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Kyushu branch



Kyushu kagoshima factory



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• Sales agent



Green Tea Manufacturing Equipment

PRODUCT CATALOG



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| | |
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Fresh leaf transport equipment

Fresh leaf container for trucks : small size

Transport tea leaves without damaging them, Can be mounted from small trucks.

It adopts a highly durable resin net conveyor system that has good breathability and does not damage the tea leaves. The eject door opens to a large horizontal position and can be opend and closed from either side. It can be used even if the height of the leaves of the tea factory is low because it is a retrieval type from the back.

specifications

| Туре | Length | Width | Width Height | | Power | Са |
|-----------|--------|-------|--------------|-----|-------|----|
| | mm | mm | mm | kg | kW | |
| TCB-TN350 | 2,100 | 1,500 | 1,240 | 190 | 0.2x1 | |

Fresh leaf container for trucks : medium size

Transport tea leaves without damaging them, It is the best way to use a container type picking machine.

It adopts a highly durable resin net conveyor system that has good breathability and does not damage the tea leaves, it is lighter than the steel plate type and the capacity of tea leaves has increased. The eject door opens to a large horizontal position and can be opened and closed from either side.

There are openable celling doors to prevent tea scattering during transport and to block direct sunlight.

specifications

| | Longth | Width | Height | Woight | Pov | wer |
|---------|--------|-------|--------|--------|----------|-----|
| Туре | Length | width | Height | Weight | Conveyor | |
| | mm | mm | mm | kg | kW | |
| TCB-27 | 2,700 | 1,690 | 1,200 | 430 | 0.2x1 | |
| TCB-30 | 3,000 | 1,690 | 1,200 | 440 | 0.2x1 | |
| TCB-35 | 3,500 | 1,690 | 1,200 | 460 | 0.2x1 | |
| TCB-27F | 2,700 | 1,690 | 1,200 | 430 | 0.2x1 | (|
| TCB-30F | 3,000 | 1,690 | 1,200 | 460 | 0.2x1 | (|
| TCB-35F | 3,500 | 1,690 | 1,200 | 480 | 0.2x1 | |

Fresh leaf container for trucks : Large size

It is a large-size truck container suitable for bulk transportation of tea leaves and transportation to aggregate areas.

It is a container for loading tea leaves on a large truck. (4 ton type) Remove the tea leaves from the back by steel plate transport band and extruded plate.

Keep the freshness of the tea leaves by forced draft from the bottom of the container.

specifications

| | | Longth | Width | Height | Weight | Pov | Power | | |
|------------|--|------------|----------------|--------|------------|------------|--------|--|--|
| | Туре | Length | WIGTL | Height | weight | Crowler | Fan | | |
| | | mm | mm | mm | kg | kW | kW | | |
| | TCB-4000 | 5,400 | 2,050 | 1,550 | 1,100 | 0.4 | 0.75x2 | | |
| | | | | | | | | | |
| The second | | | | 3.00 | The second | | | | |
| a market | and the second | | and the second | 0 | 9 57 | | | | |
| | and the second | | | | | | | | |
| | | | | | | | | | |
| State of | | A STATE OF | and a start | | | THE STREET | | | |

dino tea leaf ha

01



| oacity | Remarks |
|--------|-----------------|
| kg | Remarks |
| 150 | For small truck |







Capacity

kg

900~1,800 For large truc

Remarks



Highly durable resin net





TCB-4000



Tea factory total management support system"Kaikei-san"

"Kaikei-san" consists of 5 systems.

1. Weighing and settlement system

From the tea leaf amount received from the farmer, we will cover the payment of the fee for tea leaves.

Manage and compile progresses of plucking, aggregation by tea farm, unit price pricing of tea leaves, etc.

It can also be linked with traceability systems and Fresh leaf grading systems.

2. Traceability system

It is a software to manage the cultivation history recorded by the farmer and attach the cultivation history to the tea manufactured at the tea factory. It is a system to raise credibility from society and customers.

3. Fresh leaf grading system

It is a software to manage and compile the ingredients of tea leaves analyzed by "fresh leaf grading equipment (LJM-2)". Also, considering the state of plucking and appearance evaluation, you can decide the grade of tea leaves.

4. Tea sales system

It is a software to compile and manage the selling price of tea, entered amount. By setting different arrangements for each busuness partner, the actual deposit amount is immediately calculated.

5. Labor management system

It is a software to process wage calculation in a tea factory.

In this system, we will automatically make a difference in hourly wage for each individual and withholding tax.

Operation is easy.

The screen is designed to be easy to see and understand. The menu screen shows the functions you use everyday and you can quickly find the function you use for work.







100 40 51 400 101 51 102 55 55 55 101 51 102 55 55 555 101 11 102 55 55 555

*These controllers are leady to English caption.

Fresh leaf analyzer

Analyze the three internal components of tea leaves.

Analyze internal components of tea leaves that can not be analyzed by sensory test. (moisture, nitrogen, fiber) Tea leaves in the sample box is automatically Analyzed and the result is printed after 60 seconds. Although it can be used alone, it can be

linked with the leaf grading system of "Kaikei-san".





specifications *Usage environment 0~40°C, 30~90%RH(with no condensation)

| Tupa | Width | Height | Length | Weight | Power | Time | Measurement | |
|-------|-------|--------|--------|--------|-------|------|-------------|--|
| Туре | mm | mm | mm | kg | kW | Sec | object | |
| LJM-2 | 700 | 1,770 | 660 | 180 | 1.0 | 60 | Tea leaves | |

Fresh leaf receiving container & Green leaf sample conveyor



Fresh leaf receiving container gradient type

It is suitable for cases where modification of tea leaves receiving equipment is considered by enlarging the container type picking machine

It is a space-saving type of ground-based tea leaves receiving equipment that makes large-scale construction unnecessary.

Automatic fresh leaf container supply equipment







╘━┙ Block 1 Block 2 Block 3 Block 4

Method that is packed ahead and piled up. It supplies one row at a time by a predetermined number from the forward end of the specified block. It is a "First-In First-Out" method.

It is suitable for individual manufacture.

Whole area supply method. (A) It supplies to the whole area in one specified block. Fresh leaf can be mixed when discharging,

Whole area supply method. (B) It supplies to the whole area in two specified block. More certain fresh leaf can be mixed.

Manual supply

The feed conveyor is moved to an arbitrary position by the remote control and supplies it.



By changing from a personal database to a network correspondence database, operation in the network environment became comfortable.

In case of operation with 2 units.



In case of operation with 3 or more units.



Smooth fresh leaf acceptance is possible with underground-type container.

The lump of a fresh leaf is loosened and it cools by the cold wind. Input becomes easy by the underground type. Since two or more persons can do unloading simultaneously, they can receive leaves smoothly.



Fresh leaf sample conveyor

The sample can be gathered with the sample conveyor automatically.



RYC-Mk

.........

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#.A.T. 6

The supply method can be variously chosen.

The supply method of three types and four patterns can be selected. There is no unevenness in the supply by the conveyor to perceive the presence of the tea leaf with the tea leaf confirmation sensor and to move, and it piles up flatly.

The height of loading is observed with the brimmer sensor.



Supply control panel RMH-4C option Temperature monitoring Fan switch for receiving containers.

emote contro







04

Automatic fresh leaf container



Equipment for taking out.

Store the green leaves with the freshness longer as fresh-picked.

Fan structured in body each block and safe not having projections in aisle. There is enough space under the container for ventilation which is good for fresh leaf cooling. (Air around container is used for fresh leaf cooling. Ventilation inside room is

Can be chosen from 5 types.

important)

We can choose it by the required amount and space, a management method from 5 types from a super wide model to MT type.



Spray humidification

A micro fog is generated from a ceramic nozzle. Adjustment of the amount of humidification suitable for fresh leaf is possible.

specifications

Fresh leaf receiving container

| The shirted | | | | | | | | | | | | | |
|----------------------------|-----------|--------------|-------|--------|---------|---------|----------|----------|--------------------|--|--|--|--|
| | | L aus aut la | | Height | Mainlet | | Pov | ver | Capacity | | | | |
| Т | уре | Length | Width | | Weight | Crawler | Scraping | Fan | (Fresh tea leaves) | | | | |
| | | mm | mm | mm | kg | kW | kW | kW | kg | | | | |
| | RUC-1N | 3,245 | 2,415 | 2,040 | 1,170 | 0.4 | 0.75 | 0.75 | 225~450 | | | | |
| Receiving from the back | RUC-1NB | 3,245 | 2,415 | 2,040 | 1,170 | 0.4 | 0.75 | 0.75 | 225~450 | | | | |
| type | RUC-1SWH | 3,245 | 4,700 | 2,330 | 2,000 | 0.75 | 0.75 | 1.5 x 2 | 700~1,400 | | | | |
| | RUC-1SWHB | 3,245 | 4,700 | 2,330 | 2,000 | 0.75 | 0.75 | 1.5 x 2 | 700~1,400 | | | | |
| | RUC-2N | 5,045 | 2,415 | 2,040 | 1,660 | 0.4 | 1.5 | 0.75 x 2 | 450~900 | | | | |
| Receiving from the side | RUC-3N | 6,845 | 2,415 | 2,040 | 2,020 | 0.4 | 1.5 | 0.75 x 3 | 675~1,350 | | | | |
| type | RUC-2W | 5,045 | 3,015 | 2,040 | 1,710 | 0.4 | 1.5 | 0.75 x 2 | 600~1,200 | | | | |
| | RUC-3W | 6,845 | 3,015 | 2,040 | 2,070 | 0.4 | 1.5 | 0.75 x 3 | 900~1,800 | | | | |
| Gradient type | RUC-MK | 3,710 | 3,000 | 2,030 | 950 | 0.2 | 0.4 | - | 200~480 | | | | |

| Automa | tic fresh leaf | contair | ner | | | | r SWH,UWH can select o | | | ith 3 or more frames | |
|------------------|----------------|----------|-------|---------|---------|------------------|---------------------------|----------|----------|----------------------|--|
| | | Lougette | Width | Lloight | Maialat | | Pov | wer | | Capacity | |
| Т | уре | Length | width | Height | Weight | Crawler Scraping | | Fan | | (Fresh tea leaves) | |
| | | mm | mm | mm | kg | kW | kW | kW | | kg | |
| | RYC-4SWH | 9,245 | 4,700 | 2,330 | 3,960 | 0.75 | 0.75 | 1.5 | x 8 | 3,100~6,200 | |
| SWH type 4.1m | RYC-6SWH | 13,245 | 4,700 | 2,330 | 5,180 | 0.75 | 0.75 | 1.5 x 12 | | 4,700~9,400 | |
| one frame length | RYC-8SWH | 17,245 | 4,700 | 2,330 | 6,400 | 0.75 | 0.75 | 1.5 | x 16 | 6,300~12,600 | |
| 2.0m | RYC-10SWH | 21,245 | 4,700 | 2,330 | 7,620 | 0.75 | 0.75 | 1.5 x 20 | | 7,900~15,800 | |
| | RYC-4UWH | 8,645 | 3,600 | 2,330 | 2,565 | 0.4 | 0.75 | 1.5 x 4 | 0.15 x 2 | 1,800~3,600 | |
| UWH type 3.0m | RYC-6UWH | 12,245 | 3,600 | 2,330 | 3,385 | 0.4 | 0.75 | 1.5 x 6 | 0.15 x 2 | 2,700~5,400 | |
| one frame length | RYC-8UWH | 15,845 | 3,600 | 2,330 | 4,205 | 0.4 | 0.75 | 1.5 x 8 | 0.15 x 2 | 3,600~7,200 | |
| 1.8m | RYC-10UWH | 19,445 | 3,600 | 2,330 | 5,025 | 0.4 | 0.75 | 1.5 x 10 | 0.15 x 2 | 4,500~9,000 | |
| | RYC-4WH | 8,645 | 3,015 | 2,330 | 2,530 | 0.4 | 0.75 | 1.5 x 4 | 0.15 x 2 | 1,500~3,000 | |
| WH type 2.5m | RYC-6WH | 12,245 | 3,015 | 2,330 | 3,350 | 0.4 | 0.75 | 1.5 x 6 | 0.15 x 2 | 2,250~4,500 | |
| one frame length | RYC-8WH | 15,845 | 3,015 | 2,330 | 4,170 | 0.4 | 0.75 | 1.5 x 8 | 0.15 x 2 | 3,000~6,000 | |
| 1.8m | RYC-10WH | 19,445 | 3,015 | 2,330 | 4,990 | 0.4 | 0.75 | 1.5 x 10 | 0.15 x 2 | 3,700~7,500 | |
| | RYC-4N | 8,645 | 2,415 | 2,040 | 2,480 | 0.4 | 0.75 | 1.5 x 4 | 0.15 x 1 | 900~1,800 | |
| N type 1.9m | RYC-6N | 12,245 | 2,415 | 2,040 | 3,300 | 0.4 | 0.75 | 1.5 x 6 | 0.15 x 1 | 1,350~2,700 | |
| one frame length | RYC-8N | 15,845 | 2,415 | 2,040 | 4,120 | 0.4 | 0.75 | 1.5 x 8 | 0.15 x 1 | 1,800~3,600 | |
| 1.8m | RYC-10N | 19,445 | 2,415 | 2,040 | 4,940 | 0.4 | 0.75 | 1.5 x 10 | 0.15 x 1 | 2,250~4,500 | |
| | RYC-2MT | 5,130 | 1,763 | 1,598 | 960 | 0.09 | 0.2 | 0.75 | 5x2 | 330~660 | |
| MT type 1.4m | RYC-3MT | 7,195 | 1,763 | 1,598 | 1,380 | 0.09 | 0.2 | 0.75 | 5 x 3 | 500~1,000 | |
| one frame length | RYC-4MT | 9,260 | 1,763 | 1,598 | 1,800 | 0.09 | 0.2 | 0.75 | 5 x 4 | 660~1,320 | |
| 2.0m | RYC-5MT | 11,325 | 1,763 | 1,598 | 2,220 | 0.2 | 0.2 | 0.75 | бх5 | 825~1,650 | |



· ファン制御盤 ENT-40

. RMF-4UK



. RMT-1D



Suitable for small to medium tea factory.

