WE SHAPE METAL ACCESSIBLY FOR YOU!

PRODUCT CATALOG

STEEL MOULDS FOR CONCRETE ARMOUR UNITS
STEEL MOULDS AND MACHINERY FOR PRECAST CONCRETE
CEMENT SILOS
The plant M-Konstruktor, established in 1995, specializes in designing and manufacturing:

- Steel moulds and machinery for precast concrete
- Steel framed buildings
- Bolted and welded cement silos

Mastering new technologies of the industry sector, continuous quality improvement and output reliability, supplying our partners with all necessary concrete goods production equipment is the objective of M-Konstruktor. In 2017, the M-Konstruktor company was one of the first to be certified according to the program «Made in Russia». This certification showed that our export products comply with requirements of any buyer or partner, that our products are of high quality, safe and were actually produced in Russia.
M-KONSTRUKTOR HAS EXTENSIVE EXPERIENCE IN SUPPLYING STEEL MOULDS FOR CONCRETE TO EUROPEAN AND WORLDWIDE COMPANIES

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Tetrapods are shaped concrete blocks designed to protect the coastline from erosion. Pouring hydraulic concrete into special steel moulds produces tetrapods. Tetrapod production complies with all-Union State Standard 20425-75.

Tetrapods are sure structures that have proven their effectiveness in coastline protection in different countries. Their special shape gives stableness to the structure and also enables strong coupling among items, which provides a guaranteed protection against the waves. For example, in Japan, where forces of nature show themselves often, the coastline is equipped with «four-legged» that protect it from erosion. Moreover, tetrapods have been widely used to provide protection for port areas and ships.

Assembled tetrapod steel moulds structurally represent four flattened cones joined by bases. M-Konstruktor tetrapod moulds are dismountable. They consist of one lower part – the base – and three shape-forming pieces.
The concrete mixture is poured through the upper neck of the construction. The moulds are made of metal sheets with reinforcement along the outline.

Tetrapod production with M-Konstruktor steel moulds requires adherence to simple process operations: mould coating, mounting, hydraulic concrete pouring, concrete mixture consolidation by tremblers, alternating curing of the product, tetrapod dismantling, mould cleaning up.

Tetrapod steel moulds are a complex technical construction and their production requires high-qualified specialists on every stage.

The quality of tetrapod steel moulds produced by M-Konstruktor is confirmed by International Certificate ISO-9001, according to which all metal products made by M-Konstruktor comply with international technical standards.
M-Konstruktor produces moulds for tetrapod production of any size, permitted by all-Union State Standard: T-0,7; T-1,5; T-3; T-5; T-7.8; T-10; T-13; T-20; T-25 (each number means the weight of the final product in tonnes).

- Tetrapod steel moulds T-0,7
  Weight (kg): 286

- Tetrapod steel moulds T-1,5
  Weight (kg): 450

- Tetrapod steel moulds T-3
  Weight (kg): 750

- Tetrapod steel moulds T-5
  Weight (kg): 1,200

- Tetrapod steel moulds T-7,8
  Weight (kg): 2,000

- Tetrapod steel moulds T-13
  Weight (kg): 2,690

- Tetrapod steel moulds T-20
  Weight (kg): 4,070

- Tetrapod steel moulds T-25
  Weight (kg): 4,705
TETRAPOD STEEL MOULDS
Hexabits are classified as concrete armour units (along with tetrapods, hexagons, xblocs, dolosse, accropodes, etc.) and they are a part of complex shoreline protection facilities of various types and purposes in order to provide required reliability and security when operating water areas, quays and underwater stands.

Hexabits have a complex geometrical shape, are moulded without reinforcement; weight varies from 1 to 40 tonnes.

Depending on the aim of a hydro-technical utility, hexabits are stacked in one layer, two layers, end-to-end, docked, overlapped or metlapped and form coverings which are not used for resort purposes. Wave annihilation effectiveness is equivalent to beaches but unlike those they have a much higher stability and almost do not need any occasional refill.

To produce hexabits, the steel mould is placed on a vibrating table and is prelubed with a special composition which prevents sticking of the concrete to the inner walls of the mould.
The steel mould is filled with concrete which is meant to be used in hydro-technical utilities and whose composition is less exposed to the influence of the harsh environment of sea water.

