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PENTA MULTI STAGE COAL MECHANICAL SAMPLING

Safe, Accurate Sampling From Your Moving Conveyors

DUAL LANGUAGE

ENGLISH

INDONESIA



- ***Touch Screen Operation, reduce 60% Human Error Operation***
- ***User Friendly, Easy Maintenance***
- ***Dual Language - English & Indonesia***
- ***24 Hours, 7 Days operation***
- ***One Year /2000 hours Warranty***
- ***Auto Diagnostics, trouble shooting make easy***
- ***Better Material with Fair Prices***



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Better Design, Better Material, Fair Price

Jl. Raya Mustikasari No. 148 Bekasi 17157
Jawa Barat - Indonesia
Phone : +62-21-29081052 , 8265 0710

Equipment Manufacturer
Engineering Contractor
Industrial Automation

Faximile : +62-21-2908 1152
Email : info@pentainti.com
Website : www.pentainti.com



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PENTA SAMPLING OVERVIEW

PENTA Sampling systems made in Indonesia with mission simple, single stage sampling to multistage systems incorporating crushing, discrete subsampling and reject handling. They can be found at a wide variety of mines, docks, ports, and power plants world wide in sampling applications for coal, coke, stone, and a variety of ores.



**Durability Guarantee, 24 Hours,
7 Days Operation**

PENTA Sampling systems with high quality part, standard procedure fabrication to make the equipment work in 24 hours / 7 Days non-stop.

International Standard Method

Equipment work with according ASTM / ISO Method Procedure



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Touch Screen Operation

PENTA Sampling systems use HMI Touchscreen Operation, reduce 60% Human Error Operation



Better Quality Material & Fabrication Technique

PENTA Sampling systems made with Stainless Steel SS 304 & Mid Steel, high precision fabrication with Laser cutting technique to guarantee precision equipment, Marine Coating Painting, high welding technique, experience engineer.



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Primary Sampler

Durability Motor, 24 Hours, 7 Days Operation

PENTA Sampling systems made with Europe / Japan Electrical Motor & Brake System.

Computerized system with Programmable Logic Controller

- Accurate, less electrical wiring, easy maintenance
- User Friendly Operation
- Accurate Digital Timer



Standard Specification

- **Type** : Cross Belt
- **Drive** : Electric Motor with Brake system, Sumitomo - Japan or Europe Brand, 380V 50Hz 1440rpm, 440V 60Hz, 1740rpm
- **Gear Box** : Ratio Gear Box Sumitomo - Japan, Bonfiglioli, Motovario Made in Italy or Europe Brand
- **Thickness plate** : 2 – 5 mm
- **Structural frame** : 100 - 150 mm
- **Scoop** : Stainless Steel Rotating Scoop
- **Material** : coal, coke, stone, and a variety of ores
- **Belt Capacity** : up to 5000 TPH or Customer requirement
- **Belt Speed** : 1.5 - 5 m/s
- **Belt Width** : Meet to All Conveyor Size
- **Standard Dimension** *)
 - 2100 mm Width
 - 1700 mm Length
 - 1000 mm Height

*) Note :

- *Dimension are variable base on Conveyor Size Customer*
- *Electric Motor with brake system are mandatory specification as per market available reason*



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Crusher

Crusher Type	: Hammer Crusher
Drive Power	: Electromotor, 3 phase 220 – 380 V, 50 Hz
Hammer Type	: Two pieces, made of hardened Special Steel
Input Size	: 0 - 200mm
Output	: 4.75 mm ASTM Or ISO output size base on screen
Capacity	: up to 5000 kg/h



FEEDER CONVEYOR with Cover

Operation Mode : Automatic or Manual
Forward Mode to Crusher,
Reverse Mode to Original
sample for sizing

Controller	: by PLC & HMI Touchscreen
Belt Width	: 500 mm
Lenght	: Variable, Nom (4000 mm)
Drive Power	: Electric Motor Europe Brand
Belt Capacity	: 3 TPH or Custom
Belt Speed	: 0.074 m/s (Nominal) or Base on Design System



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SECONDARY SAMPLER CUTTER

Two Model Available : Cross Belt Type Or Rotary Tube Type

Cross Belt Type

Drive Power	: Electromotor with brake system, 3 phase 1 Kw 220 - 380 V, 50 Hz
Type	: Cross belt
Cutter Aperture	: 60 mm
Belt Width	: 500 mm
Belt Capacity	: 3 TPH
Belt Speed	: 0.5 m/s
Controller	: PLC + HMI



