



Return on investment

Increased sales due to short term product availability and fulfilment of individual customers requirements. PERFECT raises profitability of monobase production and adds value to your production in many ways.

- Optimized usage of resources: lower material costs, lowest manhours per ton rate, no more rejects and seconds.
- One-stop-shop: revolutionary, innovative production technology, optimized production process, highly efficient moulds, recycling of process material.
- Short pay back period due to custom built plants suiting ideally our client's individual needs.

E 07/12, printed in Austria, 05000 / errors and changes accepted.



www.perfectsystem.eu



INDUSTRIAL PRODUCTION SYSTEM for custom - wetcast monolithic manhole bases

Monolithic – in one pour!

To meet the individual needs of your customers with an economical way of production and to achieve highest product quality standards together with shortest delivery times – that's what PERFECT stands for. An individual monolithic manhole base made available by a well-proven production system .

Almost any channel/invert configuration and pipe connection can be realized in very short time by the use of molded polystyrene elements which are cut and assembled to customers needs and which can be recycled after use. You will gain additional advantages by the use of high performance concrete and a readiness for delivery in less than 24 hours.



User friendly

Integrated lifting anchors – safe handling on the construction site.



Individual

Each manhole base meets the customer's expectations concerning moulding of the channel, diameter of pipe connection, height and incline in the channel, decline of berm and use of integrated gaskets. Customized channel configurations with freely definable characteristics.



All relevant product data from the customer's name, construction site to the detailed specification of the base can be shown directly on the monobase - simpler allocation of the monobases on the construction site.



SCHLÜSSELBAUER
Technologie für Menschen

Schlüsselbauer Technology GmbH & Co KG
A-4673 Gaspoltshofen / Austria
Telefon (+43) 7735/ 71 44-0
Telefax (+43) 7735/ 71 44-55
www.sbm.at
e-mail: sbm@sbm.at
www.perfectsystem.eu

SCHLÜSSELBAUER
Technologie für Menschen

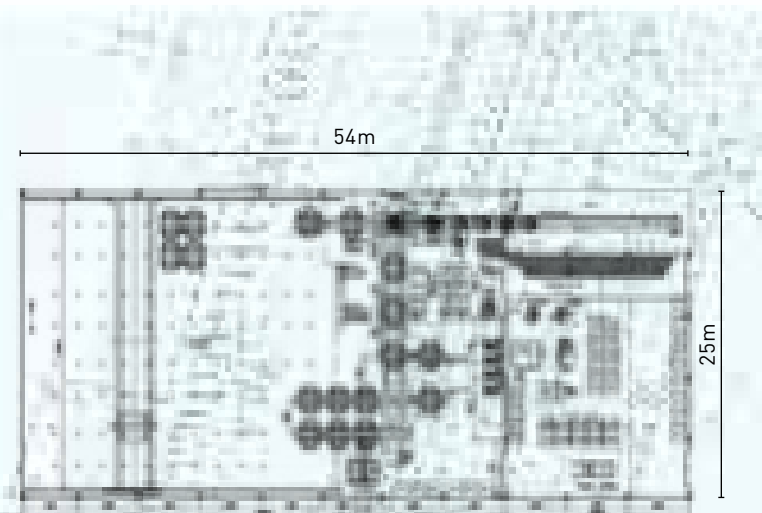


Individual

Variable design of the required angle and gradient of each single connection. Appropriate mould parts for all kinds and dimensions of in- and outlets, electively with integrated gaskets.

- A** Diameter of manhole base: 24 to 60 inch / 600 to 1500 mm
- B** Diameter of pipe connection: 4 to 40 inch / 100 to 1000 mm
- C** Diameter of channel: 4 to 40 inch / 100 to 1000 mm
- D** Height of channels: up to 20 inch / 500 mm
- E** Drop in channel: up to 10% ; Inclination of pipe connector 15%
- F** Wall thicknesses: 5 to 13 inch / 120 to 340 mm
- G** Lay lenght: 22 to 56 inch / 550 to 1400 mm
- H** Product height: 28 to 62 inch / 700 to 1550 mm

The truly industrial and unique way of manufacturing



Layout of a PERFECT production system according to your needs, eg. with a production capacity of up to 100 manhole bases within 8 hours.



Less effort for preparation of work by use of the functional PERFECT- software for the entire data collection (diameter, inclines, inlets/outlets, pipe connections).

Improvement of the logistic process in the whole manhole production including order entry, calculation, work preparation, production, individual product labelling and shipment.



The three dimensional cutting operation applying hot wire cutting technique allows the production of custom made negative moulds/inverts.



Custom made

Use of polystyrene elements as negative moulds for individual channel/invert configurations.



