

PRODUCTION STATION



TEKSAM
CONCRETE DRY-CAST SOLUTIONS

Type:
"Teksam X2000/2200"
For Manhole Components

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Our mission is to provide high quality equipment that can be built from standardized modules to meet customer's specific requirements!

Teksam X2000 Manhole Machine

The X2000 consists of the following components:

Vibration Plant - type: Teksam X2000/22000

1. Vibration Unit - Type: VUX2000
 2. Hydraulic driven VibratorS - Type: V70
 4. Hydraulic activated 2 ton Mold Clamps
 4. Hydraulic activated Core Clamps
 1. Belt Feeder - Type: BF2200 (2.200 liter hopper capacity).
 1. Concrete Distributor (Rotating belt type)
 1. Elevator Stand (for the Vibration Unit)
 1. Pit Cover
 1. Hydraulic Power Pack
 1. High Voltage distribution system
 1. Power- communication and air distribution system
- All functions are hydraulically activated and the process is controlled by the PLC for reliable and trouble-free operation.

Vibration Unit - type: VUX2000

The included Vibration Unit - type VUX2000 has successfully produced manhole components since 1985. When incorporated in an automated Production Station, the vibration frequency can be set in 4 infinitely adjustable steps. This ensures that the vibratory force is continuously adjusted according to the actual amount of concrete in the mold. With this control system, the consolidation of the concrete can easily be optimized and over-vibration leading to segregation can be avoided.

Adjusting the amplitude setting is a manual operation.

Specifications

The X2000/2200 provides a complete system for the production of high volume products such as: "**Riser Sections**", "**Cones**" and "**Bases**". Step holes can be formed automatically and lifting provisions can be casted in.

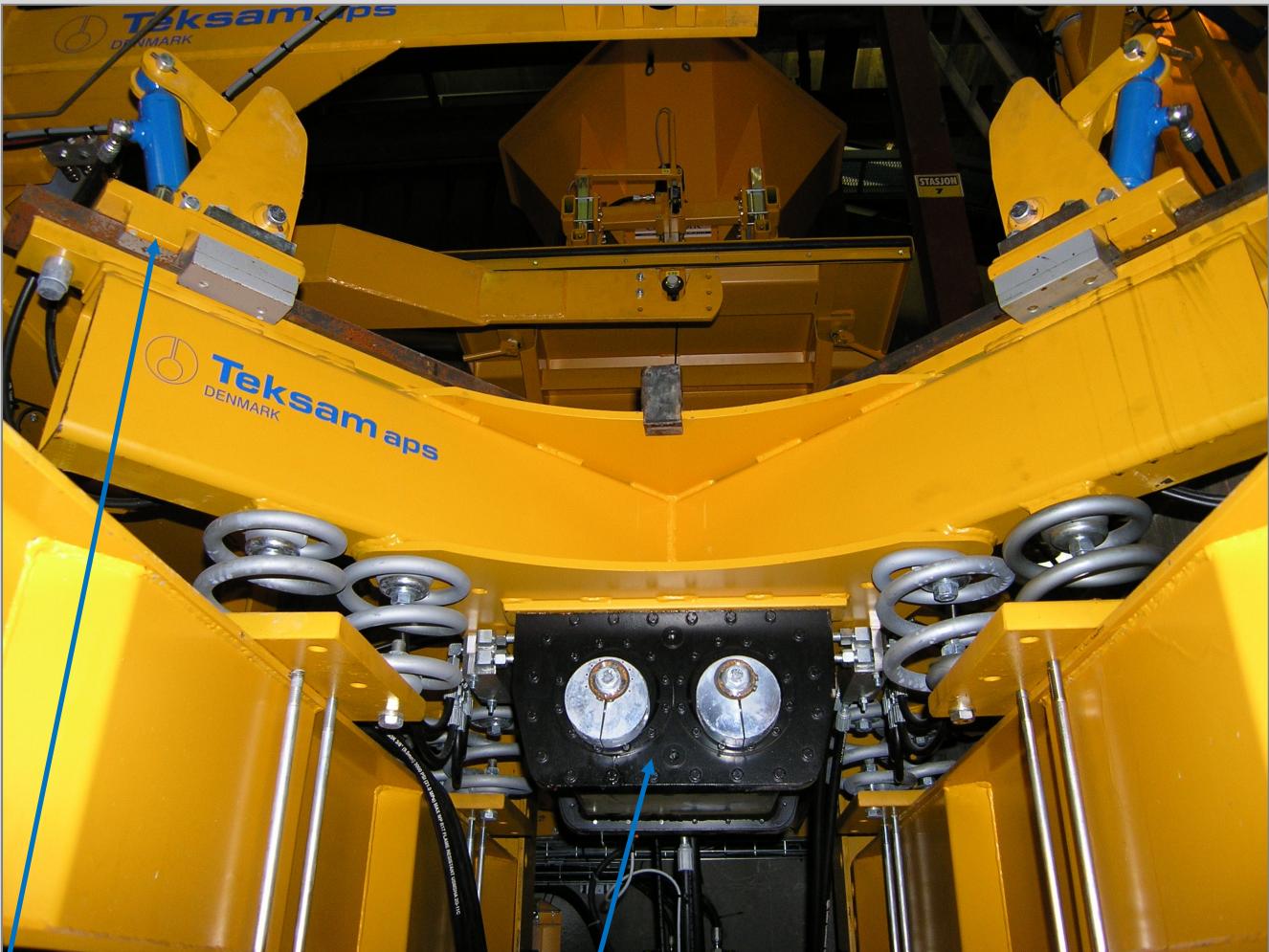
Product dimensions: **ID max: 2000mm**

ID max: 600mm

Max height: 2500mm

Max weight: 10.000kg

Mold handling and demolding is typically accomplished by using an overhead crane. To obtain an increase in output, automated handling systems are available. Automated off bearing crane



Uni-Directed Vibrator - Type: V70

Teksam vibrators are all designed for hydraulic operation. All parts are engineered, produced and thoroughly tested at our own facility.

