

SECRETARIA DE RELAÇÕES INTERNACIONAIS LABEX KOREA - EMBRAPA



MECANIZAÇÃO E AUTOMOÇÃO

NOTA TÉCNICA

SUWON, REPUBLIC OF KOREA

2013



MECANIZAÇÃO E AUTOMOÇÃO

Em função das características do Modelo de Agricultura na Coréia, que na escência é basicamente formada pela agricultura familiar, o desafio gerou a necessidade de investimentos, tanto do setor público como privado, no desenvolvimento tecnológico para atender um mercado específico, não só facilitando a vida do produtor, mas para maximizar os índices de produtividade, reduzir as perdas durante o processo de produção, agregar valor no processamento e desenvolvimento de produtos e, principalmente, permitir o acesso do produtor, com a redução dos custos dos produtos.

O presente documento esta sendo elaborado com base na demanda da Embrapa para a modernização de seus campos experimentais e pela necessidade de buscar soluções tecnológicas para facilitar as atividades na pequena propriedade, reduzir as perdas e agregar valor aos produtos da Agricultura Familiar

Para tanto, serão considerados três aspectos:

- Modernização dos campos experimentais da Embrapa;
- Desenvolvimento e(ou) adaptação de máquinas e equipamentos para a agricultura familiar, considerando as peculiaridades do setor;
- Estabelecimento de um canal de comunicação entre os setores privados da Coréia e do Brasil, visando estabelecer parcerias investimentos no setor no Brasil.

O documento irá conter informações sobre as principais associações de empresas produtoras de máquinas e equipamentos, a relação das feiras e eventos agendados para 2013 e a lista das principais empresas fornecedoras e seus respectivos produtos. Por fim, serão apresentadas propostas de visitas técnicas que possibilitem o estabelecimento de parcerias entre as Instituições públicas e privadas da Coréia e do Brasil.

Gilberto Silber Schmidt, Coordenador Labex Korea, Embrapa

Responsáveis:

Gilberto Silber Schmidt, Coordenador Labex Korea, Embrapa

Luciano Lourenco Nass, Secretária de Relações Internacionais (SRI/Embrapa)

Daniel Fink, Área C&T, Embaixada do Brasil em Seul

José Américo Bordine do Amaral, Ponto Focal, Secretária de Relações Internacionais (SRI/Embrapa)

Associações

Existem na Coréia duas grandes associações que representam a grande maioria das empresas ligadas aos setores, a “Korea Agricultural Machinery Industry Cooperative” e a “Korean Society for Agricultural Machinery”.



Korea Agricultural Machinery Industry Cooperative (KAMICO)

É uma organização sem fins lucrativos que representa cerca de 480 associados, que tem como objetivo contribuir para o desenvolvimento da indústria de máquinas e equipamentos da Coréia e estreitar as relações com agências e empresas estrangeiras do setor.

Endereço: <http://www.kamico.or.kr/document?at=srch&prntID=01115&page=intro>



Korean Society for Agricultural Machinery (KSAM)

É uma organização sem fins lucrativos, com foco em pesquisa e desenvolvimento na área de engenharia para a inovação tecnológica para máquinas e equipamentos para a agricultura e setor de processamento de alimentos.

Endereço: http://www.ksam76.or.kr/English/en_index.asp

Feiras e Eventos



2013 Sang-Ju - Agricultural Machinery Exhibition

Período: 01/10 a 04/10/2013

Local: Book-Cheon ShiMin Park, Sang-Ju city, KyeungSangBukDo

Organização: KAMICO

Homepage: <http://www.sjame.co.kr/index.html>

TAMAS 2013 - The 10th Agricultural Machinery & Seeds Show



Período: 2013. 05/11 a 08/11/2013

Local: Daejeon Convention Center, Daejeon

Organização: KOTRA (Korea Trade-investment Promotion Agency), Daejeon City

Homepage: <http://eng.tamas.or.kr/info/info01.html>



RDA – Agriculture Equipment Development



Grafting robot for fruit vegetables

As the grafting cultivation is getting spread out not only gourd, vegetables such as a water melon, cucumber etc, but also the vegetables including a egg plant such as a pepper, tomato etc, we recently developed grafting robot that grafts from 600 to 900 trees per hour which is faster and more accurate than human beings.



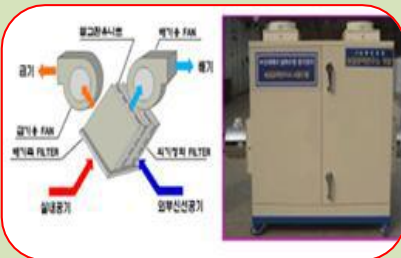
Vegetable transplanter

Vegetable transplanter from vegetable's transplanting task to reduce the labor. It is possible to keep working at the condition of non-covering and vinyl-covered package such as a chinese cabbage, pepper, broccoli, bean, and corn.



Salt elimination system from agricultural water

Salt elimination device that can dispose of it efficiently since the aggravation of an agricultural watercourse and the quality of underground water. It could be expected to produce safe agricultural products and improve its quality as it is available to eliminate 100% of iron content, a positive ion, and 90 to 100% of negative ion and sterilize 100% of general bacteria as well.



Ventilation device for heat recovery

Ventilation device model that can be reused in the agricultural facility by collecting the discharged heat when it is ventilated, to decrease the loss of energy taken out from agricultural facility.



Non-destructive fruit saccharinity grader

Non-destructive fruit saccharinity grader that can distinguish fruits such as an apple, pear, peach, tangerine, water melon, and persimmon without a taste and technically transferred to 5 enterprises



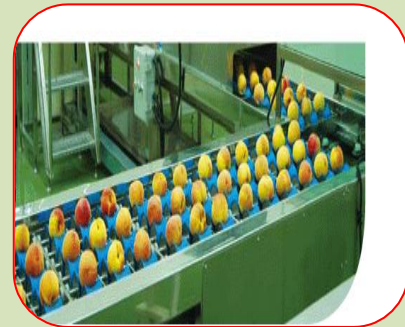
**RDA – Agriculture Equipment
Development**



Cleansing machine for the distribution of safe-credible agricultural products



Device of a high percentage of humidity & a low-temperature keeping



Peach washing equipment

We have developed cleansing machine to supply cleanly rinsed and sterilized green vegetables(a sesame leaf, lettuce and Pak Choi(Brassica campestris var. chinensis), and technically transferred to 5 producing enterprises. And, we have been distributing safe-credible agricultural products by application it at 100 of the producing

We have been realizing high-quality storing by developing a low-temperature keeping device that maintains freshness for a long time and applies at 170 farms, as restraining loss of moisture by maintaining the relative humidity more than 90% during the keeping period of fruits & vegetables at a low-temperature storing.



