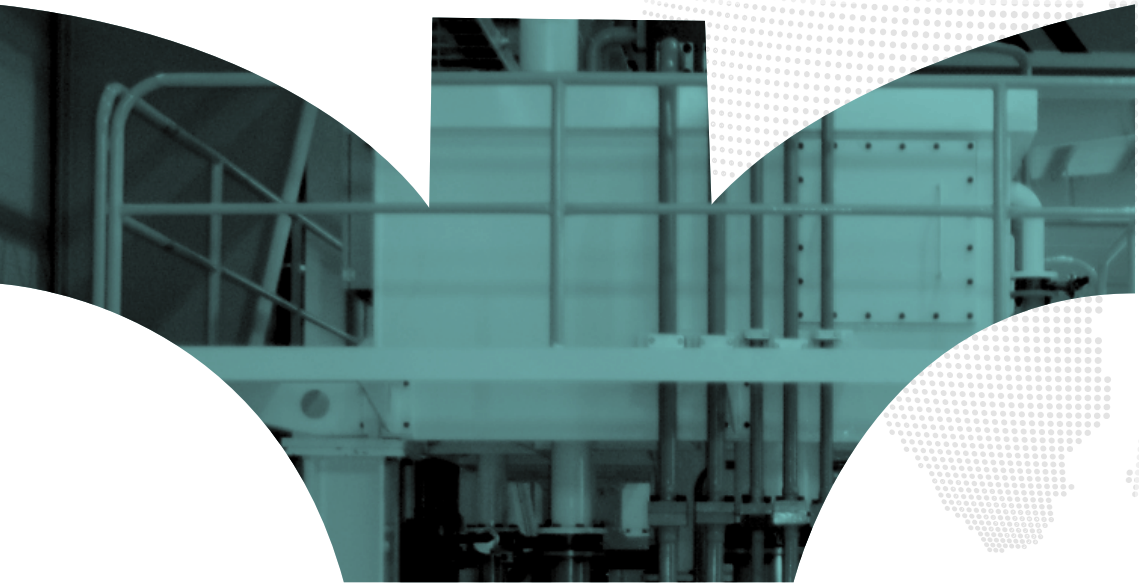
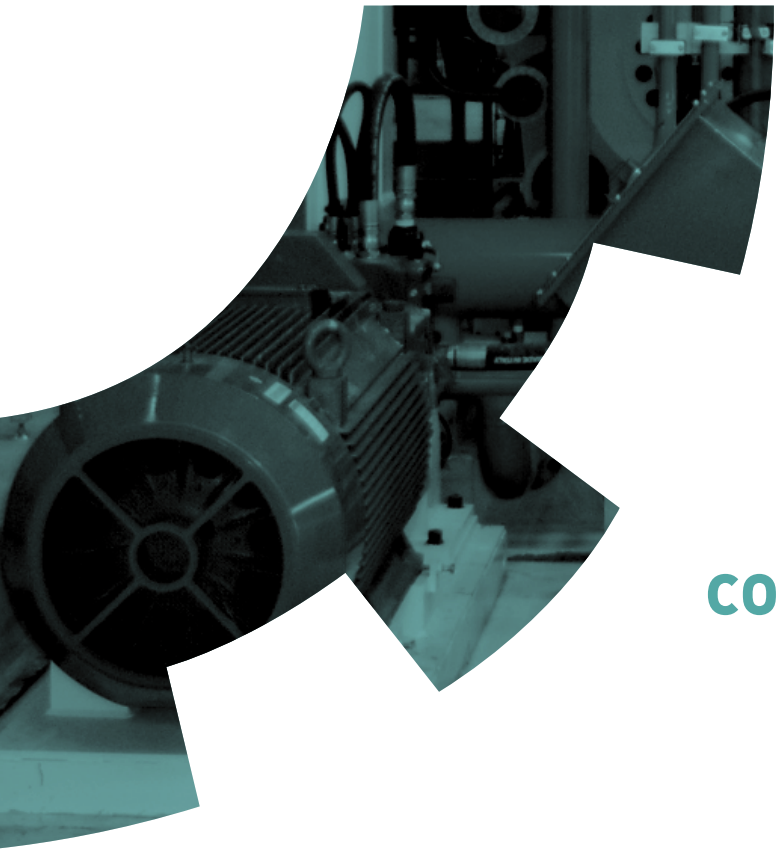
(주)선우엔지니어링
SUNWOO ENGINEERING CO.,LTD.