Movement can be freely done with a caster.(RYC-300TN) It operates automatically with automatic discharge equipment. The net conveyor made of resin was adopted, and it was sanitary and realized the weight saving.



specifications

| | Longeth | Width | L La Carlada | Weight | | Power | Capacity | | |
|------------------------|---------|-------|--------------|--------|--------------|----------|----------|--------------------|--|
| Туре | Length | width | Height | weight | Net conveyor | Scraping | Fan | (Fresh tea leaves) | |
| | mm | mm | mm | kg | kW | kW | kW | kg | |
| RYC-300TN | 2,550 | 1,475 | 1,225 | 280 | - | - | 0.4 x1 | 150~300 | |
| RYT-2(Take out device) | 800 | 1,850 | 1,250 | 120 | 0.09 | 0.2 | - | - | |

Mobile container

Suitable for individually manufacturing tea leaves and small leaf amount.

Movement can be freely done with a caster. The door can carry out full opening in one-touch.

specifications

| | Longeth | Width | Height | Mainlat | Power | | |
|--------|---------|-------|--------|---------|----------|----------|--|
| Туре | Length | width | Height | Weight | Fan 60Hz | Fan 50Hz | |
| | mm | mm | mm | kg | kW | kW | |
| RY-100 | 1,310 | 905 | 940 | 86 | 0.15x1 | 0.15x2 | |
| RY-200 | 1,310 | 1,810 | 1,045 | 132 | 0.15xx2 | 0.15x3 | |

Sieving machine

Clean tea can be made by removing leaf scraps and foreign materials.

Can be removed the insects, chopped leaves, stones, dust etc. mixed to the fresh leaves before steaming. By removing chopped leaves and other foreign materials, clear steaming is possible. (Chopped leaves will be fermented, and affect flavour, color etc.) Excellent color and flavour can be achieved since smooth steaming is possible by reducing stuck of net drum. And the cleaning process has become easy.



23

Mesh drum



specifications

| Fresh leaf rot | tating s | sieve n | nachine | | | | | |
|----------------|----------|---------|---------|--------|---------------|-------------|-------|----------|
| Tunn | Length | Width | Height | Weight | Drum diameter | Drum length | Power | Rotation |
| Туре | mm | mm | mm | kg | mm | mm | kW | rpm |
| DS-12 | 2,330 | 1,000 | 1,240 | 180 | 650 | 1,390 | 0.2 | 24 |
| DS-20 | 3,280 | 1,350 | 1,780 | 330 | 1,000 | 1,950 | 0.2 | 23 |



| Fresh leaf vib | Fresh leaf vibrating sieve machine | | | | | | | | | | | | | |
|----------------|------------------------------------|-------|--------|--------|-------|----------|--|--|--|--|--|--|--|--|
| Tunn | Length | Width | Height | Weight | Power | Capacity | | | | | | | | |
| Туре | mm | mm | mm | kg | kW | kg/h | | | | | | | | |
| DST-1 | 2,100 | 620 | 700 | 120 | 0.2 | 480 | | | | | | | | |





Highly durable resin net





Fresh leaf rotating sieve machine

Capacity esh tea lea

kg

50~100 100~200

Frsh leaf vibrating sieve machine

Capacity

kg/h

700

2,000

Mesh

φ0.8,#6 SUS

24 φ0.8,#6 SUS

Original screen







Fresh leaf management equipment

Fresh leaf washing machine and spin dryer device.

Shower washing + Dipping jet flow Power is demonstrated by bubbling wash!

Tea leaves are fed into the water by inundation device.

A large amount of air is sent underwater and washed clean by the power of a bubble and the water flow.

Finish washing part : spray and shower washing tea leaf is washed in the rotation wire net drum by high-pressure shower (tap water).

%1,200 and 1,600k line, multiple dehydrators 回渡為回 are required.



specifications

| Washing net co | nveyor | | | | | | 6 |
|----------------|--------|-------|---------------|-------|------|---------------------|-------------------------------------|
| | Length | Width | Hoight | Pov | wer | | |
| Туре | Length | wath | Height Convey | | Pump | Adaptation | Remarks |
| | mm | mm | mm | kW kW | | | |
| SNC-6 | 3,130 | 1,160 | 1,380 | 0.2 | 0.4 | For 800~1,600k line | Chain guide type, Mesh belt system. |

| Frsh leaf washir | ng machir | ie | | | | | | | | | |
|------------------|-----------|-------|--------|----------------------|--------|------------------|---------|-------------|------------|-------------|--|
| | | | | | Po | wer | | Water | Water tank | Processing | |
| Туре | Length | Width | Height | Inundation device | Blower | Pump for streams | Drum | consumption | capacity | capacity | |
| | mm | mm | mm | kW | kW | kW | kW | L/min | L | kg/h | |
| STS-800 | 4,590 | 1,700 | 2,450 | 0.2 | 5.5 | 0.75 | 0.4 | 50 | 3,400 | 600~800 | |
| STS-1200 | 6,290 | 1,700 | 2,450 | 0.2 | 6.3 | 1.5 | 0.4 | 75 | 4,600 | 1,000~1,200 | |
| STS-1600 | 7,990 | 1,700 | 2,450 | 0.2x2 | 11.0 | 1.5 | 0.4 x 2 | 100 | 6,900 | 1,200~1,600 | |

Spin dryer supply conveyor

| Туре | Length | Width | Height | Power | Adaptation | Remarks |
|-----------|--------|-------|--------|----------|-----------------------|-------------------------------------|
| | mm | mm | mm | kW | | |
| DNT-5 | 4,140 | 860 | 1,490 | 0.4 | For 800k line | |
| DNT-6 | 4,820 | 960 | 1,490 | 0.4 | For 1,200k line | Chain guide type, Mesh belt system. |
| DNT-7 | 5,820 | 960 | 1,490 | 0.75、0.1 | For 1,600k line | |
| BD5-16STD | 2,200 | 780 | 490 | 0.2 | For 1,200/1,600k line | 500 width, forward and reverse, |
| BD5-31STD | 4,000 | 780 | 490 | 0.2 | For 1,600k line | Sink, Stand with. |

| Spin dryer | | | | | | |
|------------|--------|-------|--------|-------|------------------|------------------------------|
| Туре | Length | Width | Height | Power | Green leaf input | Remarks |
| | mm | mm | mm | kW | kg / once | |
| STD-450 | 1,220 | 1,220 | 2,350 | 1.5 | 5~9 | |
| STD-800 | 1,800 | 1,800 | 2,500 | 2.2 | 9~13 | Air compressor is necessary. |

Fresh leaf Pre-dryer

Removes foreign materials at the same time while removing surface moisture efficiently.

specifications

| Туре | Length | Width | Height | Drum | Weight | Power (Drum) | Processing capacity |
|-------|--------|-------|--------|-------|--------|-----------------|------------------------|
| | mm | mm | mm | mm | kg | kW | kg/h |
| RD-12 | 1,650 | 4,120 | 2,370 | 1,100 | 1,150 | 0.4 | 500~900 |
| RD-20 | 1,840 | 4,120 | 2,370 | 1,250 | 1,300 | 0.75 | 800~1,200 |
| RD-25 | 1,840 | 5,120 | 2,370 | 1,250 | 1,550 | 0.75 | 1,200~1,600 |



Steaming process equipment

Boiler

For setting the amount of steam, efficiently, and supplies the steam in a stable manner.

The main part is a product made from all aluminum plating. By an original three pass method, it is an energy saving type. An economizer is equipped standardly. The water level can be easily set with a dial.





Standard boiler control panel



Boiler control panel of microcomputer control



% The recomm

specifications

| Туре | Steam chamber size | Length | Width | Height | Weight | Power | Heat exchange area | Evaporation amount | Recommended evaporation amount | Heavy oil consumption | Max LPG consumption | Chimney diameter |
|---------|-----------------------|--------|-------|--------|--------|-------|-----------------------|-----------------------|-----------------------------------|--------------------------|------------------------|---------------------|
| | (Inch designation) | mm | mm | mm | kg | kW | m ² | kg/h | kg/h | L/h | kg/h | mm |
| BT-160 | 4 x 8 | 1,580 | 960 | 2,080 | 567 | 0.25 | 2.87 | 60~160 | 110 | 4.7~10.4 | - | 200 |
| BT-160G | 4 x 8 | 1,580 | 960 | 2,080 | 567 | 0.4 | 2.87 | 50~120 | 110 | - | 12.4 | 200 |
| BT-200 | 4 x 10 | 1,620 | 1,160 | 2,380 | 705 | 0.4 | 3.1 | 80~200 | 140 | 6.6~12.3 | - | 200 |
| BT-200G | 4 x 10 | 1,620 | 1,160 | 2,380 | 705 | 0.4 | 3.1 | 60~165 | 140 | - | 16.6 | 200 |
| BT-250 | 5 x 10 | 1,950 | 1,160 | 2,400 | 741 | 0.4 | 3.48 | 110~250 | 175 | 9.4~15.0 | - | 200 |
| BT-300 | 5 x 11 | 1,980 | 1,220 | 2,440 | 818 | 0.25 | 3.49 | 140~300 | 210 | 12.3~20.9 | - | 200 |

Fresh leaf flowmeter

By accurate weighing of tea leaves, leaves can be supplied to the steamer steadily.

Green leaf flowmeter supplies a fixed amount of green leaves continuously to the steamer. Exact measuring of leaves by load cell.

RA-C11F Frsh leaf flow control panel





SNK-10,15 : Measuring device

RK-50T : Fresh leaf feeder for steamer

specifications

| | | Length | Width | Llaiaht | Weight | | | Power | | | Processing |
|--------|--------------------------------------|----------------|-------|---------|--------|------|----------|-------|-----------|-----------------|------------|
| Туре | Adaptation | (input~output) | WIGLN | Height | weight | Belt | Leveling | Screw | Measuring | Trough conveyor | capacity |
| | | mm | mm | mm | kg | kW | kW | kW | kW | kW | kg/h |
| RK-40S | For tencha | 1,864 | 700 | (3,300) | 140~ | 0.2 | 0.1 | 0.2 | 0.06 | - | 50~150 |
| RK-40 | Standard | 1,864 | 700 | (2,830) | 140~ | 0.2 | 0.1 | 0.2 | 0.06 | - | 150~500 |
| RK-50 | High flow rate type | 1,964 | 800 | (2,930) | 140~ | 0.2 | 0.1 | 0.2 | 0.06 | - | 400~800 |
| RK-40T | Trough conveyor input type | 2,124 | 1,100 | (3,510) | 140~ | 0.2 | 0.1 | 0.2 | 0.06 | 0.2 | 150~450 |
| RK-50T | High flow,trough conveyor input type | 2,124 | 1,100 | (3,610) | 140~ | 0.2 | 0.1 | 0.2 | 0.06 | 0.2 | 400~700 |



| mendation | for | stable | continuous | use | is | about | 70% | of | the | maximum | evaporation | amount. |
|-----------|-----|--------|------------|-----|----|-------|-----|----|-----|---------|-------------|---------|
| | | | | | | | | | | | | |



 $\ensuremath{\mathbbmm{\%}}$ Processing capacity is conversion of fresh leaves.

Steaming process equipment

Tea steamer

Steamed leaves are finished in fresh green color, fragrance is good, and it is uniform.

Excellent warmth in steaming with stainless structure, prevents the dew and makes unified steaming possible to the core.

All the parts to touch the tea leaves are stainless.

The drum and shaft motor have seperate motors which can be controlled by inverter. Structure has become simple and easy for cleaning.

Pitch of stirring blade and wire mesh capacity can be selected from 3 types. correspond to various leaves and steaming.

Angle of the drum can be set variably to change the steaming.

