

ETEK AUTOMATION SOLUTIONS JSC FABRICATION SOLUTION

Về chúng tôi

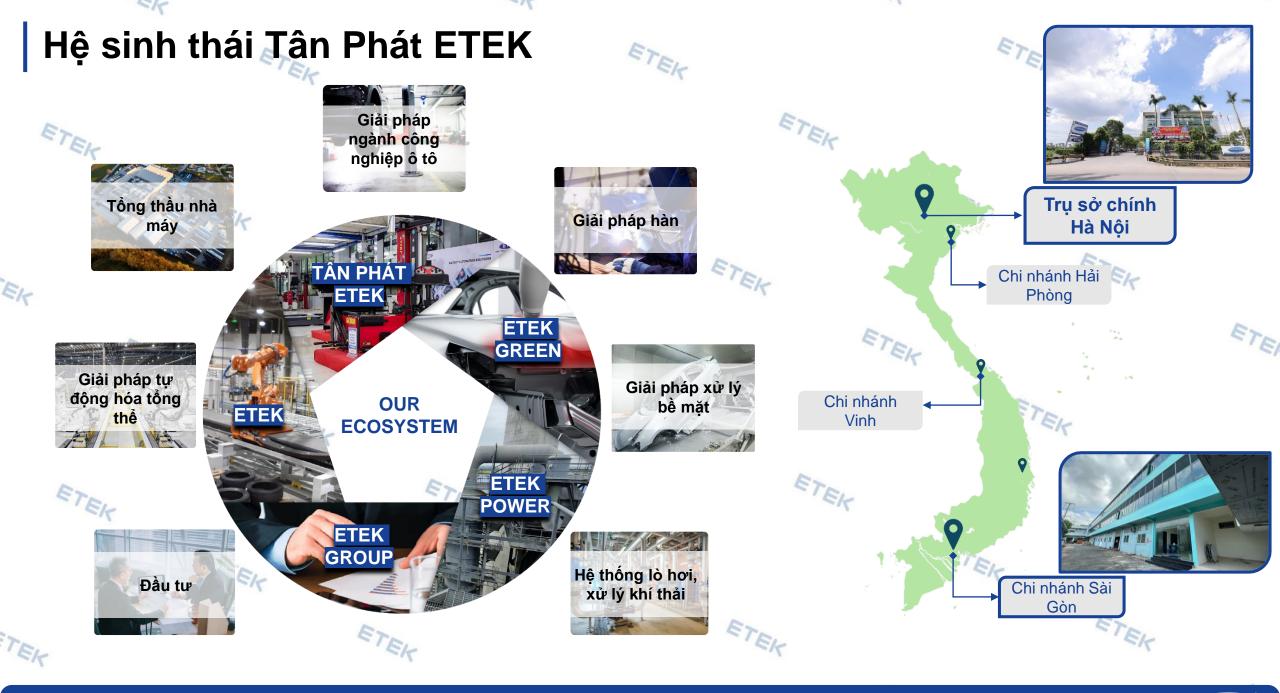
ETEK TOTAL AUTOMATION SOLUTIONS

CÔNG TY CỔ PHẦN GIẢI PHÁP TỰ ĐỘNG HÓA ETEK là thành viên của TÂN PHÁT ETEK. ETEK hiện là đơn vị tiên phong cung cấp Giải pháp Tự động hóa tổng thể tại Việt Nam

Tên công tyCông ty Cổ phần giải pháp Tự động hóa ETEKNăm thành lập2006CEONguyễn Trọng ThưởngChủ tịch HĐQT & FounderNguyễn Quốc ĐạtCông ty mẹTân Phát ETEK



ETEK – GO GLOBAL





Sản phẩm và giải pháp

Educatic aning Solu

ETS



- Lắp ráp
- Đóng gói
- Chế tao
- Ứng dụng Robot
- Nhà máy thông minh 5.
- Intralogistic 6.
- Thiết bị phụ trợ 7.

ETS – GIẢI PHÁP THIẾT BI ĐÀO TAO

- Thiết bị đào tạo cho Trường Đại 1. học, Cao đẳng và Trường nghề 2. Đào tạo và phát triển ứng dụng

LAS – GIẢI PHÁP TỰ ĐỘNG HÓA DÂN SINH

- Giải pháp Đỗ xe tự động (Ô tô, Creic 1. xe máy)
- 2. Sac Pin ô tô
- 3. Thiết bị nâng hạ
- Máy bán hàng tự động 4.









