HQ
YJ Tech Campus Cheongju
Hwaseong

Global Networks AMERICA POLAND
CHINA HUNGARY

Yujin Technology

[본사]
충청북도 청주시 흥덕구 2순환로 742번길 42 Tel. 043-237-1113 Fax. 043-237-3339
42, 2sunhwan-ro 742beon-gil, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea
[YJ Tech Campus]
경기도 화성시 봉담읍 삼천병마로 1135 4F Tel. 031-306-0770
4F, 1135, Samcheonbyeongma-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-do, Republic of Korea

www.yujintechnology.com

Yujin Technology

www.yujintechnology.com



Yujin Technology

CONTENTS

회사소개 About Us 04

주요연혁 Major History 06

조직도 Organization 08

해외법인 Global Network 08

비전 Vision 09

정밀금형 Precision Metalic Mold 10

정밀기계부품 Precision Machine Parts 14

자동화장비 Automated Equipment 18

리드탭 Lead Tab 22

지식재산권 Intellectual Property Rights 26

검사장비 Inspection Instrument 29

생산설비현황 Current status of production facilities 30







회사소개
About Us

신뢰로 **함께** 만들어가는 **창조적 혁신기술**
Creative and Innovative Technology Lead by Confidence

이차전지 **Onestop Total Solution** 기업
One Stop Total Solution Company Related to Secondary Battery Manufacturing

(주)유진테크놀로지는 이차전지 생산 관련 정밀금형, 자동화 장비, 정밀기계부품 개발로 품질 완벽주의를 통한 고객신뢰를 기반으로 한 국내 최고의 종합 엔지니어링 기업이며 이차전지에 사용되는 LEAD TAB을 자체 기술력으로 개발, 생산하고 있습니다.
Yujin Technology is a leading comprehensive engineering company in Korea. In pursuit of customer trust through quality perfectionism, the company develops precision molds, automation equipment, and precision machine components related to secondary battery production.

저희 (주)유진테크놀로지는 특성화된 기술력과 젊은 패기, 일에 대한 열정으로 모든 제품에 대해서 정확한 납기, 고객의 경쟁력을 한층 강화시키는 최고의 품질과 저렴한 가격으로 고객 여러분께 가장 믿음을 주는 사업의 파트너가 되도록 노력하겠습니다.
We strive to be a trusted business partner and enhance customer competitiveness through specialized technology, energetic spirit, boundless passion and accurate delivery of all products, with the highest quality and most competitive prices.

고객 여러분들의 많은 관심과 성원을 부탁드립니다.
We look forward to your interest and support.

대표이사 여현국, 이미연
CEO Yeo Hyunkuk, Lee Miyeon

주요연혁
Major History

2023

11 Yujin Tech Campus 개원
YJ TECH CAMPUS Opening

11 코스닥시장 상장
KOSDAQ listing

2022

06 국무총리 표창
Prime Minister's Commendation

05 충청북도지사 표창
Chungcheongbuk-do Governor's Commendation

04 ISO 45001 인증
ISO 45001 certified

03 지역혁신 선도기업 선정(중기부)
Selected as a regional innovation leading company (Ministry of SMEs and Startups)

03 청주시 고용선도기업 인증
Cheongju City Employment Leading Company Certification

03 Yujin Technology America Inc. 오하이오 공장 설립
Yujin Technology America Inc. establishes Ohio factory

2021

12 가족친화기업 인증(여성가족부)
Certified as a family-friendly company (Ministry of Gender Equality and Family)

04 글로벌 강소기업 지정
Global Strong Small Business Designation

2020

12 천만불 수출탑 수상
10 Million Dollar Export Tower Award

09 Yujin Technology Hungary Kfㅏ 헝가리 법인 설립
Yujin Technology Hungary Kfㅏ Established a Corporation in Hungary

02 청주시 흥덕구 2순환로742번길 42 사업장 이전
Moved the Business Site to 42, 2-Circle-ro 742beon-gil, Heungdeok-gu, Cheongju-si

2019

05 충청북도지사 표창
Awarded a Commendation From the Governor of Chungcheongbuk-do

05 대통령 표창
Received a Presidential Citation

2018

12 대전지방국세청장 표창
Awarded a Commendation From the Commissioner of Daejeon Regional Tax Office

12 오백만불 수출탑 수상
Awarded Five Million Dollar Export Tower

10 산업통상자원부장관 표창
Awarded a Commendation From the Minister of Commerce, Industry and Energy

08 중소벤처기업부장관 표창
Awarded a Commendation From the Minister of Smes and Startups

2017

12 고용노동부장관 표창
Awarded a Commendation From the Minister of Employment and Labor

12 충북지방중소벤처기업청장 표창
Awarded a Commendation From the Minister of Chungbuk Regional Smes and Startups

08 Yujin TechnologyPoland Sp. Z.o.o 폴란드 법인 설립
Yujin Technology Poland Sp. Z.o.o Established a Corporation in Poland

04 중소기업청장 표창
Awarded a Commendation From the Ministry of Smes and Startups

01 고용노동부장관 표창
Awarded a Commendation From the Minister of Employment and Labor

2016

12 삼백만불 수출탑 수상
Awarded Three Million Dollar Export Tower

10 柳珍机电贸易(南京)有限公司 중국 법인 설립
柳珍机电贸易(南京)有限公司 Established a Corporation in China

10 국무총리 표창
Received a Prime Minister Citation

10 충북중소기업대상 기술부문대상(충청북도)
Awarded Technology Category Prize (Chungcheongbuk-do) in the Chungbuk Smes Category