It is easy for cleaning, since the covers are easily dechable and with a cleaning door setting.



specifications

| | Drum diameter | Drum length | Width | Length | Height | Weight | Length | | Power | | Processing capacity |
|-----------|---------------|-------------|-------|--------|--------|--------|----------------|-------|-------|---------------|---------------------|
| Туре | | Drumiengun | width | Length | Height | weight | (input~output) | Shaft | Drum | Tilting motor | (leaves conversion) |
| | mm | mm | mm | mm | mm | kg | mm | kW | kW | kW | kg/h |
| T- 7- 200 | | 150 short | | 2,110 | | 255 | 1,320 | | | | 90~140 |
| T- 7- 250 | φ210 | Standard | 680 | 2,260 | 900 | 275 | 1,470 | 1.5 | 0.4 | (0.2) | 113~175 |
| T- 7- 300 | | 150 long | | 2,410 | | 295 | 1,620 | | | option | 135~210 |
| T- 8- 300 | | 150 short | | 2,360 | | 295 | 1,570 | | | | 135~210 |
| T- 8- 350 | φ240 | Standard | 680 | 2,510 | 900 | 310 | 1,720 | 2.2 | 0.4 | (0.2) | 158~245 |
| T- 8- 400 | | 150 long | | 2,660 | | 330 | 1,870 | | | option | 180~280 |
| T- 9- 450 | | Standard | | 2,805 | | 480 | 1,950 | | | | 203~315 |
| T- 9- 550 | φ270 | 150 long | 815 | 2,955 | 1,050 | 500 | 2,100 | 3.7 | 0.4 | (0.2) | 248~385 |
| T- 9- 600 | | 300 long | | 3,105 |] | 520 | 2,250 | | | option | 270~420 |
| T-10- 700 | | Standard | | 2,990 | | 500 | 2,150 | | | | 315~490 |
| T-10- 750 | φ300 | 150 long | 875 | 3,140 | 1,050 | 520 | 2,300 | 3.7 | 0.4 | (0.2) | 338~525 |
| T-10- 800 | | 300 long | | 3,290 | | 550 | 2,450 | | | option | 360~560 |
| T-11- 850 | | Standard | | 3,240 | | 650 | 2,300 | | | | 383~595 |
| T-11- 950 | φ330 | 150 long | 895 | 3,390 | 1,200 | 675 | 2,450 | 3.7 | 0.4 | (0.2) | 428~665 |
| T-11-1000 | | 300 long | | 3,540 | | 700 | 2,600 | | | option | 450~700 |
| T-12-1100 | | Standard | | 3,370 | | 685 | 2,440 | | | | 495~770 |
| T-12-1200 | φ360 | 150 long | 960 | 3,520 | 1,200 | 710 | 2,590 | 5.5 | 0.4 | 0.4 | 540~840 |
| T-12-1250 | | 300 long | | 3,670 | | 740 | 2,740 | | | | 563~875 |
| T-13-1300 | | Standard | | 3,665 | | 765 | 2,600 | | | | 585~910 |
| T-13-1450 | φ 390 | 150 long | 1,075 | 3,815 | 1,500 | 800 | 2,750 | 5.5 | 0.75 | 0.4 | 630~980 |
| T-13-1500 | | 300 long | | 3,965 | | 840 | 2,900 | | | | 675~1,050 |

Steaming post-treatment machine

Soften the tea leaves by scattering.

Scattering the leaves after steaming helps to make dark green color. Softened steamed leaves are getting a better thin shape. Suitable when the scattering is not enough with only by steamer for hard leaves and thick mesophyll. Easy to occur leaf cutting and powdered product when trying to do enough scattering for hard leaves with drum type steamer.

If you do not use this machine, can be connected with upper bypass.

specifications

| | Drum diameter | Width | Longstla | Height | Weight | Length | | Pov | wer | | Processing capacity |
|---------|---------------|-------|----------|--------|--------|----------------|-------|------|---------|-----------------|---------------------|
| Туре | | width | Length | Height | weight | (input~output) | Shaft | Drum | Tilting | Bypass conveyor | (leaves conversion) |
| | mm | mm | mm | mm | kg | mm | kW | kW | kW | kW | kg/h |
| TMG-300 | ¢210 | 672 | 2,400 | 1,510 | 410 | 1,160 | 3.7 | 0.4 | Manual | 0.2 | 200~300 |
| TMG-400 | φ240 | 752 | 2,470 | 1,544 | 540 | 1,260 | 3.7 | 0.4 | Manual | 0.2 | 300~400 |
| TMG-500 | ¢270 | 752 | 2,640 | 1,554 | 590 | 1,360 | 5.5 | 0.75 | Manual | 0.2 | 350~500 |
| TMG-650 | \$ 300 | 932 | 2,770 | 1,635 | 800 | 1,530 | 7.5 | 0.75 | Manual | 0.2 | 500~650 |
| TMG-800 | \$ d 330 | 932 | 2,970 | 1,650 | 820 | 1,660 | 7.5 | 0.75 | Manual | 0.2 | 600~800 |
| TMG-950 | <i>\$</i> 360 | 993 | 3,230 | 1,805 | 1,100 | 1,815 | 11.0 | 0.75 | Manual | 0.2 | 700~950 |



By removing surface moisture of the steamed tea leaves efficiently, the color, and fregrance of product improves.

Steamed leaf pre-dryer (rotary drum type)

A hot wind is applied to the steamed leaf and surface water is removed. It is comprised of rotation wire net drum (stainless

steel) and an original diffusion board.



■ specifications

| | Width | Length | Height | Weight | Power | | | Po | wer | Oil | Air flow | Drum | Processing |
|--------|-------|--------|----------|--------|-------|----------|----------------------------|-----|--------|-------------|---------------------|--------------|--------------------|
| Туре | width | Length | Tielgitt | weight | Drum | Conveyer | Adaptive heat exchanger | Fan | Burner | consumption | All HOW | rotation | capacity |
| | mm | mm | mm | kg | kw | kw | nout oxonangor | kW | kW | L/h | m ³ /min | rpm | kg/h |
| KNE-12 | 4,140 | 1,960 | 2,310 | 1,200 | 0.4 | 0.2 | - | 2.2 | 0.4 | 8.2~16.2 | $45 \sim 135$ | $15 \sim 25$ | $500 \sim 900$ |
| NE-20 | 4.120 | 1.840 | 2.520 | 1,100 | 0.75 | 0.2 | HLS-25AE | 3.7 | 0.75 | 9.8~19.6 | 60 ~ 200 | 14 04 | 800~1,000 |
| INE-20 | 4,120 | 1,840 | 2,520 | 1,100 | 0.75 | 0.2 | HLS-25BE | 5.5 | 0.75 | 12.2~24.5 | $75 \sim 250$ | 14~24 | 1,000 ~ 1,200 |
| NE-25 | 5,120 | 1,840 | 2,520 | 1,300 | 0.75 | 0.2 | HLS-30E | 7.5 | 0.75 | 14.7 ~ 29.4 | 100~300 | $14 \sim 24$ | $1,200 \sim 1,600$ |

Steamed leaf pre-dryer (fixed body type)

The contact time of steamed leaf and hot wind becomes long. Cleaning can be done easily and safely with stainless drum and front, rear cleaning doors.



specifications

| | Width | Leneth | Lisisht | W/sisht | Power | A 11 | Power | | Oil | | Shaft | Processing |
|-------|-------|--------|---------|---------|-------|----------------------------|-------|--------|-------------|---------------|----------|----------------|
| Туре | width | Length | Height | Weight | Power | Adaptive heat exchanger | Fan | Burner | consumption | Air flow | rotation | capacity |
| | mm | mm | mm | kg | kw | | kW | kW | L/h | m³/min | rpm | kg/h |
| NR-12 | 3,210 | 1,444 | 2,080 | 730 | 1.5 | HLS-20AE | 2.2 | 0.4 | 6.8~13.7 | $45 \sim 140$ | 18~24 | $300 \sim 500$ |
| NR-20 | 4,110 | 1,444 | 2,080 | 1,000 | 1.5 | HLS-20BE | 3.7 | 0.75 | 8.3~16.6 | 50 ~ 170 | 18~24 | $500 \sim 900$ |
| NR-25 | 5,035 | 1,444 | 2,080 | 1,200 | 2.2 | HLS-25AE | 3.7 | 0.75 | 9.8~19.6 | $60 \sim 200$ | 18~24 | 800~1,200 |

Fresh leaf feeder

Belt speed can be changed variably with an inverter. Stable fresh leaves feeding is possible with scraping off device. Hygenic with the spilt leaves collecting device.





Steamed leaf cooling machine

Cooled effectively by removing dew with two staged cooling structure and reverse

RK-1





Туре mm NB-500 633 NB-600 733 NB-750 975 NB-1,000 1,225 NC-500 935 NC-600 1,035 NC-750 1,183 NC-1,000 1,446 H&C-500 723 H&C-600 1,150 H&C-750 1,300 H&C-1,000 1,570

NB-500

TMG-500





NR-25

specifications

| Width of belt | Width | Length | Height | Power | Adaptation of |
|---------------|-------|--------|--------|-------|----------------------|
| mm | mm | mm | mm | kW | tea steaming machine |
| 300 | 750 | 1,895 | 1,930 | 0.2 | \sim T-7-300 |
| 400 | 850 | 1,895 | 1,920 | 0.4 | T-7-300 ~ T-9-450 |
| 400 | 850 | 2,130 | 2,150 | 0.4 | T-9-450 \sim |
| 400 | 770 | 2,320 | 1,990 | 0.4 | T-7-300 ~ T-8-400 |
| 400 | 770 | 2,590 | 2,220 | 0.4 | T-9-450 \sim |

| Length | Height | | Power | | LPG | Processing | | |
|--------|--------|----------|-------|-------|-------------|------------|-----|-------|
| Length | Height | Conveyor | Fa | an | consumption | capacity | | |
| mm | mm | kW | k | W | kg/h | kg/h | | |
| 2,600 | 1,400 | 0.2 | 0.2 | 0.1 | - | 400 | | |
| 2,600 | 1,400 | 0.2 | 0.4 | 0.1 | - | 600 | | |
| 3,350 | 1,520 | 0.2 | 0.75 | 0.1 | - | 1,000 | | |
| 3,350 | 1,520 | 0.4 | 1.5 | 0.1 | - | 1,350 | | |
| 2,515 | 1,800 | 0.2 | 0.4 | х 2 | - | 400 | | |
| 3,200 | 1,800 | 0.4 | 0.75 | 5 x 2 | - | 600 | | |
| 3,370 | 1,800 | 0.4 | 0.75 | 5 x 2 | - | 1,000 | | |
| 3,370 | 1,800 | 0.4 | 0.75 | 5 x 2 | - | 1,350 | | |
| 2,495 | 1,900 | 0.2 | 0.75 | | 0.75 | | 1.8 | 400 |
| 3,180 | 1,900 | 0.4 | 1.5 | | 1.5 | | 2.4 | 600 |
| 3,350 | 1,900 | 0.4 | 1.5 | | 1.5 | | 3.2 | 1,000 |
| 3,350 | 2,000 | 0.4 | 1.5 | | 1.5 | | 4.2 | 1,350 |

Tea scattering dryer

Efficient scattering improves color and fragrance.

By gaining wide space (1.4 times of primary drver), smooth scattering & efficient hot air hitting is possible for excellent colour & flavour, Structured as to flow the hot air thoroughly and exhaust air with high humidity releasing. Gained wide space up shaft for shaking. If dried only with wind, quality would drop and wide space is needed. According to the process, all stiring arm, scatteing arm combined specification can be selected.

Batch type

Effective scattering is possible with wide space. Scattering process helps the quality as excellent color & flavour etc.

volantary time setting of scttering is possible . Suitable for individual rolling, variety change, small amount & many variety.

Continuous flow type

Without any waste in continuous type, quality like color & flavour raises.

Effective scattering is possible without holding the leaves.

There won't be any leaf stuffiness with continuous process and suitable for heavy steamed tea & special steamed tea production.

The machine is with two specification room structure and can be chosen for room 1 scattering (scattering arm structure), room2 scattering and rubbing (scattering arm & press arm).

Adjusting device for accurate quantity.

With Terada original fan type chute, sending quantity from room1 to room2 in drum can be adjusted. Discharging amount from scattering dryer can be adjusted by the discharging trough conveyor amount.

Both sending & discharging is processed above from main shaft. If the holding amount increases, also the sending & discharging amount increases to stable.





The chute which adjust the quantity to send

Trough conveyor to adjust the amount you take out.



By sending air in a cold wind from under the net, steamed leaf won't get stuffy. By supplying it little by little, load won't be applied to main shaft, scattering arm and press arm.

The liad cell type net conveyor which achieves highly accurate load detection.

specifications

| | | Lawath | Lisialat |))//=:=l=t | Pov | wer |
|-------|-------|--------|----------|------------|----------|------|
| Туре | Width | Length | Height | Weight | Conveyor | Fan |
| | mm | mm | mm | kg | kW | kW |
| KN-20 | 5,110 | 1,400 | 1,100 | 500 | 0.2 | 0.75 |
| KN-25 | 5,310 | 1,600 | 1,100 | 650 | 0.2 | 0.75 |
| KN-30 | 5,410 | 1,600 | 1,135 | 710 | 0.2 | 0.75 |





Voisture measuring sampling device by near-infrared rays

The moisture of leaves is measured and viewed in control panel in comparatively hiah moisture field.



Scaling hoppe



Steamed leaf is uniformly accumulated in a hopper with an induction conveyor. The measurement method has a load cell of high precision, and an easy mechanical type.

specifications

| Туре | Width | Length | Height | Weight |
|-------|-------|--------|--------|--------|
| | mm | mm | mm | kg |
| MH-4 | 1,580 | 535 | 790 | 60 |
| MH-6 | 1,880 | 535 | 790 | 75 |
| MH-12 | 2,480 | 625 | 830 | 115 |

Primary tea rolling dryer (wide type)

Suitable for rolling process after wide space scattering.