Factory

FAS

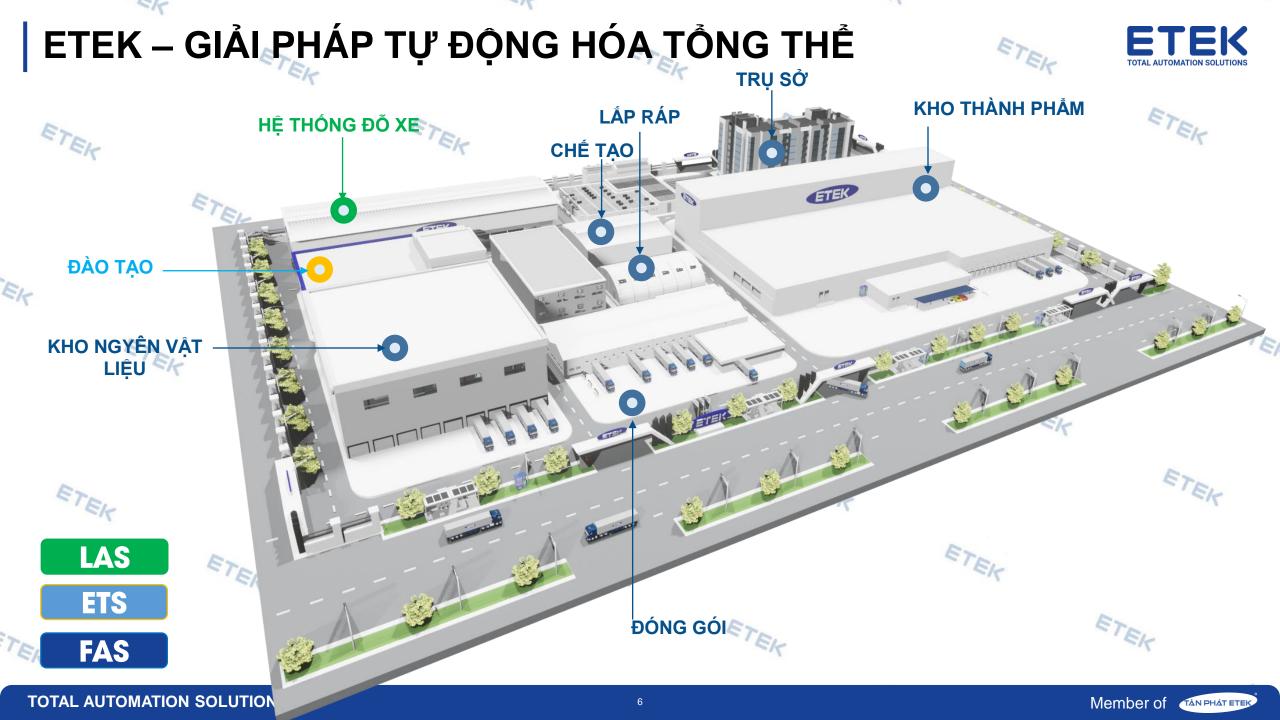
TOTAL AUTOMATION

SOLUTIONS

LAS

Life/Utilitie

nation Solution

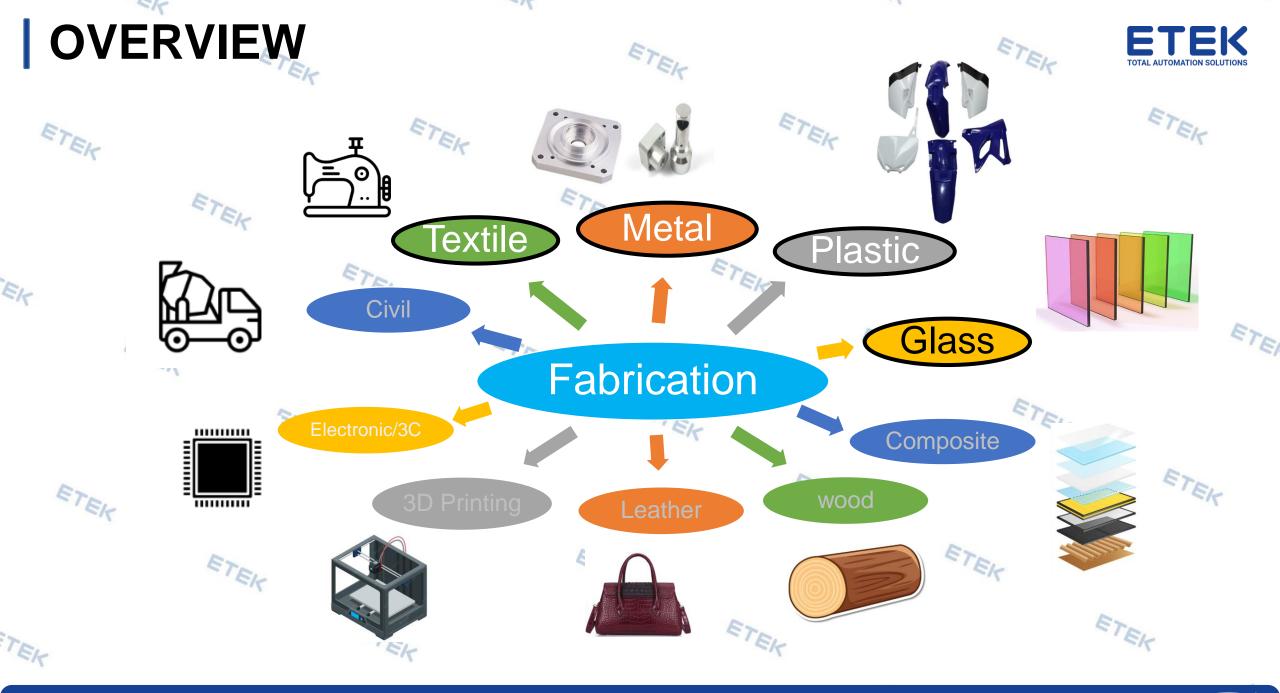


FABRICATION SOLUTION OVERVIEW





FABRICATION

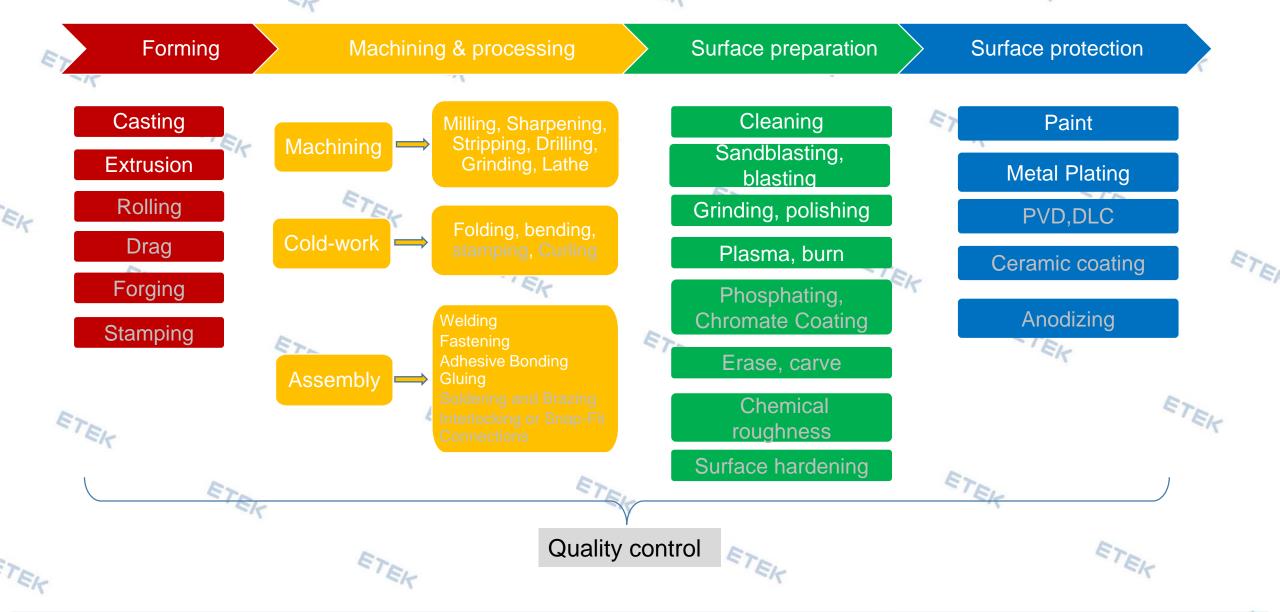


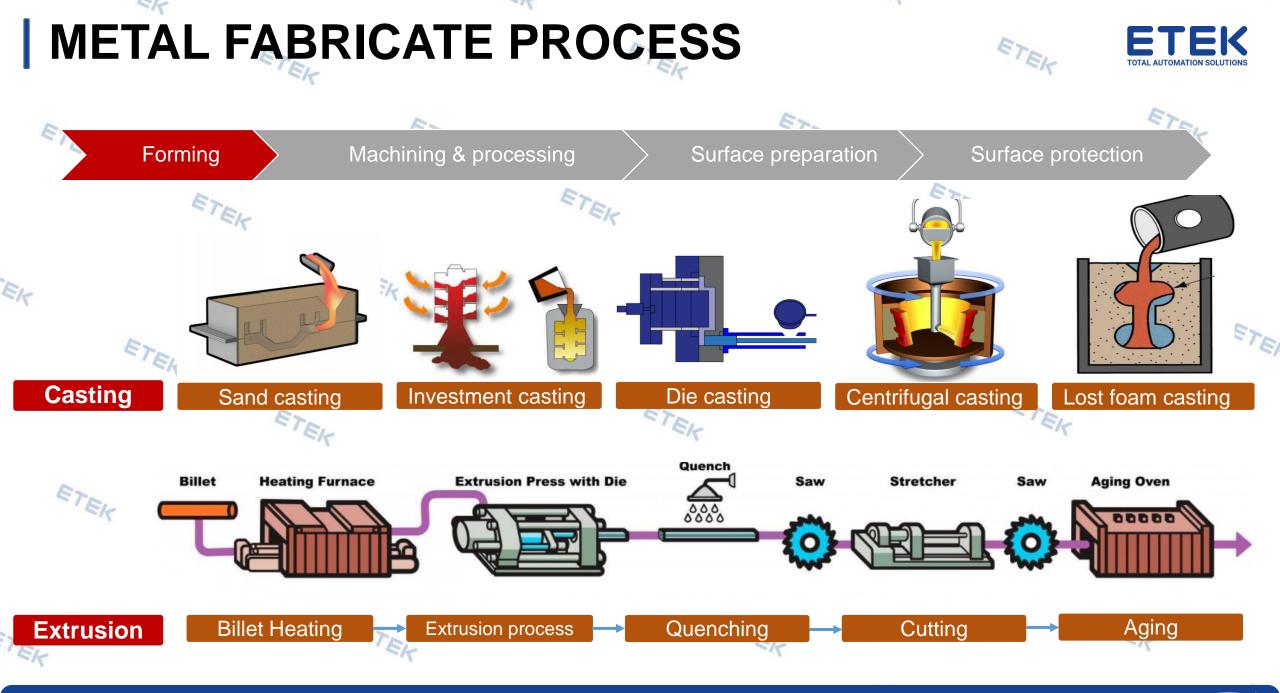
	OVE	RVIEW	ETEK		ETEK ETEK	K
L	Target ir	ndustrial		ETEK	ETEK	
	Industrial	Partner	Technology	Solution	Main Customer	
EK	Metal	CBUHLER AVIC SIGNA IIIII MARGINER BOLLHOFF YOUNGSAN StrikoWestofen® SIEMENS	Melting, Casting, Machining, Surface preparation, surface protection	Total Production factory, Auto Station, Fabrication Machine	KUDCERA ASSA ABLOY	
	Plastic		Injection molding, Extrusion, Foaming, machining, panting	Total production factory Automation station, Fabrication Machine	VINFAST	ETE
	Glass	JIS COGNEX	Vision check, Cleaning, polishing, machine handling,	Auto vision check Fully auto enclose cleaning hard dick	HOYA SAMSUNG	
TER	Textile	MiSUMi Schneider EPSON SIEMENS	Laser sewing and cutting machine, sewing machine, three thread sewing machine	Auto sewing machine, automatically puts the fixture into the sewing area	Alliance One Song Hong	