2015

01 Yujin Technology America Inc. 미국 법인 설립
Yujin Technology America Inc. Established a Corporation in the U.S.A

2013

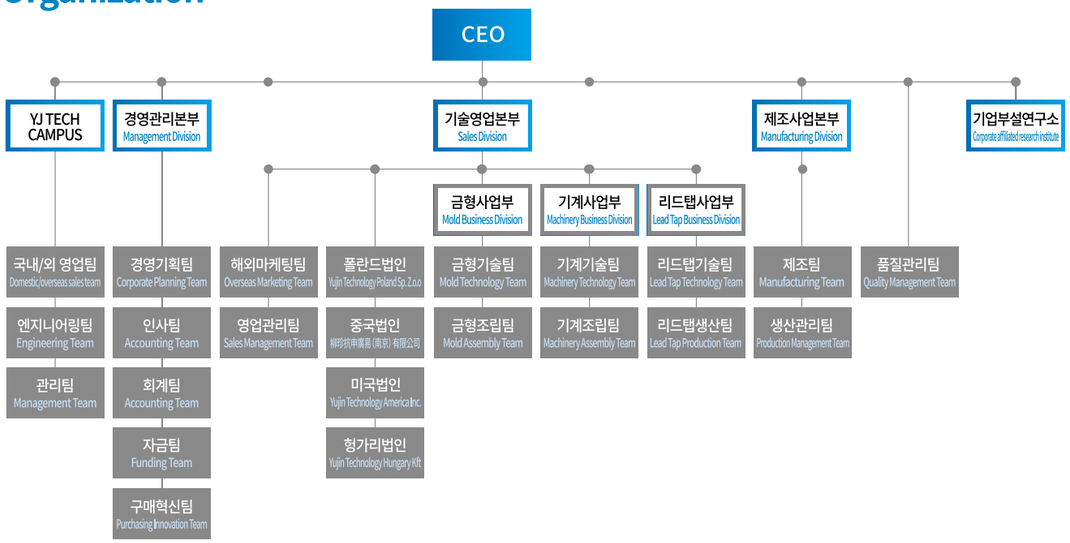
02 ㈜유진테크놀로지 양청지점 설립 (청주시 청원구 오창읍 양청송대길 74)
Established Yujin Technology Yangcheong Branch (74 Yangcheongsongdae-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, S. Korea)

2010

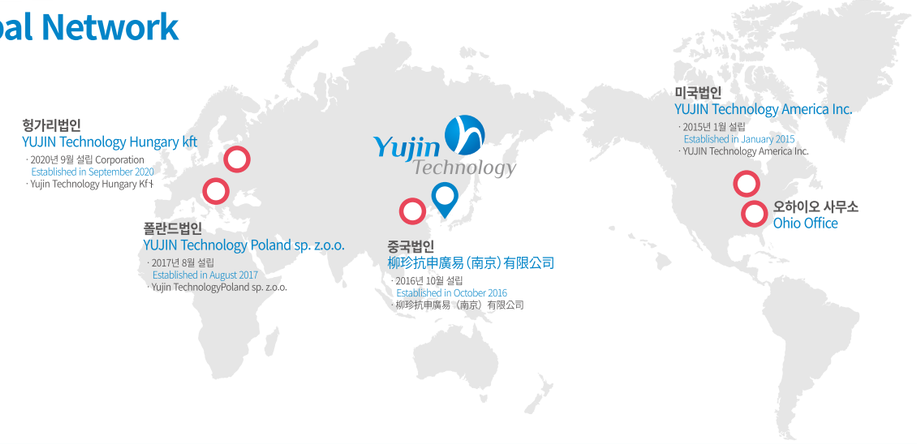
06 청주시 청원구 오창읍 신평중신길 93-22 사업장 이전
Relocated the Business Site to 93-22 Sinpyeongjungsin-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, S. Korea

05 ㈜유진테크놀로지 법인 설립 (청원군 강외면 정중리 75-1)
Established Yujin Technology Corporation (75-1 Jeongjung-ri, Gangae-Myeon, Cheongwon-gun, S. Korea)

조직도
Organization



해외법인
Global Network



YUJIN Technology America Inc.	柳珍抗申廣易（南京）有限公司	YUJIN Technology Poland sp. z.o.o.	YUJIN Technology Hungary kft	YJ TECH CAMPUS
76 Veterans Drive, Suit 660, Holland, Michigan, USA	No.102, Building 7, No.1 Hengyi Road, Nanjing Economic and Technological Development Zone, Qixia District, Nanjing city, Jiangsu Province	Przemys ł owa 7 55-080 Pietrzykowice, Poland	1063 Budapest, Bajnok utca 12. Fsz. 1. ajtó, Hungary	경기도 화성시 봉담읍 삼천병마로 1135, 4F
+1-248-756-0499	+86-25-8562-9886	+48-729-411-696	070-4408-7075	031-306-0774

비전
Vision

Satisfaction

고객이 신뢰하고
만족하는 기업
Companies that customers
trust and are satisfied with

Profesional

미래 금형, 자동화장비,
정밀기계부품 선도전문기업
Future mold, automation equipment,
precision machinery parts leading company

Challenge

항상 도전하고 도약하는
최고의 기업
The best company that always
challenges and leaps forward

Dream

모두의 꿈이 이루어지는
행복한 기업
A happy company where everyone's
dreams come true.