Rolled according to volume changing in primary drying process and increases the qualities of tea like color and flavour etc.

Suitable after scattering by 1.2 times lager scattering dryer than primary dryer, effective drying is processed with balanced tea spread and arm pressure, leads excellent color & flavour of tea.

Designated in increased structural limits same with scattering dryer for ideal rubbina.



Primary tea rolling dryer (karo-pack type & standard type)

Excellent in rubbing, takes out the moisture in leaves from core.

By rubbing, prevents the rising of leaf temperature which affects the tea quality like color & flavour.

With the structure of rubbing basis and made the drum radius for suitable thickness of tea. Rolled softly to the core without chopping the leaves. By keeping the hot air port backside below as to contact the leaves even with little air. Most suitable amount and speed of air is used according to the process.

Structure aimed better quality.

Avoiding too much drying by reducing the space on shaft which is suitable for soft rubbing and by resending a part of exhaust air inside the drum. By using original Terada type Karo-pack heating furnace suitable for high quality tea production and both the color and flavour gets better. With expanding the discharging port, tea won't be left when discharging.

Despite heavy oil heat efficient LPG direct fire type hot air generator can also be selected for hot air.





KS-120: Direct fire type hot generator

The design concept of the primary drying & rolling process



Capacity under shaft is 1.4 times of primary drying tea roller. Hot air rises from back side and releases tea leaves. Because the exhaust area was enlarged, smooth exhaust is possible

drying tea roller.

KN-20





% "Karo-pack" is the name of the heat exchanger integrated

Primary tea rolling dryer (wide type)

Primary tea rolling dryer



improvement and the low position of hot wind blowing

Primary drying and rolling process equipment

Discerning design in pursuit of quality.

Press arm

A special design was done for initial drying tea roller & wide primary drying tea roller and primary drying tea roller.

The crumpling up which suited the state of the tea leaves of each process is performed.

The spatula for tea roller press arm is rub well because it is long.

Scattering hand

A special design was done for initial drying tea roller & wide primary drying tea roller and primary drying tea roller.

The scattering of leaf which suited the state of the tea leaves of each process is performed.

The fingernail of initial drying tea roller & wide primary drying tea roller is long and thick, and it is also narrowed the interval. The fingernail for primary drying tea roller is slim and the interval is

wide. and it is strongly bending and tapered.

Angle adjustment type drying tea roller drum

The angle of drum can be changed while manufacturing tea. Can be easily adjusted according to the condition of the scattering tea leaf. (120k type or more is standard.)







The design that attached great importance to safety, designed for easy cleaning.

One-touch hook

A lock and the cancellation of the front door are possible in one-touch.



Cleaning flapper

The cleaning door of the front of a trunk and the rear surface can open and close to the front.

Cleaning and the adjustment in the machine are simple, and it is possible safely.

Rear cleaning door



Front cleaning door



Smooth opener

Front door, front cleaning door and rear cleaning door is equipped with a gas damper. Heavy door can also be opened and closed smoothly safely. (120k type or less is optional.)



Exhaust duct & ceiling

A proper exhaust area corresponding to the amount of the use style was designed. It does not filled with exhaust heat.

It doesn't become the overdry.

Powder collection device

Powder contained in the exhaust and a light foreign body are collected.





Control that draws out machine performance, & the design which pursued ease of use.

- Control panel for tea scattering dryer & primary tea rolling dryer (wide type)
- For tea scattering dryer (batch type)





SYS-76M

amount of winds, and hot wind temperature are 2-step control by 5-step control by dial. dial.

SYS-64A

A main shaft rotating, the A main shaft rotating, the amount of winds, and hot wind temperature are

0

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0

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This device allows you to control hot wind by temperature of tea.

Control panel for primary tea rolling dryer (wide type) & primary tea rolling dryer

Touch panel type

the hot wind temperature, the temperature of tea, and the process time. The number of processes can be selected from 2~5 processes, and full automatic (by Fuzzy logic) control can be chosen. The moisture of tea leaf is measured and wind amount is controlled. If target moisture is reached, it takes out automatically. A graph displays a change of the moisture until 14 minutes ago.

processes.







3-step control screen

5-step control screen

0

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-0-0-0

0

0

Dial type



A main shaft rotating,

the amount of wind, and

hot wind temperature

can be set by dial.



SYS-64A

A main shaft rotating, the amount of wind, and hot wind temperature are 2-step control by dial.

A main shaft rotating, the amount of wind, and hot wind temperature are 5-step control by dial.

SYS-76M

システム525 575-53



Primary drying and rolling process equipment

specifications

| Tea scatterin | g dryer (I | oatch type) | | | | | | | | | | *LPG speci | fications are | e also availat |
|---------------------------------------|------------|-------------|------------|--------------|-------|--------|-------|------------|----------|------------------------|----------|-------------------|---------------|----------------------------------|
| | Fror | ntage | Depth | Hei | ght | Weight | | Power | | Heavy oil | Air rate | Adaptation | Shaft | Batch capao |
| Туре | Width | Frame | Boptin | With exhaust | Frame | | Shaft | Fan | Burner | consumption | | heat exchanger | rotation | (leaves conver- |
| | mm | mm | mm | mm | mm | kg | kW | kW | kW | L/h | m/min | | rpm | kg |
| KSH-35 | 2,230 | 1,900 | 1,435 | - | 1,600 | 780 | 1.5 | 0.75 | 0.25 | 3.9~7.8 | 23~70 | - | 33~43 | 18~35 |
| KSH-60 | 2,890 | 2,490 | 1,620 | - | 1,850 | 1,370 | 2.2 | 2.2 | 0.25 | 6.9~13.9 | 42~125 | - | 33~43 | 30~60 |
| KSH-90 | 3,040 | 2,600 | 1,980 | - | 2,230 | 1,800 | 3.7 | 2.2 | 0.4 | 7.5~15.0 | 45~135 | - | 30~40 | 45~90 |
| NSH-120 | 4,050 | 3,550 | 1,790 | 2,880 | 2,230 | 1,760 | 3.7 | 5.5 7.5 | 0.75 | 12.2~24.5 14.7~29.4 | | HLS-25B HLS-30 | 30~40 | 60~120 |
| NSH-200 | 5,470 | 4,900 | 1,900 | 3,257 | 2,505 | 3,020 | 7.5 | 5.5 x 2 | 0.75 x 2 | 24.5~48.9 | | HLS-25Bx2 | 30~40 | 100~20 |
| NSH-250 | 6,260 | 5,600 | 1,972 | 3,307 | 2,555 | 3,510 | 11.0 | 7.5 x 2 | 0.75 x 2 | 29.4~58.7 | 150~600 | HLS-30x2 | 30~40 | 125~25 |
| Tea scatterin | g drver (| Continuous | flow type) | | | | | | | 1 | | %LPG speci | fications are | |
| Tea Seatter III | | itage | | Hei | aht | | | Power | | Heavy oil | | | Shaft | Corping copo |
| Туре | Width | Frame | Depth | With exhaust | Frame | Weight | Shaft | Fan | Burner | consumption | Air rate | Adaptation | rotation | Carrying capa (leaves convers |
| Type | mm | mm | mm | mm | mm | kg | kW | kW | kW | L/h | m³/min | heat exchanger | rpm | kg |
| SSH-90 | 3,030 | 2,550 | 2,025 | - | 2,070 | 1,330 | 3.7 | 1.5 | 0.4 | 6.7~13.3 | 30~120 | HLS-12B | 30~40 | 45~90 |
| | | | | | | | | 1.5 | | | | HLS-12B | 00.10 | |
| SSH-120 | 4,050 | 3,550 | 1,940 | 2,880 | 2,230 | 1,770 | 3.7 | 2.2 | 0.4 x 2 | 13.6~27.0 | 65~260 | HLS-20A | 30~40 | 60~120 |
| | | | | | | | | 5.5 | | | | HLS-25B | | |
| SSH-200 | 5,470 | 4,900 | 1,900 | 3,257 | 2,505 | 2,930 | 7.5 | 3.7 | 0.75 x 2 | 22.0~44.1 | 113~450 | HLS-25A | 30~40 | 100~20 |
| | | , | | , í | , | | | 5.5 x 2 | 0.75 x 2 | 24.5~48.9 | 125~500 | HLS-25Bx2 | | |
| | | | | | | | | 7.5 | | | | HLS-30 | | |
| SSH-250 | 6,260 | 5.600 | 1,972 | 3,307 | 2,555 | 3,470 | 11.0 | 5.5 | 0.75 x 2 | 26.9~53.9 | 138~550 | HLS-25B | 30~40 | 125~25 |
| | | | | | | | | 7.5 x 2 | 0.75 x 2 | 29.4~58.7 | 150~600 | HLS-30x2 | | |
| Primary tea | rolling dr | ver (wide | tvne) | · . | | | | | | | | *LPG speci | fications are | e also availat |
| | | ntage | | Hei | ght | | | Power | | Heavy oil | | | Shaft | Batch capac |
| Туре | Width | Frame | Depth | With exhaust | Frame | Weight | Shaft | Fan | Burner | consumption | Air rate | Adaptation | rotation | (leaves convers |
| 21 | mm | mm | mm | mm | mm | kg | kW | kW | kW | L/h | mੈ/min | heat exchanger | rpm | kg |
| NSW-120 | 3,550 | 3,050 | 1,940 | 2,880 | 2,230 | 1,500 | 3.7 | 3.7 | 0.75 | 8.3~16.6 | 42~170 | HLS-20B | 30~40 | 60~120 |
| | | | | | | | | 5.5 | 0.75 | 12.2~24.5 | 63~250 | HLS-25B | | |
| NSW-200 | 4,770 | 4,200 | 2,056 | 3,217 | 2,465 | 2,470 | 5.5 | 2.2 x 2 | 0.4 x 2 | 13.7~27.4 | 70~280 | HLS-20Ax2 | 30~40 | 100~20 |
| NSW-250 | 5,770 | 5,200 | 2,056 | 3,217 | 2,465 | 2,990 | 7.5 | 3.7 x 2 | 0.75 x 2 | 16.6~33.3 | 85~340 | HLS-20Bx2 | 30~40 | 125~25 |
| Primary tea | rolling dr | yer ("karo | -pack" typ | e) | | | | | | | | *LPG speci | fications are | e also availal |
| | Fror | itage | D 11 | Hei | ght | | | Power | | Heavy oil | A | | Shaft | Batch capad |
| Туре | Width | Frame | Depth | With exhaust | Frame | Weight | Shaft | Fan | Burner | consumption | Air rate | Adaptation | rotation | (leaves convers |
| | mm | mm | mm | mm | mm | kg | kW | kW | kW | L/h | mੈ/min | heat exchanger | rpm | kg |
| KS-35 | 1,900 | 1,600 | 1,355 | - | 1,600 | 570 | 0.75 | 0.75 | 0.25 | 3.1~6.2 | 14~56 | - | 33~43 | 18~35 |
| 1/0 00 | 0.000 | 1.000 | 1.550 | | 1.050 | 1.100 | 15 | 0.75 | 0.05 | 3.9~7.8 | 23~70 | - | 22.42 | 20.00 |
| KS-60 | 2,290 | 1,890 | 1,550 | - | 1,950 | 1,100 | 1.5 | 1.5 | 0.25 | 4.7~9.4 | 28~85 | - | 33~43 | 30~60 |
| K0.00 | 0.000 | 0.400 | 1.000 | | 1.050 | 1.070 | 0.0 | 1.5 | 0.05 | 6.1~12.2 | 37~110 | - | 22.42 | 45.00 |
| KS-90 | 2,890 | 2,490 | 1,620 | - | 1,950 | 1,270 | 2.2 | 2.2 | 0.25 | 6.9~13.9 | 42~125 | - | 33~43 | 45~90 |
| KS-120 | 3,050 | 2,550 | 2,000 | 2,980 | 2,380 | 1,790 | 3.7 | 1.5 | 0.4 | 6.7~13.3 | 30~120 | - | 33~40 | 60~120 |
| KS-200 | 4,570 | 4,000 | 2,320 | 3,010 | 2,410 | 3,200 | 5.5 | 3.7 | 0.4 | 8.9~17.7 | 40~160 | - | 33~40 | 100~20 |
| Primary tea | rolling dr | ver (stand | ard type) | | | | | | | | | *LPG speci | fications are | e also availat |
| i i i i i i i i i i i i i i i i i i i | -oning di | yer (standa | ard type) | | | | | | | | | | | 1 |

| · · · · · · · · · · · · · · · · · · · | | | 7 T 7 | | | | | | | | | | | |
|---------------------------------------|-------|-------|-------|--------------|-------|--------|-------|-------|--------|-------------|----------|----------------|----------|---------------------|
| | Fror | itage | Depth | Hei | ght | Waight | | Power | | Heavy oil | Air rate | | Shaft | Batch capacity |
| Туре | Width | Frame | Depth | With exhaust | Frame | Weight | Shaft | Fan | Burner | consumption | All Tale | Adaptation | rotation | (leaves conversion) |
| | mm | mm | mm | mm | mm | kg | kW | kW | kW | L/h | m³/min | heat exchanger | rpm | kg |
| | | | | | | | | 1.5 | 0.4 | 6.7~13.3 | 30~120 | HLS-12B | | |
| NS-120 | 3,050 | 2,550 | 1,940 | 2,980 | 2,380 | 1,320 | 3.7 | 2.2 | 0.4 | 6.9~13.7 | 35~140 | HLS-20A | 30~40 | 60~120 |
| | | | | | | | | 3.7 | 0.75 | 8.3~16.6 | 42~170 | HLS-20B | | |
| NS-200 | 4,570 | 4.000 | 1.972 | 3,010 | 2,410 | 2.300 | 5.5 | 2.2 | 0.4 | 6.9~13.7 | 35~140 | HLS-20A | 30~40 | 100~200 |
| 113-200 | 4,570 | 4,000 | 1,972 | 3,010 | 2,410 | 2,300 | 5.5 | 3.7 | 0.75 | 8.3~16.6 | 42~170 | HLS-20B | 30~40 | 100~200 |
| NS-250 | 5.570 | 5.000 | 1.972 | 3.010 | 2.410 | 2,740 | 7.5 | 3.7 | 0.75 | 6.3~16.6 | 42~170 | HLS-20B | 30~40 | 125~250 |
| 113-200 | 5,570 | 5,000 | 1,972 | 3,010 | 2,410 | 2,740 | /.5 | 3.7 | 0.75 | 9.6~19.6 | 50~200 | HLS-25A | 50~40 | 120~200 |