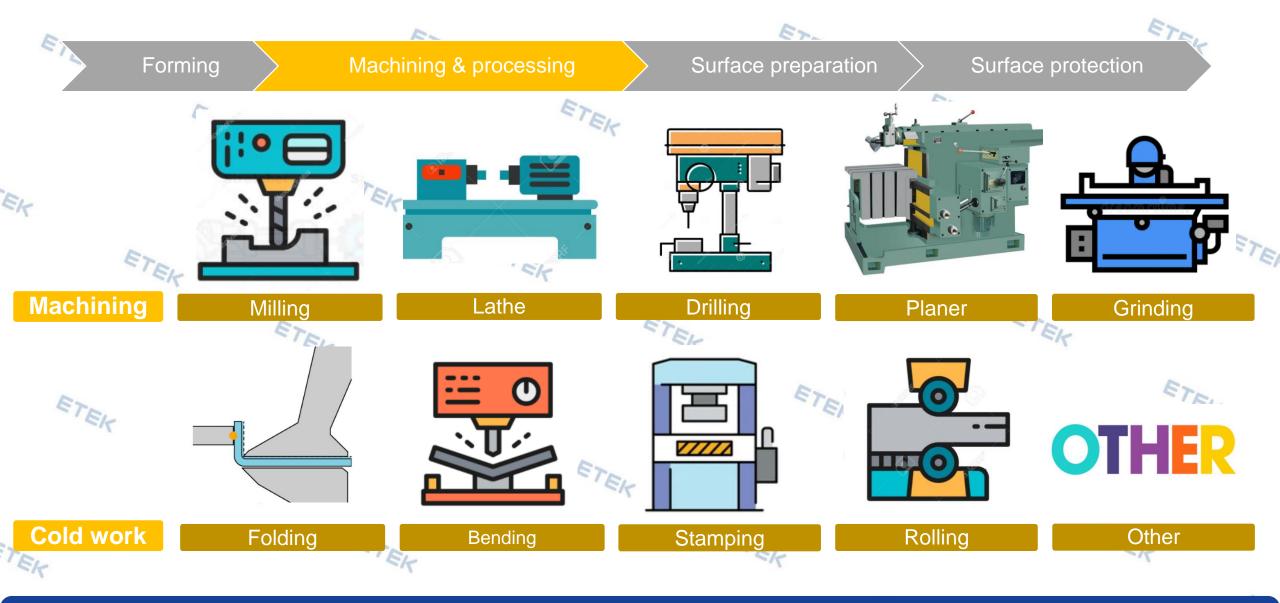
METAL FABRICATION





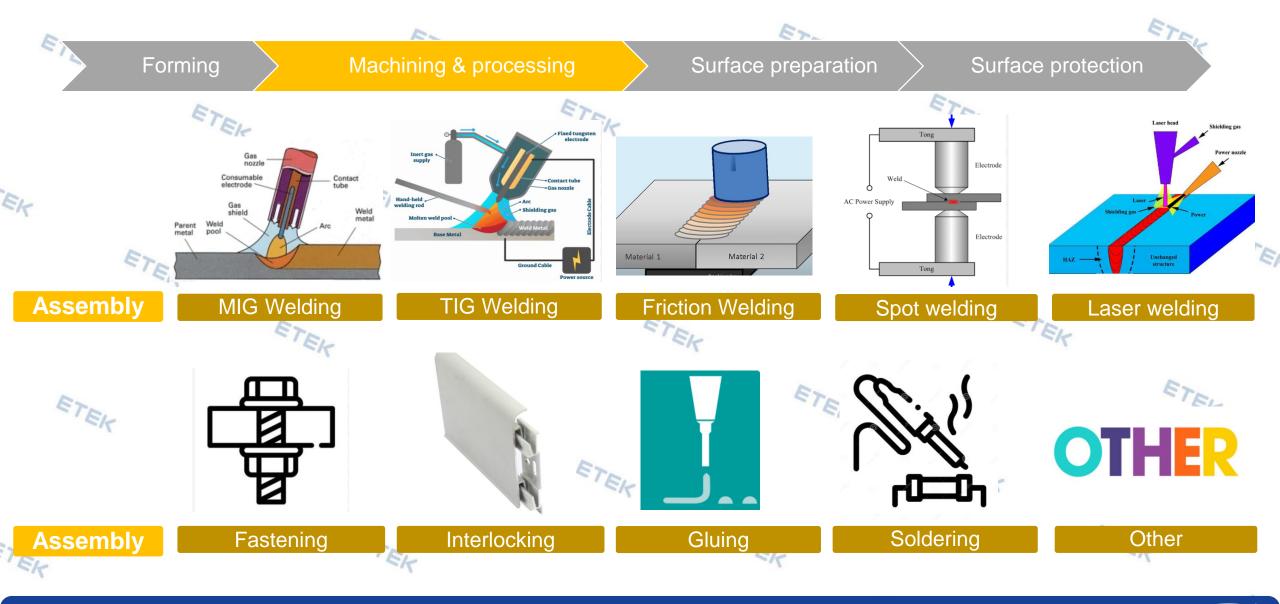




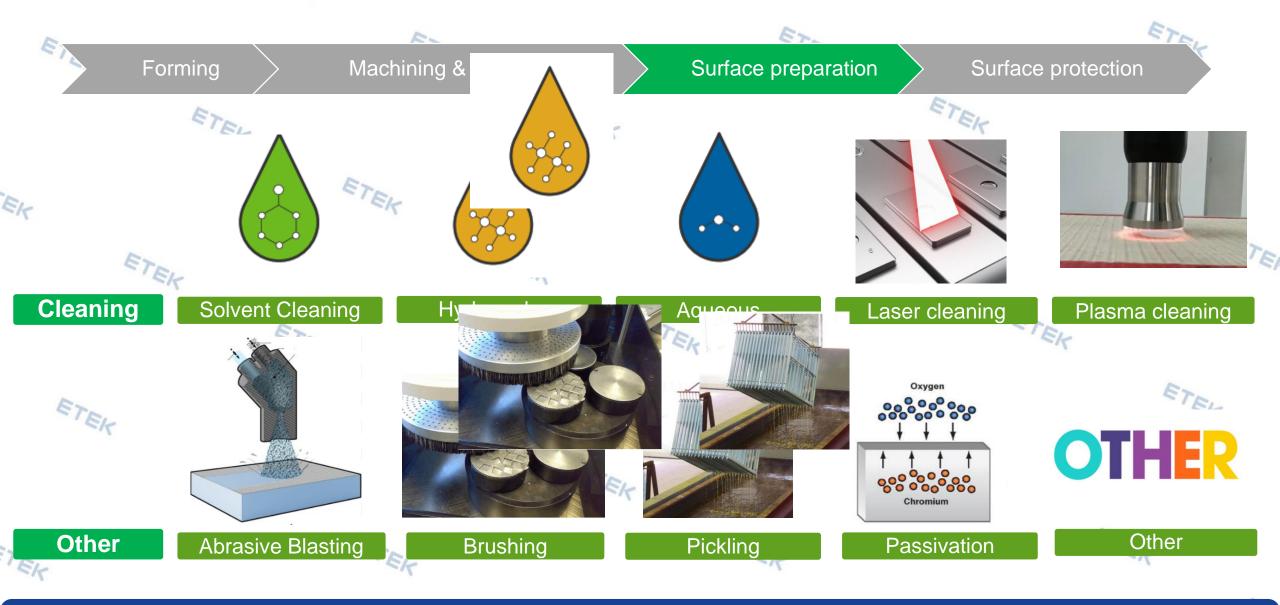


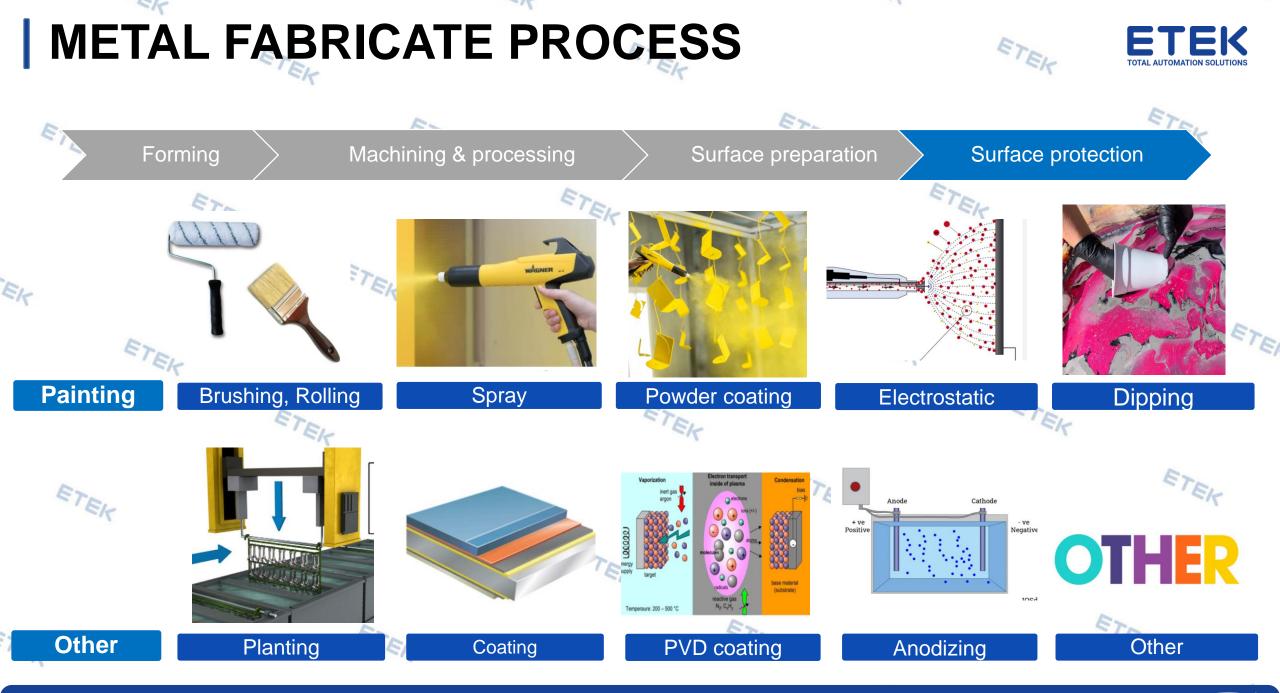
TOTAL AUTOMATION SOLUTIONS













TOTAL AUTOMATION SOLUTIONS

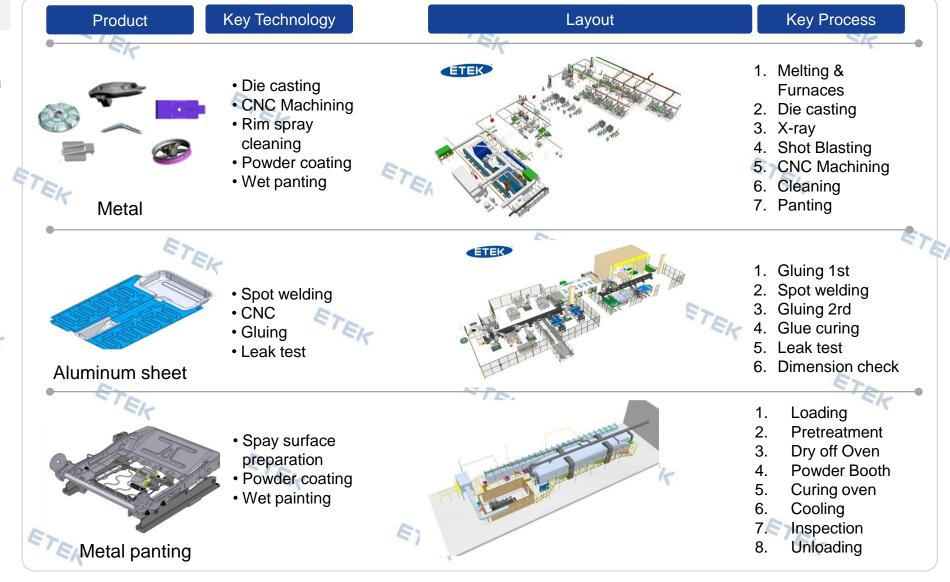
FABRICATION PRODUCTION LINE



Overview

Etek has implemented hundreds of projects related to manufacturing in metal and plastic details, including some typical projects like:

- Automotive Aluminum Parts Fabrication Factory,
- EV Battery Top Cover Fabrication Line,
- EV Battery Housing Fabrication Line,
- Powder Coating Automotive part,
- Automotive Plastic Parts Injection Molding Factory,
- Aluminum Extrusion Factory



MAJOR PROJECTS REFERENCES

-15





Sr. No	Project Name	Industry	Application	Scope	Capacity	Year
1	Automotive Aluminum Parts Fabrication Factory	Automotive & Accessories	Casting, blasting machining, Powder coating	Provide fabricate production line for aluminum automotive parts	105.000 – 4.500.000 pcs/year	2018- 2019
2	EV Battery Housing Fabrication Line	Automotive & Accessories	Welding, reviewing, clearing, leak test, Polishing, Cleaning machining	Provide fabricate production line for battery housing from parts to hold battery housing	25.000 pcs/year	2021-2022
3	EV Battery Top Cover Fabrication Line	Automotive & Accessories	Welding, Gluing, leak test. Grinding, cutting	Provide fabricate production line for battery housing from parts to hold housing	25.000 pcs/year	2021-2022