Apple postharvest



Virus detection kits



Virus detection strips



Crop Dusting Unmanned Helicopter for farmland and crops

Empresas, Máquinas e Equipamentos



<http://www.daedong.co.kr/eng/partners/contactus.asp>



Combine Harvesters



Mounting Planting



Combine Harvesters



Rice Transplanter



Power Thriller



Tong Yang (https://www.tym.co.kr/english/3_global/global_03.asp)



Rice Transplanter



Combine Harvesters



<http://www.dongeun2000.com/new/product/product01.htm>



Small
Excavators





농기계 전문 제작 업체
부흥기계공업사

BuHeung Machinery IND.CO

<http://www.bhmi.co.kr/>



Small Bean and Grain Thresher



Small Corn Thresher



BH-20 [모터식 풍구]

Grain Winning Machine



Grain Classifier



BHS-2012 형

- 길이 : 1380mm
- 폭 : 650mm
- 높이 : 830mm
- 중량 : 60kg
- 소모마력 : 0.2kw
- ※ 용량증상을 위해 제형이 변경될 수 있음.

Garlic Stem Classifier



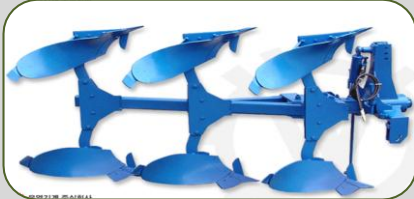
유영기계주식회사
You-Young Machinery CO., LTD.

You-Young Machinery CO., LTD (<http://www.yym.co.kr/index.htm>)

Small-sized Moldboard Plow



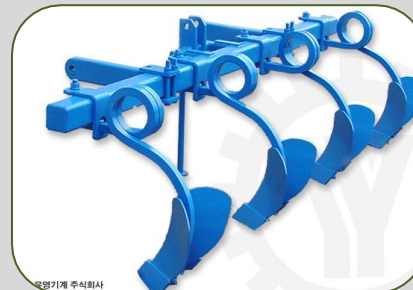
Other forms of Plows



Hydraulic mechanism allows easy control



Grader



Multi-Purpose Soil Covering Machine



KYUNG IL

<http://www.kyungilco.com/>



Seeding Machine



Seeding Machine



Department of Agricultural Engineering Approved
TAE KWANG MACH. CO., LTD.

<http://www.tkmach.co.kr/eng/>



Compost Spreader



Compost Spreader



<http://www.livemac.co.kr/front/contents/main/main.html>



Mid-size Round Baler



Bale Wrapper



Rake Tedder



Rake Tedder



SHIN HEUNG INDUSTRY CO., LTD.

<http://www.shdryer.com/eng/index.asp>

NCD-62AX



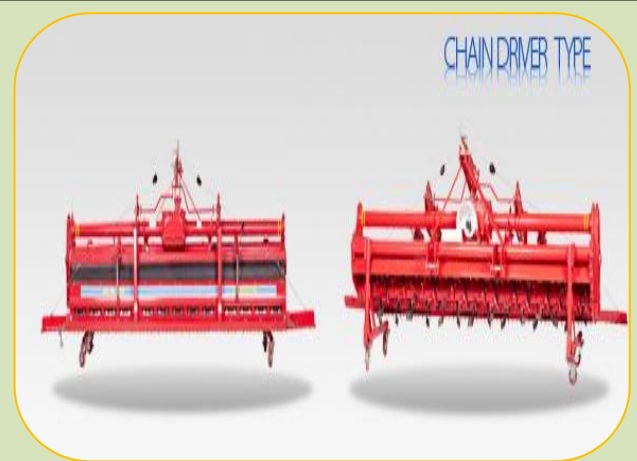
Grain Dryer



Youngjin machinery Co. LTD (<http://youngjinrotary.co.kr/eng/>)



Rotavator



Drive Harrow





<http://www.taesungkorea.com/>

2014년 1월 7일
MANURE SPREADER



*IT CAN BE CONTROLLED SPREADING SPEED,
AND QUANTITY WITH MINIMIZE HYDRAULIC PRESSURE POWER.*

TAESUNG MADE IT ITSELF VERTICAL AND HORIZONTAL TYPE BOTH THE FIRST TIME IN OUR COUNTRY. HYDRAULIC CYLINDER MANURE TRANSPORTING SYSTEM CAN MAKE TO CONTROL SPREADING MANURE QUANTITY AND ALSO IT IS POSSIBLE TO SPREAD WIDE AND BIG AMOUNT OF MANURE WITH STRONG BEATER AXLE SPINNING.

2014년 1월 7일
BACK-HOE



*TAESUNG BACKHOE HAS POWERFUL EXCAVATION, QUICK LIFTING PERFORMANCE,
SPEEDY AND PRECISION WORK PERFORMANCE!!*

TAESUNG BACKHOE HAS POWERFUL EXCAVATION, QUICK LIFTING PERFORMANCE, SPEEDY AND PRECISION WORK PERFORMANCE. SWING POST HAS A WIDE WORKING RANGE WHICH IS FROM LEFT TO RIGHT REVOLUTION UP TO 180 DEGREE. A SWING LOCK DEVICE ENSURES SAFETY MOVING. THE EASY-TO-USE JOYSTICK LEVER INCREASES WORK EFFICIENCY AND WIDE FORK TYPE FOOT TAKES MUCH SAFER WORK CIRCUMSTANCE.

2014년 1월 7일
PLOW



A FIRM FRAME, EXCELLENT DRIVING, MULTIPLE FUNCTION

THIS PRODUCT WAS MADE WITH A SPECIAL BOLT ASSEMBLY METHOD THAT MAKES ASSEMBLY AND PARTS REPLACEMENT EASIER. ALSO ITS RIGHT-CENTRE MOVEMENT-RANGE CAN BE ADJUSTED, MAKING IT OPTIMAL FOR USING IN RIDGES BETWEEN RICE FIELDS AND PLASTIC GREENHOUSE

2014년 1월 7일
TEDDER & RAKE

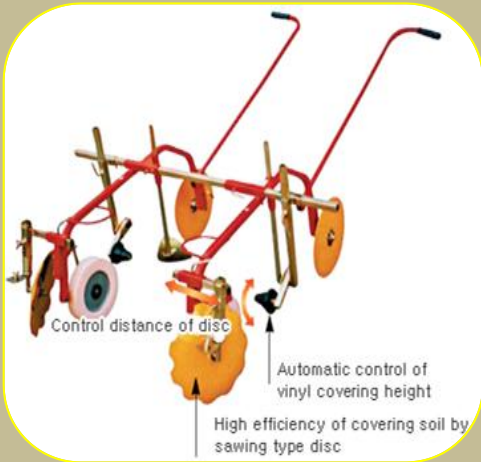


EXCELLENT DURABILITY AND RAKE UP!!