LPG direct fire type hot air generatpr (Karo-pack type primary tea rolling dryer)

| | Fron | tage | Depth | Hei | Height | | Power | | | Max LPG | Max | | Shaft | Batch capacity |
|--------|-------|-------|---------|--------------|--------|--------|-------|------|--------|-------------|----------|----------------|----------|---------------------|
| Туре | Width | Frame | Depth | With exhaust | Frame | Weight | Shaft | Fan | Burner | consumption | air rate | Adaptation | rotation | (leaves conversion) |
| | mm | mm | mm | mm | mm | kg | kW | kW | kW | kg/h | m³/min | heat exchanger | rpm | kg |
| KS-60 | 2 200 | 1.890 | 1 5 5 0 | | 1.050 | 1.050 | 1.5 | 0.75 | 0.25 | 8.3 | 70 | - | 33~43 | 30~60 |
| K3-00 | 2,290 | 1,690 | 1,550 | - | 1,950 | 1,050 | 1.0 | 1.5 | 0.25 | 10 | 85 | - | JJ~4J | 30~00 |
| KS-120 | 3,050 | 2,550 | 2,000 | 2,980 | 2,380 | 1,720 | 3.7 | 1.5 | 0.25 | 12.5 | 120 | - | 33~40 | 60~120 |
| KS-200 | 4,570 | 4,000 | 2,320 | 3,010 | 2,410 | 3,100 | 5.5 | 3.7 | 0.25 | 16.7 | 160 | - | 33~40 | 100~200 |

Tea rolling process equipment

Tea roller

This machine roll tea well and equalize the moisture of tea leaf.

The sprout of tea have a large amount of moisture difference on stalk and leaf.

As for the sclerophyll, both the leaf and the stem are stiff.

In order to make these equalize the moisture and to make it soft rolling, rub and torsion operation are needed.

I soften a leaf and equalize the moisture of the tea leaf.

Strong point

By the cone type receptacle (60K type or more), tea leaves roll well and rub it well and twist it well.

The board made with the stainless steel is standard specification, and that is sanitary and superior in the durability. (35K type is standard wooden)

The tea leaf do not remain at the time of taking out by a apparatus for sweeping. (all the type standard equipment)

200 or 250K type is air pressurization method of new design.



Apparatus for sweeping Brush is divided into 4 split.

It is possible to detach easily and it is possible to clean easilv (120k or more type)

Control panel that draws out machine performance, & the design which pursued ease of use.





Air pressurization control

Electric of weight Automatic weight control panel The weight moves back and forth by operating the snap-action switch.

control panel :JWC-3A panel :JWC-10 The weight moves to a It is an operator control panel set position after the tea of the air pressurization leaf is supplied. device with which 200,250k A weight returns to a back type. end, 3 minutes before taking out, and it loosens a lump ball.

specifications

| | Wie | dth | Dep | oth | Llaialat | Mainlet | Por | wer | Number of | Datation | Batch capacity |
|-------|------------|-------|------------|-------|----------|---------|------------|--------------|-----------|----------|---------------------|
| Туре | With cover | Frame | With cover | Frame | Height | Weight | Main motor | Weight motor | batten | Rotation | (leaves conversion) |
| | mm | mm | mm | mm | mm | kg | kW | kW | Number | rpm | kg |
| J-35 | 1,650 | 1,120 | 1,360 | 1,095 | 1,500 | 270 | 0.75 | - | 7 | ~28 | 18~35 |
| J-60 | 2,050 | 1,430 | 1,690 | 1,380 | 1,820 | 530 | 1.5 | 0.2 | 7 | ~25 | 30~60 |
| J-90 | 2,150 | 1,530 | 1,810 | 1,500 | 1,890 | 590 | 1.5 | 0.2 | 8 | ~24 | 45~90 |
| J-120 | 2,430 | 1,700 | 2,040 | 1,660 | 2,090 | 725 | 2.2 | 0.2 | 8 | ~24 | 60~120 |
| J-200 | 2,860 | 2,060 | 2,490 | 2,060 | 2,400 | 1,200 | 3.7 | - | 8 | ~21 | 100~200 |
| J-250 | 3,080 | 2,150 | 2,650 | 2,150 | 2,530 | 1,490 | 5.5 | - | 9 | ~19 | 125~250 |





Air pressurization device (200,250k type standard)

The air cylinder was adopted for the pressurizing device, and a fine pressurization control became possible. It was a safe, reliable operation by eliminating the heavy weight,



Air pressurization control panel JWC-14

It is an operator control panel of the air pressurization device with which , 200,250k type,

Quantity of pressurization and the time for 6 processes can be set freely.

Both the pressurization and the decompression are possible freely.



Rotational speed control panel

The rotational speed of the tea roller is adjusted with the inverter.

Slow start is safety and moreover safe moving,

| Ine | machine | aiso | does | not |
|-------|---------|------|------|-----|
| hurt. | | | | |
| | | | | |
| | | | | |
| | | | | |

Secondary drying and rolling process equipment



By rotary drum and rubbing press arm, do a good

balance of internal moisture diffusion and moisture evaporation of tea leaf surface.

The tea leaf is thinly twisted, and is excellent in the color and gloss and shape.

All models drive the drum rotation and fan rotation with an individual motor. A cyclone dust collector has been equipped normally.(all models) The main shaft was equipped with the coaster coupling, because the main axis can be reversed, the spring pressure adjustment of arm and, the cleaning in the trunk can be easily done.

Discerning design in pursuit of quality





Twin control

This gas furnance can supply the calorie necessary for the arge sized machine enough. The amount of the supply style and the amolunt of type exhaust style are controlled simultaneously and the interior. environment of the ideal is produced.



Cyclone dust collector A cyclone separates tea powder from an exhaust. Tea powder can be returned to former tea, and be divided separately.



Maintenance

The flapper for discharge, easily, can be fixed in a state of full open. Therefore you can perform internal maintenance easily



Secondary rotary dryer

By using thin plate to the rotating drum, evaporation of leaf surface moisture and taking out of internal moisture is done uniformly and manufactures curled shape green tea (Guri tea) with excellent color and shape.





Product quality pursued special structure.

Most suitable height & angle of thin side plates for making curled shape green tea (Guri tea) are standard use. V shape plates can also be selected. Inside the drum, standard is bamboo plates, but stainless drum can also be selected without bottom plates.

specifications

| Secondary | tea ro ll in | ng dryer (| (fixed boo | ly type) | | | | | | ЖLPG sp | pecifications are | e also available. |
|-----------|---------------------|------------|-------------------|----------|------------|-------|--------|--------|-------------|--------------|-------------------|---------------------|
| | Width | Depth | Hei | ght | | Power | | Weight | Heavy oil | Air quantity | Main shaft | Batch capacity |
| Туре | wiath | Depth | Including exhaust | Flame | Main shaft | Fan | Burner | weight | consumption | | rotational speed | (leaves conversion) |
| | mm | mm | mm | mm | kW | kW | kW | kg | L/h | m /min | rpm | kg |
| SC-60 | 2,200 | 1,435 | | 2,070 | 1.5 | 0.4 | 0.25 | 800 | 2.2~4.4 | 12~40 | 30~40 | 30~60 |
| SC-90 | 2,300 | 1,550 | | 2,420 | 1.5 | 0.75 | 0.25 | 1,200 | 2.8~5.5 | 17~50 | 30~40 | 45~90 |
| SC-120 | 2,650 | 2,000 | 3,132 | 2,380 | 2.2 | 0.75 | 0.25 | 1,550 | 3.3~6.7 | 15~60 | 27~37 | 60~120 |
| SC-200 | 3,650 | 2,000 | 3,132 | 2,380 | 3.7 | 1.5 | 0.25 | 2,000 | 4.4~8.9 | 20~80 | 27~37 | 100~200 |
| SC-250 | 4,500 | 2,320 | 3,162 | 2,410 | 5.5 | 1.5 | 0.25 | 3,100 | 5.5~11.1 | 25~100 | 27~37 | 125~250 |

| Secondary | tea rollin | g dryer (| rotary di | rum type |) | | | | | | | |
|-----------|--------------------------|-----------|-----------|----------|------------|-------|------------|--------|-------------|--------------|------------------|---------------------|
| | Wio | dth | Donth | Height | | Power | | Weight | LPG | Air quantitu | Drum | Batch capacity |
| Туре | Including heat exchanger | Flame | Depth | Height | Main shaft | Fan | Burner fan | weight | consumption | Air quantity | rotational speed | (leaves conversion) |
| | mm | mm | mm | mm | kW | kW | kW | kg | kg/h | m /min | rpm | kg |
| C-35 | 2,050 | 1,790 | 1,390 | 1,730 | 0.4 | 0.2 | | 370 | ~0.4 | 3~11 | 15~30 | 20~35 |
| C-60 | 2,465 | 2,090 | 1,690 | 1,870 | 0.4 | 0.4 | | 470 | ~0.7 | 5~20 | 15~30 | 30~60 |
| C-90 | 2,525 | 2,140 | 1,780 | 2,140 | 0.75 | 0.75 | | 640 | ~1.0 | 6~23 | 15~27 | 45~90 |
| C-120 | 2,825 | 2,440 | 2,020 | 2,280 | 0.75 | 0.75 | | 740 | ~1.3 | 8~33 | 15~25 | 60~120 |
| C-200 | 3,200 | 2,630 | 2,350 | 2,360 | 2.2 | 0.75 | 0.4 | 1,060 | ~2.6 | 12~48 | 15~25 | 100~200 |
| C-250 | 3,390 | 2,900 | 2,520 | 2,520 | 3.7 | 1.5 | 0.4 | 1,300 | ~2.9 | 15~60 | 15~23 | 125~250 |

| Secondary | rotary di | ryer | | | | | | | | | | |
|-----------|--------------------------|-------|--------|---------|------------|-------|------------|--------|-------------|---------------|------------------|---------------------|
| | Wio | dth | Depth | Height | | Power | | Weight | LPG | Air quantity | Drum | Batch capacity |
| Туре | Including heat exchanger | Flame | Deptii | Theight | Main shaft | Fan | Burner fan | weight | consumption | All qualitity | rotational speed | (leaves conversion) |
| | mm | mm | mm | mm | kW | kW | kW | kg | kg/h | m /min | rpm | kg |
| CD-35 | 2,050 | 1,790 | 1,390 | 1,730 | 0.4 | 0.2 | | 350 | ~0.4 | 3~11 | 15~30 | 20~70 |
| CD-60 | 2,465 | 2,090 | 1,690 | 1,870 | 0.4 | 0.4 | | 450 | ~0.7 | 5~20 | 15~30 | 30~120 |
| CD-90 | 2,525 | 2,140 | 1,780 | 2,140 | 0.75 | 0.75 | | 620 | ~1.0 | 6~23 | 15~27 | 45~180 |
| C-120 | 2,825 | 2,440 | 2,020 | 2,280 | 0.75 | 0.75 | | 710 | ~1.3 | 8~33 | 15~25 | 60~240 |
| CD-200 | 3,200 | 2,630 | 2,350 | 2,360 | 2.2 | 0.75 | 0.4 | 1,020 | ~2.6 | 12~48 | 15~25 | 100~400 |
| CD-250 | 3,390 | 2,900 | 2,520 | 2,520 | 3.7 | 1.5 | 0.4 | 1,260 | ~2.9 | 15~60 | 15~23 | 125~500 |

Control panel

Touch panel type

The device can set the drum rotational speed, the amount of wind, the hot wind temperature, the temperature of tea, and the process time.

The number of processes can be selected from 2~5 processes, and full automatic (by Fuzzy logic) control can be chosen.

The moisture of tea leaf is measured and wind amount is controlled.

Dial type

SYS-64A



000 0

A main shaft rotating, the amount of winds, and hot wind temperature are 2-step control by dial.

