

# GDST

## AUTOMATIC GREEN SAND MEASURING DEVICE

Easy And Quick Measurement Anytime By Anyone

### FEATURES

#### Semi-Automatic Sand Testing Device for Laboratory Applications.

Easy to move to different positions inside the foundry process, for instance molding machine, sand preparation plant etc.

#### Advantages of GDST Sand Laboratory

- **GDST** sand lab replaces various manual lab equipment
- Sand testing time **40 seconds instead of 20-30 minutes**
- Data transfer via WIFI
- Easy to use (no special training required)
- Can be placed anywhere in the foundry for instance close to the molding line or the sand plant
- Easy assembly Easy maintenance



Following Values Can Be Determined.



sinto FOUNDRY INTEGRATION

*for the Better*



**NEW**

CB%  
VALUE

MOISTURE

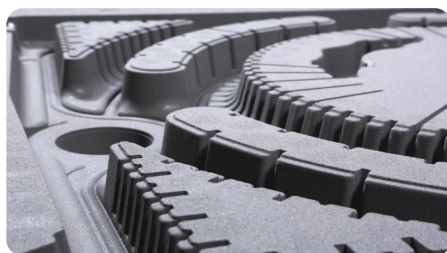
SAND  
TEMPERATURE  
°C

AIR  
PERMEABILITY

COMPRESSION  
STRENGTH



SCAN QR CODE  
VDO GDST



Assistance tool for good molding sand to produce perfect molds.



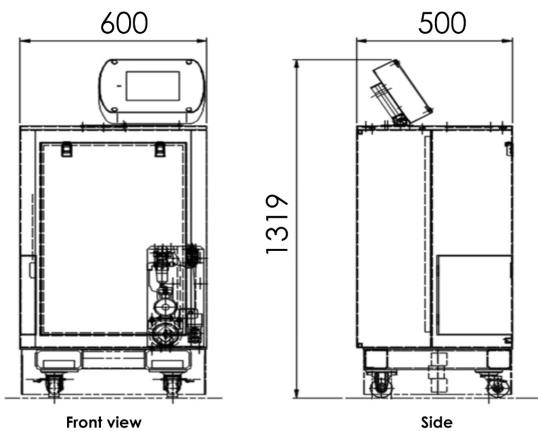
Can be placed anywhere in the foundry for instance close to the molding line or the sand plant.



Manage the sand condition in digital data.



## Automatic Green Sand Measuring Device



### Specification GDST Automatic Green Sand Measuring Device

| Model           |                                                  | GDST                                                                                                    |
|-----------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Measuring items | CB                                               | < 55%(Squeeze pressure control & dimension measuring by Encoder)                                        |
|                 | Moisture                                         | 2.5-4.5%(Electric resistance sensor)                                                                    |
|                 | Sand temperature                                 | 0-50°C (Measuring by thermocouple)                                                                      |
|                 | Air Permeability                                 | 31-250 (Air flow volume measuring under a constant secondary air pressure)                              |
|                 | Compressive strength                             | 5~30N/cm <sup>2</sup> (Measuring of displacement value & measuring of counteraction force by load cell) |
| Main body       | Dimensions (Total length X width X total height) | 600 x 500 x 1,319 mm.                                                                                   |
|                 | Net weight                                       | 200 kgs                                                                                                 |
|                 | Voltage                                          | 200V (Consumption 600W)                                                                                 |

\* The above specification don't need to connect air piping using a built - in air compressor

## Labor-Saving

### No Need Other

Measurement Devices!  
Various sand tester

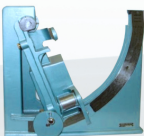
Total Approx.  
**20 mins**



**Sand Rimmer**  
CB value  
Create a test piece



**Moisture meter**  
Moisture



**Compressed strength tester**  
Compressed strength



**Air permeability meter**  
Air permeability

### Decrease a Man- Hour in Sand

Condition Measurement

**GDST**

Total Approx.  
**40 sec**

- ✓ CB value
- ✓ Moisture
- ✓ Sand temperature
- ✓ Air permeability
- ✓ Compressive strength

**Anyone, Anytime, Anywhere, Measurement**

ex. : Near molding machine Near sand mixer



## Function of GDST

Warn sand conditions anomaly Instruct to determine a mixing target amount at the appropriate timing.

