg/m²**
- **Design with high quality steel cover or as a mould grid, for example for plywood cover and cleaning-, milling- and polishing tables**
- **Design with fixed or freely adjustable side rail of 120 – 350 mm (with extension up to a height of 500 mm) or plywood frames with height adjustable steel substructure**
- **High frequency vibrator with grouped vibrator frequency setting for a homogeneous compaction of the concrete, also for asymmetric element laying; alternative pneumatic or hydraulic compaction**
- **Heating register in the top structure can be integrated for local supply with hot water, steam and thermo oil**
- **Various other configurations available**
Flexible mould construction

Flexible mould construction for versatile precast concrete elements

Nuspl high performance battery moulds are suitable for the vertical production of single-layer, large area wall and slab elements or other large area precast concrete parts with both side mould finish. A large mould area is provided on a relatively small frame area. Shuttering work is minimal, the use of space is maximised, which provides a high system productivity.

Due to the optional integration of the partitions in a chamber, several concrete elements can be manufactured at the same time. Access to the opening casting panels and demoulding are simple due to the construction. Opening and closing of the chambers is either done mechanically or electrically. A specially designed hydraulic system for tightening the individual casting panels as well as its more solid construction even bears the hydrostatic pressure during concreting. A sophisticated vibration system provides the effective compaction of the concrete.

Battery moulds are constructed as mono or duplex configurations. In the duplex version, the fixed centre casting panel is between the moveable casting panels so that the relevant chamber sections can be filled independently. Alternatively, if a production of precast concrete is required close to the construction site, it can provide a semi-mobile battery mould system. Due to the modular construction, it can be dismantled at any time and re-constructed for the next building project again at another site.

Battery moulds for both side mould finish concrete elements

Nuspl high performance battery moulds are suitable for manufacturing reinforced precast elements of various sizes:

- Chamber length up to 10 m, chamber height up to 4.50 m, number of chambers varies depending on the required production capacity
- Construction as mono or duplex battery mould, alternatively as a semi-mobile battery mould
- Gangways and stairways for simple access and working
- Bottom formwork and side shutters made of steel or as a mould grid for plywood covering
- High frequency vibrators, optionally with vibration control, ensure a superb compaction result and highest surface qualities
- Heating system can be integrated into the construction for local supply with hot water, thermo oil and steam, optionally available with heating control system
- Dosing bucket with electrical double flap valve and spiked roller or portal concrete spreader for the efficient spreading of the concrete

Flexible mould construction

Flexible mould construction for versatile precast concrete elements

The concrete chambers are selected with coupling rods for the production process. The intermediate chambers absorb hydrostatic pressure during concreting. The external panels are moved mechanically or electrically and a motorised drive can be integrated as an option. This bottom formwork is adjustable in height, which means concrete elements of different heights are possible.

The outer side formwork is rotatable, which makes the demoulding process easier. Intermediate side shutters can also be integrated without any problem, in addition to insulation, window and door recesses. If required, the individual panels can be reinforced, so that it is possible to fill the chambers successively in a single procedure, or even individual chambers can be filled. The benefit: better quality surface finishes, shorter concreting times and the cost-effective production of small series.

Innovative technology for efficient production processes

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Hydraulic column moulds with maximum flexibility

Nusal hydraulic column moulds provide maximum flexibility, because they are available in any length required. Their standard lengths of 400 – 1,200 mm are available in widths of 100 – 1,000 mm as possible, optional heights and widths can be realised at any time. Whether as a mono or duplex model – configuration is possible in almost all dimensions to fit your specific requirements.

In this case, the mould consists basically of a framework base with a fixed centre platform and movable side platforms. Sections of the mould with different lengths can be separated individually or hydraulically by means of snap-plates along the entire length. Using the optional lifting 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 final mould rests on the lifting plate and is separated from the centre mould surface before lifting out.

Nusal column moulds are also available with an additional mould unit for the production of the foundation bores. A pre-casting unit can still be integrated for the production of pre-stressed concrete elements as well as for heating purposes. To compact the concrete, vibrators are attached to the steel side frames or to the mould grid. 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.

Hydraulic column moulds
Numerous configuration versions for varied column moulds
Choose between mono moulds or multi-functional duplex moulds for maximum productivity. In this, the side frames are available as mould grates for on-site plywood 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 especially 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 plywood 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

The universally mould panel system is length and height compatible. In this context the 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 mould surface 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.

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High precision hydraulic beam moulds for varied concrete elements

Nuspl hydraulically-controlled beam moulds provide you with a variable basic construction for manufacturing high quality concrete elements. In this context, standard or special profiles with different heights can be produced, as I, T or TT cross-sections, and also convertible to rectangular cross-section or V purlin. Specified abutments are required for especially large span widths with up to 1,000 t tension.

Variable basic construction ensures maximum flexibility

The construction with bottom formwork, grid, telescopic supports and upper and lower cord is designed so that numerous concrete elements can be manufactured exceptionally cost-effectively:

- Bottom formwork in steel or ply-wood configuration, that can be exchanged rapidly as required
- Design of upper and lower cord freely selectable
- Prefabricated haunch inserts for a visually appealing and cost effective column support
- Design of upper and lower cords in connection with the side surface for an optimum exposed concrete surface
- Flexible change of frames: from gable roof beams, parallel beams to bridge beams, easy and rapid to convert without use of an indoor crane
- Attachable scaffolding can be integrated as required

The beam heights of 900 – 2,600 mm are continuously adjustable, along with the upper cord widths of up to 900 mm. Depending on the configuration of the beam, a lower cord is integrated, for which no tensioning is required. The web width is defined by the width of the bottom.