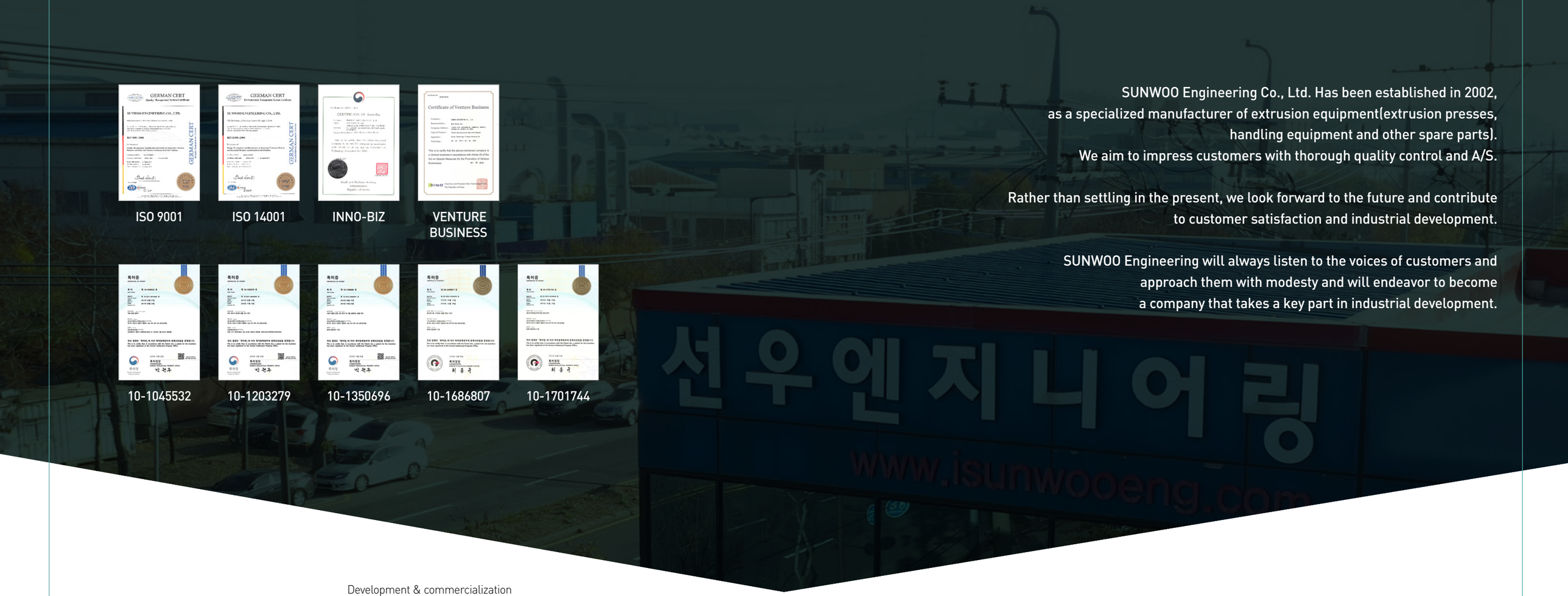


www.isunwooeng.com



Extrusion press company specializing in the world

Reliable thorough quality control and A/S
Researching & Developing new technologies constantly



SUNWOO Engineering Co., Ltd. Has been established in 2002,
as a specialized manufacturer of extrusion equipment(extrusion presses,
handling equipment and other spare parts).
We aim to impress customers with thorough quality control and A/S.

Rather than settling in the present, we look forward to the future and contribute
to customer satisfaction and industrial development.

SUNWOO Engineering will always listen to the voices of customers and
approach them with modesty and will endeavor to become
a company that takes a key part in industrial development.

