



IMER[®]
CONCRETE
BATCHING PLANT SOLUTIONS

OVERHEAD CONCRETE DISTRIBUTION





ORUFLY | EDR EDC

The ORU overhead concrete transportation system is the result of an engineering effort aimed at achieving maximum functionality and safety. The choice of the ORU concrete distribution system enables prefabrication operators to draw the greatest advantage from the production capacities of their plants and, at the same time, to achieve a significant reduction of the labour and costs involved in the transportation of the concrete.

The ORU transportation system makes it possible to maintain the characteristics of concrete intact up to the casting phase. Each phase of operation takes place in full compliance with applicable safety standards. ORU FLY is available in various versions: for **STRAIGHT RAILS (ORUFLY EDR)** and for **CURVED RAILS (ORUFLY EDC)**, with a rotating discharge hopper (ideal for fluid concrete) or through discharge shutters (**ORUFLY BV**).



MAXIMUM COMPACTNESS

The shape of the hopper makes it possible to carry all types of concrete without any wasted space. The compact length and height of the skip also favour the use of the overhead travelling skip in existing plants.

VARIABLE SPEED ELECTRICAL TRANSLATION

The overhead skip is provided with a variable electromechanical system. This system makes it possible to vary the maximum speeds, the speed on a curve or an incline, the approach speed. The discharge system operated by hydraulic unit ensures the skip discharge even in the absence of supply voltage.



OVERHEAD SKIP ORU FLY EDR-EDC

The discharge with rotating skip is particularly suitable for fluid concrete, as this type of hopper guarantees maximum tightness, and the discharge system is particularly versatile. The skip can rotate to the right or left and can be stopped at any angle. This type of rotation allows a thorough washing of the hopper.



OVERHEAD SKIP ORU FLY EDR-EDC BV

The discharge with a twin-valve hopper is particularly suitable for semi-dry and, especially, dry concrete. With this type of hopper it is possible to feed paired hoppers.



CUSTOMIZED ORU FLY

We develop customized solutions to meet every need of our customers:

- uphill runways' solutions
- multi-hopper skip
- mobile concrete buckets
- customized hopper design



The ORU overhead transportation system is generally provided with a casting crane that can be of bridge type, or of semi-portal or portal type, with or without operator on board and with automation features depending on the specific requirements of every customer. The bucket moving in any direction makes it possible to distribute the concrete in formworks of different shapes and sizes without the need of additional lifting or transportation means. On specific request, the bucket discharge system can be of different types: twin-valve, with rotating chutes, with wider mouths for discharging on extruders, with rotary hopper for discharging the concrete in a longitudinal or transversal direction. ORU can in any case supply special casting cranes to suit the requirements of the customer.

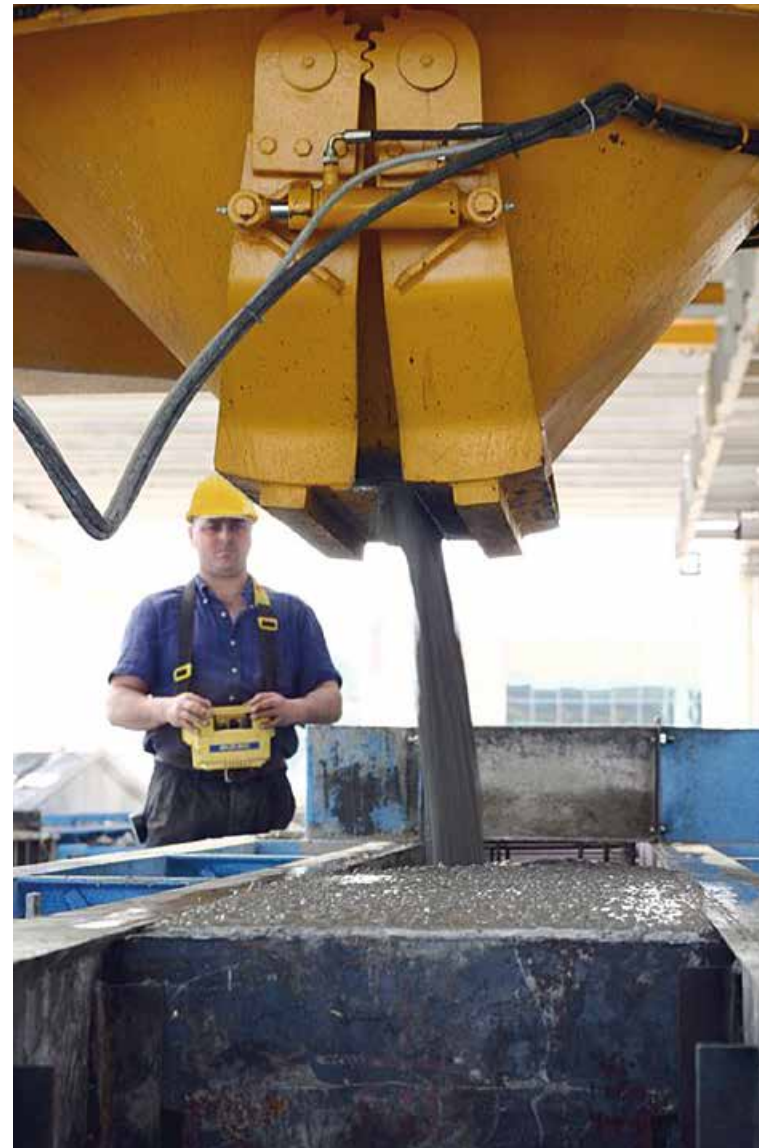
CASTING CRANE WITH VIBRATING EXTRACTOR SYSTEM