4	EV Battery Housing Fabrication Line	Automotive & Accessories	Welding, reviewing, clearing, leak test, Polishing, Clearing machining	Provide fabricate production line for battery housing from parts to hold battery housing	100.000 pcs/year	2022-2023
5	Aluminum Extrusion Factory	Automotive & Accessories	Extrusion	Provide Extrusion line for automotive forming parts	9 Ton/Hours	2022-2024
E6EK	Powder Coating Car Seat Frame Line	Automotive & Accessories	Panting, Powder coating, Cleaning	Provide Painting line for car seat frame	750.000 pcs/year	2023 ^{(SK}
7	BIW panting line	Automotive & Accessories	Pretreatment, Panting, Sealing, drying	Provide Painting line for BIW	10 pcs/hour	2024 - Ongoing
8	Other hundred Related project					2012-2023

SK

EK

AUTOMOTIVE ALUMINUM PARTS FABRICATION FACTORY



Overview

- Application: Die casting, CNC, Surface Preparation & Protection
- Capacity: 100.000 4.500.000 parts/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 150x85 meter square
- Automatic rate 75%

Product



ETA



Automotive, Metal, Supporting



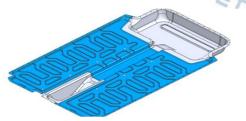
EV BATTERY TOP COVER FABRICATION LINE



Overview

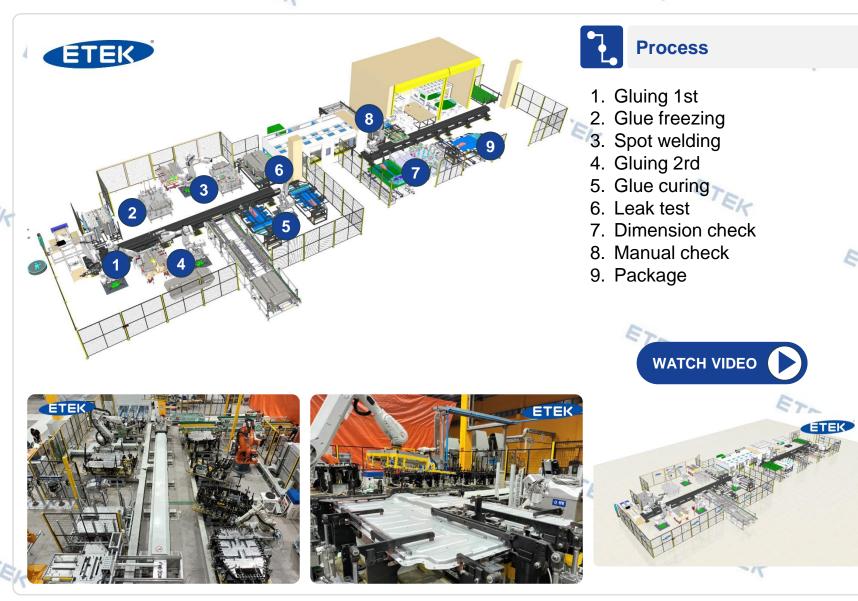
- Application: Sport Welding laser Cutting, Gluing, Leak test...
- Capacity: 25.000 Products/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 40x15 meter square
- Automatic rate 85%







 Automotive, Metal, Fabrication, Battery



TOTAL AUTOMATION SOLUTIONS

EV BATTERY HOUSING FABRICATION LINE



Overview

- Application: Laser welding, Riveting, Drilling Grinding, Machining, Leak test, Cleaning...
- Capacity: 100.000 Products/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 90x55 meter square
- Automatic rate 85%