01
정밀금형
Precision Metalic Mold

- Notching Mold
- Forming Mold
- Blanking Mold



특장점 Special Features

- 축적된 경험 및 기술을 바탕으로 빠른 납기대응과 최고의 품질을 보장
  Timely delivery and finest quality guaranteed based on accumulated technology and expertise
- 고객사별, 제품별 각기 다양한 이차전지 필름의 물성 및 Coating된 활물질 등에 대응 가능한 기술력을 보유
  Technology capable of responding to physical properties of a wide range of secondary battery films by customer and product and coated active materials
- 우수한 설계인력과 가공기술, 조립능력을 보유하여 빠른 납기에 제공이 가능
  Timely delivery with talented designers and advanced processing technology and assembly
- Pocket Type으로 인해 Clearance 조정이 용이하며 Guarantee 타수가 높음
  Pocket-type ensures easy clearance adjustment and ensures large number of guaranteed counts
- Plate 일체형으로 금형 내구성이 좋아지기에 금형 수명이 김
  Integrated plate ensures long mold life with improved mold durability
- 1Step 가공으로 인해 가공에 대한 누적 공차가 최소화되어 공차 관리가 용이
  One-step machining minimizes accumulated tolerance for machining, for simple tolerance management
- 내구성이 우수하기에 Clearance 변화량이 적음
  Minimum change in clearance with excellent durability
- AL7075 소재 사용으로 인한 설비에서 진동으로 인한 Stress 가 적어 타발성이 우수
  Excellent punching and minimize stress caused by vibration in equipment, using AL7075 materials
- 타발면 프로파일 가공에 따른 뛰어난 조도 (Ra0.1 이하)로 인해 타발성이 우수
  Excellent punching with superb roughness (Ra0.1 or less) according to punching surface profile machining
- Regrinding후 각 두께별 Spacer 보정으로 인한 Pass Line 변동 없음
  No change in the pass line with spacer calibration for each thickness after regrinding
- 빠른 납기 대응 (도면 승인 후 21일 납품 대응)
  Timely delivery (delivery in 21 days after drawing approval)

Notching Mold

· 이차전지 양극과 음극 박판필름에 Tab 형상을 타발하는 금형 컷팅부의 Punch와 Die의 Clearance가2~3㎛로 설계와 가공, 조립에 정밀공차가 요구됨
The punch and die clearance of a mold cutting part that punches a TAB form on the positive and negative electrode thin plate film of a secondary battery is 2~3㎛, which requires precision tolerance for design, machining, and assembly.

· Die & Punch의 타발시 발생하는 항절력을 감소시키고, 내마모성을 향상시키기 위해 극미세 분말 초경합금 사용
Ultrafine powder sintered carbide is used to reduce transverse rupture strength generated during die & punch and to improve abrasion resistance.



모바일 금형
Mobile Mold

크기 Size	426 X 383 X 158(H)
무게 Weight	70Kg
Press Stroke	20mm
금형재질 Molding material	AL 外 AL Foreign Parts
Punch & Die 재질 Punch & Die Material	초경(UF10에 준한소재) Hard Metal(Material Equivalent to UF10)
Cavity	1~2 Cavity



자동차 금형
A Car Mold

크기 Size	384 X 493 X 190(H)
무게 Weight	110~120Kg
Press Stroke	20mm
금형재질 Molding material	AL 外 AL Foreign Parts
Punch & Die 재질 Punch & Die Material	초경(UF10에 준한소재) Hard Metal(Material Equivalent to UF10)
Cavity	1~2Cavity

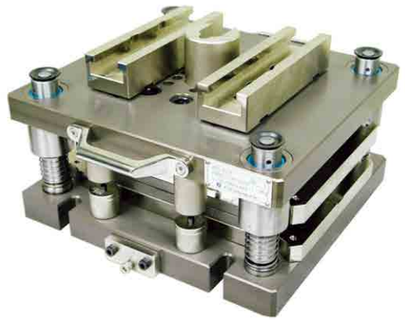
자동차 금형
A Car Mold

크기 Size	577 X 574 X 175(H)
무게 Weight	167~175Kg
Press Stroke	40mm
금형재질 Molding material	AL 外 AL Foreign Parts
Punch & Die 재질 Punch & Die Material	초경(UF10에 준한소재) Hard Metal(Material Equivalent to UF10)
Cavity	1~2 Cavity

Forming Mold

· 이차전지의 Aluminium Pouch를 컵형상으로 Drawing시켜주는 금형 평균두께 113㎛의 Aluminium Pouch를 균일한 압력으로 Punch에 전달하여야 하는 정밀도가 요구됨
The mold that draws an aluminum pouch of a secondary battery in a cup shape requires precision to deliver the aluminum pouch with average thickness of 113㎛ to the punch with uniform pressure

· Pouch Forming시 백화현상 및 주름현상이 발생하지 않도록 동기 구동식 스트리퍼 사용
When forming a pouch, a synchronous-driven stripper is used to prevent white rust and wrinkles from occurring



크기 Size	350 X 380 X 265(H)
무게 Weight	90Kg 이하 90Kg Less Than
Press Stroke	5.0~6.0mm
금형재질 Molding material	AL 外 AL Foreign Parts
Punch & Die 재질 Punch & Die Material	SKD-11
Cavity	1~2Cavity (2Cavity)

Blanking Mold

· 이차전지 양극 및 음극 Bi-Cell을 타발하는 금형 전극의 Coating부 타발시 활물질의 탈리가 발생하지 않고, Burr 발생을 최소화 할 수 있는 정밀금형
When punching positive and negative bi-cells of secondary battery precision, the precision mold minimizes burr when punching the coated part of mold electrode and does not detach active materials