Tilting tables and hand-held tremblers are used to get a more thorough consolidation of the concrete; if necessary, special areas for tremblers are installed.

A steel mould filled with concrete mixture is put into a steam-curing chamber, where particular conditions are upheld: +60 to +80 °C heat and up to 100% water ratio. Under these conditions, concrete gains its stripping strength in 10-20 hours, which is 20 times faster than under natural setting.

When concrete has gained stripping strength, the demoulding process begins. Locks are opened, some parts of the mould are removed and the other are tipped over and the final product is taken out. After that, the steel mould needs to be cleaned and then can be used again. M-Konstruktor has vast experience in producing steel moulds of various purposes, as well as moulds for the production of the elements for shoreline protection and hydro-technical utilities. High quality of M-Konstruktor steel moulds provides a possibility to produce hexabits with smooth surface and right geometry.

HEXABIT

HK-1, HK-1,5, HK-3, HK-5, HK-7, HK-10, HK-13, HK-20, HK-25, HK-40

* Each number means the weight of the final product in tonnes
LEGO INTERLOCKING BLOCK STEEL MOULDS

Lego interlocking blocks for construction resemble the fragments of the famous LEGO construction set for children. They are made of reinforced concrete and equipped with a groove-spike joint system.

Lego blocks are used for the construction of infrastructural, civil and industrial facilities for various purposes. They make it possible to quickly create high strength capital structures without glue and masonry mortars. The Lego blocks can support not only vertical but also solid horizontal loads due to their specific structural features.

The main advantages of the product are the following:

- Durability and reliability
- Minimal moisture permeability
- Mechanical stress resistance
- Tight fit of parts
- Pronounced strength characteristics

It is possible to speed up the process of construction by several times and lower the costs of works and specialized equipment to a minimum level by using Lego blocks for construction.

The block object is dismantled simply and quickly if necessary.
M-Konstruktor offers steel moulds for Lego blocks of any size. You can purchase standard products or order non-standard modifications according to your own drawings for individual projects. Construction elements made in our moulds always have a perfectly smooth surface, regardless of the configuration complexity, and retain their original structural rigidity throughout their entire service life.

**Standard sizes (cm):**
- FLB 120.60.60
- FLB 150.30.30
- FLB 150.30.60
- FLB 150.60.30
- FLB 150.60.60
- FLB 160.40.40
- FLB 160.40.80
- FLB 160.80.40
- FLB 160.80.80
- FLB 180.30.30
- FLB 180.30.60
- FLB 180.60.30
- FLB 180.60.60
- FLB 240.60.60

**LEGO INTERLOCKING BLOCK**
Jersey barriers are reinforced concrete blocks, which are used in modular and prefabricated conduits to prevent vehicles from slipping off the road and pontilice (bridge, over bridge, trestle, etc.), crossing the separating strip, crashing into another vehicle, hitting a massive obstruction or construction, and are set on the road side and in the easement area.

Traffic barriers are produced in accordance with impact severity as their major feature. Jersey barrier concrete stone impact severity depends on its weight, height and surface form with a variable slope.

The Jersey barriers are produced by pouring concrete mixture into Jersey barrier type steel mould, which is prelubed with a composition in compliance with technological production processes of the customer’s plant, then the reinforcement is laid. Special holes are provided in mould flaps, where elements are put in a certain order to connect final barriers between themselves, thus making a single construction, and to prevent displacement or declination of blocks from each other.
Core drivers are installed. Mould flaps are equipped with rubber gaskets preventing concrete slurry leakage.

Steel mould construction has special areas for installation of the tremblers that provide air outlet and better quality of mixture consolidation. Upon concrete shrinkage, the product is kept until it gets its stripping strength.

Before demoulding, it is necessary to remove beams, load carrying core drivers, veneer tie direction bushings, and external screw core drivers removed from the flaps. The final product is taken out from the mould mechanically.
STEEL MOULDS
FOR ROAD CONSTRUCTION

Road slab steel moulds
Weight (kg): 1,150
Road slab steel mould can be one-placed or two-placed.

Water channels and road gullies
Weight (kg): 1,940
We manufacture an extensive range of water channels and road gullies suitable for the effective management of waste water on site.