DESIGNED TO SUIT FOR ANY WORK CIRCUMSTANCE, EXCELLENT DURABILITY AND HIGH EFFICIENCY AND MAXIMIZE TO TEDDER AND RAKE CAPACITY.



http://ibulls.co.kr/eng_html/



Vinyl Covering Machine

BG-777B Features Benefits



Easily loosened by pulling the hose, it was stopped immediately
Increase productivity will



Pest Control Machine

- **Controlled by remote control from up to 300m far away**
- **Automatic hose alignment of the hose kinks**



KAMICO – Korea Agricultural Machinery Industry Cooperative

<http://www.kamico.org.kr>

Tillage and Land Preparation Work



Used for farming and livestock raising, such as cultivating, preparing soil, seeding, spraying, and harvesting, by installing onto tractor or power take-off system



Cultivation (soil turning or crushing) and transporting farm produce or farming machinery



Preparing pavements for seeding or transplanting in a paddy or a field



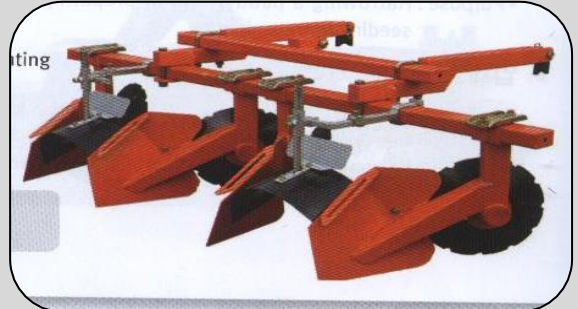
Banking Levee



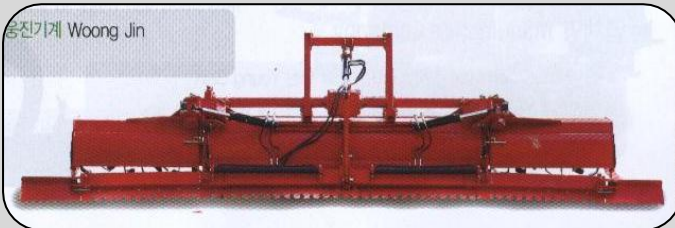
Preparing pavements for seeding or transplanting in a paddy or a field



Harrowing a paddy/field preparing pavements for seeding or transplanting



Pavement soil preparation for seeding or transplanting



Flattening and preparing paddy



Tillage and Land Preparation Work



Farmland Cultivation



Removing excrement in a stall and smoothing out pavements



Forming barley furrows, covering soil after direct seeding on a dry field, and making furrows for manure at an orchard



Wet transplantation of a young or aged rice plant what has growth in a seedling box



Seeding in a paddy field



Germinating seeds for direct seeding in a dry field



Rice seed (sanitize)



Making bed soil for seedling



Awn Remover



Vinyl mulching machine to field



Seeder – Seeding seeds, potatoes and garlic

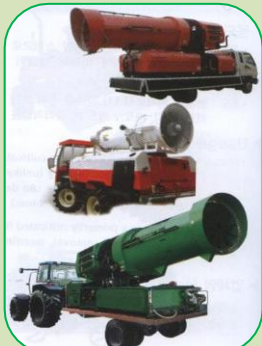


Nursery Seeder – Seeding seedlings

Planning Cultivator Work



Cultivator – Farming in a primarily cultivated field, or for harrowing, soil removal, weeding and other cultivating works



Wide Area Spray – Preventing insect damage in a farming field or an orchard



Farm Twig Crusher – Pruning or Crushing twigs



Power Weeder – Removal of weeds



Power Cultivator – Enhancing soil ventilation, promoting the settlement of roots, and removing weeds



Waste Vinyl Collector



Crop Dusting Unmanned Helicopter for farmland and crops



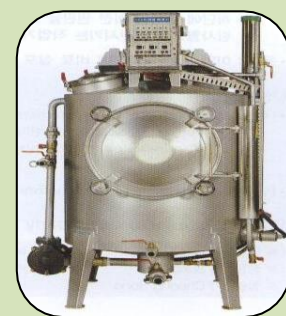
Fertilizer Applicator – Spreading before transplantation or seeding



Speed Sprayer – Insect control/prevention in a house or an orchard



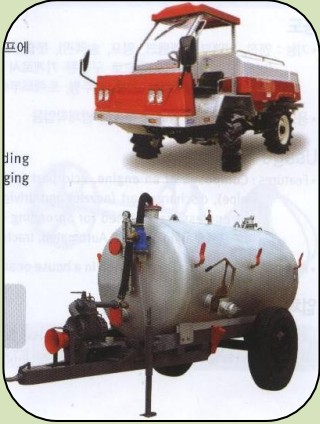
Power Sprayer – Insect damage control/prevention




Plant Nutrition Processing Machine - Cultivating microorganism for promoting the growth of a plant



Planning Cultivator Work



**Liquid Fertilizer Applicator –
Spreading liquid fertilizer or manure**



Spread Manure



Transplanter



**Agricultural Aerial Lift – High
elevation workers, orchard**



**Automatic Hosereel – Control of a
spray hose need for spraying**



**Trailer – Transferring farm
products, fertilizer, and chemicals**



Harvesting Work



Combine – Harvesting Rice and Barley



Grain Carrier



Carrying crops from a pavement or an orchard



Harvesting underground crops (potatoes, sweet potatoes, carrots, red onions, ginseng, etc)



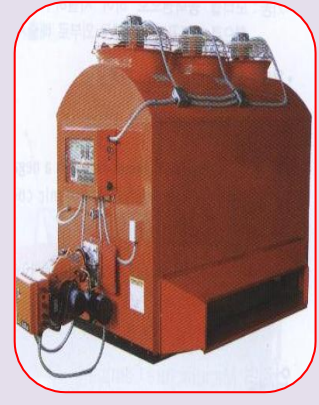
Threshing beans



Garlic trunk cutting

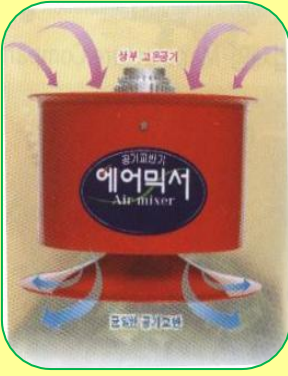


Peeling persimmon skin



Keeping the inside of a greenhouse or a stall warm

Green House Farming



Mixing air inside a greenhouse



Power Fog - Prevention of insect damage



Sterilizing, purifying and removing harmful gas in livestock drinking water, used in a house or an environmental-friendly orchard



Mushroom Rice Straw Crusher – Cutting Straws

Agricultural Products Processing




Sorting out Farm produce




Fig. 7 Peach grading system by sugar content.