ISO 9001

ISO 14001

INNO-BIZ

VENTURE BUSINESS

10-1045532

10-1203279

10-1350696

10-1686807

10-1701744

2002 — **January** — Incorporation of the company named (주)선우엔지니어링 SUNWOO ENGINEERING CO.,LTD.

2006 — **June** — ISO 9001/14001 Certifications

December — Accredited INNO-BIZ No. 6071-3274

2009 — **April** — Accreditation of venture business

September — Accreditation of R&D center

November — Development & commercialization of Short-stroke front loading extrusion press (The nation's first)

2010 — **June** — Development of a variable cross-section extrusion press (The nation's first)

2012 — **August** — Relocated a headquarters from Incheon to Ansan

2013 — **December** — An outstanding export performance award ($5 million)

2016 — **May** — Appointed as a partner company by KITECH

September — Appointed as a promising company by the IBK

December — Accreditation of a great root company to work for

2017 — **May** — Appointed as a specialized root-technology enterprise

July — Appointed as a specialized components and materials enterprise

2018 — **April** — Appointed as an excellent technology capability company by TCB

2020 — **Now** — Being developed for extrusion facility technology (9 patents)

SUNWOO Engineering realizes customer surprise by providing
a turn-key based system for customer's needs.

CONTENTS

01
Extrusion press
6p

02
Handling equipment
10p

03
Furnace & heater
12p

04
Other facilities
14p



- Short stroke front loading type
- Short stroke back loading type (movable stem)
- Indirect extrusion presses
- Tube extrusion presses (Double-acting type)
- Smart system extrusion presses



- Quenching system
- Puller(single, double, twin)
- Platen saw
- Run-out conveyor
- Cutting machine
- Stretcher
- Auto stacker



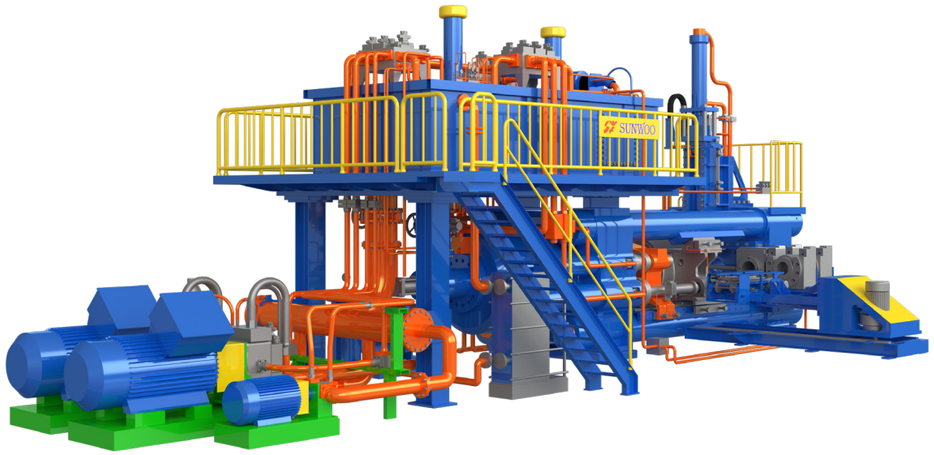
- Short billet heater(induction type)
- Dies oven
- Aging oven



- Draw bench
- PFC tube line
  - Cooling & dry booth
  - ECT & Marking system
  - Flying cutting machine
  - Roll straightening
  - Auto winder

Extrusion press

- Application of forged materials, sturdy structure of presses.
- Container 4 zones heating and cooling systems.
- Uniform heating system for isothermal operation(billet, dies, container)
- Vision sensor system for quality improvement
- Hydraulic drive systems in compact modular design
- Minimized Dead cycle time
- Energy-saving systems
- Smart systems with hybrid technology