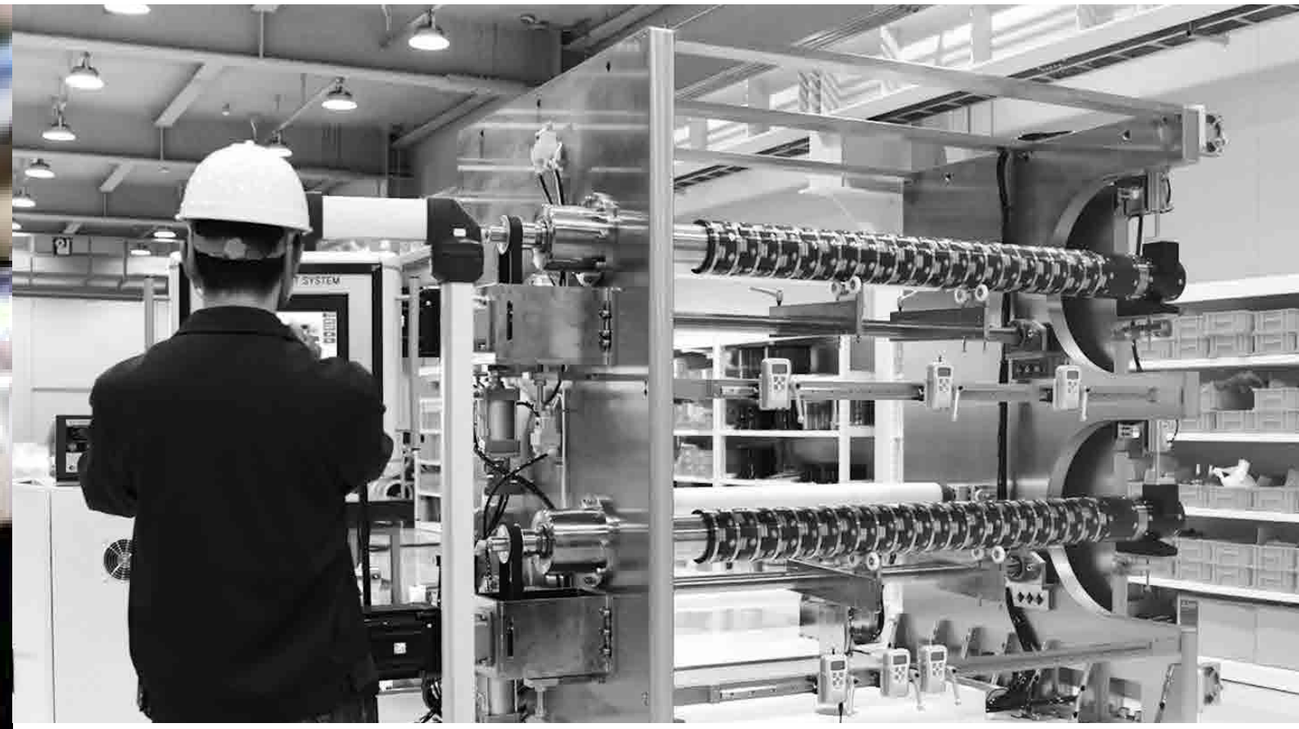


크기 Size	350 X 380 X 265(H)
무게 Weight	90Kg 이하 90Kg Less Than
Press Stroke	5.0~6.0mm
금형재질 Molding material	AL 外 AL Foreign Parts
Punch & Die 재질 Punch & Die Material	SKD-11



02
정밀기계부품
Precision Machine Parts

- Friction Shaft
- Knife Unit
- Notching Press Unit
- Lami-Cutter Unit



특장점 Special Features

- 이차전지 생산에 필요한 Unit 및 기구류, 부품류를 고객의 요구에 맞추어 설계에서 가공, 조립하여 제공
  Units, equipment, and components necessary for secondary battery production are systematically machined and assembled according to customer requirements
- 외산설비에 대한 국산화 및 공정 개선을 통해 축적된 노하우를 바탕으로 기술혁신과 생산혁신을 이루었습니다.
  Yujin Technology achieved technology and production innovation based on years of expertise through localization of foreign equipment and process improvement

Friction Shaft : 3inch Friction Shaft

- 이차전지 Slitting 공정에서 전극 Roll을 감아주는 설비
  Equipment to wind electrode roll in the secondary battery slitting process
- 기존의 Friction Shaft 사이에 Ball Roller가 삽입된 Bearing Housing을 부착하여 고중량의 전극 Core의 Sliding이 용이하며, 작업자의 탈부착 시간 단축이 가능
  Sliding of heavy electrode core is easy by attaching a bearing housing with a ball roller inserted between the existing friction shafts, and enables shortening of detachment time
- 4,000R.P.M에서 각 부품 간의 Air Leak가 없어야 하는 정밀 가공 및 조립 기술 요구됨
  4,000R.P.M requires precision machining and assembly technology that ensure no air leakage between parts

- Peek Ball Type



- Ball Roller Type



- Ball Roller Type



Friction Shaft : 6inch Friction Shaft

- 고중량 원단이 감기는 권취 외경의 증가 변위에 따른 변위 장력이 일정하게 유지
  The displacement tension of the high-weight fabric according to the increased displacement of the odor external diameter is maintained constant
- 원단 코어 척에 전달되는 토크의 가변이 매우 정밀하며, 빠른 구동 특성을 가짐
  The variability in torque to the fabric core chuck is very precise and has fast drive properties
- 내부 마찰에 의해 발생하는 분진이 외부로 유출되지 않는 구조로 개선하여 내구성 증대
  Increase durability by improving the structure in which dust generated by internal friction does not leak to the outside.



Knife Unit

- 이차전지 양극재 및 음극재의 Roll을 Slitting하는 설비
  Equipment for slitting rolls of cathode and anode materials for secondary batteries
- Unwinding과 Rewinding시에 Slitting 속도는 100m/min, Burr는 10㎛ 이내로 요구되는 매우 정교한 설비
  Highly sophisticated equipment that requires slitting speed within 100m/min and burr within 10㎛ while unwinding and rewinding

Knife Unit

- Sus Vertical Type





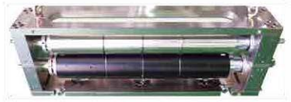
- Sus+Acetal Horizontal Type



- Sus Horizontal Type



- Acetal Horizontal Type



- Sleeve



Notching Press Unit

- 이차전지 Notching 공정에서 금형을 안착하여 타발하는 설비금형을 안착 고정하고 상하 Plate가 동시에 상하 동작되어 타발속도를 향상시킴
  Fixates equipment that fixates and punches a mold in a secondary battery notching process. It boosts punching speed by operating the upper/lower plates up and down concurrently
- 양산시 전극 이송속도를 800~1,000m/sec 상태로 전극 타발 평탄도 스팩 0.04mm 이내로 조정이 가능한 정밀설비
  Precision equipment capable of adjusting electrode transfer speed in mass production within 0.04mm of the electrode punch flatness specification at 800 -1,000m/sec