Non-destructive Processing Fruits

Agricultural Products Processing

Removes Chaff and dust from cereals



Conveying baled straws



Covering a Baler



Heat recycling ventilator



Raking weeds



Harvesting grass



Chipping twigs or wood



Harvesting corns and grass



Mixing Livestock Feeds



Washing farm products (Vegetables, fruits)



Protein Analyzer and Paddy automatic examiner Measuring protein content and rice quality



Baling – bundles a certain amount of crops including straws or grass. Bales in a cylindrical or a square bundle



Milling Machinery - Processing Rice



Separating garlic cloves



Remove glass, plastic, stone, etc. in cereal, tea, miscellaneous cereals, etc. Use high resolution charge coupled device CCD camera



Grafting Robot



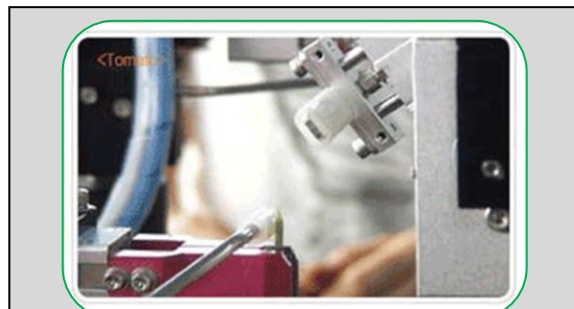
Grafting Robot for vegetables and fruits



Supply part
Supplying rootstock and scion



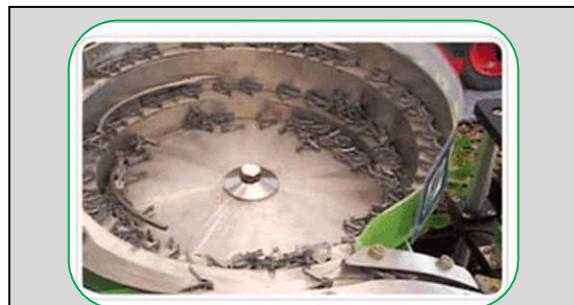
Cutting part
keeping safely remained cotyledon when
cut off one cotyledon



Cutting part
Cut off stem of rootstock and scion



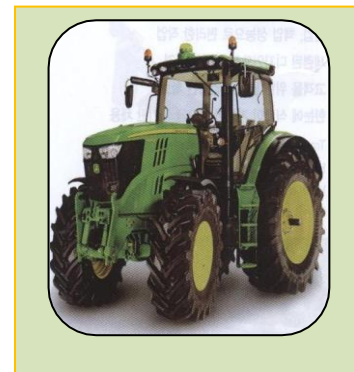
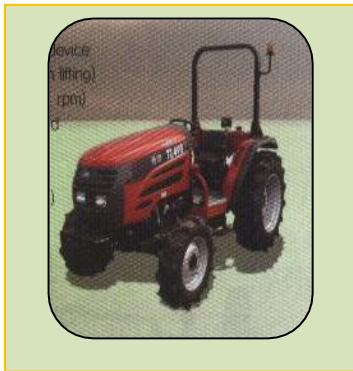
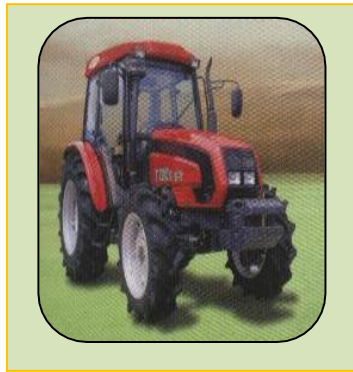
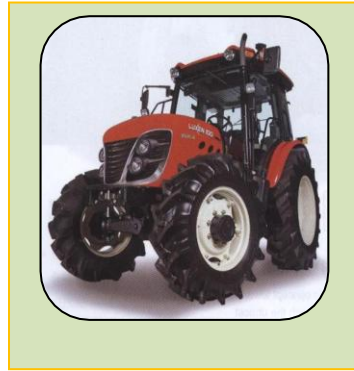
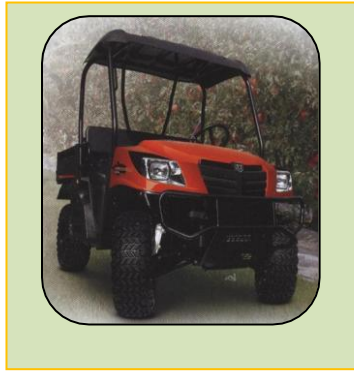
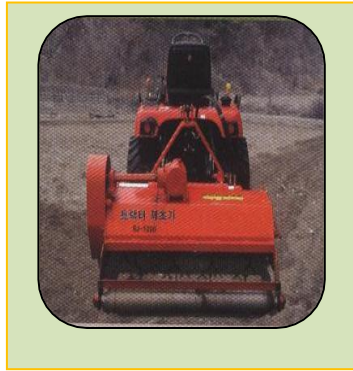
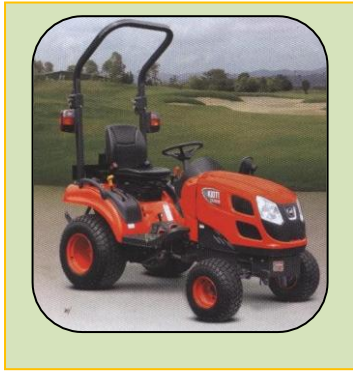
Matching part
Matching correctly against rootstock and
scion



Clipping part
Plastic clip will be supplied one by one
automatically



Tractors and Vehicles



Electric Power CartCombined Environment Control System

Smart Farming System is Integrated environment controlled. It used at Vinyl Greenhouse, Cattle Shed, Plant Factory. Image monitoring Real-time display of temperature, Humidity, and CO₂, Remote control of equipment/covers.

Harvests Fruit

The machine used to harvest a fruit in the orchards, trimming unnecessary branches of tree and available at high place work.