Specification of Extrusion presses

Press Extrusion Force		Standard Billet Diameter		Billet Length	Specific Pressure
MN	UST	mm	Inch	mm	kgf/㎟
13	1,500	152	6	700	68.7
15	1,650	152	6	800	75.6
16	1,800	178	7	900	60.9
18	2,000	178	7	950	67.6
22	2,500	203	8	1,000	65
25	2,750	229	9	1,000	56.7
27	3,000	229	9	1,050	61.8
30	3,300	254	10	1,100	55.2
32	3,600	254	10	1,100	60.2
36	4,000	279	11	1,200	55.8
40	4,400	279	11	1,200	61.4
40	4,400	305	12	1,200	51.7
45	5,000	330	13	1,300	50.3
50	5,500	330	13	1,350	55.4
55	6,000	356	14	1,400	52.1
60	6,600	356	14	1,500	57.3
63	7,000	381	15	1,500	53
70	7,800	406	16	1,500	52.1
75	8,400	406	16	1,550	56.1
80	9,000	432	17	1,600	53.3
90	10,000	457	18	1,650	53
100	11,000	483	19	1,700	52.1

Extrusion presses by capacity



1,500 UST



2,000 UST



2,400 UST



2,750 UST



3,600 UST



4,500 UST

Extrusion equipment

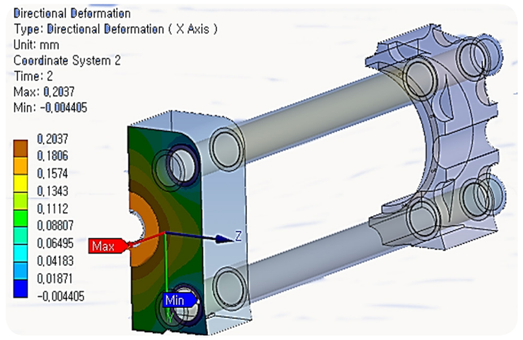
- Extrusion press(2,750 UST)

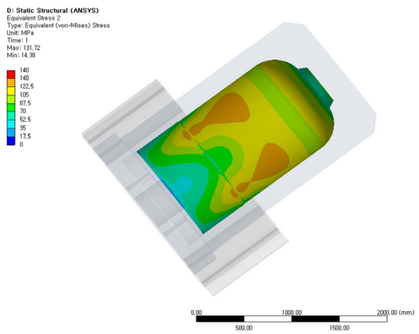


- Extrusion plant(Anseong, KOREA)



- A structural analysis





- Extrusion plant(Anseong, KOREA)



- Extrusion plant(Dubai, UAE)





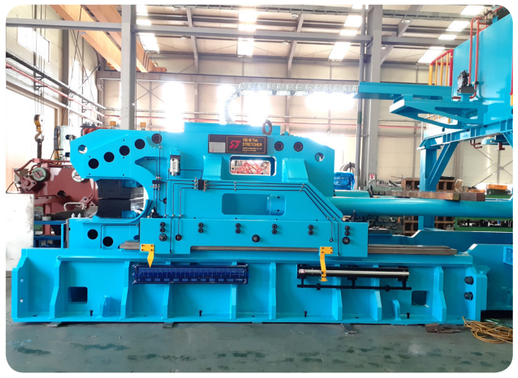
- Main operating panel



- Container & Dummy block



- 700 MTon Stretcher





Handling equipment

Handling equipment

The facilities that handle profiles or pipes produced by the extrusion press, contribute to productivity and quality.



Quenching Systom

Select among three methods, depending on the application.
- Standing wave type
- Mist
- Spray

Prevention of profile deformation through quenching



Puller

3 types(single, double, twin)

Immediacy	Return operation for minimum dead cycle
Connectivity	Maintain uniform tension and speed in relation to the press
Precision	Prevent damage to product quality



Platen saw

- Fast and accurate automatic cutting an extruded profile with an initial length using saw
- Minimization of scrap
- Horizontal / Vertical type