Lami-Cutter Unit

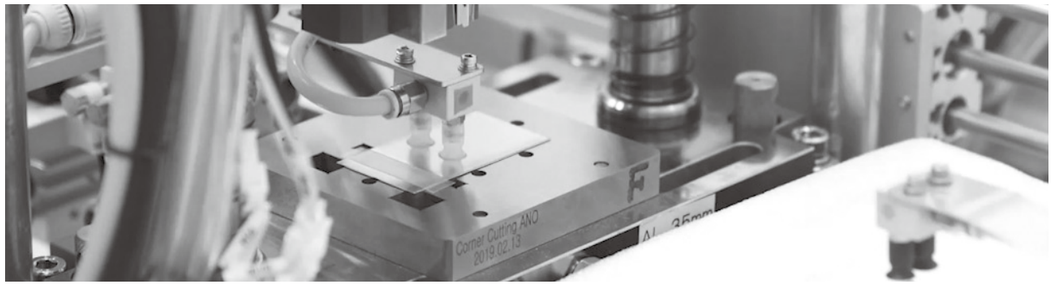
- 이차전지 Lamination 공정에서 양극과 음극 Cell을 절단하는 설비
  Equipment that cuts the anode and cathode cells in the secondary battery lamination process
- Cartridge Type의 Mold형 Cutter Upper & Lower Cutter가 Cartridge일체형으로 교체가 용이하고, 교체시간을 5분 이내로 단축할 수 있음
  Cartridge Type Mold Cutter Upper & Lower Cutter is easy to replace with integrated cartridge type, and replacement time can be shortened within 5 minutes.
- Regrinding의 범위를 최소화하여 유지관리 비용을 절감함
  Reduce maintenance cost by minimizing the range of regrinding.
- Cutter의 측압이나 엇썰기 방식이 아닌 Cutter의 Clearance로 Cutting 품질을 유지함
  Cutting quality is maintained by Cutter's Clearance, not by Cutter's lateral pressure or cross-cutting method.





03
자동화장비
Automated Equipment

- Degas Machine
- Forming Machine
- Siltter Machine
- Hi-speed Laser / Press Notching Machine
- Stacking Machine



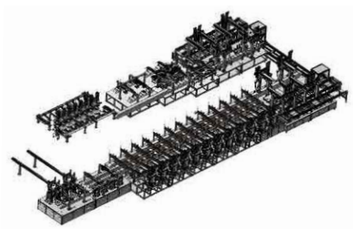
특장점 Special Features

- 이차전지 전공정 장비 공급 및 In-Line 시스템의 Total Solution 공급
  Supply of secondary battery pre-processing equipment and total solution of IN-LINE systems
- 외산설비에 대한 국산화 및 공정 개선을 통해 축적된 노하우를 바탕으로 기술혁신과 생산혁신
  Yujin Technology achieved technology and production innovation based on years of expertise through localization of foreign equipment and process improvement
- 국내 이차전지 제조사의 라인 운영에 필요한 자동화장비 제작 경험
  Experience in manufacturing automation equipment necessary for line operation of domestic secondary battery manufacturers
- 뛰어난 자동화 설계 기술로 제작 및 개발에 최적화 가능
  Optimizes production and development with superb automation design technology
- 다년간 외산 장비의 국산화 경험을 통하여 기술력 축적
  Accumulated years of technology expertise by localizing foreign equipment

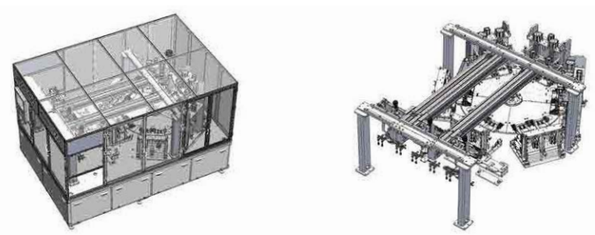
Degas Machine

- 충전된 Cell을 Chamber안에서 진공하여 Piercing한 후 Gas를 빼고 Sealing하는 설비 Degassing후 Final Cutting한다.
  After vacuuming and piercing a charged cell in the chamber, remove gas and seal the equipment, degas and proceed with final cutting
- 장비 공정 : 1. Cell 투입 ▶ 2. 두께 측정 ▶ 3. Final Cutting ▶ 4. Cell 배출
  Equipment Process: 1. Cell Input ▶ 2.Thickness Measurement ▶ 3. Final Cutting ▶ 4. Cell Output

- Medium and Large Degas Line



- Small Degas Line

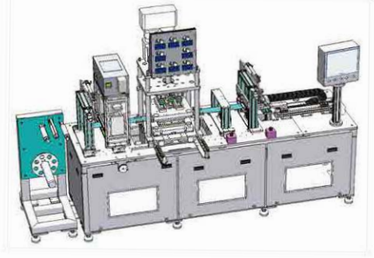


Forming Machine

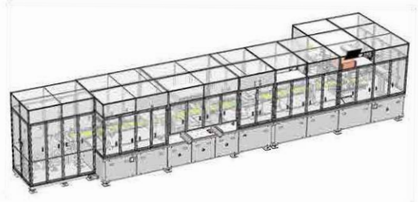
· Aluminum Pouch를 성형하여 Sheet Pouch를 Cell Ass'y Machine으로 공급하는 설비
Equipment that forms an Aluminum Pouch and supplies Sheet Pouch to Cell Ass'y Machine

· 장비 공정 : 1. Pouch Roll 공급 ▶ 2. Forming ▶ 3. Vision 검사 ▶ 4. Pouch Cutting ▶ 5. Pouch 공급
Equipment Process: 1. Pouch Roll Supply ▶ 2. Forming ▶ 3. Vision Inspection ▶ 4. Pouch Cutting ▶ 5. Pouch Supply

· Small Forming Line



· Medium and Large Forming Line



Siltter Machine

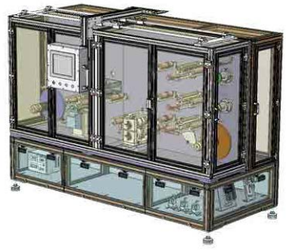
· 원단 투입 후 정해진 Size로 Siltter하는 장비
Equipment to slitter in a fixed size after fabric input