Environmentally safe

100 percent of polysterene parts used in production can be recycled. If required we accept taking back used material and will be engaged recycling it for ourselves efforts. Material consumption is minimized first of all due to the resource-friendly design of the polysterene elements. Further on primary energy input, which causes CO2 emissions, is unbeatably low.



Order Data collection

It is possible to collect the necessary product specifications on site, - therefore complex and unclear consultations are eliminated due to the transmission of complete data.

Order income Production control

Incoming orders are checked with regard to deadlines and product configurations and handed over to production without any further data manipulation.

Production

The production is faster due to the automatic production and the optimal logistical process: Even though highest flexibility, - with the sequences given, the process safety and comprehensibility of all process parameters is always guaranteed. The production cycle times are decreased, the added value in the concrete plant is increased!

In one pour



Delivery and installation in 24 hours

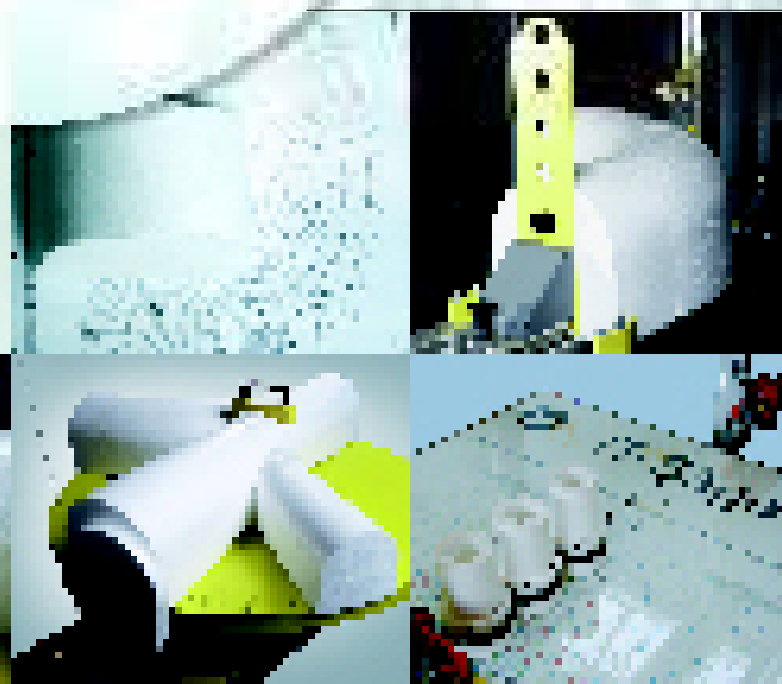
In less than 24 hours the monobase with the individual invert is ready for being transported to the customer. PERFECT - out of the mould - on the truck! A safe installation of the monobase in accordance with the requirements on the construction site by use of the integrated lifting anchors.

Safe

Incomplete or wrong orders are avoided immediately due to the operator guidance. The correctness of the production data is ensured in spite of the complex and individual specification/design of each monobase.

Ergonomic

The preparation/setup of the mould for the production of monobases is carried out under ergonomic working conditions: Handling of light weights in a quiet and clean work place!



Smart and simple

The use of high quality mould equipment helps the operator to work easily and swiftly, reduces cleaning and maintenance work and steadily leads to the desired products with perfect surfaces free of burrs.

Flexible production system with usage of mould equipment either stationary or portable. In both cases main processes like concreting or demoulding of cured products can be adapted according to the producer's requirements.

Increase in efficiency. Rapid and controlled curing of the monobases due to the combination of the PERFECT production system with KILNMASTER - the post production curing system for a controlled curing process.

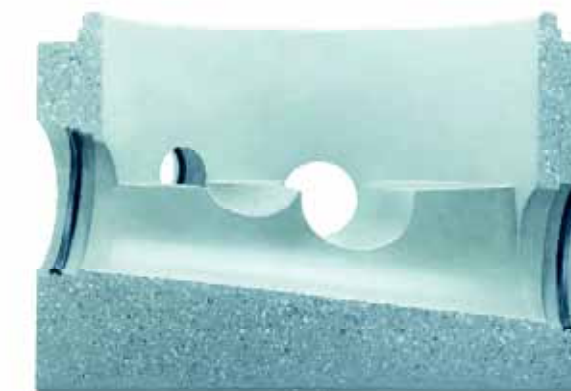
Monolithic

Within minutes an individual monolithic manhole base is cast, with - or without reinforcement with self compacting concrete. Monolithic execution in defined quality of concrete (eg C40/50 or C60/70) - in one pour, hardened in the mould and without any further surface treatment.

Accurate and dimensional precise joints with PERFECT surfaces - for tight and safe connections.

Permanent resistance against chemical, thermal and mechanical stress.

Manhole base made of self-compacting concrete exceeds the minimum requirements of international standards (EN 1917 + national amendments).



PERFECT