Insect Control System



Blue Candle Light



Multi Insect Solar Trap



Trappi



Sunlight Insect Pest Control System



Photosynthesis Acceleration Machine (Co2 generation)



Heat pump



Feed Mixer



Insect Decoy



Crusher(Multi-purpose crusher)



Fermentation Mixer(feed fermentation and feed mixer)



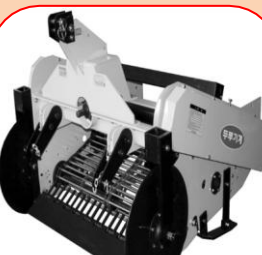
SPEED SPRAYER



WOOD CHIPPER



Food Dryer



Forage Harvester



Soil moisture, temperature sensor



Cleans the beans by removing the bean covers and classifies by sizes



Beans Thresher



Sprayer



Sprayer



Tapper Brinder



Juice Machine System



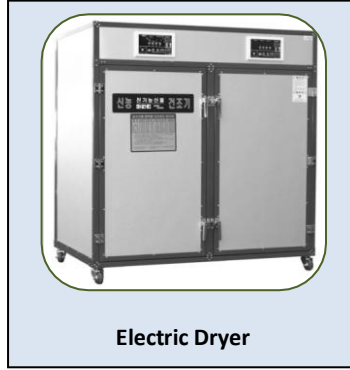
Unmanned Agriculture Cropdusting Helicopter



Agricultural Electric Car



Agricultural Electric Car



Rice Mill

Electric Dryer



Plant Grow Lamp (Red, Blue and R&B)



EC/pH Distribution-type nutrient-supplying system



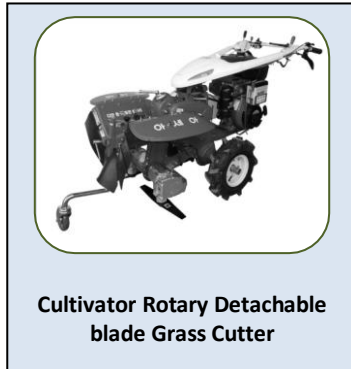
Till and drill combinations, Fertilizer spreader, Field sprayer, Cultivator



Undergroundcrop harvester



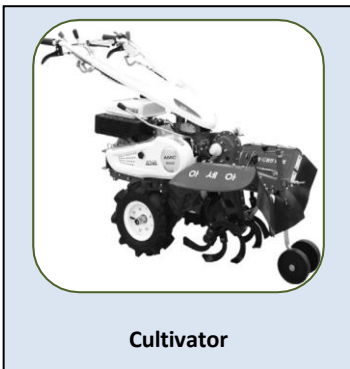
Sprayer



Cultivator Rotary Detachable blade Grass Cutter



Speed Sprayer



Cultivator



Rice Sorter



Tea Sorter



Power Fertilizer with Culture Fluid Adjuster for Cultivation of EM Microbes used for Eco-Friendly Farming



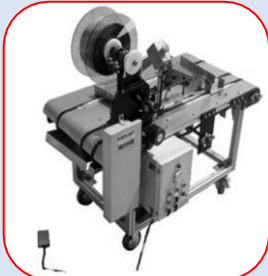
Liquid manure Spread



Heat Pump Equipment



Non-destructive BRIX - Fruits



Amarrar verduras (Ma;os)



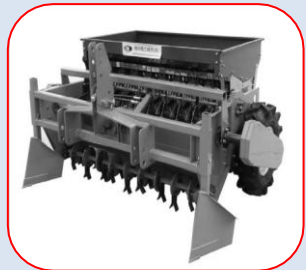
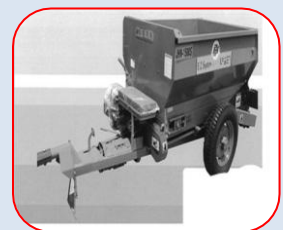
Fog Sterilizer



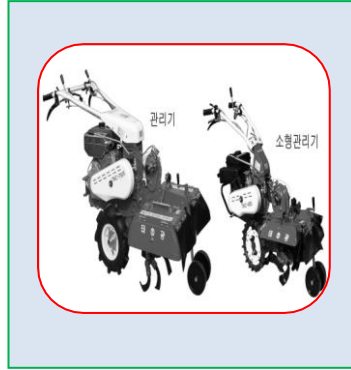
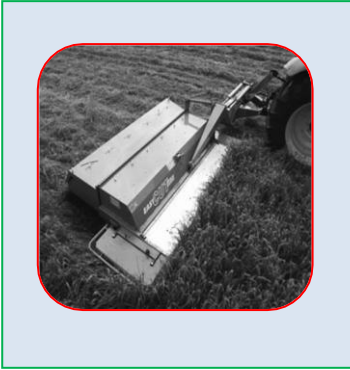
Rice Germinating



Manual Seeder



Garlic Planter



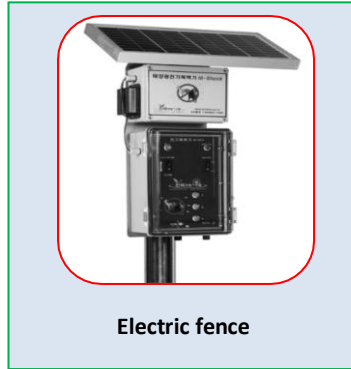
Manure Fermentation



Garlic Harvesters



Fumigation & Smoking



Electric fence



Heater



Agricultural Peeler



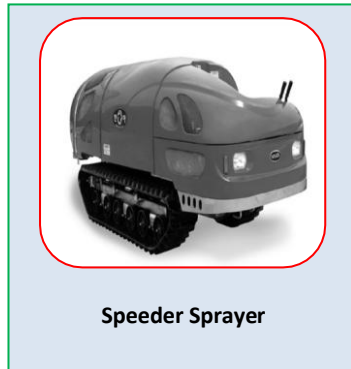
Water Purification System



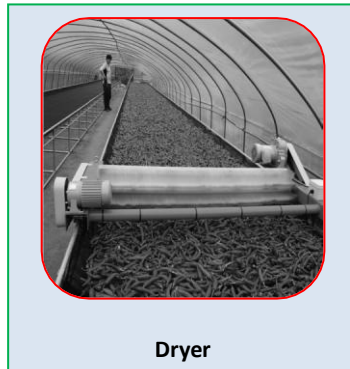
Agricultural Harvesters



Agricultural washer products



Speeder Sprayer



Dryer

Asia Agricultural Machinery

Boom Sprayer

Fertilizer Sprayer

Mulcher

Former & Mulcher

Ditching Rotor

Cultivator

Cultivator

Cultivator

DR-25(S)/30(S)

꺾굴기/DITCHING ROTOR
과수원의 심경 구굴작업, 보리파종작업, 복토, 복주기작업, 배수로, 관수로작업
The Asia Ditching Rotor puts fertilizer in orchard, makes ridges and heaps soil onto plants to cover up roots.