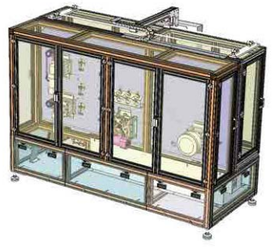
· 최대 100m/min 속도에서 2~8Kgf
2 to 8 kgf at speeds up to 100 m/min

· 슬리팅시 Burr은 10Micron
Burr is 10micron upon slitting

· 코팅인 안된 무지부 슬리팅에도 적합함
Suitable for slitting non-coated parts

· 장비 공정 : 1. 원단 Roll투입 ▶ 2. 텐션부 진입 ▶ 3. Siltter ▶ 4. 각 텐션 부진입 ▶ 5. 각 Roll 진입
Equipment Process: 1. Fabric Roll Input ▶ 2. Enter the Tension Part ▶ 3. Siltter ▶ 4. Enter Each Tension Part ▶ 5. Enter Each Roll

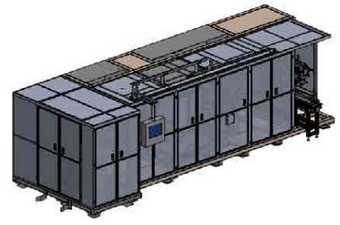




장비 크기 Equipment Size	2400×1000×2000
사용목적 Purpose of Use	전극 Slitting Purpose of Use

Hi-speed Laser / Press Notching Machine

Roll 형상으로 Winding된 전극을 Laser로 Tab & V홈 형성 후 Vision System으로 Notching 품질 상태를 검사 및 불량 제품에 Marking한 후 함께 Rewinding하는 방식이며 Reel Cut Stacking 설비와 함께 사용
By roll shape winded electrode is pressed by mold with tap & V shape. Quality checking is proceeded by vision system. Inspection and NG electrode by marked then rewind the rolls to the next process(Reel cut stacking)



사 양
Specification

1. 음극 선 속도 1000mm/sec : Laser Type
Anode MC speed: 1000mm/sec : Laser Type
2. Fume 제거 장치 차별화
Fume deleting device configuration(MC differentiation)
3. Vision 처리 속도 대응력
Vision checking speed responsiveness

Reel Cut Stacking Machine

1. Production Scope

Material	Width(mm)	Max. Outer diameter of material
(+)electrode	300~610	ϕ800
(+)electrode	300~610	ϕ800
Separator	280~630	ϕ400
End tape	10~30	ϕ200

2. Equipment Specification

No	Item	Specification
1	Tact time (sec)	0.6
2	Pulling Time (sec)	7
3	Yield	
4	Operation ratio	≥ 98%
5	Yield rate	≥ 95%
6	Noise	≤ 80db

Magazine Stacking Macine

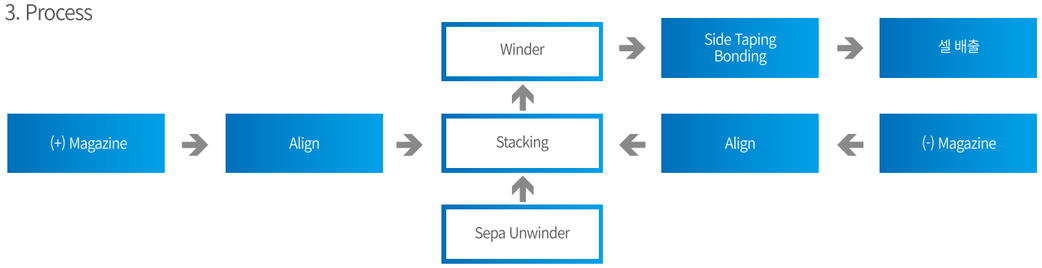
1. Production Scope

No	Item	Time (sec)	PPM	비고
1	Stacking time (1sheet)	0.6/sec		
2	Pulling time	10		

2. Equipment Specification

No	X(Width)	Y(Length)	PPM	Remark
Max	120	600	18	Tab (not including)
Min	70	500	1	

3. Process





04
리드탭
Lead Tab

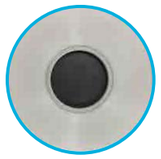
- Degas Machine
- Product Introduce
- Manufacturing Facilities



특장점 Special Features

- 혁신적인 표면처리 및 도금 기술로 필림 부착력을 부가시키고, 자체 개발한 생산설비를 통해 다양한 사양의 제품 제조
  Promotes film adhesion strength with innovative surface treatment and plating technology, thereby manufacturing products with various specifications through production equipment developed in-house
- Edge부 가공으로 가장자리에 필름과의 강한 접착력을 유지시키므로서 전해액의 누액을 방지할 수 있음
  Prevents electrolyte leakage by processing edges to maintain strong adhesion to the film
- 메탈과 필름의 부착력을 증대할 수 있는 도금 및 표면처리 장비를 개발하여 기존의 전해도금과 Non-Chromate 처리를 일렬화 하여 생산성을 크게 향상시켰으며, 표면처리용 스퀴저를 사용하여 전극단자의 표면에 묻은 각종 이물질을 효과적으로 제거할 수 있음
  Acidity is greatly improved by serializing the existing electrolytic plating and non-chromate treatment through plating and surface treatment equipment development capable of increasing adhesion strength of metal and film. Various foreign substances from the surface of the electrode terminal can be removed effectively using a surface treatment squeezer
- 고객의 다양한 요구사항인 부분도금 및 R-Cutting, Punching 등이 가능합니다
  Our technology is capable of handing various customer requirements, e.g. Partial plating, R-Cutting, and Punching
- 파우치 타입 리튬이온 이차전지의 음극, 양극을 연결하는 전극단자
  Electrode terminal connecting negative and positive electrodes of a pouch-type lithium-ion secondary battery
- 내식성과 용접성, 굽힘성, 파우치와의 접합력, 낮은 전기저항 등 많은 물성치를 만족함
  Satisfies a large number of properties, e.g. corrosion resistance, weldability, bendability, adhesion to pouch, and low electrical resistance
- 다양한 사양의 고품질 리드탭을 제공
  Provides high-end lead taps of various specifications