Rotary Tube Type

Drive	: Electromotor, 3 phase 220 – 380 V, 50 Hz Made In Italy or Europe Brand
Type	: Rotary Tube Divider (RTD)
Diameter Input	: 200 mm
Diameter Cone	: 650 mm (Standard) or base on system Design
Diameter output sample	: 150mm x 150mm
Diameter reject sample	: 200 mm
Plate	: Stainlees Steel 304
Height	: 810 mm
Length	: 925 mm



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Reject Conveyor

Model Available :

- **Belt Conveyor , Bucket Elevator or Screw Conveyor**

Conveyor Belt Type

Operation Mode : Automatic or Manual
Controller : PLC & HMI Touchscreen
Belt Width : 500 mm
Lenght : Variable base on system design
Drive : Electric Motor Motovario
or Europe Brand
Belt Capacity : 3 TPH or custom design



Bucket Elevator Type

Capacity : up to 5 Ton (Nom)
Drive : Electric Motor
Elevator belt : 140 mm, 3.6 Bucket/meter
Stainless Steel Bucket type.
Speed : 2 - 3.5 m/s
Material : Coal



SCREW CONVEYOR Type

Diameter : 8"
Lenght : 3580 mm
Capacity : 0.3 TPH
Drive : Electric Motor



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Automatic Canister Sample

Drive Power : Electric Motor with brake system, 220 – 380 50Hz

Canister Quantity : 4 - 8 Pieces

Capacity Canister : 20 – 30 kg

Material Canister : Stainless steel 304

Automatic filling container canister per lot sample

Calibration canister position by software

Controlled by PLC



ELECTRICAL CONTROLLER & OPERATION SOFTWARE :

CPU : PLC

Display : Touchscreen Human Machine Interface (HMI)

Timer : Digital timer built in HMI

Operation Mode : Touch Screen Operation

Controller Capability :

- Capable control to Primary Sample, belt feeder conveyor, reject conveyor or Bucket Elevator, crusher & Canister

Operating Mode :

Automatic or Manual operation, Dual Language - English - Indonesia

Software Feature :

- Scoop Parking Calibration
- Mechanic or Weighing sensing material
- Canister Calibration
- Used hour meter
- Reporting System
- Optional wireless Room control with SCADA



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Upgradable with standard Methodology

Diagnostic system, Interlock for fail / error equipment or fail operation

Fully Monitor all the system, safe for operator such as :

- Primary Sampler
- Secondary Sampler
- Crusher
- Feeder & Reject Conveyor
- Canister
- Emergency Stop

Calibration : Scoop Calibration, Canister Calibration

Analog Indicator : Pilot Lamp for Power Pole, Automatic On, Automatic Off

Reporting System : Operational & Setting Record



Our Project Reference

More than 40 Units Installed

1. PT. Mandiri Inti Perkasa - Tarakan (4 Unit)
2. PT. Kitadin - Kutai Kertanegara (1 Unit)
3. PT. Krakatau Engineering - Cikande Harbor (2 Unit)
4. PT. Asmin Bara Bronang - Palangkaraya (2 Unit)
5. PT. Multi Guna Maritim - Banjarmasin (1 Unit on Floating Conveyor)
6. PT. Semen Tonasa - Makasar (1 Unit)
7. PT. Indonesia Power - Suralaya (1 Unit)
8. PT. Pelita Samudera Shipping (1 Unit)
9. PT. Indonesia Power - Lontar, Tangerang (1 Unit)
10. PT. Indexim Coalindo - Sangatta (6 Unit)
11. PLTU Bangka Belitung (1 Unit)

And More....