BRIDGE CASTING CRANE



CONCRETE CASTING CRANE



SEMI-PORTAL AND PORTAL CASTING CRANE



CASTING SYSTEMS

CASTING BUCKET COUPLED WITH CRANE



TRANSLATING BUCKET FOR DOUBLE SPAN



CASTING CRANE FOR HOLLOW CORE SLABS AND WALLS PRODUCTION WITH EXTRUDER & SLIPFORMER



TROLLEY-BUCKET ON THE GROUND



CASTING BUCKET WITH VERTICAL TRANSLATION



MANAGEMENT SYSTEMS



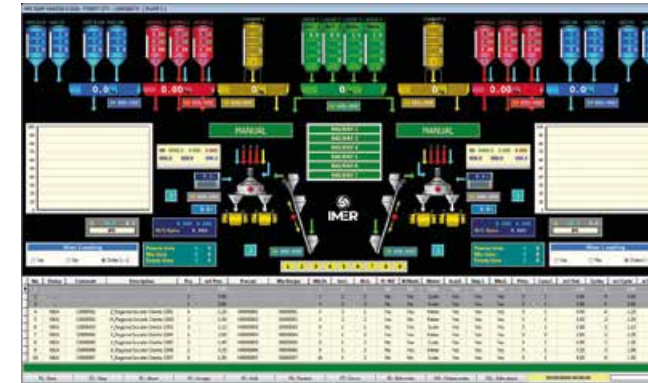
The IMER Group management units for the concrete batching plants are “user friendly” systems able to plan, control, automatically coordinate all the plant operations and to constantly check the production process. Our management systems are also available in touch version.



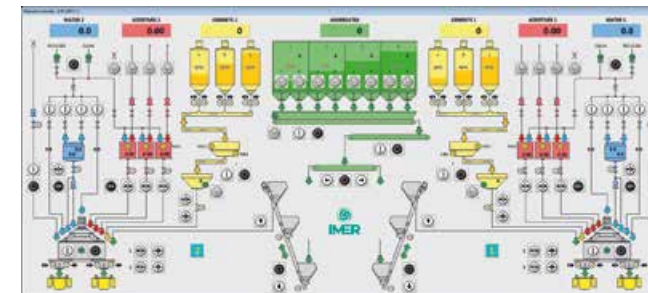
MOISTURE MIX PROBE

The moisture mix probe installed on the bottom of the mixer measures and displays the percentage of moisture contained in the mix. A correct positioning contributes towards a correct measurement of moisture. To ensure a precise w/c ratio it is very important to interface the probes with an automation system able to accurately process the data. Thanks to the specific software for the microwave reading of the moisture probe, it is possible to achieve a high level of water metering accuracy.