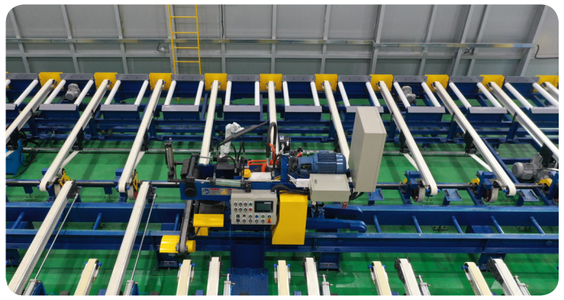
Conveyor & cooling table

- Installation of the cooling fans & Ensure sufficient cooling during the standby process.
- Device for conveying the cut profile & sending it to the next process



Stretcher

- Correction of torsion
- Correction for deformation caused by the extrusion process
- Remove the residual stress.
  * Select among three operation methods, no man, 1 man, 2 men
  * Control method by pressure
  * Control method by distance



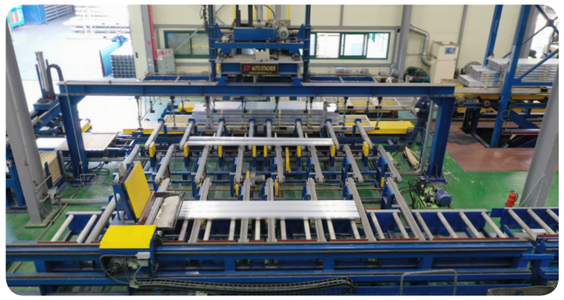
Final cutting machine

- Final cutting to the required length of the profile.
- Precise length cutting & maintenance of squareness angle
- Safety system
- A dust collector for scattering prevention of chip
- Cutting oil spray



Auto stacker

- Automatic loading and transporting for heat treatment or delivery of the final cut profiles.
- Fast and efficient operation



Furnace & heater

- Log billet heater & hot saw



- Log billet heater & hot shear



- Induction billet heater(low frequency)