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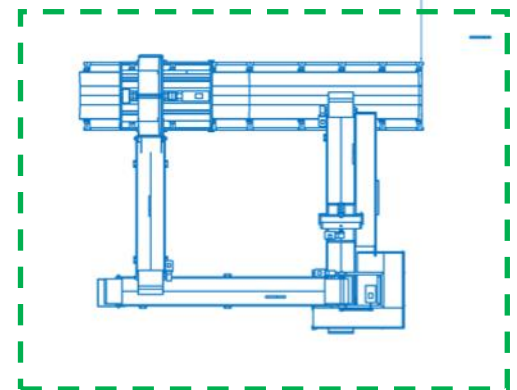
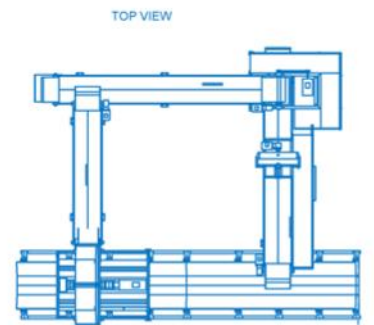
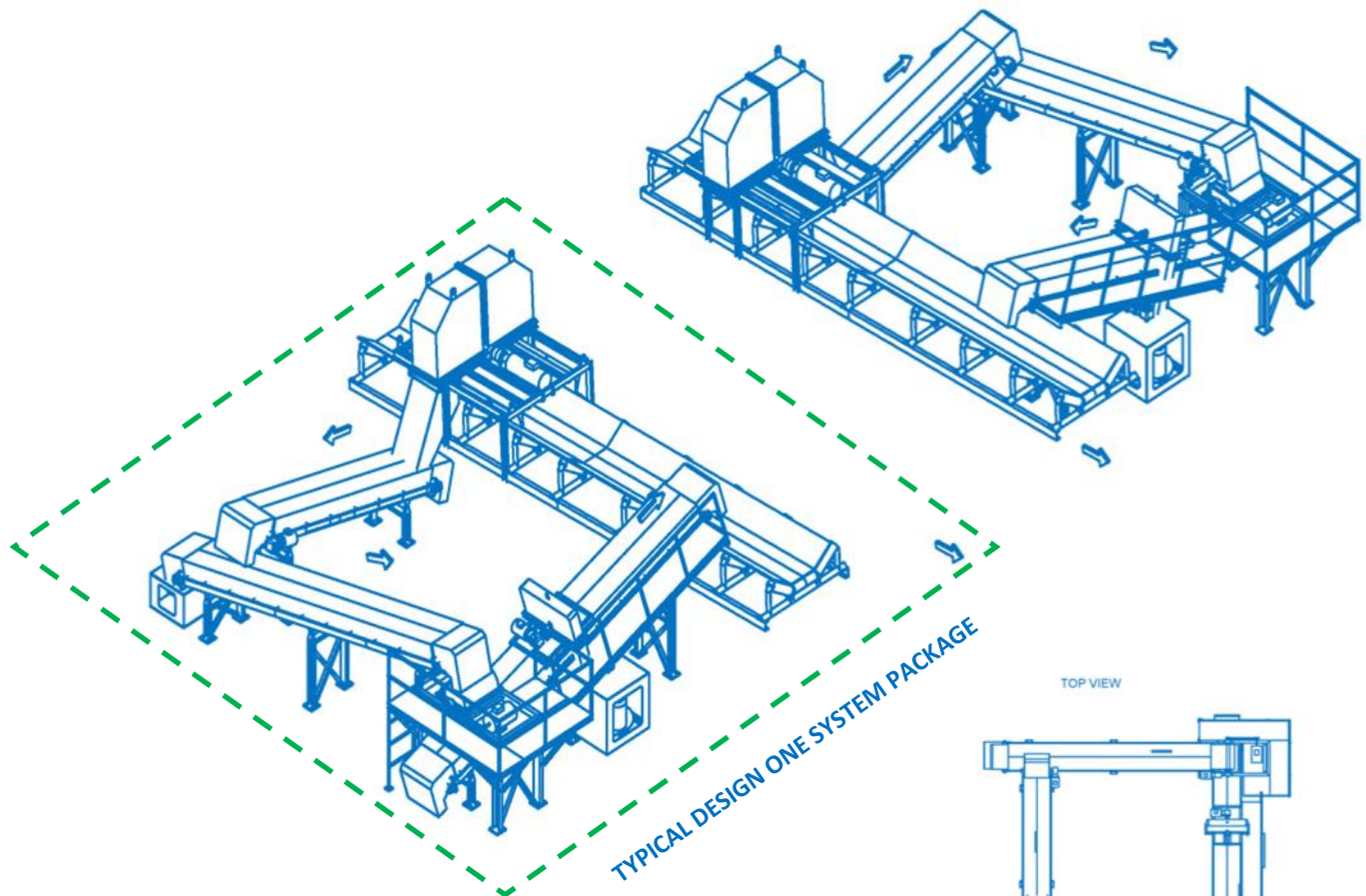


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TYPICAL SAMPLE DESIGN SAMPLING WITH REJECT CONVEYOR



Made in Indonesia



8	Canister Sampel 4.75mm / 11 mm
7	Fedeer Conveyor 3 (Reject Conveyor)
6	Secondary Cutter
5	Hammer Crusher
4	Feeder Conveyor 2
3.	Box Original Sample
2.	Feeder Conveyor 1
1.	Primary Cutter
No.	Description
Quantity	Designation : PT. Penta Inti Persada
	Dwg No: MS-2000-5

