NEW TECH

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Pycnometer

It is a machine which measures the density of a variety of solids including powder metals using the measurement of gas pressure on the basis of first rule of thermodynamic
Degree of precision
Pressure force
Sample powder capacity

Blain test

Measures specific surface area using the Fisher method designed to work automatically in accordamce with ISO10070 standards

Air jet test

Equipped with a rotating grooved nozzle, this machine dose the sievin through causing pressure difference in the two sides of the sieve and the parlicles passing through the sieve are transmtted to the vacuum machine.

The specifications of it inchide adaptability of nozzle movement and rate of rotation.

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Tumbler test

Pellet corrosion resistance is one of the mechanical qualities that needs to be measured on the basis of ISO3271 and ASTM E 279

Green compression strength

GCS pellets performs the row pellet stremgth test.

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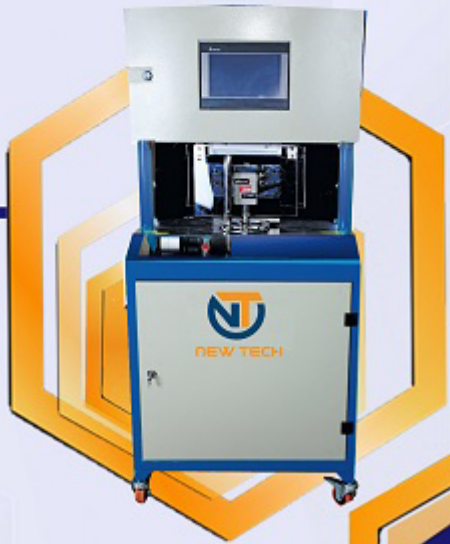
Cold Compression Strength (CCS)

It has been designed for the measurement of pellet degree of strength.
With the average capacity to testing 10 pellet per minute.
Measuring the standard deviation.
Totally automatic,
In accordance with the protocol of ISO4700 standard.

CCs on line

This machine is installed at the end of the pellet production line and tests the samples every two minutes.
The system in equipped with the screening device of 12.5.10 mm pellets and a feeder.



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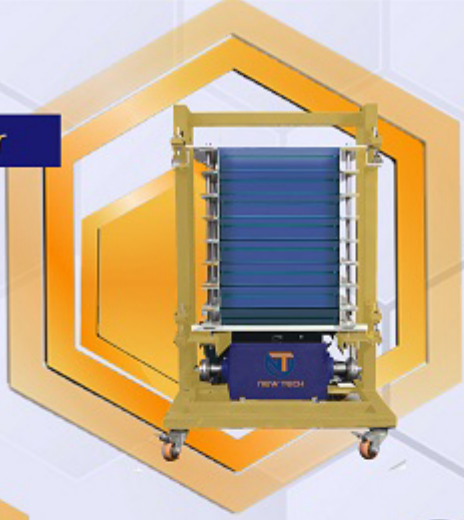
Vibration sieve Shaker



It is used to separate and fraction the materials among the sieves in accordance to their sizes using vertical vibration.

Jaw Crusher

Jaw Crusher is the machine with a fixed and a moving jaw used for the rapid, powerful crushing and pre-crushing of mediumhard, hard, brittle and tough materials such as pellet, DRI and limestone into

Vibratory Disc mill

Grinding through pressure and friction .
Operation within 3- 1 minutes.
Movements of discs using rotory vertical vibrations .
Quick operation.
Material feed size:<5mm
Final Fineness:<150 μm

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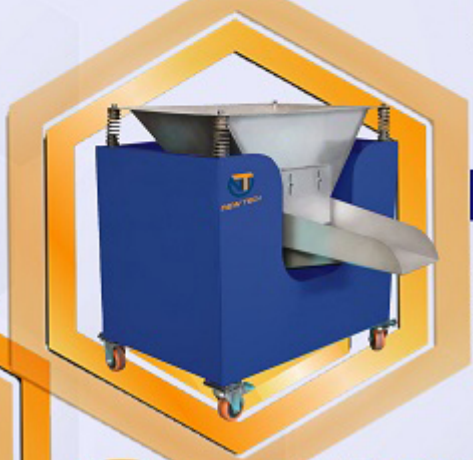
Ball mill

Grinding through impact friction.
Operating within 15 - 60 minutes.
Movement of balls using container rotaıion.
Regular constant operayion .
Material feed size: <50 mm
Final fineness:<200µm

Mixer

The machine for mixing iron concentrate, bentonite and water.
Designed in accordance with the latest standards defined in the material mix process.