RT-60

중경제초기/ROTARY TILLER

- 로타리 및 중경제초, 평탄, 김매기 작업
- 표면시비, 금질작업, 줄보리 파종작업
- The Asia Rotary Tiller is used for medium plowing, weeding, flat and rotary tasks.

MR-1200

심경로타리/MIRACLE ROTARY

- 직물 수확 후 그루터기 및 정지작업
- The Asia Miracle Rotary digs up the remaining weeds and roots to prevent damages to plants and to condition the soil after harvest.

AHR-650

제초기/HAMMER ROTOR

- 과수원의 제초작업
- 고추, 담배대, 참외, 수박 등의 넝쿨파쇄
- The Asia Hammer Rotor pulls weeds, cuts grass and eliminates trunks and vines after harvest.

AF-300

후립기/FORMER

고추, 마늘, 담배, 참깨, 수박, 참외, 오이, 배추, 옥수수, 토마토, 양파 등의 두둑성 형작업
The Asia Former makes round and angled levees to plant a variety of crops.

AF-300T

후립기/FORMER

FM-120

후립파복기/FORMER & MULCHER

- 각종 전작물의 두둑성형 및 비닐파복 동시작업
- The Asia Former & Mulcher covers different types of levees as they are made.

AP-25

쟁기/PLOW

- 논밭 및 비닐하우스 내외의 심경작업
- The Asia Plow is used for deep plowing of rice paddies or dry-farming fields and is easily used inside narrow vinyl plastic greenhouse.



Asia Agricultural Machinery



AR-1200N

예취기/REAPER

- 벼, 보리 등의 예취작업
- The Asia Reaper cuts rice paddy and barley.



AR-1200CN

옥수수예취기/CORN REAPER

- 수수, 옥수수, 호밀 등의 예취작업
- The Asia Corn Reaper cuts millet corn, rye and other kinds of crops.



AM-180

비닐피복기/VINYL MULCHER



TR-60

로타리/TILLING ROTOR

- 물논의 정지작업
- 일반 로타리작업
- The Asia Tilling Rotor is used to plow both dry-farming fields and wet farm fields.



RD-3

배토기/RIDGER

- 각종 작물을 심기 위한 좁은굴 만들기
- 제초, 배수로 및 복주기 작업
- The Asia Ridger forms narrow ridgers to plant a variety of crops.



VR-500/550

진동식배토기/VIBRATION PRESS RIDGER

- 화해단지, 인삼포, 하우스내 배수로 작업
- 열기밭 두둑다짐 작업
- To prevent the ridges from collapsing, the Asia Vibration Press Ridger hardens the sides of the levee as it is being made.



BR-900N



BR-900NH




SS-555G5/G6

SS7기/4 WHEEL DRIVE SPEED SPRAYER



SS-1016TLD2

SS7기 4륜조향 SS7기/4WHEEL STEERING SPEED SPRAYER




ASS-433CG2

크레더형SS7기/CRAWLER SPEED SPRAYER




ACS-1000

캡슐형SS7기/CABIN SPEED SPRAYER



PC-650M5/1000M

파워캐리어/POWER CARRIER



Baler



Slice Combine Baler



Harvester

Asia Agricultural Machinery**Wrapping Machine****Swatters lines**

• DISCO210/250

• MDM1750

Disc Mower**CAAS Combine**

• MF 7480



• HR-900

Hanna Rotor

• MW-900

Mower Rotor

• AVR-650

Power Ridger**Others Companies**

DR-1500S

Harvesters - Roots

DR-1400SLT

Harvester – Deep Root

DR-1400A

**Harvester – Potatoes, Onions,
Sweet Potatoes**

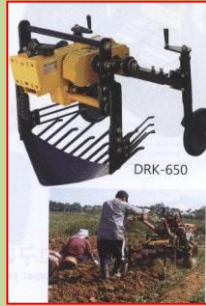
DR-1400F

**Harvester – Radish, Carrot,
Ginger**

Others Companies



Harvester- Sapling Seeding, Snaked Berad, Root Herb



Harvester - Potatoes



DR-600

감자수

Potato Har

-소규모 감자

-동력전달 시

-떨트 및 차단

-작업자가 힘

• Useful for small

• Ideally built

• Easy to handle

• Stable weight



돌수집기

Rock Collector



Machinery for Garlic

DRGH-1800



DRSP-350K

Garlic Clove Separator



DRGS-350K

Garlic Clove Sort



3002 / 2500 / 2700 / 3000 / 3500

JK-2500

JK-2002

JK-3500

JK-2500

Auto Seeding Machine



DK-1000

DK-4000-CA

DK-4000-LD

DK-4000-4C2



Bactic Hand Lift

- 농작업 환경에서 편리성(배터리 사용 대안 없음)
- 핸들과 리프트를 결합한 구조로 작업(100kg) 가능 높이 90cm
- 한-웨이 클러치 방식 사용
- 큰 와셔, 핸들 및 리프트 기능 두 가지 구동
- 2인 1용(2인) 작업 가능 (OH450W) 운전식 사용
- User-friendly and excellent for environmental improvement in farming.
- Combining a handcar and a lift. Provides load capacity of 100kg, elevation up to 90cm high.
- Using a one-way clutch system, a single motor can provide two operations (handcar and lift).
- Powerful motor featuring an electronic brake (550W) and using rechargeable battery.



1m³/회

Feed Mixer



전기식 건조기 ELECTRIC DRYER

CEPP-150



추세척기 RED PEPPER WASHER



전기식 건조기 ELECTRIC DRYER

DY-330H



단백질 자동판정기 Rice Protein Ingredient Analyzer



Protein Analyzer & Paddy Automatic Examiner

Others Companies



Rice-polishing Machine



Electric Dryer for Agricultural and Marine Products

생산품목 Products

▶ 트랙터 비닐피복기(3조) MPT-340
Tractor Plastic film Packager (3-par.) MPT-340

▶ 마늘쪽분리기 MPR-1500
Garlic Separator MPR-1500

▶ (고구마, 감자)비닐피복기 MPK-600
Sweet Potato / Potato Plastic Packager MPK-600

▶ 농산물선별기(마늘) MSS-3000
Product Separator(Garlic) MSS-3000

▶ 휴립복토기 MPB-410
Ridging Covering Device MPB-410

▶ 고구마 수확기 MPH-700
Sweet Potato, Harvester MPH-700

▶ 인삼수확기 MPH-740
Ginseng Harvester MPH-740

▶ 감자, 약초 수확기 MPH-720
Potato, Herb Harvester MPH-720

▶ 재초기(고구마 순치기) MPA-920
Weeder (cutting sweet potato shoot)