Note : Configuration may be Different base on Customer Existing Conveyor



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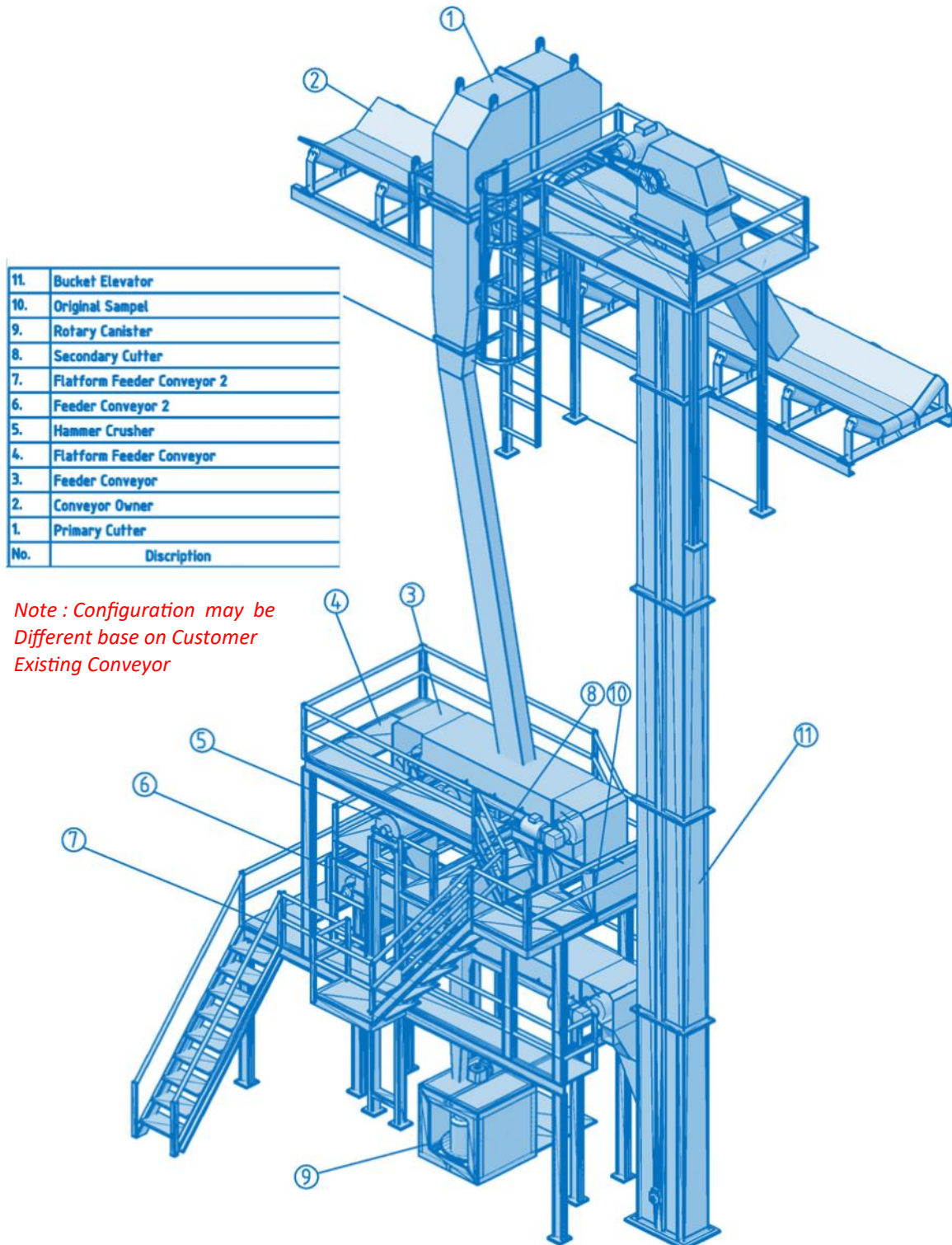


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TYPICAL SAMPLE DESIGN SAMPLING WITH REJECT BUCKET ELEVATOR



Made in Indonesia



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Our Product Group

Mechanical Sampler



- Primary Sampler
- Multi Stage Mechanical Sampling
- Rotary Tube Secondary Sampler
- Automatic Rotary Canister
- Maintenance Contract Services

Mining Equipment



- Stone Crusher
- Coal Crusher
- Conveyor System
- Radial Stacker
- Belt Scale
- Truck Scale / Weighbridges
- Laboratory Mining Equipment

Concrete Batching Plant



- Stationary Concrete Batching Plant
- Mobile Concrete Batching Plant
- Concrete Mixer
- Semen Silo
- Batchers
- Automatics Control Panel

Industrial Automation



- Industrial Conveyor
- Bulk Weigher
- Pallet Conveyor
- Bucket Elevator
- Logistic Automation Conveyor
- Industrial Automation System