SYS-64CEG-A

A drum rotating, the amount of wind, and hot wind temperture are 2-step control by dial.



0

TH-15E The device will

temperture of the

hot air gas furnace.



The moisture measuring sampling device by the electrical resistance.



SYS-525SC



SYS-525C





Line control equipment

FA (factory automation) system

The tea manufacturing line is overall supported.

1. Monitoring of the line.

Centralized monitoring and management of the tea manufacture line are done. The flow of tea, and the date of tea processing etc. are displayed inteligibly.

2. Monitoring and voice messages of trouble.

The trouble generating part is displayed, and informs the content by the voice.

3. Record of the tea manufacture date, and reading.

The tea manufacture date is recorded automatically in each batch.



Input screen of tea processing conditions.

The date, time, temperature, and humidity are automatic inputs among various tea processing conditions. The tea season, weather, a tea processing person-in-charge.



Individual display screen of the control panel.(moisture value)

It is change from an individual indication screen of the machine, it displays the state of moisture. Display a bar chart of the value of the present and past 14 minutes



The monitor screen of the tea manufacture line

The tea manufacture situation of the whole tea manufacture line is displayed. During tea manufacturing, empty, transport etc. display by color and movement.

The moisture value of each machine, a preset value of the time etc. are displayed



Reference of log data.

From the past data, the preset value of each machine is called and it can transmit to each machine.



*These controllers are ready to English caption.

6 77 8 99

Individual display screen of each controller

If you click the machine you want to see, it displays the control panel of the machine.



Detailed reference screen of record.

The standard time setting of the conveyance relation currently controlled by the "tea flow" can be called from FA, and changing and managing is possible.



"Tea flow" integrated control system

Control the tea manufacturing line and watches each machine controller. 1. Easy to grasp and use. You can grasp the line state easily and quickly, displaying on large sized liquid crystal touch panel. 2. Enables each machine controller's monitor. Touch the picture of machine on the screen, "Tea flow" changes screen and displays each machine controller's parameters. You can monitor and edit parameters. 3. Enables parameter management. You can save and load the parameters of each machine controller. 4. Enables the whole line alarm When the line or each machine has some trouble, "Tea flow" changes screen automatically and displays details of trouble. Control screen display of #17 #1H2 #1H2 #1H23 the connected machine 始联播作 1 Sp. (1 20 、搬送日 取出時間 10 10 接換1 接線2 青垂中接 中接1 中接2 Alarm display エラー発生中です 2 20 20 "Tea flow" tablet "Tea flow light" integrated control system TFL-5L~I0L Control panel that observes intensively and manages line. It can be easily operated in liquid crystal display touch panel. 1. Centralized monitoring and management of the tea manufacture line are done. 2. With using touch panel type digital screen, it is easy to check the tea production state and the operability has improved. 3. It is a screen where the presence of tea in the machine and the trough conveyor is understood at one view, and the state of the tea manufacture line is understood easily. 4. The display of the remaining time and the last taken out time can be changed. 5. The color coded batch number can be displayed. It is convenient to manufacture individually. 6. Abnormal content is displayed on the screen when an error occurs in the control panel and each transport type, so you can respond instantly. The changeover switch of the batch color. Menu changeover switch. Color coded display of the batch Display of supply prohibition setting 本機名 本機名 ライン全体 特殊操作 トラフす動時間 投入時間 取出時間 メンテナンス Machine composition of tea manufacture line 本機名 葉打 相揉1 相揉2 相揉3 相揉4 揉按1 揉按2 背面中排 中接1 中接2 -Set time Input displa Remaining time Switch of The last time when compulsion supply the weighting machine became full. Tea is being 20 20 manufactured. State of the net conveyo With tea on for weighing. a trough conveyo 計量ネットコンベヤ









%These controllers are ready to English caption.

TFL-5A~I4A

Latter part of tea drying and rolling process equipment

Pneumatic separator

A red stalk is removed from tea leaves. Fine dust is not scattered because it is an encapsulated type. A fine setting can be done by using the inverter to control the elevating crowler and the fan.

specifications

| | Length Width Height Weight Crowler Power | | | | | | Processing capacity | | | |
|------|--|--------|--------|--------|-------|---------|---------------------|-------|---------------|---------------------|
| Туре | Lengtri | wiatri | Height | weight | width | Crowler | Fan | Screw | Recovery unit | (leaves conversion) |
| | mm | mm | mm | kg | mm | kW | kW | kW | kW | kg/h |
| WS-2 | 3,015 | 1,580 | 2,415 | 350 | 1,040 | 0.2 | 1.5 | 0.4 | - | 700 |
| WS-3 | 3,015 | 2,050 | 2,415 | 850 | 1,510 | 0.2 | 2.2 | 0.4 | 0.09 | 1,000 |



Final tea rolling dryer

Fusion of advanced technology and traditional techniques.

Machine feature is to make bright color and gloss with the thin needle shape. It is easy to use for anyone, it will be the best finish in any tea leaves. It is hardy and durability is distinguished. The rotational speed can be easily changed.







Rotary broom made by a resin belt.

Weight suspension loading, high quality hand rubbing is implied with exquisite balance.

Efficiency of grabing the tea raised by adding the weight suspension between weight and rubbing plate. With this tea can be made to needle shape and with gloss.



HSA-120

specifications





HSA-60 manual operation type

HSA-60,60H

"H" type daku plate (Daku plate of the form that curved) is equipped normally.

Hold and the turn of the tea leaf are good and a bayonet point are sharp, and the color is bright and is finished to a shiny product.

Tea leaf automatic distribution device (loadcell scaling type)

Perform a digital measurement in one place and distribute it between each pot automatically. The high precision measurement by the load cell.

Fully automated equipment for final tea rolling dryer

By the microcomputer control, the fusion of advanced technology and traditional techniques. Round form and bright color and gloss are made like the thin needle. It is easy to use for anyone, it will be the best finish in any tea leaves. It is hardy and durability is distinguished. You can change the rotational speed easily by inverter.





Insertion operator control pane NAF-7G

HSA-60 automatic weight control type

Control that draws out machine performance, & the design which pursued ease of use.

Rotation number control panel.

Centralized control







TH-40-A-4

It is the automatic ignition, the automatic temperature control (2 step control) A ceramic heater strong against dust performs from ignition to a combustion check. It has the retry function (re-ignition) at the accidental fire, and the gas is intercepted at the final accidental fire and it informs them of it, with the buzzer

Roast tighten dryer

Dries rolled tea leaves while enhancing aroma, makes tea suitable for finishing.

Makes pan fired tea original shape, gives firmness to tea leaves & makes a product with shape, gloss & aroma.

specifications

| | Width | Length | Height | Weight | Por | wer |
|--------|-------|--------|----------|--------|-------------|-----------|
| Туре | WIGUT | Length | rieigint | weight | 200V,3phase | 100V,Sing |
| | mm | mm | mm | kg | kW | k٧ |
| WD-35 | 1,780 | 1,880 | 1,700 | 480 | 0.4 x2 | 0.0 |
| WD-60 | 1,950 | 1,900 | 1,770 | 490 | 0.4 x2 | 0.0 |
| WD-90 | 2,300 | 2,400 | 2,200 | 900 | 0.75 x2 | 0.0 |
| WD-120 | 2,400 | 2,500 | 2,200 | 930 | 0.75 x2 | 0.0 |









Digital distribution control panel NAM-1DD

Automatic insertion device for HSA-120

Automatic weight control panel.



AW-8U/12U

Operability improved by adoption of the color liquid crystal touch panel.

The position where the weight was stopped became 20 places, and increased to twice the value of the past. The delicate adjustment of the pressurization

position for polishes was enabled, Increased the numbers of step for 12 processes

and can respond to finer control. Machines up to two can be controlled with one control board











Finishing process

Tea dryer

By the hot air flow of the original design, it becomes the superior drying of a fragrance, the luster and color.

There are elevator type, and direct feed type doesn't take installation space. There are a heavy oil heat exchanger and gas fire heat exchanger specification.

All model have a heat exchanger built in and do not take the installation space.

The first half of dryness is sent a lot of wind, and dry with little wind in the second half.

The ceiling is equipped with the exhaust fan, and the exhaust heat is prevented from stagnating.

By attaching a cyclone type dust separator (option), it becomes a clean exhaust gas and keeps work environment clean. The crowler of original can do efficient dryness.

Tea dryer control panel NDC-10

The following abnormalities are perceived, it informs them of it with the bell,

- and it stops automatically.
- 1. Inverter trip of motor.
- 2. Thermal trip of fan and burner.
- 3. Overload of the machine, and tea jam.
- 4. An abnormal high temperture.

Operation of the machine, a fan, and a burner can be performed at one place. Drying time is stepless at inverter control.

specifications

• 乾燥機制御盤 🗤

000

TERADA

0 000

Heavy oil heat exchanger, direct feed type

| i icary on near c | menunger, | | 4 9 P C | | | | | | | | | |
|-------------------|-----------|-------|---------|--------|----------------------|---------|----------|-------|----------------|--------|-------------|---------------------|
| | Length | Width | Heiaht | Weight | Crowler number of | | | Power | | | Heavy oil | Processing capacity |
| Туре | Length | width | Height | weight | stages | Crowler | Leveling | Fan | Heat exchanger | Burner | consumption | (leaves conversion) |
| | mm | mm | mm | kg | Stage | kW | kW | kW | kW | kW | L/h | kg/h |
| ND120-2F | 3,385 | 1,714 | 2,992 | 1,670 | 6 | 0.2 | 0.04 | 0.75 | 0.4 | 0.25 | 2.6~5.3 | 180~300 |
| ND120-3F | 3,585 | 2,065 | 3,017 | 2,150 | 6 | 0.2 | 0.04 | 0.75 | 0.4 | 0.25 | 3.2~6.5 | 270~450 |

| Heavy oil heat e | exchanger, | elevator f | eed type | | | | | | | | | |
|------------------|------------|------------|-----------------|----------|------------------|---------|----------|-------|----------------|--------|-------------|---------------------|
| | L | A.C. dala | L L - C - L - L | M/stalet | Crowler | | | Power | | | Heavy oil | Processing capacity |
| Туре | Length | Width | Height | Weight | number of stages | Crowler | Leveling | Fan | Heat exchanger | Burner | consumption | (leaves conversion) |
| | mm | mm | mm | kg | Stage | kW | kW | kW | kW | kW | L/h | kg/h |
| ND120-2F | 5,252 | 1,714 | 2,992 | 1,970 | 6 | 0.2 | 0.2 | 0.75 | 0.4 | 0.25 | 2.6~5.3 | 180~300 |
| ND120-3F | 5,448 | 2,065 | 3,017 | 2,450 | 6 | 0.2 | 0.2 | 0.75 | 0.4 | 0.25 | 3.2~6.5 | 270~450 |
| ND120-4F | 5,448 | 2,065 | 3,329 | 2,670 | 8 | 0.4 | 0.2 | 0.75 | 0.4 | 0.25 | 3.6~7.2 | 360~600 |
| ND120-6F | 5,448 | 2,065 | 4,016 | 3,150 | 12 | 0.4 | 0.2 | 0.75 | 0.75 | 0.25 | 5.0~10.0 | 480~800 |
| ND120-8F | 6,252 | 2,065 | 4,116 | 3,850 | 12 | 0.75 | 0.2 | 1.5 | 0.75 | 0.25 | 6.4~12.8 | 630~1,050 |

| Gas heat exchar | nger, direct | t feed type | 9 | | | | | | | | | |
|-----------------|--------------|-------------|--------|--------|------------------|---------|----------|-------|----------------|--------|-------------|---------------------|
| | | A.C. 111 | | XA | Crowler | | | Power | | | LPG | Processing capacity |
| Туре | Length | Width | Height | Weight | number of stages | Crowler | Leveling | Fan | Heat exchanger | Burner | consumption | (leaves conversion) |
| | mm | mm | mm | kg | Stage | kW | kW | kW | kW | kW | kg/h | kg/h |
| ND120-1F | 2,085 | 1,714 | 2,992 | 960 | 6 | 0.2 | 0.04 | 0.4 | 0.2 | 0.03 | 1.6~3.2 | 90~150 |
| ND120-2F | 3,585 | 1,714 | 2,992 | 1,670 | 6 | 0.2 | 0.04 | 0.75 | 0.4 | 0.2 | 2.2~4.4 | 180~300 |
| ND120-3F | 3,585 | 2,065 | 3,017 | 2,150 | 6 | 0.2 | 0.04 | 0.75 | 0.4 | 0.25 | 2.5~5.0 | 270~450 |

| Gas heat exchar | nger, e l eva | tor feed ty | уре | | | | | | | | | |
|-----------------|----------------------|-------------|--------|--------|----------------------|---------|----------|-------|----------------|--------|-------------|---------------------|
| | Lanath | Width | Height | Maight | Crowler number of | | | Power | | | LPG | Processing capacity |
| Туре | Length | width | Height | Weight | stages | Crowler | Leveling | Fan | Heat exchanger | Burner | consumption | (leaves conversion) |
| | mm | mm | mm | kg | Stage | kW | kW | kW | kW | kW | kg/h | kg/h |
| ND120-2F | 5,252 | 1,714 | 2,992 | 1,970 | 6 | 0.2 | 0.2 | 0.75 | 0.4 | 0.2 | 2.2~3.2 | 180~300 |
| ND120-3F | 5,448 | 2,065 | 3,017 | 2,450 | 6 | 0.2 | 0.2 | 0.75 | 0.4 | 0.25 | 2.5~5.0 | 270~450 |
| ND120-4F | 5,448 | 2,065 | 3,329 | 2,670 | 8 | 0.4 | 0.2 | 0.75 | 0.4 | 0.25 | 3.0~6.0 | 360~600 |
| ND120-6F | 5,448 | 2,065 | 4,016 | 3,150 | 12 | 0.4 | 0.2 | 0.75 | 0.75 | 0.25 | 3.8~7.6 | 480~800 |
| ND120-8F | 6,252 | 2,065 | 4,116 | 3,850 | 12 | 0.75 | 0.2 | 1.5 | 0.75 | 0.25 | 5.0~10.0 | 630~1,050 |



The crowler of original.