The Vibrator can be set at an unbalance between 30 - 70 kg cm and is rated for 4400 RPM. The vibratory forces are vertically directed.

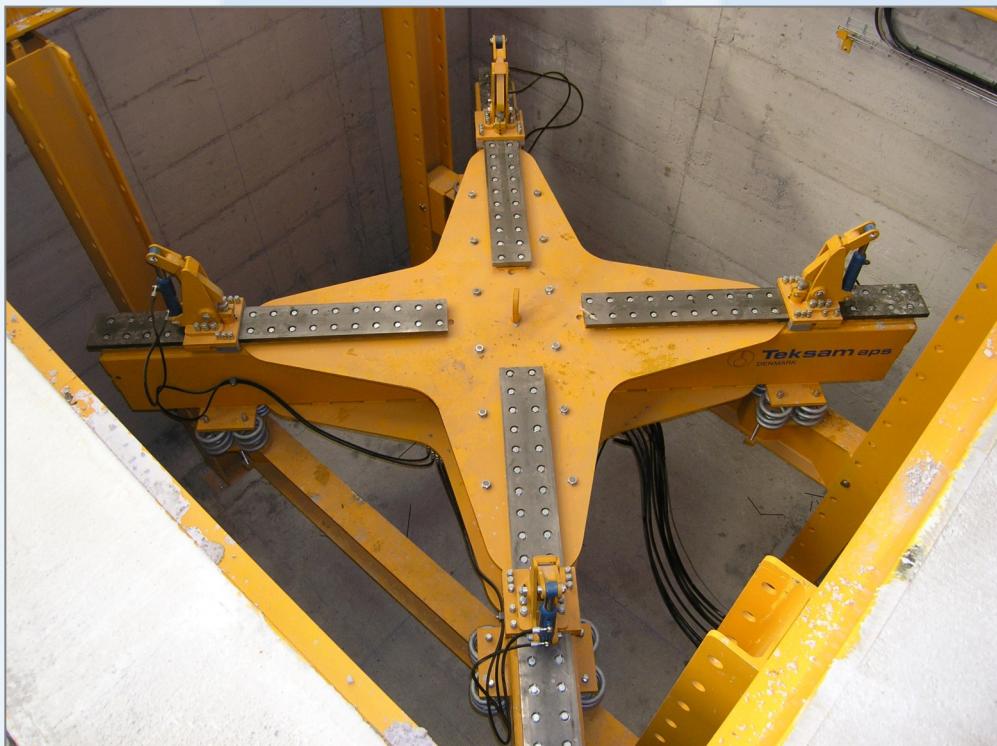
Hydraulic activated Mold & Core Clamps

For locking the Molds firmly to the Vibration Unit, a set of 4 hydraulic activated Mold Clamps are included. The operation of the Mold Clamps are controlled from the control panel. When stopping the Vibrator, the Mold Clamps will automatically open in order to prevent mold damage. The Mold Clamps include a quick-lock system for fast and easy adjustment of the Clamp positions according to the actual mold diameter. For locking the Core to the Vibration Unit, 4 Hydraulic activated Core Clamps are available as an alternative to the standard bolted clamps.

Elevator Stand

To match different mold heights, the Vibration Unit is mounted on an Elevator Stand.

The Elevator Stand allows the Vibration Unit to be positioned in different heights in increments of 67 mm. In the lowest position, the Station will produce 8" tall products. For operations where height adjustment is required very frequently a hydraulic activated Elevator is available.



Manhole Bases Ø 2000mm



Concentric cone

Hydraulic System

All functions on the Production Station are hydraulically activated from one Hydraulic Power Pack.

The high voltage supply equipment is mounted directly on the Power Pack frame work.

All electrical connections going out of the Power Pack are 24 voltage.





Grease- and Oil separator



Pipes up to Ø 2000mm



Belt Feeder - Type: BF2200D

The Belt Feeder type BF2200D includes a holding hopper with a 2.200 liter volume. The belt speed is infinitely adjustable and an Concrete Distributor of the rotating belt type is mounted on the main belt conveyor.

Press Head - Type SP 2000

To apply static pressure on the concrete in the mold and to form a joint, a Press Head with a hydraulic activated press cylinder and 2 cylinders for oscillating the joint former is included

PLC - Control System

All functions can be controlled manually from the panel. The PLC has a memory capacity for settings related to different sizes/types of mold equipment. Changing program settings when going from one mold to another is a matter of uploading a new program from the memory bank.

In the automatic program, the operator can interrupt the cycle as often as needed and continue in automatic mode again by pushing **START AUT** button again.



Manhole Risers Ø 2000mm



Manhole Base section

More than 35 years of experience

Teksam designs and builds high-performance equipment for the Drycast Concrete Industry.

Founded in Denmark 1979 we have supplied equipment for the concrete industry for more than 30 years. Our innovative systems and commitment to customer service have made us the first choice for companies globally.

For more information please visit www.teksam.com



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