Material

양극 (Cathode)	음극 (Anode)	Sealant Film
		
AL : Aluminium NA : Electroless Nickel Plated Aluminium	NI : Nickel NC : Electro Nickel Plated Copper	CPP : Casting Poly Propylene ※ 자사 도금 및 표면처리 In-house plating and surface treatment

Manufacturing Facilities



Edge 가공설비
Edge Processing Equipment



전해 Ni도금 및 표면처리설비
Electrolytic Ni Plating and Surface Treatment Facility



표면처리설비
Surface Treatment Facility



Tab Ass'y 설비
Tab Ass'y Equipment



R-Cutting 및 Punching 설비
R-Cutting and Punching Equipment



무전해 Ni도금 설비
Electroless Ni Plating Facility

※ 설계에서 제작, Setup까지 자체 기술력 보유
Own Technology From Design to Production and Setup

Product Introduce


AL / NI
0.1T×4W (F 4W)


AL / NI
0.1T×7W (F 8W)

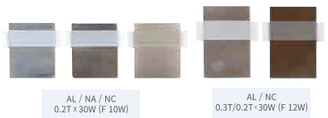

AL / NC
0.1T×10W (F 8W)


AL / NC
0.2T×14W (F 12W)
NA / NC
0.2T×15W (F 8W)
AL / NC
0.2T×15W (F 8W)

◀ Small Lead Tab

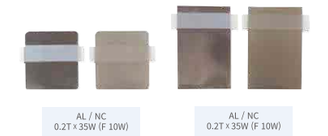
	양극 Anode	음극 Cathode
폭 Width	1~10mm	
두께 Thickness	0.08~0.2mm	
소재 Material	AL	NI


AL / NC
0.4T×22.5W (F 10W)
AL / NC
0.4T×22.5W (F 10W)
AL / NC
0.2T×25W (F 7W)


AL / NA / NC
0.2T×30W (F 10W)
AL / NC
0.3T/0.2T×30W (F 12W)

Medium Lead Tab ▶

	양극 Anode	음극 Cathode
폭 Width	11~30mm	
두께 Thickness	0.1~0.3mm	
소재 Material	AL	NC

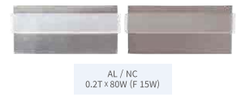

AL / NC
0.2T×35W (F 10W)
AL / NC
0.2T×35W (F 10W)


AL / NC
0.5T×180W (F 5W)

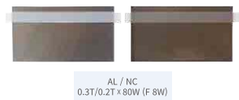

AL / NC
0.8/0.4T×200W (F 10W)

◀ Extra Large Lead Tab

	양극 Anode	음극 Cathode
폭 Width	100mm More Than	
두께 Thickness	0.1~0.8mm	
소재 Material	AL	NC


AL / NC
0.2T×80W (F 15W)


NA / NC
0.3T×80W (F 10W)


AL / NC
0.3T/0.2T×80W (F 8W)


CM
0.3T×45W (F 10W)
CM
0.3T×60W (F 12W)


CM
0.3T×60W (F 12W)
CM
0.3T×80W (F 14W)

◀ Clad Tab

	양극 Anode	음극 Cathode
폭 Width	30~80mm	
두께 Thickness	0.2~0.4mm	
소재 Material	AL + NC	

▲ Large Lead Tab

	양극 Anode	음극 Cathode
폭 Width	31~100mm	
두께 Thickness	0.1~0.5mm	
소재 Material	AL	NC

지식재산권 Intellectual Property Rights

· 특허증 & 디자인등록증
Patent & Design Registration Certificate



10-1029821
이차전지용 양극단자의 제조방법
For Secondary Battery of the Bipolar Terminal Manufacturing Method



10-1068560
전극단자 및 전극단자 제조방법
Electrode Terminal and Electrode Terminal Manufacturing Method



10-1174456
에어 샤프트
Air Shaft



10-1471980
보상 유닛을 갖는 프레스기
Having a Reward Unit Press Machine



10-1587554
이차전지용 파우치 성형장치 및 성형방법
Pouch for Secondary Battery Molding Device and Molding Method



10-1613426
이차전지 전극단자용 표면처리 장치
Surface Treatment Device for Secondary Battery Electrode Terminals



10-1613428
이차전지 전극단자용 표면처리 장치의 스퀴저
Of the Surface Treatment Device for Secondary Battery Electrode Terminals Squeezer



10-1626576
챔버형 잉크공급장치를 구비한 하이브리드 코팅장치
Hybrid Coating Device with Chamber Type Ink Supply Device



10-1639721
폴리머 이차전지 제작용 파우치 레이어 코팅장치
Pouch Layer Coating Device for Manufacturing Polymer Secondary Battery



10-1940985
이차전지용 전극 가압용 리와인더 터치 롤 유닛
Rewinder Touch Roll Unit for Pressurizing Electrodes for Secondary Batteries



10-1962779
이차전지 전극 제조용 프레스 롤 세정장치
Press Roll Cleaning Device for Manufacturing Secondary Battery Electrode



10-1968906
이차전지용 리드탭 모서리 가공장치
Lead Tap Edge Processing Device for Secondary Battery



10-1987236
클래드메탈을 이용한 이차전지용전극단자의제조방법
Method for Manufacturing Electrode Terminals for Secondary Batteries Using Clad Metal



10-2059581
탭 걸림방지구를 가지는 이차전지용 노칭금형
Notching Mold for Secondary Battery with Tab Locking Hole



10-2156432
이차전지의 전극필름 권취용 프릭션 샤프트
Friction Shaft for Winding Electrode Film of Secondary Battery



10-2189942
개선된 펀치 취부구조를 가지는 이차전지용 노칭금형
Notching Mold for Secondary Battery with Improved Punch Mounting Structure



10-2278111
이차전지의 전극필름 권취용 프릭션 샤프트
For winding electrode film of secondary battery friction shaft