- Dies oven

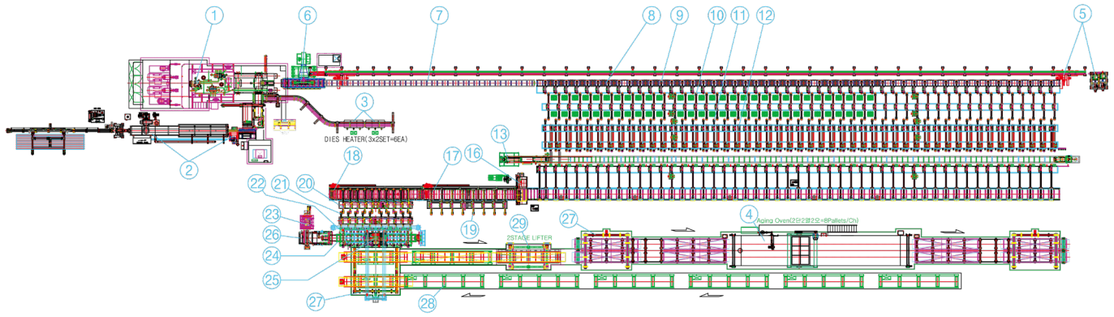


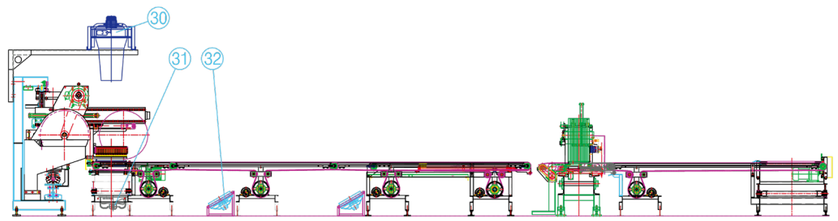
- Aging oven





Extrusion full line layout

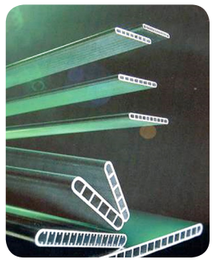




NO.	DESCRIPTION	NO.	DESCRIPTION
32	MAIN COOLING FANS	16	FINAL CUTTING TABLE
31	RUN-OUT UNDER COOLING FANS	15	SAW CHARGE TABLE
30	RUN-OUT OVER HEAD COOLING FANS	14	STORAGE CONVEYOR
29	3-STAGE LIFTER	13	STRETCHER
28	PALLET DRIVER ROLLER	12	TRANSFER DRIVE CONVEYOR
27	DIVENRTER CHAIN CONVEYOR	11	No.2 MAIN COOLING CONVEYOR
26	SPAER BAR SUPPLY	10	No.1 MAIN COOLING CONVEYOR
25	AUTOMATIC STACKER	9	TRANSFER CONVEYOR
24	SPAER BAR DISPOSITION	8	RUN-OUT TABLE
23	SPAER BAR LOADER	7	INITIAL TABLE
22	No.3 INSPECTION TABLE	6	QUENCHING
21	No.2 INSPECTION TABLE	5	DOUBLE PULLER
20	No.1 INSPECTION TABLE	4	AGING OVEN
19	INSPECTION TABLE	3	DIES HEATER
18	No.2 SAW GAUGE TABLE	2	LOG HEATER & HOT SAW
17	No.1 SAW GAUGE TABLE	1	EXTRUSION PRESS

PFC tube line

- PFC tube



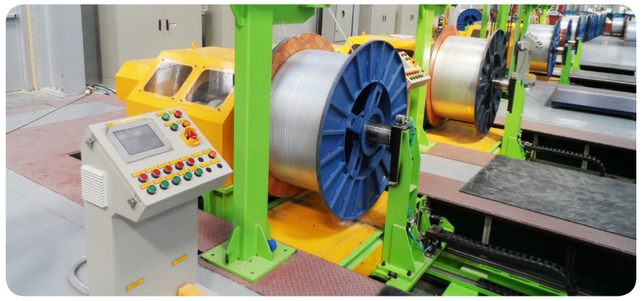
- DRY booth



- Eddy current tester & marking



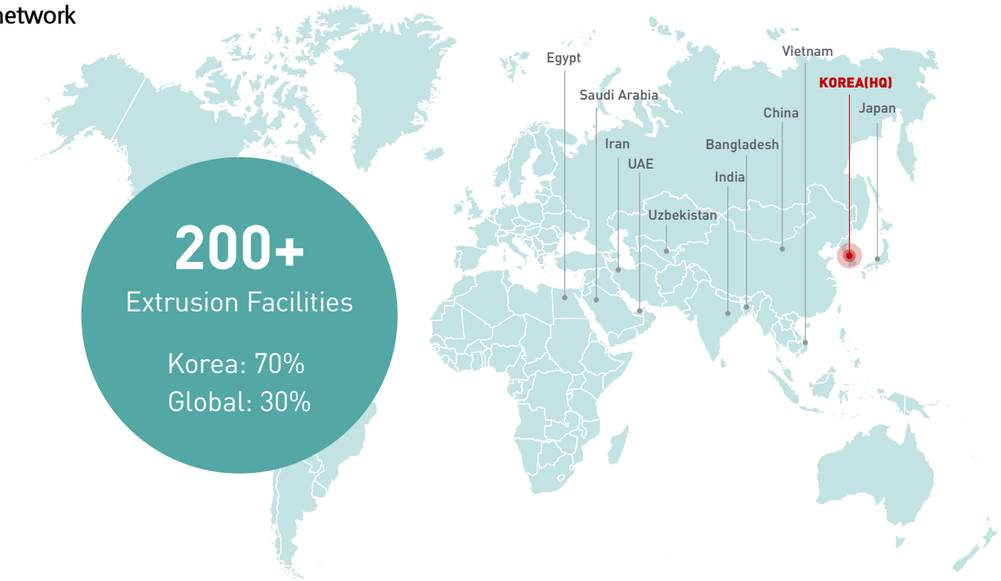
- Auto winder(horizontal type)



- Auto winder(vertical type)



- Global network



200+
Extrusion Facilities

Korea: 70%
Global: 30%

Makes a premium extrusion equipment

SUNWOO Extrusion press
Aluminium full line
Short stroke

| HQ and Factory |

15607 #250. Byeolmang-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea

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