Traffic barrier steel moulds
Weight (kg): 1,550
Common purpose permanent or temporary concrete traffic barriers.
STEEL MOULDS
FOR JERSEY BARRIERS AND WATER CHANNELS
Microtunneling technology came into common use in utility systems laying, especially where it is not possible to execute it in a standard way. The technology is of particular interest for utility systems arrangement under restrained urban conditions, under motorways, water storages, railways, and airport runways as well as under historical cultural centers. A tunneling shield extracts some amount of land from a target depth without damaging the land surface.

Jacking equipment forces microtunneling pipes of a certain diameter right after the tunneling shield. Microtunneling concrete pipes specification needs to be of significant durability and freeze resistance, and microtunneling pipe moulds have to comply with strict requirements of the final product.

Microtunneling pipe mould installation, produced by our company, consists of the following subunits:

— Stationary stand, which serves to position the pallet and inner shell one opposite another
— The pallet, which is the lower forming element and which centers the outer shell
— Outer shell, equipped with locks and guiding rails for concrete pipes’ size restriction
— Inner shell, equipped with a movable cam with hydraulic control
— Moulding ring to form the upper edge of the concrete product
— Valve bonnet, which prevents inner space from concrete mixture leakage and directs the concrete
— Hydraulic cylinders by means of which the cam is moved inside the inner shell
— Flow dividers, which provide simultaneous work of hydraulic cylinders
— Traverses

Our company offers pipe mould production for trenchless technology of our own design according to specific technical requirements.

High control on every level of concrete mould production guarantees the required quality of each concrete item.

Microtunneling pipes installation price depends on many factors and is calculated individually. Our experts are ready to swiftly calculate the price for concrete pipes equipment according to your technical requirements.

* YOU CAN ORDER 600 TO 3000 MM DIAMETER CONCRETE PIPES MOULD FROM US.
THE MOULDS HAVE FOLDABLE MANDRELS WHICH ALLOWS THE FINAL PRODUCT TO BE DEMOULDED EASILY.

MICROTUNNELLING PIPE
Steel mould for concrete pipe diameter 1,000 mm, equipped with hydraulic inner shutters

Circular pipe and culvert mould
Weight (kg): 6,400

The plant M-Konstruktor produces moulds to offers premium quality standard circular pipe and culvert. All goods produced by M-Konstruktor are certified in accordance with international quality standard ISO 9001.

Precast concrete goods, produced with M-Konstruktor moulds and in accordance with technical requirements of the corporate customer, are of the highest characteristics, have smooth surface and perfect shape.
MICROTUNNELING PIPE STEEL MOULDS
Hollowcore concrete slabs are precast, pre-stressed concrete elements that are generally used for flooring.

Hollowcore concrete slabs production line — a modular structure equipped with a device for tensioning the reinforcement. With its help it is possible to produce precast concrete flooring slabs of sizes 10, 12 and 15. The width is set by shifting the longitudinal bead of the equipment. The total length of the equipment is from 15 to 100 m.

Expanded-clay concrete wall panels are easy to install, have high performance characteristics and are widely used in precast concrete construction.

Production line of hollowcore concrete slabs

Steel moulds for the production of wall panels (with the addition of expanded clay)
Weight (kg): 3,888
STEEL MOULDS FOR
CONCRETE PILES OF SQUARE AND TRAPEZOIDAL SECTIONS

Pile steel moulds (capacity, place 6)
Weight (kg): 5,900

Pile steel moulds (capacity, places 2)
Weight (kg): 6,800

M-Konstruktor steel moulds of rectangular section with 90° angles of plane can be produced in two-place moulds.

Foundation wall block steel moulds
Weight (kg): 1,100
Battery mould is a part of industrial complex equipment, which is used when concrete goods are produced by cassette method. The idea of cassette method is that the panels are vertically formed in separable cassette moulds.

Concrete strength is gained in the same moulds. This way of manufacturing is used when producing intermediate concrete slabs, balcony slabs, internal load-bearing panels and airbricks. Vertical moulding method makes it possible to achieve high quality surface and trueness to size, which is extremely important while producing interior use panels. Moreover, cassette method is distinguished by high volume production capability and rather small labor costs.

Battery moulds are cassette supporting structures in industrial complex and have a function of assembling and demoulding final panels.