▶ 수출용 수확기 MPH-740
Harvester MPH-740

▶ 농산물 세척기 MPS-800
Versatile Farm Product Washer

▶ 일괄수확기 MPH-750
Integrated Harvester

고추, 피망, 당근, 감자, 고구마

Multiple Function Seeder



ASD-041 ₩440,000
ASD-2251 ₩350,000



ASD-042 ₩880,000
ASD-2252 ₩700,000



ASD M-081 ₩520,000
ASD M-201 ₩440,000



ASD M-082D ₩1,060,000
ASD M-102D ₩960,000



ASD-044RK ₩2,040,000



ASD M-084K ₩2,300,000



ASD M-086T ₩3,720,000
ASD M-106T ₩3,420,000
ASD M-206T ₩3,240,000



ASD M-088T ₩4,760,000
ASD M-108T ₩4,360,000
ASD M-208T ₩4,120,000

다기능 I (종합세트) 주간거리 7.5/15/22.5/30/45cm

다기능 II (종합세트) 주간거리 10/20/30/40/60cm

전용(기원, 투) 파종기의 구조 및 기능 Simple Purpose Seeder 흙퍼(종자바가지)와 씨앗 선택 종류)

흙퍼순서 : 신1번 → 신2번 → 2번 → MA → BY → OA → PK → 3B → 4A → 4B → 신5번 → 5번 → +5번 → 6번 → 7번 → 8번 → +8번
주간거리 9/18/27/36/cm (선택)



ASJ-12-1A ₩330,000
ASJ-6-1A ₩300,000



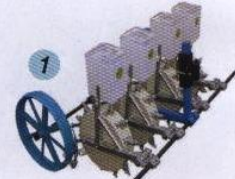
ASJ-12-2A ₩660,000
ASJ-6-2A ₩600,000



ASJR-91 ₩360,000
ASJR-181 ₩330,000



ASJR-92J ₩740,000
ASJR-182J ₩680,000



ASJ-12-4RK ₩1,620,000
ASJ-6-4RK ₩1,500,000



ASJR-94K ₩1,660,000
ASJR-184K ₩1,540,000



ASJ-12-6RT ₩2,700,000
ASJ-12-7RT ₩3,050,000



ASJ-12-8RT ₩3,400,000
ASJ-12-10RT ₩4,100,000



ASJR-94T ₩2,040,000
ASJR-184T ₩1,920,000



ASJR-96T ₩2,760,000
ASJR-95T ₩2,400,000



ASJR-98T ₩3,480,000
ASJR-97T ₩3,120,000

Multiple Function Seeder (ASD I)

The machine can plant nearly all kinds of seeds.
Can be attached to the Cultivator and Tractor Rotavator
Hoppers can be selected among fifteen choices

A seeder with 12 planting prongs has an interval of 7.5cm between each prong.(ASD)
A seeder with 12 planting prongs has an interval of 10cm between each prong.(ASD M)
A seeder with 12 planting prongs has an interval of 9cm between each prong.(ASJR)

Ex) If the operator wants to plant two seeds of spinach with an interval of 7.5cm, he should use the one with 12 planting prongs.

- No. 1, 2 : pak-choi, turnip, leaf mustard, chinese cabbage, chinese ballflower, lettuce, chicory, onion etc.
- No. 3, 4 : spinach, young radish, radish, glycyrrhizae radix, allium, onion, sesame, astragal radix, beet etc.
- No. 5, 6 : spinach, young radish, pickled radish, mung beans, leek, deodeok, durra, burdock etc.
- No. 7, 8 : mung beans, leek, deodeok, durra, ginseng, medical plant, chard, buckwheat, bean etc.
- No. 9, 10 : red-bean, chard, rice, barley, buckwheat, rye, adlay, bean, sapling, corn, etc.
- No. 11-15: rice, barley, wheat, rye, corn, soybean, peanut etc.

Multiple Function Seeder

◆ THE SPECIAL FEATURES OF AH-SHIN ROTARY TYPE POINTED SEEDERS.

1. Ah-shin seeders plants seeds with 100% accuracy as rice transplanting machines do.
2. Ah-shin seeders can do three jobs at once : tilling, planting, and covering.
3. Ah-shin seeders can work even over rows with plastic (vinyl) covers.
4. In case of ASR-1, even older farmers can operate easily, and this seeder can do the work of 20 people.
(Working capacity: ASR-1 is 16,529 square meters per day and ASR-2 is 33,058 square meters per day.)

Multiple Supplies Seeder (ASR I)

According to the type and size of seeds, the scales should be adjusted to the proper settings before putting the seeds into the seed hoppers. For example, for sesames seeds, set the scale to '6' which will release 4 to 5 seeds or set the scale to '8' which will release 6 to 7 seeds. When using the Multipurpose Seeder (basic interval is 18cm), simply adjust one knob to '0' setting. This will close one tunnel to the planting prongs and automatically create an interval of 36cm. The width between the two seeders can be adjusted from 18cm to 45cm. The machine can plants nearly all kinds of seeds.

아신산업
AH-SHIN INDUSTRIAL COMPANY

- 본사, 공장 : 대구광역시 달성군 회원읍 성산리 733-1
- Tel : (053) 639-4411~3 • Fax : (053) 639-4414
- 733-1 Sungsan-ri, Hwawon-up, Dalseong-gun, Daegu, Korea.

Threshers

• 사용하기가 편리하고 작업능률이 높다.



• 실용실인등록
제20-0439716호

4단신형 선별기 BHB-2007

옥수수 탈립기 Corn Harvester



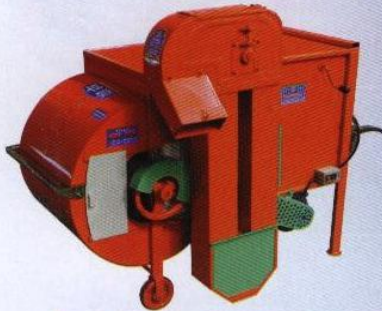
옥수수 탈립기



계통식 탈곡기 BHD-1000

다용도 정선기 A Multipurpose Blower

• 콩, 팥, 옥수수, 벼, 보리, 조, 참깨 녹차잎 등
• 곡물의 종류에 따라 풍량조절이 쉽게 되는 정선기



승강기식 정선기 BH-50

• 의장등록 제232060호
• 실용실인등록 제0238974호



모터식 정선기 BH-30

풍구 Blower



모터식 BH-25, BH-20, BH-10

동력파쇄기 / 동력절단기 Power Cutter

• 농산물의 줄기, 잔가지 파쇄, 절단
• 농산물의 줄기, 4단계 크기절단



파쇄기 BHC-100

마늘줄기절단기 Garlic Stem Cutter

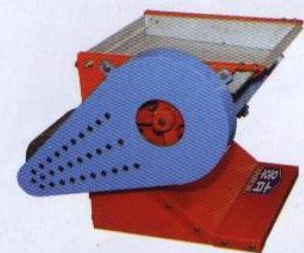
• 마늘줄기 절단작업을 동력에 의하여 자동으로
하며 절단 길이 조절 가능