Vibratory feeder



This machine prevents the lumping of outcome concentrate from mixing and control the feeding loaded into the disk.

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Feder conveor

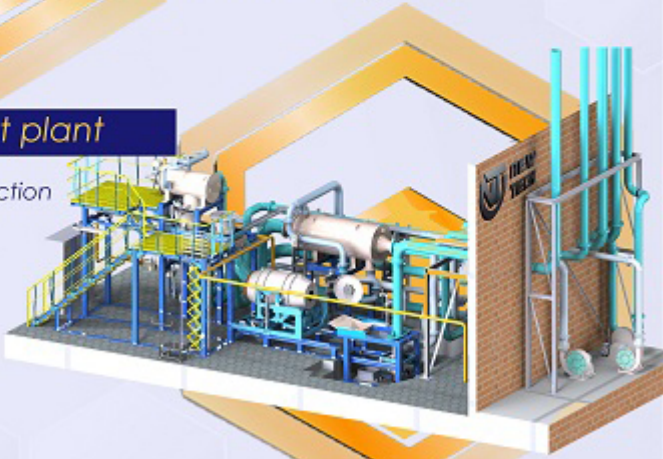
This machine receives the concentrate from the mixer constantly at an adjustable rate and carries it to the disk in the pellet production pilot plant. the flow rate of the fed into the disk is monitored constantly and online

pelletizing Disc

A disk with a diameter of 80cm is designed for the purpose of producing pellet in small quantities. Disc rotation is adjustable.

Pelletizin Pilot plant

It performs pellet production at laboratory scles. The pelletizing pilot plant is thoroughly automatic and very similar to pellet production line in the Alice Ghalmers and Lorgy methods.



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Pellet sieve

The baked pellet is chustered with rotating sieve.

Automatic sample Divider

Pellet sampling machine is responsible for random sampling with desirable percentage of samples. It is designed in appropriate sizes (height and width) for pellet buckets to roll in.

Riffle sample splitters

It is designed to reduce the overall sample size for the purpose of producing a sample to be used in chemical analysis laboratories. Available in three sizes with splitting sheet distances of 20,6, and 50 mm, it is suitable for splitting a wide range of materials.

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Automatic Track sampler

Random sampling from a truck to test and analysis in laboratory.
The possibility of sampling with penetration in materials of varying qualities including pellet, limestone, DRI concentrate and ...
Samoler penetration to the bottom of the load.
Based on ISO3082

Automatic Sampler

Equipped with primary and secondary sampler, vibrator, excess and main sample return.
Flow of pellet is sampled totally randomly on the basis of ISO 3082

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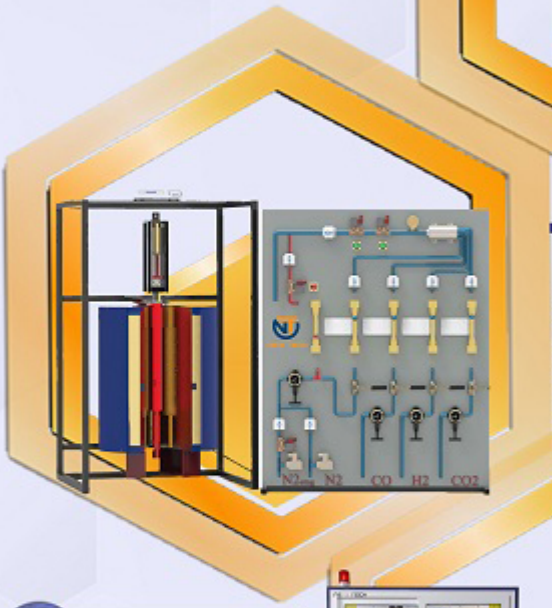
Unload test

This machine measures the direct reduction degree and weight reduction of pellet under laudatory circumstances on the basis of ISO11258



Clustering test

This machine is designed for direct reduction process under load and measuring degree of clustering of DRI under laboratory circumstances on the basis of ISO 11256

Linder test

Linder test machine measures the relative finenss of pellet under the direct reduction process. It is designed based on linder and jambomidrex and in accordance with ISO 11257

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Pelletizing Pilot plant

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