Demoulding installation includes the following structural parts: machine walls (front and back), support beams, a pumping unit, a frame attached to the levers, a hydraulic motor, electrical equipment, a balancer.
Thermal panels provide goods to gain concrete strength in cassette installations. Water or vapor can be used as a thermal medium. The number of frame bays in battery mould depends on the concrete goods production volume per day.

M-Konstruktor battery moulds meet the security standards while deliberate control elements and eliminate the risk of operating personnel injury (while meeting security means).

The price of battery mould depends on building panel size, needed amount of frame bays, hydraulics connecting and electrical diagrams, and other characteristics. The exact price can be obtained from sales department experts upon providing technical requirements.

M-Konstruktor produces battery moulds for cassette installations of any size.
Cross-functional tilting table is an industrial complex element for concrete goods production with magnetic timbering. With the help of magnetic equipment and a tilting table, it is possible to produce almost any reinforced concrete products (non-stressed, flat) for buildings construction, including non-standard constructions.

Tilting tables can be used both in large-scale production plants and in small enterprises. With them it is possible to produce internal and external wall panels, columns, piles, products for elevator shafts, ceiling slabs and any flat non-standard products, etc.

Structurally, a cross-functional tilting table is a steel mould, which has a T-piece profile as the stiffening core. T-shape cross direction profile connected with stiffening core (welded) reinforces the construction. The hinged frame, on which the table is placed, runs on an axis by means of telescopic cylinders, greatly simplifying the dismantling of the products. Rubber vibration suppressors separate the worktop from the hinged frame.
The accepted deviation of the forming surface from the plane is 2 mm by 3 meters. The bearing capacity of the table is 1,000 kg/m². The surface of the table is made of 10 mm thick high-hardness steel; the surface can be up to 4 m wide, and up to 12 m lengthwise.

If necessary, the concrete equipment (tables) can be assembled into a line of the required length. The configuration of the tilting table can vary depending on the needs of the employer. A hydraulic unit, a trembler, telescopic cylinders, thermal rails, skirtings, safety chains, a control cabinet and an interlocking panel apparatus can be additionally installed.

The cost of tilting tables depends on the configuration and is specified by the specialists of the sales department.

Cross-functional tilting tables are a good buy, which does not require large investments, allowing to produce a variety of high quality concrete goods.
**VIBRATING TABLES AND PATTENS**

Vibrating patterns
- Weight (kg): 670
- Carrying capacity 3.7 t, with 2 vibrators, dimensions: 1600×830×730 mm

Vibrating tables
- Weight (kg): 2,140
- Carrying capacity 3.5 t, with 3 vibrators, dimensions: 3200×2000×660 mm
TILTING TABLES
FOR PRECAST CONCRETE
Cross-functional stationary casting bed and production tables are the ultimate solution for the production of a small number of massive concrete products, which involves frequent movement of timbering.

Technological simplicity of manufacturing concrete products, relatively low costs, and easy operation are the main advantages of this equipment.

Using stationary casting bed and production table make it possible to produce reinforced concrete products without prestressed reinforcement: piles, wall panels, staircases, lift shaft panels and other configuration parts. Stands are often used together with magnetic timbering (such production method is much cheaper than when using timbering together with vibrating table).
The heating system and the trembler ensure thorough consolidation and hardening of the concrete mix. By installing several stands in a row, you can get a moulding line of the required length.

The constructional simplicity of M-Konstruktor stationary casting bed and production table ensures equipment reliability. The stand consists of a support frame, which is installed on a concrete base, a working surface and a heating system. The device is equipped with supporting frames that are fixed to the concrete with adjustable anchor bolts. Pins connect the segments of the stationary casting bed and production table with each other. The length of each segment is 10 meters, the width is 3-4 meters, the work surface height is 1,054 mm, and the weight is 7,450 kg. Built-in cone centralizers at the ends of the working surface exclude combined segments’ level differences.

Stands can be equipped with segmented skirtings, the length of the segment is 5-6 m. The skirtings height varies from 160 to 400 mm.
Steel moulds for concrete slatted floors

Weight (kg): 4,125

M-Konstruktor produces steel moulds for concrete slatted floors. The mould is equipped with a vibrating frame on springs and platforms for mounting vibrators, which reduces the time to manufacture the product and guarantees high quality compaction of the concrete mix. Concrete slabs of ideal geometry, ease of demoulding and manufacturability of the production process – all these are steel moulds by M-Konstruktor.