10-2347948
슬리팅 장치용 나이프 유닛
Knife unit for slitting device



10-2347947
슬리팅 장치용 프릭션 샤프트
Friction shaft for slitting equipment



10-2469560
이차전지 전극 커팅장치
Secondary battery electrode cutting device



10-2475580
이차전지의 전극 가공용 노칭금형
electrode of secondary battery Notching mold for processing



10-2475580
이차전지의 전극 가공용 노칭금형
electrode of secondary battery Notching mold for processing



10-2492313
이차전지 전극 가공용 노칭금형
Partial replacement available Notching mold for secondary battery electrode processing



10-2475580
이차전지용 전극 커팅장치
Module-Type Electrode Cutting Device for Secondary Batteries



10-2492313
스크랩 상승을 방지하는 이차전지 전극 가공용 노칭금형
Notching mold for secondary battery processing to decorate scrap



30-0890656
에어 프릭션 샤프트용 볼롤러- 센터
Ball Roller for Air Friction Shaft-Center



30-0890658
에어 프릭션 샤프트용 볼롤러- 엣지
Ball Roller for Air Friction Shaft-Edge



30-1103515
이차전지의 전극 커팅용 전극 가이드
Electrode Guide for Electrode Cutting on Secondary Battery



30-1103485
이차전지의 전극 커팅용 커터 카트리지_1
Cutter Cartridge for Electrode Cutting on Secondary Battery_1



30-1103516
이차전지의 전극 커팅용 커터 카트리지_2
Cutter Cartridge for Electrode Cutting on Secondary Battery_2



30-1103518
이차전지의 전극 커팅용 커터 카트리지_3
Cutter Cartridge for Electrode Cutting on Secondary Battery_3



30-1103521
이차전지의 전극 커팅용 커터 카트리지_4
Cutter Cartridge for Electrode Cutting on Secondary Battery_4



30-1103526
이차전지의 전극 커팅용 커터 카트리지_5
Cutter Cartridge for Electrode Cutting on Secondary Battery_5



30-1155557
에어 프릭션 샤프트용 죠 하우징
Air Friction Jaw Housing For Shaft



30-1155563
에어 프릭션 샤프트용 죠 하우징
Air Friction Jaw Housing For Shaft



30-1155564
에어 프릭션 샤프트용 죠 하우징
Air Friction Jaw Housing For Shaft

인증서
Certification



중소벤처기업부
Small and Medium Venture Business Department

<글로벌 강소기업 지정서>
Global Small and Medium Business Designation



인한국산업기술진흥협회
Korea Industrial Technology Promotion Association

<기업부설연구소 인정>
Recognized as an Affiliated Research Institute



중소벤처기업부
Small and Medium Venture Business Department

<기술혁신형 중소기업(INNO-BIZ) 확인>
Confirmation of Technology Innovation Type Small and Medium-Sized Business (INNO-BIZ)



중소벤처기업부
Small and Medium Venture Business Department

<경영혁신형 중소기업 (MAIN-BIZ) 확인>
Confirmation of Management Innovation Small and Medium Business (MAIN-BIZ)



DAkkS

<ISO 9001:2015>



DAkkS

<ISO 14001:2015>



TUV

<IATF 16949>



산업통산자원부
Ministry of Trade, Industry and Energy

<소재부품전문기업 확인>
Material Parts Specialized Company Confirm



중소벤처기업부
Small and Medium Venture Business Department

<뿌리기술 전문기업 지정>
Root Technology Specialized Company Appointed



중소벤처기업부
Small and Medium Venture Business Department

<고성장(가젤형)기업 지정>
High-Growth (Gazelle) Company Appointed



중소벤처기업부
Small and Medium Venture Business Department

<인재육성형 중소기업 지정>
Human Resource Development Designated as a Small Business



특허청
Patent Office

<중소기업 지식재산 경영인증>
Small and Medium Business Intellectual Property Management Certification



글로벌경영인증원장
Director of Global Management Certification

<안전보건경영시스템인증서>
Occupational Safety and Health Management System



청주시장
Cheongju mayoral

<고용선도기업 인증서>
Employment Leading Company Certificate



여성가족부
Ministry of Gender Equality and Family

<가족친화인증서>
Family-friendly company certificate



충북도지사
Governor of Chungcheongbuk-do

<충북지역혁신선도기업선정서>
Chungbuk Regional Innovation Leading Company Selection Certificate

Inspection Instrument

Instrument	Photo	Model	MAKER	possession (quantity)
HEIGHT-GAUGE		LH-600E	Mitutoyo	1
3차원측정기 CMM		VICTOR 101208	덕인 Dukin	1
3차원측정기 CMM		ALTERA 7-5-5	NIKKON	1
형상측정기 Measuring Instrument		CV-2100	Mitutoyo	1

Current status of production facilities

Instrument	Photo	Model	MAKER	possession (quantity)
로크웰 경도기 Rockwell Hardness tester		SR-300	삼일정밀	1
현미경 Microscope		VHX-7000	마이크로스코프	1
Image 측정기 Vision checker		IM-8020	Keyence	1
Image 측정기 Vision checker		KMV-1020	KM Trading	1

Instrument	Photo	Model	MAKER	possession (quantity)
인장 시험기 UTM		AGS-X	SHIMADZU	1
시편 연마기 Slice Grinder		KDPI-330	케이디정밀	1

HQ Cheongju
YJ Tech Campus Hwaseong

Global Networks AMERICA POLAND
CHINA HUNGARY

Yujin Technology

[본사]
충청북도 청주시 흥덕구 2순환로 742번길 42 Tel. 043-237-1113 Fax. 043-237-3339
42, 2sunhwan-ro 742beon-gil, Heungdeok-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea

[YJ Tech Campus]
경기도 화성시 봉담읍 삼천병마로 1135 4F Tel. 031-306-0770
4F 1135, Samcheonbyeongma-ro, Bongdam-eup, Hwaseong-si, Gyeonggi-do,Republic of Korea