ND-120-4F (gas heat exchanger, elevator feed type)

Tea blender

Drum type

It is a drum type, and a original blend inside makes it possible to perform reliable blending from a small amount.

Certain blend can be done by an original stirring board. Blend is possible even in small amounts. Because it is a slow rotation, the tea leaf won't be damaged. It is a direct vent type and it is sanitary. It is most suitable for small scale factory, and a factory producing it individually.



specifications

| Tea blender (d | rum type |) | | | | |
|----------------|----------|--------|--------|--------|-------|----------|
| Tuno | Width | Length | Height | Weight | Power | Capacity |
| Туре | mm | mm | mm | kg | kW | kg |
| MX-300D | 1,560 | 1,930 | 1,860 | 430 | 0.75 | ~300 |
| MX-500D | 1,660 | 2,170 | 1,910 | 540 | 1.5 | ~500 |
| MX-1000D | 2,090 | 2,860 | 2,110 | 1,200 | 3.7 | ~1,000 |

| Tea blender (c | y l inder ty | pe) | | | | |
|----------------|---------------------|---------|---------|--------|----------|-------------|
| | Cylinder | Length | Height | Weight | | Po |
| Туре | diameter | Lengtin | Theight | weight | Cylinder | Rotary chut |
| | mm | mm | mm | kg | kW | kW |
| MX-1000C | 1,800 | 1,970 | 3,350 | 800 | 0.4 | 0.2 |
| MX-1500C | 2,250 | 2,420 | 3,460 | 1,000 | 0.4 | 0.2 |
| MX-2500C | 2,800 | 2,980 | 3,440 | 1,250 | 0.4 | 0.2 |
| MX-4000C | 2,800 | 2,980 | 4,090 | 1,500 | 0.4 | 0.2 |

Bag filling machine



FK-1F

High efficiency

FK-3B : One time measurement type, ability 130 bag/h (first tea picking, 30 kg bag) FK-1E : Type of measured dividing into several time, ability 90 bag/h (first tea picking, 30 kg bag)

Full automatic

FK-3B : If the bag is put on the stocker, all processes from the installation of the bag to final measurement are done by full automation. FK-1E : If a bag is set and a start button is pushed, after that, it is full automatic.

High precision

It is highly precise according to a rough measurement, the final measurement, and two step methods. Speedy bagging with exact measuring using load cell.

specifications

| | Width | Longth | Lisisht | Mainht | | | | | Power | | | | |
|-------|-------|--------|---------|--------|-------------------|----------------|-----------------|------------------|-------------|--------|---------------------|----------------|----------------|
| Туре | width | Length | Height | Weight | Weighing conveyor | Sending device | Vibration table | Moving apparatus | Vacuum pump | Feeder | Open the bag device | Up down device | Dust separator |
| | mm | mm | mm | kg | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| FK-1E | 1,500 | 1,580 | 3,300 | 300 | 0.1 | - | 0.2 | 0.09 | - | 0.06 | - | - | - |
| FK-3B | 3,450 | 2,240 | 4,370 | 700 | - | 0.75 | 0.2 | - | 0.75 | 0.06 | 0.09 | 0.04 | 0.75 |



Cylinder type



It is a cylinder type blender which does not damage the tea.

By original chute to supply while turning, it supplies tea uniformly. These won't be any damage to the tea leaves since it is blended when discharging.

Can be supplied it while taking out the product.

If it combines with a scale, the weight of tea inside the machine is known at a glance.





| Primary drying & | process equi | |
|------------------|--------------|--|
| | | |
| cess | ment | |

nent

ower Capacity e Take out device Shutter kW kW kg 0.09 0.75x2 ~1000 0.75x2 0.09 ~1,500 0.75x2 0.09 ~2 500 0.75x3



Automatic bag binding machine

Automatically performs the heavy work of binding the bags.

It is not required to move heavy bags manually, which reduces workload significantly.

By linking with the bag filling machine, it can bind 100 bags per hour, contributing to labor savings.





Finishing process

Stalk skin separator

Separate stalk skin while transporting.

A screen is installed on to the trough conveyor to separate the powder and stalks.

Collection efficiency improved by separating powder and the stalk skin beforehand.



| | (| Cyclone par | t | Weight | Pov | wer |
|-------|--------|-------------|--------|--------|----------|--------------|
| Туре | Length | Width | Height | Weight | 3-phases | Single-phase |
| | mm | mm | mm | kg | kW | kW |
| KTR-2 | 400 | 922 | 2,058 | 65 | 0.2 | 0.04 |

Multiple bag filler

specifications

Bag exchangeing time can be saved since 5 bags can be stocked.

Not only for stalk skin collecting, can be installed to places like tea blender & below fresh leaf rotating sieve machine etc.

Highly versatile & can also be installed to existing line since it can be installed regardless of input method.

Can be sent in order by installing a sensor & can also be turn ON full lamp with stopping input when all the bags are full.(Optional)

specifications

| Turne | Length | Width | Height | Weight | Power | Attaching bag |
|-------|--------|-------|--------|--------|-------|---------------|
| Туре | mm | mm | mm | kg | kW | Pcs |
| DAR-1 | 1.500 | 1,250 | 1,350 | 120 | 0.1 | 5 |

Rotary cutter (pulverizer)

Crushes dry raw materials without spoiling quality.

Wonderful sharpness is achieved by slow rotation. (180rpm) Durability is also preeminent.

The square shaped blade made from stainless steel is adopted as an edge, and even if it wears out, it is the economical design which can use four angles. The standard equipped with a magnet, you can remove the magnetic metal. It can be used for various purposes by changing the screen.

processing example



specifications

| Туре | Length | Width | Height | Weight | Power (200V) | Capacity (tea、ø5 screen) |
|--------|--------|-------|--------|--------|-----------------|-----------------------------|
| | mm | mm | mm | kg | kW | kg/h |
| SRC-2S | 660 | 620 | 1,330 | 87 | 0.75 | 100 |
| SRC-2 | 660 | 620 | 1,330 | 84 | 0.75 | 100 |



Magnet for metal removal

A magnetic metal mixed in the product is removed. Fine iron powder (powder of iron rust) is removed certainly.





Example of CPB-H20 (8,000G)

specifications

CPB-H20 (8,000G)

| - | | | | | | |
|-----------|----------|-------|--------|----------------|-------------------|--|
| Turne | Diameter | Width | Length | Magnetic force | Remarks | |
| Туре | mm | mm | mm | Tesla | Remarks | |
| CPB-H20 | 25 | - | 194 | 0.8 | Standard type | |
| CPB-AH20 | 25 | - | 194 | 1 | Powerful type | |
| CPB-AHX20 | 25 | - | 194 | 1.2 | Super strong type | |
| TPM-F1530 | - | 150 | 300 | 1.3 | Plate type | |



Equipment for ten-cha

Tencha furnace

Detailed machine system to recreate quality of "genuine Ten-cha".

FTD-100

The furnace and flue is coated with radiation material, and efficient infrared contributes to roasted flavour.

Gas burner is used for heating device with energy saving structure. By using 3 stainless nets, 2 upper stage and 1

lower, avoids empty rotation and can be used lona.

Comparing to orthodox brick furnace, It is half space and movable structure.

FTD-100,FTDS-FC

Implied 500kg/h processing ability with RTR-350N and secondary dryer combination.

FTD-500

With the usage of 4 step net wider than FDT-100 net, maximum process of 500kg/h is possible.

By feeding leaves to upper two stages as to urge the tencha original flavour by affecting efficient infrared to each leaf.

Keep the coloring with convection heat in middle stage.

Lower stage is a seperated drying room, where the hot wind sent from burner for energy saving.

High quality, Energy efficient, Space saving.



Control panel FTDC-100

★Main scree

Control panel is with tencha special structue and can be operated in touch panel. It is a center control panel including burner exhaust fan etc. Net speed can be setted in seconds, progress of furnace can be checked with screen according to the processed time.



★Tea spreading device setting screen

specifications

| Ten-cha furr | Ten-cha furnace | | | | | | | | | | | | | | | |
|--------------|-----------------|-------|--------|--------|----------|--------|---------|-------|-----------|---------|-------------|----------|----------|-------------|---------------|-----------|
| | | | | | | | | Powe | r | | | | LPG | Capacity | Capacity | |
| Туре | Length | Width | Height | Weight | Net | Burner | Exhaust | Lower | Auxiliary | | pper dry | | | consumption | (when RTR | (when RTR |
| Type | | | | | conveyor | Durner | fan | fan | fan | Crowler | Exhaust fan | Leveling | conveyor | (max) | is not used.) | is used.) |
| | mm | mm | mm | kg | kW | kW | kW | kW | kW | kW | kW | kW | kW | kg/h | kg/h | kg/h |
| FTD-100 | 8,700 | 2,850 | 6,100 | 6,800 | 0.2x3 | 0.25x2 | 0.75 | - | - | 0.2 | 0.75 | 0.04 | 0.4 | 33 | 80~120 | 200~300 |
| FTD-500 | 8,700 | 3,200 | 6,500 | 6,200 | 0.2x4 | 0.25x2 | 0.75 | 1.5x2 | 0.4x2 | - | - | - | - | 33 | - | 300~500 |

| Tea spreadir | Tea spreading device | | | | | | | | | | | |
|--------------|----------------------|-------|--------|--------|---------|--------|--|--|--|--|--|--|
| Tupo | Length | Width | Height | Weight | Power | Numb | | | | | | |
| Туре | mm | mm | mm | kg | kW | net to | | | | | | |
| FTDS-FA | 2,815 | 995 | 5,700 | 250 | 1.5 x 2 | 1 | | | | | | |
| FTDS-FB | 3,675 | 995 | 5,700 | 375 | 1.5 x 3 | 2 | | | | | | |
| FTDS-FC | 4,525 | 995 | 5,700 | 500 | 1.5 x 4 | 3 | | | | | | |



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FTD-500,FTDS-FB





★Change setting screen



★Temperture, output transition screen

*Some changes may be made for improvement.





Equipment for ten-cha

Super-heated parching machine

By releasing high temperature wind to green leaves, deactivate oxidase at the same time of removing moist and encourage drying of steamed leaves.

By sending super high temperature wind (200 \sim 350°C)to the rotating drum, parching the green leaves and fasten the drying process is possible.

Leaves won't be burnt since high temperature wind is used instead of parching (pan fired tea etc.) by direct heating of the drum.

By adding this machine, processing amount can be increased significantly

Width

mm

1,150

1150

1,500

Length

mm

2,330

2330

2,500

When discharging leaves and hot air will be separated with rotary valve. Color of the product can be improved by out putting the humidity immediately with absorbing fan in discharging port.

specifications

Hot air generator

Туре

HLS-250N

HLS-500N

HLS-1000N

| Super-heated pa | rching ma. | chine | | | | | |
|-----------------|------------|-------|--------|--------|-------|---------------|-----------------------|
| Tupo | Length | Width | Height | Weight | Power | Drum rotation | Processing capacity * |
| Туре | mm | mm | mm | kg | kW | rpm | kg/h |
| RTR-250N | 4,840 | 1,470 | 3,000 | 1,450 | 3.1 | 15~24 | 200~300 |
| RTR-500N | 5,840 | 1,479 | 3,000 | 1,600 | 3.1 | 15~24 | 300~500 |
| RTR-1000N | 5,960 | 1,690 | 3,490 | 2,050 | 5.7 | 15~24 | 1,000~1,250 |

mm

750

750

960

kg

340

350

480

Power Height Weight Air flow LPG consumption kW

1.75

1.9

4.45

mੈ/min

60

60

106

*1 Fresh leaves weight conve

kg/h

16.7

25

41.7



Stick separator

Sticks are separated from leaves by the rotation of screw and resistance of wire mesh.

Cleaning and exchanging is easy with the sliding type mesh . 10mm is the standard size of wire mesh. (Optionally 8,15mm is prepared) Screw is maintenance-free since attached to the motor directly. Separation state can be checked according to transparency of side resin plate.

specifications

| Turna | Length | Width | Height | Weight | Power | Processing capacity *2 |
|---------|--------|-------|--------|--------|--------|------------------------|
| Туре | mm | mm | mm | kg | kW | kg/h |
| SFK-100 | 1,500 | 590 | 740 | 230 | 0.4 | 100 |
| SFK-300 | 1,820 | 590 | 740 | 270 | 0.75 | 300 |
| SFK-500 | 1,820 | 1,030 | 740 | 450 | 0.75x2 | 500 |
| | | | | | | |

*2 Fresh leaves weight conversion.