We also produce steel moulds for concrete slatted floors equipped with plastic opening-forming elements. Because of lower adhesion between plastic and concrete, it is easier to demould the finished product; besides that, plastic surface requires no additional treatment with a special agent.
STATIONARY CASTING BED AND PRODUCTION TABLE
CASTING MACHINE FOR SUPPORT BEAMS

Beams are used in construction almost everywhere. The beam is a two-point supporting structure product. Support beams can differ in types of sections (bar, box-type, T-beam, L-beam, etc.).

M-Konstruktor company produces casting machines for the production of precast concrete supporting beams without prestressing with segmented inserts, which allows, if necessary, to change the number and configuration of produced beams.

The casting machine is very versatile, since it allows the manufacturing of beams of different sections and lengths.
Reinforced concrete floor beams are widely used in the construction of residential, commercial and industrial buildings and structures.

The precast concrete beams are characterized by a high strength and rigidity, thanks to the use of strong grades of concrete and reinforcement, ordinary or pre-stressed. These products reliably cover long spans. During operation, they do not vibrate and do not deform. Besides this, the precast concrete beams have a high degree of moisture and fire resistance.

The M-Konstruktor plant produces steel moulds for precast concrete L- and T-shaped beams.
STAIR STEEL MOULDS

Stair flight production is widely used as the key element of concrete stairs in general-purpose building and industrial structures. The name «stair flight» comes from such constructions being continuous rows of steps.

Our company offers the production of steel moulds for stair flights and landings, as well as stair flights with landings and steps. We are ready to carry out the project in accordance with all-Union State Standard or individual layouts complying with the building design.

Basically, stair flights can be divided into several types. Depending on the needed quantity of the final product, horizontal and vertical ways of producing stair flights are used. Vertical steel moulds can produce two items simultaneously, while horizontal moulds produce only one item at a time. Stair flights with landings can be both moulded horizontally and vertically. To mould LMP horizontally, special stands are used.
Standard stair flights can be produced with or without landings. Our company’s capability allows us to produce both types. When ordering stair flights, you need to know beforehand if any extra equipment such as divider, jacket or tremblers is needed. Jackets provide faster consolidation of the concrete mix in case when moulds are not put into the steaming chamber. Pervibrator or stand trembler can reduce concrete voids.

Stair flight mould is equipped with hinged skirtings, which provide delicate removal of the final product without being damaged. Such stair flight mould configuration guarantees final product of high quality. Steps mould is also in high demand. This option would fit you when it is not possible to install solid stair flight, e.g. when the stairs have increased load on them or there is a heavy rise of stairs.
STAIR STEEL MOULDS

Steel moulds for production of stair flights with landings
Weight (kg): 3,500
If needed, moulds can be equipped with jackets and tremblers.

Horizontal moulds
Weight (kg): 1,513
Horizontal steel moulds for production of stair flights with height adjustable skirting and with adjustable width.
And horizontal steel moulds, used with magnetic boards.
STAIR STEEL MOULDS
VESTILATION SHAFTS
STEEL MOULDS

Horizontal steel moulds for ventilation shafts
Moulds are equipped with folding sides, which allows you to easily pull out finished products without damage. The moulds can be equipped with steam jackets and be adjustable for smaller lengths of ventilation shafts.

Vertical steel moulds for ventilation shafts
Four-seated moulds of ventilation shafts for vertical moulding. Punches of this shape are extracted by crane vertically, after which the sides of the mould are reclined and it is possible to remove finished products.

Punches removing installation
The punches in this installation are extracted from the unmoulded product. After removing the punches, the mould with the product is removed from the vibrating cabinet for further processing. And the following mould is put on the installation, punches are inserted into it, concrete is poured, the mould is vibrated. After 40-60 minutes, punches are extracted and the process is repeated.
Steel moulds for lift shafts
Large lift shaft production unit for freight and passenger lifts is a heated external timbering and a displacement tube.