The configuration can be completed almost in any dimension according to your individual requirements. With an additional pre-stressing unit, it is possible to produce pre-stressed concrete elements. In this context abutments are integrated at the front end in the factory fase, which directs the tensioning forces onto the ground. More than 1,000 t can be applied to the tension series using hydraulic cylinders. High frequency vibration technology and a heating register with insulation for a homogeneous heat distribution can be installed if required.

Simple moulding and demoulding processes

Hydraulic beam moulds primarily stand out thanks to their very simple moulding and demoulding process, the wide range of launch versions and changes in elements size. Beam heights of up to 1,800 mm are possible without overhead tensioning.

Moreover the hydraulic beam mould is also available in a duplex version which substantially increases the plant productivity.

Optional vibration system

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Simple and mechanical — the Yellow Line

The mechanical mould enables an unimposed reinforcement work as access is available from any side. Beam height and slope can be adjusted easily with winches and a few hand movements. At the same time the tension series can be taken full advantage of, as several beams can be manufactured after each other in one tensioning line.

Steel mould grates or mould grate for ply-wood covering

Beam widths as required

Adjustable beam height

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The assembly of an entry and access landing is easy to realize. A platform set for the entry and access step can be attached at any point on the mould. Two sets of stairs with the addition of a platform can optionally be produced at the same time, clockwise or anticlockwise. The addition of the platform can also be completed on any of the steps.

Precast concrete stairs are nowadays an essential feature in state-of-the-art residential and industrial constructions. Construction times are substantially shortened, a consistently high level of exposed concrete quality is guaranteed and the final assembly is simplified. In this context, Nuspl adjustable stair moulds offer the optimum solution for every requirement. Staircases with or without a landing platform are produced in either the horizontal overhead or vertical position. The going is continuously adjustable between 220 – 320 mm, the riser from 150 – 220 mm, with stair widths of 900 – 1,200 mm. The soffit thickness is variable.

For clockwise and anticlockwise stairs, the individual steps can be adjusted simply by turning. The steps can be designed with a sharp or bevelled edge, and they can be configured at right angles or with an undercut. Up to 17 steps can be produced in the standard design, with an additional extension of up to 24 steps. For wide stairs with two landings, stair ramps are the solution.

Multifunctional Stair moulds for the production of precast stairs in exposed concrete quality

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For clockwise and anticlockwise stairs, the individual steps can be adjusted simply by turning. The steps can be designed with a sharp or bevelled edge, and they can be configured at right angles or with an undercut. Up to 17 steps can be produced in the standard design, with an additional extension of up to 24 steps. For wide stairs with two landings, stair ramps are the solution.
Multifunctional mould systems for the production of TT slabs, bridge beams, sewer, light and lift shafts or special parts

Nuspl provides special moulds for every application. From bridge beams, TT slabs up to sewer shafts or special concrete shapes, our experts develop precisely the most suitable mould system.

Challenge us and we will provide you with the suitable solution.

Bridge beam mould

TT slab mould
Only the best concrete plant equipment ensures efficient, safe production processes

Concrete spreading systems, large plotters, oilers and pallet cleaners

For a smooth, even concrete spreading process, Nuspl provides crane-guided concrete spreading systems (screw buckets, proportioning buckets) and portal concrete spreaders. Crane lifting brackets or attachment points for a stabiliser jig guarantee accurate concrete spreading. A concreting cross-head is also available as an option. Modern large plotters, oilers or pallet cleaners are part of the range of equipment. Always the best choice.

Formwork pallets and special shuttering systems

Modern formwork pallets provide an ideal surface quality thanks to smoothed formwork faces. Modern special demoulding systems provide safe formwork processes for special geometries and dimensions.

Optimum equipment from Nuspl for production of precast concretes

Modern large plotters precisely provide the contours on the pallet cleaner.

Optimal production processes with plant equipment made by Nuspl

Only equipment that is perfectly matched to requirements can ensure smooth, efficient and cost-effective production processes in the concrete plant. From pallets, special shuttering systems to modern concrete spreading systems, large plotters, loading crossheads and transport vehicles, Nuspl provides a wide range of equipment.

We also realise special manufactures exactly according to the customer’s requirements, task-made and right on time.
Loading and handling solutions for efficient production processes

Efficient loading and handling solutions are today indispensable for safe and economic processes in concrete plants.

Loading beams
Nuspl loading beams make light work of loading concrete elements. When used with the remote release hook Nuspl Secure, the crane attachment points can be pneumatically released from floor level, so significantly reducing the risk of accidents.

Transport vehicles, set-down racks and tilting jigs
For the shipping of precast elements as well as for internal handling around the production plant we can supply a wide variety of set-down racks and transport vehicles with sub-axle or swivel-pin steering. We can develop purpose-built products, such as heavy duty models or hoists to customer specifications. High quality robust parts and components minimise wear and ensure that outage and maintenance costs are kept low.