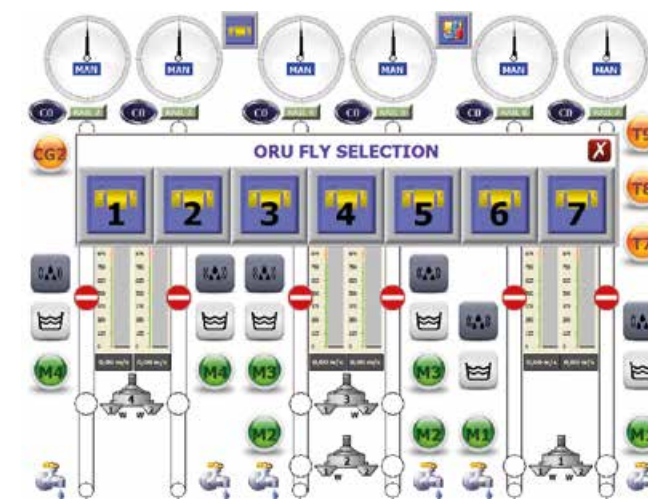
HPS 2100-P / 3100-P



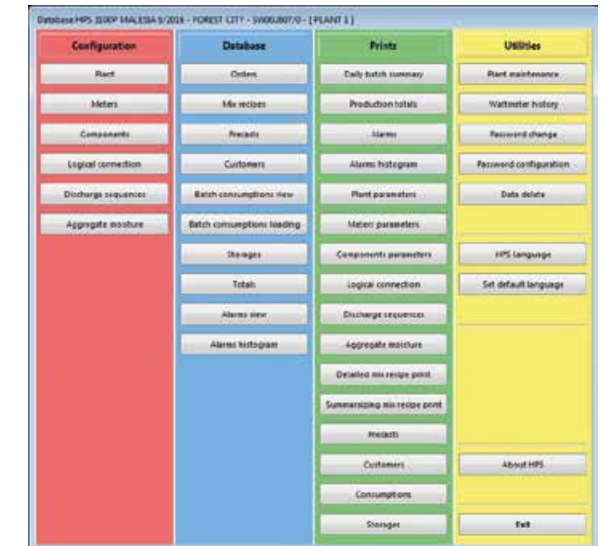
Customized software solution for the automation of the most advanced concrete production for the precast industry.



User-friendly interface. Extremely intuitive and simple to use.



DA-MULTI Management Unit for one or more overhead skips.



The HPS Database application (Data management) provides the following functions: Management of the plant configuration (operating parameters, meters, components, mix recipes, etc.); Processing of the data stored during the batches (consumptions, storage, production totals, etc.); Historical data display (alarms, batches, etc.); Printouts (configuration, consumptions, alarm reports, batches, totals, etc.); Data backup and restore procedures called HPS Backup Files and HPS Restore Files are present, which allow the operator to save the configuration data as well as the historical data. Whenever necessary it is possible to restore the previously saved files.

DA-MULTI is an automatic/manual management system of overhead trolley for stationary or mobile discharging stations, equipped of collision avoidance systems. The skip is equipped with plc on board and radio connection, receives calls from the HPS control system and manages the required operations independently. The system is fitted with a central control panel equipped with touch-screen terminal where all the functions are displayed:

- running operations
- real time diagnosis
- reporting of any possible anomalies during the working operations
- it is possible to modify all the operating parameters of the skip from the touch-screen terminal.

DA-MULTI Management Unit is completely customizable according to the production needs.



IMER GROUP MIXERS

RELIABILITY AND PERFECT MIXING

Mixing is the most important phase in the concrete production process. Indeed concrete **quality** and **costs** depend on **mixing** quality. **IMER GROUP mixers** are the result of the meticulous and systematic analysis of problems concerning mixing materials of different sizes, shapes, consistency and specific weight

Extremely **sturdy**, **reliable** and **versatile**, mixers are built with wear-resistant materials that allow maintenance reduction and can be applied in multiple production fields.



PLANETARY MIXER

ORUMS

ORU MS planetary vertical mixers with coaxial motor can quickly mix any type of concrete with excellent results: **dry**, **semi-dry** or **plastic**. They are used in the ready-mix and precast sectors and in the production of materials such as glass, ceramics, refractory material, cold asphalt, etc.

HORIZONTAL TWIN SHAFT MIXER

ORUMD

Thanks to our experience in the pre-mixing sector and to the introduction of technological innovations, the horizontal dual axis mixing line is able to pack **any type of concrete** (civil and industrial constructions, dams, lightweight concrete with low specific weight additives, mixes for foundations and stabilisers). The **ORU MD** mixer line is equipped with two horizontal mixing axes rotating in sync in opposite directions.