마늘줄기절단기 BHG-2010

절단기 Sweet Potato Cutter

• 고구마, 배, 사과 등의 절단용
• 절단물의 두께 조절가능



모터식



부흥기계공업사

BUHEUNG MACHINERY IND.CO

<http://www.bhmi.co.kr>

경남 진주시 진성면 동부로 1247 (진성농공단지 입구)
1247, Dongburo, Jinseong-myeon, Jinju-si, Gyeongsangnam-do

TEL : (055)754-6038, 754-1038

야간 : (055)754-6076 FAX : (055)754-0668

Threshers



[잡곡겸용]

대형 BHD-2000 [모터형/경운기형]



중형 BHD-1800 [모터형] - 잡곡겸용



소형 BHD-1300 [모터형]



BHD-1500 [잡곡겸용]



대형 BHDT-2000 [트랙터 부착형]



경운기 트레일러형 POWER TILLER

- 운반과 탈곡겸용
- 실용실안등록 제364264호
- 실용신안등록 제425496호

경운기 트레일러형 BHPD-2000

잡곡탈곡기 *Minor Cereals Thresher*

땅콩탈곡기 *Peanut Thresher*



특대형 BHDT-3000 [트랙터 부착형]



BHDW-2000 [모터형] - 인버터모터형

BHDWT-2000 [트랙터형]



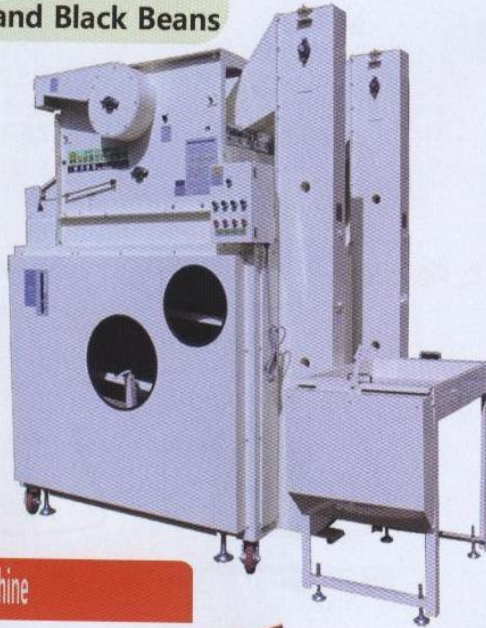
BHPE-2500 [모터형]

BHPET-2500 [트랙터형]



Threshers

SB-E10C(1,250kg/h)
노란콩,검정콩 겸용
For Yellow and Black Beans



1. 콩 정선부터 선별까지 일괄기계화
 작업으로 신속하고 정확한 처리



2. 노동력 절감,콩품질 향상



3. 약 20배이상 비용절감효과



4. 부가가치 향상으로 소득증대

SB-E10: 최대능력 750kg/h
SB-300T: 최대능력 3,000kg/h

상토 조제기 Bed Soil Machine



SB-2000겸용상토기
 shovel Type
 · 동급최고의 상토조제량



SB-3000로더용상토기
 Screw Conveyor Type
 · 트랙터 로더로 사용하는 중형



SB-4000자동상토기
 Conveyor attached Type
 · 로더로 많이 투입
 · 컨베어로 차량에 자동적재
 · 컨베어 분리하여 사용



SB-4200중형상토조제기
 Two Conveyor attached Type
 · 사용 편리, 시간당 성능우수
 · 넓은 투입호퍼, 투입컨베어
 이중분쇄축 설치!!

기 타 제 품 Other



SB-10000영업용상토기
 Bed Soil Machine for Business
 · 대용량 처리! 상토조제사업
 · 양질의 상토 생산



BC-140농용컨베어
 Agricultural Conveyor
 · 곡물, 상토, 퇴비, 상자등 이송
 · 이송량 조절용이
 · 곡물이 깨지지 않음



SB-2400봉지버섯탈봉기
 Pot Cultivated Mushroom Separator
 · 봉지와 내용물이 자동선별분리
 · 내용물이 승강기로 배출되어
 차량에 적재용이



MA-1000자동입폐상기
 Automatic Bed Loader/Unloader
 · 폐상시 자동으로 차에 적재
 · 스타리 배지입상시 비닐
 자동 깔림

※ 제품의 사양은 제품성능의 향상을 위하여 예고없이 변경될수 있습니다.



Threshers

최대 생산량, 가장 뛰어난 성능 Multi-Crop Thresher



특대형 탈곡기
ESP-1000트랙터부착식
High-Performance Multi-Crop Thresher

I Feature I

STEP 1

막힘없이
넣어주면!

뭉음 끈만 풀고
단체 투입하는
속시원한 처리능력

STEP 2

막힘없이
탈곡해서!

공이 밖으로
나가는 것을 방지하는
속시원한 처리능력

STEP 3

막힘없이
끝내준다!

시간당 800kg이상
처리하는
속시원한 처리능력



소형 쿵 탈곡기
SB-1000S경량형모터식
Lightweight Motor-Type



중형 쿵 탈곡기
ESP-1트랙터부착식
Tractor-Attached



중형 쿵 탈곡기
ESP-2모터부착식
Motor Attached



중형 쿵 탈곡기
ESP-3경운기부착식
Cultivator Attached



중형 쿵 탈곡기
ESP-300경운기견인식
Cultivator Traction-Type



대형 쿵 탈곡기
ESP-100트랙터부착식
Tractor Attached

공 정선 · 선별기 Bean Separator/ Sorter



소형공정선기(SB-E7)
Small Precleaner

- 진공청소기원리 : 콩겉질 흡입, 배출
- 흔들체의 이중정선방 : 껍, 모래, 깨진콩 정선



대형공정선기(SB-E8)
Cylindrical screen

- 시간당 480kg 이상의 대용량을 4가지의 크기별로 신속하고 정확히 선별.



중정선선별기(SB-E78)
Bean Separator/ Sorter

- 중구작업과 입자크기선별 작업을 동시에 처리
- 바람양 조절이 쉽고, 먼지가 덕트로 나가 작업장이