% Weight is not included frame.

Small fine powder mill "bisaiki"

Pulverize dry raw materials by the same principle as stone mill.

Since both the upper and lower grinding disks are cooled type, deterioration and flavor changing is prevented according to heating.

The granularity is unified by the unified touching of both grinding disks to material. Granularity can be adjusted easily with handle.

Disks can be detached easily for cleaning and excellent in sanitary. It is compact and portable with 100V power usage.

Example



specifications

| | | | *3 Hoppe | er excluded. | *4 "Sen-cha" | green tea conversion. |
|------------|--------|-------|-----------|--------------|--------------|------------------------|
| Туре | Length | Width | Height *3 | Weight | Power | Processing capacity *4 |
| туре | mm | mm | mm | kg | kW | kg/h |
| FPS-1 | 340 | 210 | 750 | 40 | 0.2 | ~1.0 |
| Water tank | 280 | 185 | 295 | - | 0.06 | - |





% It is recon ended to use at an environmenta temperture around 25°C and a humidity of 50% or less. The processing capacity varies according to a particle size.

Peripheral device

Tea dryer (drawer type)

Hot air is a push-in type, evenly ventilating each stage of the drawer.

The hot wind evenly vents to each steps by the pushing method. The amount of air supply can be adjusted steplessly by variable speed pulley.

By adjusting damper of displacement volume, there is no stuffy, it can be efficient driving.

The wire net of drawer is sanitary made of the stainless steel.

specifications

| | Туре | Mach | ine dimen | isions | Internal d | imensions | of drawer | | Number | Power | LPG | Processing capacity |
|--|--------|-------|-----------|--------|------------|-----------|-----------|--------|------------|-------|-------------|---------------------|
| | | Width | Length | Height | Width | Length | Height | Weight | of drawers | | consumption | (leaves conversion) |
| | | mm | mm | mm | mm | mm | mm | kg | Number | kW | kg/h | kg/h |
| | ND4-60 | 960 | 760 | 1,470 | 660 | 570 | 60 | 120 | 4 | 0.2 | 0.8 | 60 |

Small roasting machine "meika"

Roasting implied with excellent fragrance, color and gloss.

Rotational speed of the drum can be adjusted freely. By inclining a drum, can be performed easily take in and take out.

The temperture of the trunk under operation can be measured with an attached radiation thermometer. The temperture if the tea leaf can be measured by detaching it.

The trunk and trunk cover can be easily detached.



specifications

| Turne | Width | Length | Height | Weight | Power | 1Input of per once |
|-------|-------|--------|--------|--------|-------|--------------------|
| Туре | mm | mm | mm | kg | kW | kg |
| TR-1 | 450 | 540 | 580 | 30 | 0.85 | 0.5~1.0 |

Net conveyor type dryer

Not only for tea, it is ideal for drying barley leaves and leafy vegetables such as mulberry leaves.

It is a dryer of continuous heating machine with the structure of materials pass through leveled movable stainless net conveyor .

The area (Heat transfer area) of touching the material to hot air is wide and excellent dryability.

By several heat exchangers (furnace), according to the moisture level of material, air amount and the temperature can be adjusted for high quality drying.

specifications

| | Net conveyor type d | lryer | | | | | | | | | | |
|---|---------------------|--------------------|-------------|--|---------------------------------------|--------|--------|--------------|--------------|---------|------------|---------------------|
| ſ | | Machine dimensions | | | | | | Power | | | Number of | Processing |
| | Туре | Not width | Eromo width | Width (including heat exchanger) | Length (including input device) | Height | Weight | Input device | Net conveyor | | hot air | capacity |
| | туре | Net width Fran | Frame widen | | | | | Leveling | Net conveyor | Stirrer | generators | (leaves conversion) |
| | | mm | mm | mm | mm | mm | kg | kW | kW | kW | Number | kg/h |
| | NCD-200 | 1,550 | 1,760 | 2,770 | 6,890 | 2,840 | 2,500 | 0.04 | 0.2 | 0.085x3 | 2 | 200 |
| | NCD-300 | 1,550 | 1,760 | 2,770 | 9,290 | 2,840 | 3,500 | 0.04 | 0.2 | 0.085x5 | 3 | 300 |
| | NCD-400 | 1,550 | 1,760 | 2,770 | 11,690 | 2,840 | 4,500 | 0.04 | 0.2 | 0.085x7 | 4 | 400 |

| 1 | · · · · · | | | | | | | | |
|---|-----------|--------------------|--------|--------|-------|--------|---------------------|-----------------|--|
| | | Machine dimensions | | | Power | Max | Gas gun type burner | | |
| | Туре | Width | Length | Height | (fan) | | | LPG consumption | |
| | | mm | mm | mm | kW | mੈ/min | Туре | kg/h | |
| | HAG-160N1 | 1,600 | 1,210 | 570 | 3.7 | 160 | FK10 x 2 | 16.8 | |
| | HAG-160N2 | 1,600 | 1,210 | 570 | 3.7 | 160 | FK-S6(P)8 | 13.3 | |



RTR-500N.HLS-500N







Authentic roasting at stalls & events.

In continuous flow type roaster, roasts the tea fed from input device with rotating drum & discharges in 30~60sec.

- Processes uniformed roasting
- by heat transferring to the tea leaf core with the excellent heat transferring steel rotating drum.
- With the roasting aroma, customer attraction can be expected in stalls & events.



specifications

| Tunn | Width | Length | Height | Weight | Power | 1 Input of per once |
|------|-------|--------|--------|--------|-------|---------------------|
| Туре | mm | mm | mm | kg | W | kg |
| TR-3 | 370 | 1,100 | 740 | 67 | 50 | 2~3 |





| | Primary drying & rolling | process equipmen | |
|--|--------------------------|------------------|--|
| | | | |
| | | | |







Incidental equipment

Heat exchanger

It is an energy saving type heat exchanger excellent in balance of hot air.

Fuel consumption cutted in 15% (our company) by increasing smoke pipes of combustion furnace. Most suitable hot air can be supplied from minimum to maximum air amount . For easy maintainance and cleaning, large cleaning door (option) can be attached.

specifications

| | Width | Length | Height | Weight *1 | Power - | Burner | | Chimney | Heavy oil | Max air flow | | | | | | |
|-------------------|-------|--------|--------|-----------|-------------|---------|-------------|----------|-------------|--------------|-----|---------|------|-----|----------|-----|
| Туре | | | | | | Туре | Power | diameter | consumption | | | | | | | |
| | mm | mm | mm | kg | kw | туре | kW | mm | ℓ/h | m/min | | | | | | |
| HLS-12A (type 13) | 1.000 | 2.060 | 2.260 | 600 | 1.5 | GB-6A-2 | 0.25 | 200 | 5.5~11.1 | 100 | | | | | | |
| HLS-12B (type 13) | 1,000 | 2,000 | 2,200 | 600 | 1.5 | GB-8-1 | 0.4 | | 6.7~13.3 | 120 | | | | | | |
| HLS-20A (type 7) | 1.200 | 2,265 | 2,260 | 920 | 2.2 | GB-11-3 | 0.4 | 250 | 6.9~13.7 | 140 | | | | | | |
| HLS-20B (type 7) | 1,200 | 2,205 | 2,200 | 930 | 3.7 | GB-12-5 | 0.75 | | 8.3~16.6 | 170 | | | | | | |
| HLS-25A (type 4) | 1.000 | 1.000 | 1 200 | 1.200 2. | 1 200 2 505 | 1.000 | 1 200 2 505 | 2.505 | 2.260 | 1,045 | 3.7 | GB-12-1 | 0.75 | 200 | 9.8~19.6 | 200 |
| HLS-25B (type 4) | 1,200 | 2,505 | 2,200 | 1,055 | 5.5 | GB-12-2 | 0.75 | 290 | 12.2~24.5 | 250 | | | | | | |
| HLS-30 (type 3) | 1,200 | 3,000 | 2,300 | 1,500 | 7.5 | GB-12-3 | 0.75 | 290 | 14.7~29.4 | 300 | | | | | | |

*1 Weight does not include burner.

Hot air exchanger (LPG exhaust heat circulation type)

Energy-saving exhaust heat recycling furnace that utilizes the clean exhaust heat of LP gas and increases the heat exchange rate.

specifications

| | Width Length mm mm | | | Weight | 5 | Burner | | Max LPG consumption | Max air flow | | | | |
|-----------|-----------------------|---------|---------------|--------|-------|----------|----------|---------------------|--------------|-------|-----|----------|-----|
| Туре | | Length | Length Height | | Power | Turne | Power | | | | | | |
| | | mm | mm | kg | kW | Туре | kW | kg/h | m/min | | | | |
| HLS-12A-E | 1.000 | 2.060 | 2,645 | 690 | 1.5 | KG-21WE | 0.25 | 16.7 | 100 | | | | |
| HLS-12B-E | 1,000 | 2,060 | | 690 | 1.5 | KG-21WE | 0.25 | 16.7 | 120 | | | | |
| HLS-20A-E | 1.290 | 2,110 | 2,110 | 2.040 | 1,010 | 2.2 | KG-31XWE | 0.4 | 25 | 140 | | | |
| HLS-20B-E | 7 1,290 | | | 2,110 | 2,110 | 2,110 | 2,110 | 2,110 | 2,640 | 1,020 | 3.7 | KG-31XWE | 0.4 |
| HLS-25A-E | HLS-25A-E | 2 5 5 0 | 2640 | 1,765 | 3.7 | KG-41VWE | 0.4 | 33.3 | 200 | | | | |
| HLS-25B-E | 1,290 | 2,550 | 2,640 | 1,775 | 5.5 | KG-51VWE | 0.75 | 41.7 | 250 | | | | |
| HLS-30-E | 1,390 | 3,000 | 2,730 | 1,590 | 7.5 | KG-51VWE | 0.75 | 41.7 | 300 | | | | |



Implemented large scale energy-saving according to LP gas direct fire type without loss of heat exchange.

specifications

| | Width | Length | Height | Weight | Power | | Max | Max LPG |
|---------|-------|--------|--------|--------|-------|--------|----------|-------------|
| Туре | | | | | Fan | Burner | air flow | consumption |
| | mm | mm | mm | kg | kW | kW | mੈ/min | kg/h |
| HAG-80 | 1,400 | 750 | 500 | 90 | 0.4 | 0.16x2 | 80 | 6.3 |
| HAG-100 | 1,500 | 750 | 600 | 105 | 0.75 | 0.16x2 | 100 | 10.0 |
| HAG-150 | 1,600 | 830 | 700 | 135 | 1.5 | 0.16x2 | 150 | 13.3 |

Trough conveyor (vibration type)

Trough conveyor can be used as a buffer to stock leaves temporarily in time line structure.

Most suitable trough model can be selected according to state of tea processed.

The structure is simple and easy for maintainance.

- For fresh leaf & steamed leaf
- For tea scattering dryer
- For primary tea rolling dryer
- For secondary tea rolling dryer
- For final tea rolling dryer

For tea dryer

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Belt conveyor

Producting tea leaves or product continuously transported by horizontally or sloped . And according to the usage, forward or reverse sending can be selected.

HAG-80

To the shaft, hollow shaft is used and easy for maintenance. Sanitary resin belt is used for sending belt.

There is cover type also to prevent splitting and foreign material mixing.



Belt conveyor for steamed leaves

Transport equipment

Rising net conveyor

Conveyor for leaf with more moisture soon after steaming.

Transport tea leaves vertically which tend to stick immediately after steaming.

Depending on the condition of the steamed leaves, you can choose either a stainless-steel net (Steamed leaves rising net conveyor) or belt conveyor (Steamed leaves rising conveyor).

The steamed leaf lifting net conveyor is available in a stainless-steel main body with excellent in sanitary. The design is based on the HACCP concept, allowing a high level of sanitary management as a food processing machine.



HLS-25A

HI S-30-F

ZN500-50 sanitary type (optional)

Bucket conveyor

It is a bucket conveyor that vertically and obliquely moves objects such as tea leaves.

Transport the tea leaves or the product in process vertically. Tubular shaft motor is used and easy for maintenance.

Suitable bucket can be selected according to the state of transporting material.

Lower roller is screw type and sweeps the leaves behind the belt.





Screw type lower roller

One cleaning bucket is equipped and carries all the leaves and powder remain in bottom of the machine.

Other transport equipment

It is possible to correspond according to the application used. Please contact us for more information.



Vacuum type aerial transportation device

For clean factory without spilling the ingredient.

There is no powder spreading, foreign material mixing since transport the ingredient through the pipe.

With comparison to machine transportation, malfunction causes are less & maintenance is easy.

There won't be ingredient stuck through the pipe since vacuum type & transports with clean air since does not suck dust of the ground.









VDR6B (for fresh leaves, carrying capacity 2,000kg/h)



VDMR6 (for steamed leaves & initial drying tea roller)



(for steamed leaves & initial drying tea roller)



VDM5 (for steamed leaves)



VDR5 (for fresh leaves, carrying capacity 1,200kg/h)





VD5 (standard)