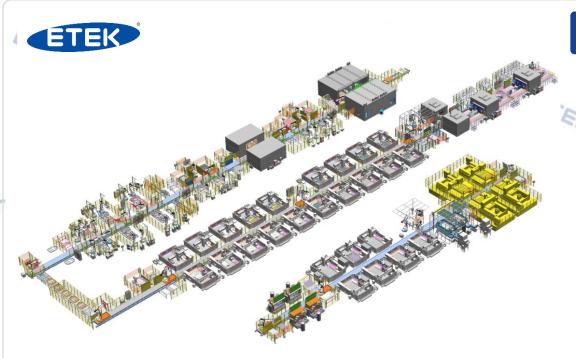
Product – EV Battery Housing







 Automotive, Metal, Fabrication, Battery









- 1. Cleaning
- 2. Laser cutting
- 3. TIG welding
- 4. Machining
- 5. Friction welding
- 6. Welded vision check
- 7. Polishing
- 8. Riveting
- 9. Dimension check
- 10.Cleaning
- 11.Leak test

Aluminum Extrusion Factory





- Application: Extrusion, CNC machining, cutting, debugging, packaging
- Capacity: 100.000 Products/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 90x55 meter square
- Automatic rate 85%





 Automotive, Metal, Fabrication, Aluminum



Powder Coating Car Seat Frame Line





Aluminum Extrusion Factory



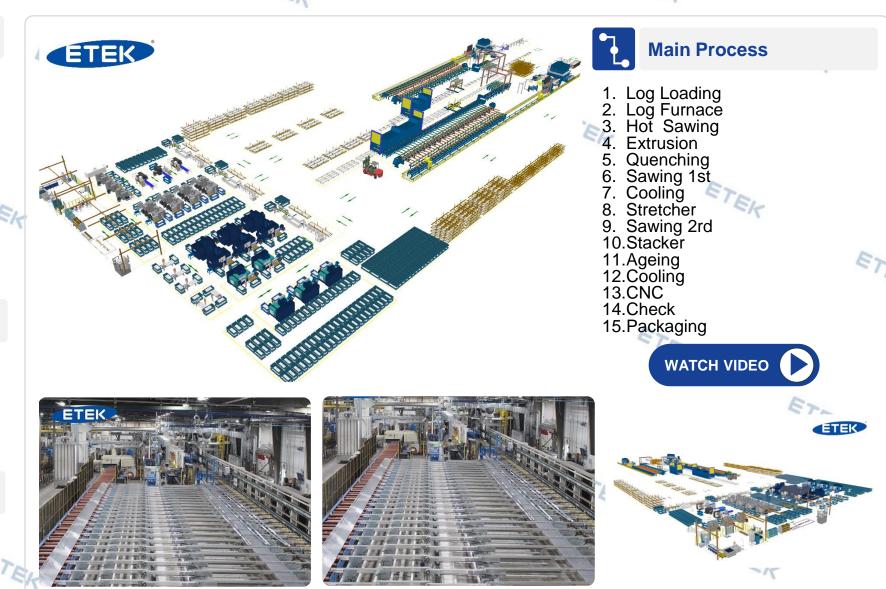
Overview

- Application: Extrusion, CNC machining, cutting, debugging, packaging
- Capacity: 100.000 Products/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 90x55 meter square
- Automatic rate 85%





 Automotive, Metal, Fabrication, Aluminum



Automotive Metal Parts Surface Preparing System



Overview

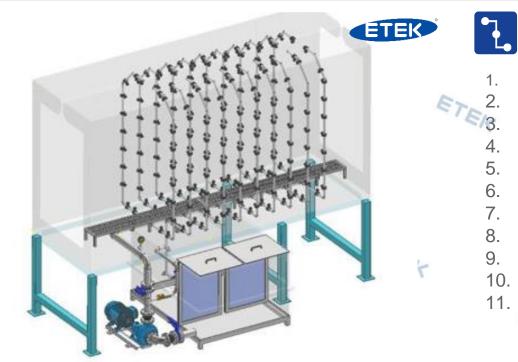
- Application: Surface preparation before powder coating, panting
- Production Details : 750.000 2.000.0000 pcs/ year
- Layout Area:51,7x2,7 meter square
- Product: Automotive metal parts







- Automotive
- Metal
- Supporting

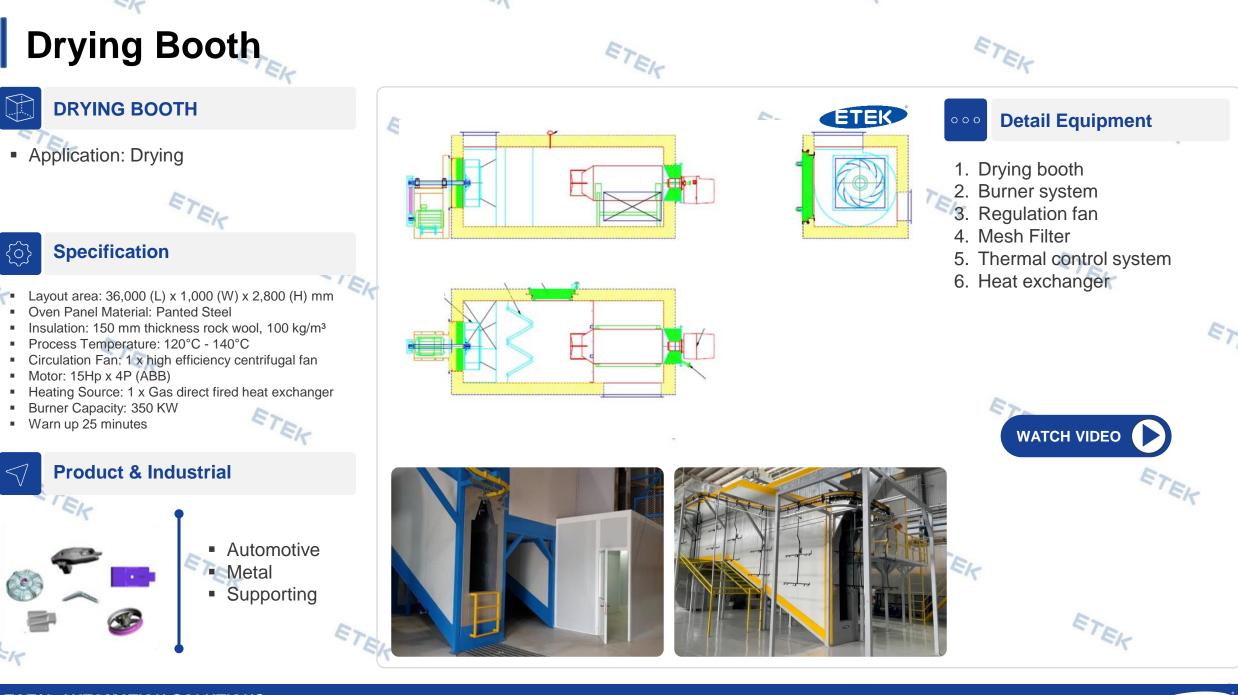


Process

- 1. Pre-Degrease
- 2. Degrease
- 3. Water Rinse 1st
- 4. Acid Rinse
- 5. Water Rinse 2nd
- 6. Non-Chromek
- 7. Water Rinse 3rd
- 8. Water Rinse 4th
- 9. SAM Rinse
- 10. DI water Rinse
- 11. Tunnel