Air Filtering System



- Industrial Dust Collector System
- Mining Dust Collector System
- Laboratory Dust Collector System
- Pulse Jet Dust Collector



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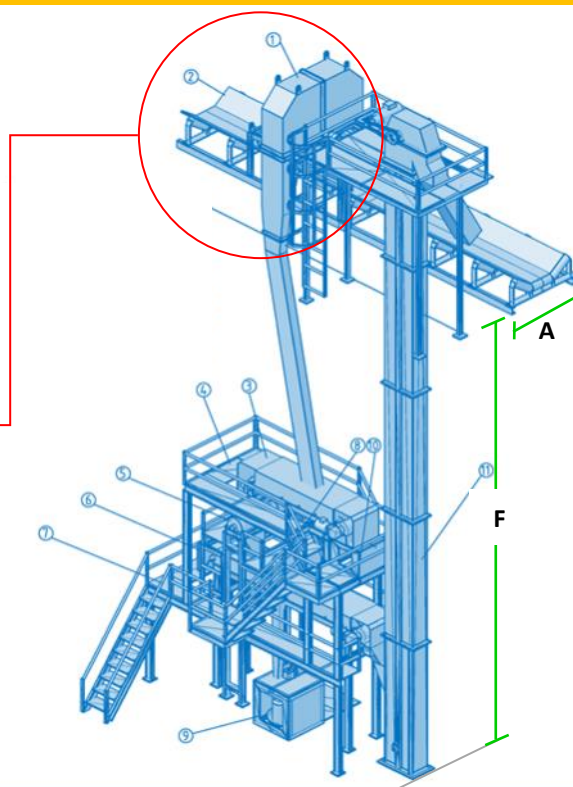
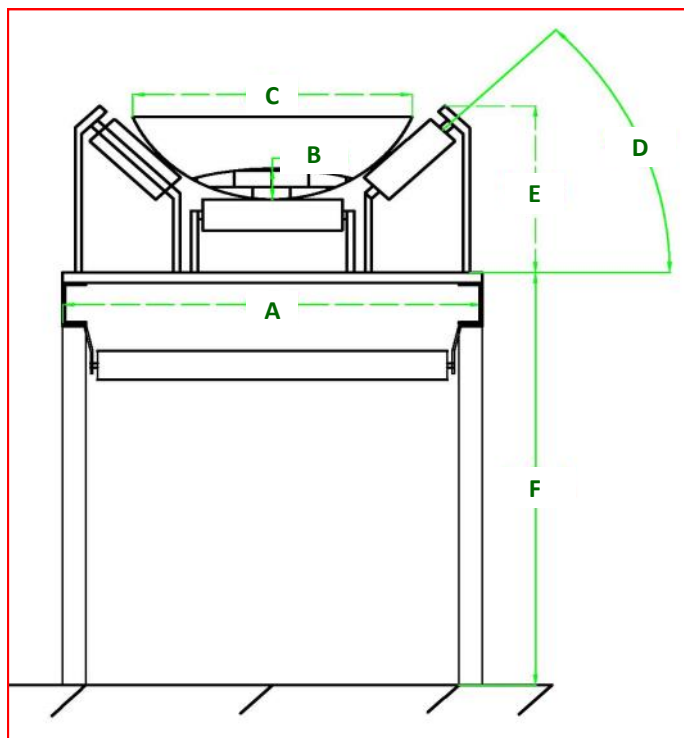
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CUSTOMER DATA :

- Company :
- Address :
.....
- Contact Person :
- Email :

EXISTING CONVEYOR DATA :

- | | | | |
|---------------------------------|-------------|----------------------------------|--------------|
| • Conveyor Speed | : m/s | • Roller Idler Angle (D): | Degree |
| • Conveyor Capacity | : TPH | • Conveyor Height (E) | : mm |
| • Frame Width (A) | : mm | • Ground to Top Frame Height (F) | : mm |
| • Bottom Roller Idler Width (B) | : mm | • Material Top Size | : mm |
| • Belt Width (C) | : mm | | |



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SAMPLES AMOUNT

- Sample per lot ^{*)} : Kgs

Note :

- ^{*)} - 1 lot (nominal) equal 2000 tons (Independent Surveyor Recommendation)
 - ⇒ 20 Kgs Sample (Need Two Stage Sampler)
 - ⇒ > 500 Kgs total sample per lot (Need One Stage Sampler)

Customer Electrical Condition

Electric Power Source 3 Phase

- Voltage : VAC
- Frequency : Hz

Electric Power Source 1 Phase

- Voltage : VAC
- Frequency : Hz



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