Steel moulds for lift shaft panel production
Weight (kg): 1,900
Standard steel moulds with dismountable inserts, dismountable elements forming openings and filling pieces, which makes possible changing the size of the final product, are used for prefabricated lift shafts.
Retaining walls are widely used to hold soil and other fill material in the required position. Reinforced detached concrete retaining walls, installed on a natural bed on the territory of an enterprise or a sea port, are used for the construction of fill material storage facilities.

In industrial engineering, retaining walls are used to fence platforms on varied levels and to make ditch cuts and earth fills when constructing railways and motorways.

Hydro-technical utilities made of retaining walls form shipway and fishway tunnels, quays adjoining shoreline with streambed in access channels.

Retaining walls are designed in compliance with the requirements of the works, and transportation convenience and installation at least costs are taken into consideration.

M-Konstruktor retaining wall steel moulds meet all the requirements enabling the production of retaining wall elements on or near the construction site.
Reinforcement shape and size and concrete brand requirements depend on the purpose of the construction site. For example, heavy-weight concrete grades are used for retaining walls from 1.2 to 4.8 in height designed to hold bulk materials, while concrete designed for operating in environments with aggressive action on reinforced concrete structures is used for hydro-technical utilities.

The steel mould is placed on a tilting table and is treated with a special composition which prevents concrete from sticking. The reinforcement is laid. Concrete mixture is poured into the mould. The concrete mixture is consolidated by vibration of a tilting table and tremblers, which are provided with special platforms.

When concrete gets its stripping strength, the locks are opened and upper parts of the mould are removed. As a matter of convenience mould skirtings are tipped over. The final product is taken out.
Utility vault and gulleys steel moulds
Weight (kg): 1,630

Concrete electric pole moulds
Weight (kg): 6,400

Concrete electric pole is a construction designed for keeping wires, shield wires, fiber optic lines as well as illuminating devices at a certain distance from each other and the ground.

M-Konstruktor produces steel moulds for concrete electric poles of varied lengths and configurations.

Cunette and channels steel moulds
Weight (kg): 3,200

Reinforced concrete trays are used in the construction of roads, complex engineering structures, for laying heating routes of all kinds, for laying cable channels.
M-Konstruktor produces steel moulds for storage construction.

Steel moulds for L-shaped retaining wall
Weight (kg): 2,288

The M-Konstruktor Company produces steel moulds for concrete trash containers. Hydraulic drive of volumetric core driver facilitates the process of demoulding; smooth moulding surfaces and perfectly aligned corners of the elements will ensure the correct shape of the concrete product, and reliable design and high quality will ensure the long life of the steel moulds by M-Konstruktor.
Bolted cement silos
Capacity (tonnes): 240

Sectional cement silo is designed to be assembled and disassembled multiple times. Certain parts of the bolted cement silo have special fittings, which make it easier to disassemble it and move it to another site.

Bolted cement silos have a wider diameter than welded cement silos, which ensures better loose cement mix storage and makes it possible to produce more capacious constructions. Flanged cement silo is additionally equipped with internal ladder with a manhole and other necessary equipment upon request.
**WELDED CEMENT SILOS**

*Welded cement silos*

Capacity (tonnes): 62

Welded cement silo is an integral solid construction. This feature limits storage capacity of such silos, especially when transporting them.

Standard configuration of welded cement silos is similar to flanged (sectional) cement silos. However, there is still a possibility to use additional equipment: interlocking panel apparatus, trembler, etc.

A product passport with rules of operation and services is provided for all produced cement silos.
The M-Konstruktor company produces steel moulds for water parabolic chutes in accordance with GOST 21509-76 and the standard series 3.280-23 (issue 1).

Parabolic chutes are used for agricultural and pasture water supply. At our company, you can order steel moulds both for standard sizes of trays of 6 m long, and non-standard according to your wishes.

Moulds, if necessary, are equipped with steam jackets to speed up the process of gaining concrete stripping strength, as well as vibrators to compact the concrete mix.

<table>
<thead>
<tr>
<th>Mould name</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>Parabolical concrete cunette moulds LR-6</td>
<td>3,900</td>
</tr>
<tr>
<td>Parabolical concrete cunette moulds LR-8</td>
<td>4,550</td>
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<tr>
<td>Parabolical concrete cunette moulds LR-10</td>
<td>5,343</td>
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