HANGING CONVEYOR



Hanging conveyor

- Model name: Hanging conveyor
- Application: Powder coating, Intralogistics

Specification {}

- Hanging distance: 1.225 m
- Conveyor speed: 4m/min
- Capacity: pcs / day
- Type: I-beam Overhead Conveyor System X348
- Single Trolley Load Capacity: max 90kg









Detail Equipment

EV Battery Housing Fabrication Line



Overview

- Application: Laser welding, Riveting, Drilling Grinding, Machining, Leak test, Cleaning...
- Capacity: 100.000 Products/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 90x55 meter square
- Automatic rate 85%

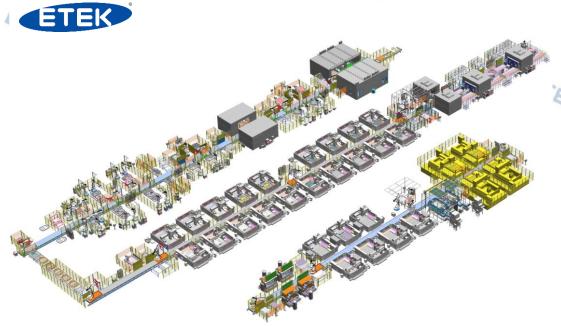
Product – EV Battery Housing







 Automotive, Metal, Fabrication, Battery







1

- 1. Chill part cleaning
- 2. Laser cutting
- 3. Machining
- 4. Friction welding
- 5. TIG welding
- 6. Riveting
- 7. Dimension check
- 8. Polishing
- 9. Cleaning
- 10.Leak test



TOTAL AUTOMATION SOLUTIONS



Washing Aluminum Parts



Washing Aluminum Parts

- Model: ETKTF.W01
- Application: Metal surface preparation

$\{ \circ \}$ **Specification**

- Dimension (LxWxH): 20x4.5x4m
- Weight: 30000kg
- Machine power: 200KW
- Number of step: 11
- Capacity: 21Jph
- Task time: 165s



Metal Surface preparation









2 Robots Rotated Table Auto MIG Welding



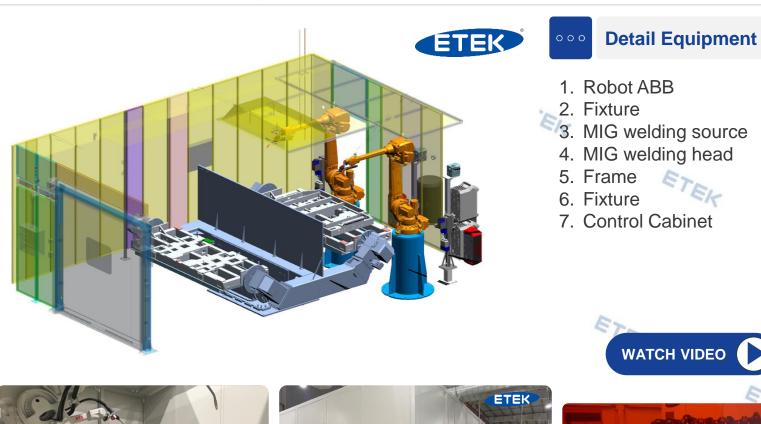
Auto MIG welding

- Model: ETEKF.M205
- Application: MIG welding, Welding, Aluminum Welding

(i) Specification

- Dimension (LxWxH): 8x6x3.7m
- Weight:10000kg
- Station power: 3 Phrase, 380V, 50KW
- Compressed air consumption: 7m3/h
- Argon consumption: 1.5m3/h
- Capacity: 22 JPH







4 Robots Continues Auto MIG Welding





Auto MIG welding

- Model: ETEKF.M206
- Application: MIG welding, Welding, Aluminum Welding

Specification

- Dimension (LxWxH): 16x6x3.7m
- Weight: 20000kg
- Station power: 3 Phase, 380V, 100KW
- Compressed air consumption: 14m3/h
- Argon consumption: 3m3/h
- Capacity: 22 JPH











FSW – Friction Welding Machine



Fiction Welding machine

- Model:CFSW-75-4.5
- Application: Welding, Aluminum Fiction welding

Specification $\{0\}$

- Dimension: 7.5x4.5x3.8m
- Weight: 30000kg
- Machine power: 3 phase, 380V, 75KW
- Rotation speed: 2600 rpm
- Welding speed: 30mm/s
- Capacity: 30 (JpH)







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Detail Equipment 000

- 1. ABB check motion robot
- tending & Gripper
- 2. FSW welding machine
 - 3. Fixture
 - 4. Control box
 - 5. Safety Fence & light curtain





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CNC PHA-CNC3000S Machine

ETEK

CNC Machine

Application: CNC milling



(ô) Specification

- Dimension (LxWxH): 6.7x 6.4x4.5m
- Weight: 20000kg
- Machine power: 380V, 38 KW
- Compressed Air: 7-8 Bar
- Capacity: 20 JPH
- Working Table : 3000×2000mm, X/Y/Z: 3000/2000/800mm



Detail Equipment ETEK 000 1. Single-spindle CNC machine 2. Light curtain 3. Lift door 4. RIP 5. CNC Fixture WATCH VIDEO ETEK

2 Robots Auto Riveting







EV Battery Top Cover Fabrication Line



Overview

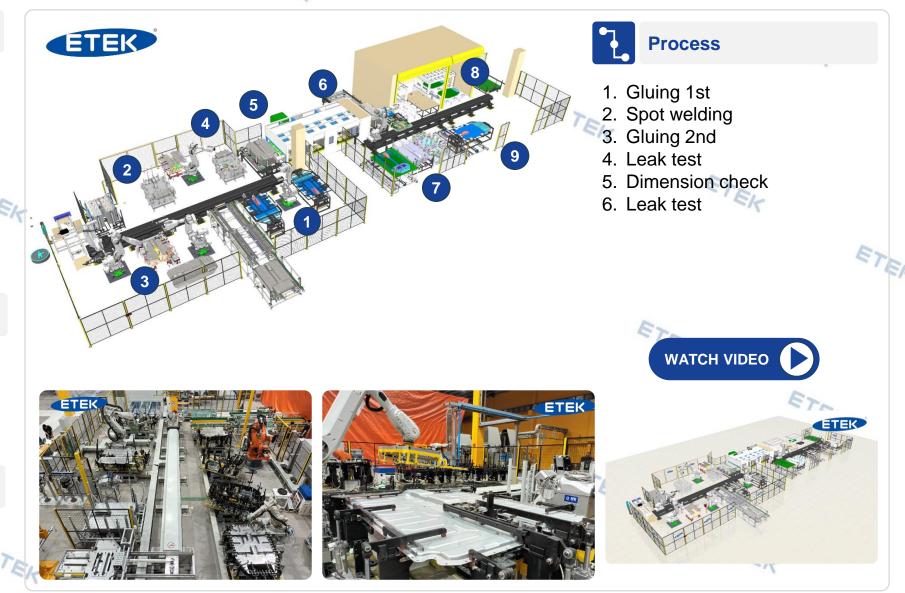
- Application: Sport Welding laser Cutting, Gluing, Leak test...
- Capacity: 25.000 Products/year
- Part material: Aluminum & aluminum alloys.
- Layout Area: 40x15 meter square
- Automatic rate 85%







