- Foundry Process -

DECORING UNIT

SX-14500-C

THE OUTSTANDING SOLUTION FOR THE CORE ELIMINATION

Designed for manual or automatic loading, our decoring machines are suitable for the most demanding requirements and for the toughest mechanical parts.

High performance core removal unit integrating hammering, vibration and blowing functions.

SINEX
VIBRATING PROCESS

SINEX INDUSTRIE

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ISO 9001

PRINCIPLE ...

The SINEX decoring machine SX-14500-C integrates

3 functions in 1 single unit: hammering, vibration and blowing to guarantee a high performance core removal solution. The access for horizontal loading or unloading is fully free by ***front side***, for a great time saving.

A taylor-made clamping fixture, powered by air bellows, locks the casting in position.

The decoring cycle begins by the hammering to break up the core. Then, the vibration combined with a high acceleration forces the core removal. And finally, to improve sand removal, compressed air is injected into specific conducts.

OUR SOLUTIONS

SINEX MANAGES EACH STEP OF THE PROJECT

- Trials
- Design
- Manufacture
- Automation
- Running test
- Erection & training at site
- Commissioning & start-up

... AND IN PARTNERSHIP WITH TECHT

WE SUPPLY TURNKEY ROBOTIC CELLS FOR

- Decoring
- Sawing
- Machining
- Deburring
- Leak tester
- Palletization

... & ADVANTAGES

+ Maintenance friendly (no bearing or any parts in rotation)
+ Hammering, Vibration and Blowing integrated in 1 unit
+ Easy sand removal by blowing (time saving)
+ Horizontal loading/unloading by front side
+ Designed for Manual & Robotic operation
+ Several castings decored simultaneously
+ Taylor-made clamping fixtures
+ Compact floor space (5m²)

CHARACTERISTICS

FUNCTION

Removing sand cores from non-ferrous castings.

PROCESS

Maximum casting size ---- 800 x 500 x 400mm
Molding ---------- by gravity or by low-pressure
Cores ---------- green sand or chemically bonded sand

PERFORMANCE

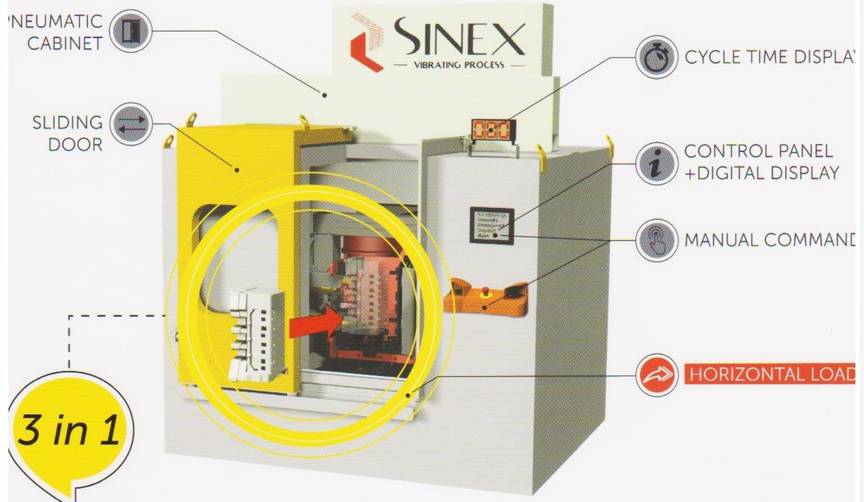
Production rate ---------- 40 to 120pcs/h
Max Payload ---------- 80 kg

AIR CONSUMPTION

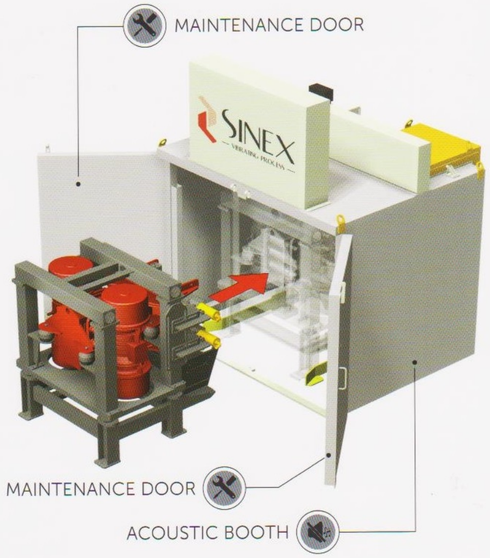
per/unit

- Hammer: 280 to 375 l/min
- Air bellow: 1460 Nl/min
- Blowing nozzle: 300 to 800 l/min

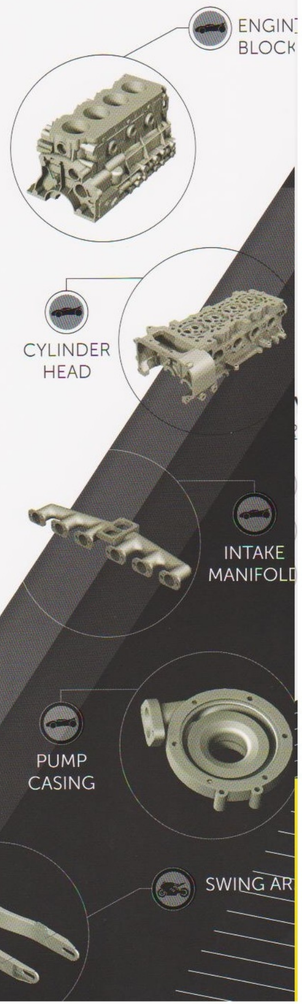
- front view -



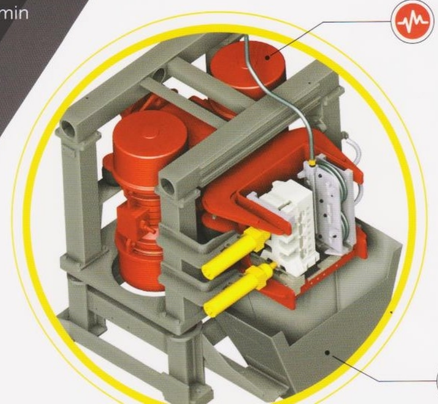
- rear view -



SCOPES

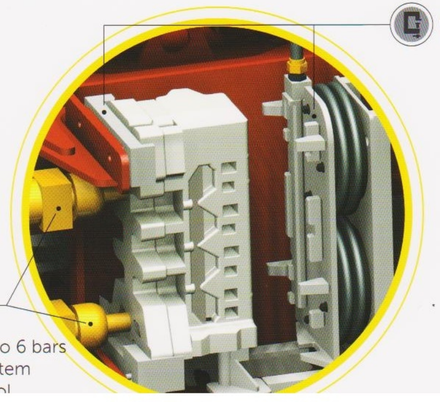


VIBRATION



- Generated by anced motors
- Power max. 2x
- Frequency of v : 25 Hz
- Max. accelerat to 24 g

HAMMERING



- Nominal working: 2 to 6 bars
- Auto lubrification system
- Lubrifiant level control

BLOWING