 Automotive, Metal, Fabrication, Battery



GLUING



 $\{ \circ \}$

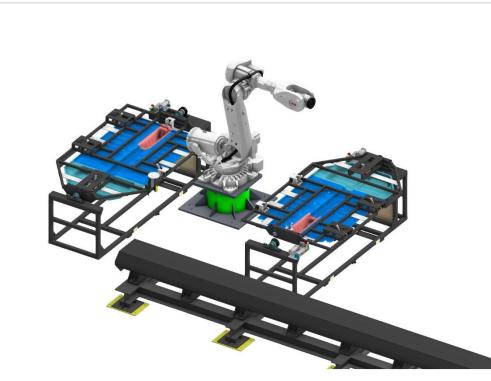
Auto - Glue Robot

- Model: ETEKAG-00301
- Applications: Gluing, Fabrication, Assembly

Specification

- Reach (m) : 2.65
- Capacity (Products per hour): 18.8
- Robot Payload(kg) : 220 235kg
- Layout area (mm): 6000 x 4000
- Power supply:





••• Detail Equipment

- 1. Robot ABB
- 2. Double gripper Tool
- 3. Robot 7 axis
- 4. Auto gluing gun
- 5. Manual gluing gun
- 6. Camera
- 7. Dedust/cleaning system





TOTAL AUTOMATION SOLUTIONS



ALUMINUM SPOT WELDING



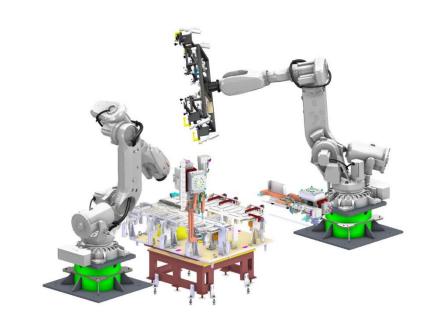
AluminumSpot Welding Robot

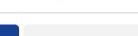
- Model: ETEKAW-00303
- Applications: Welding, Fabrication

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- Reach (m) : 2.65
- Capacity (Products per hour): 9.5
- Robot payload (kg) : 220 235kg
- Number of axes : 6
- Layout area (mm): 6000 x 3000







Detail Equipment

- 1. Robot ABB
- 2. Spot welding machine
- 3. Spot welding gun
- 4. Tip dresser

ETEK

- 5. Welding fixture
- 6. Machinary accessories
- 7. Dedust/Cleaning systems





LEAKAGE TEST – WATER TEST



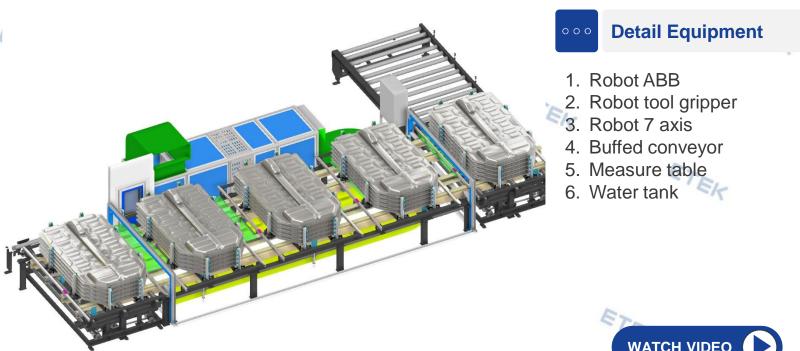


Leakage Test Station

- Model: ETEK TR-30010
- Applications: Leak test

Specification {o}}

- Layout area (mm): 8800 x 6200
- Leakage test capacity (Products per hour): 13
- Water test capacity (Products per hour): 6













DIMENSION MEASURING – MANUAL CHECK

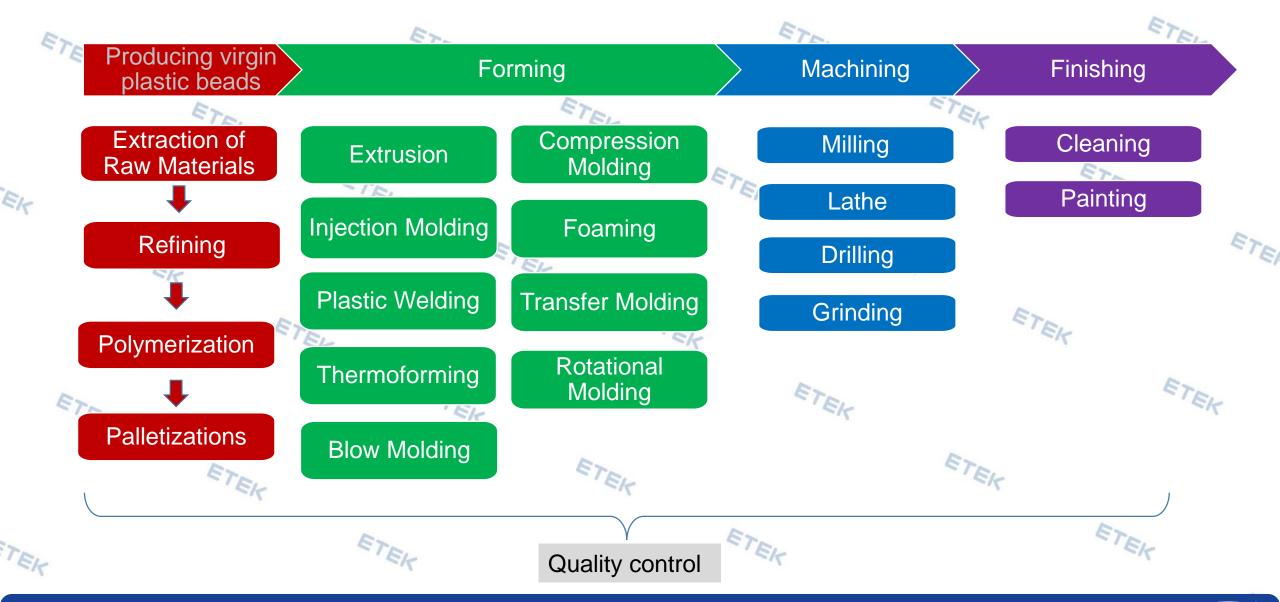




PLASTIC FABRICATION

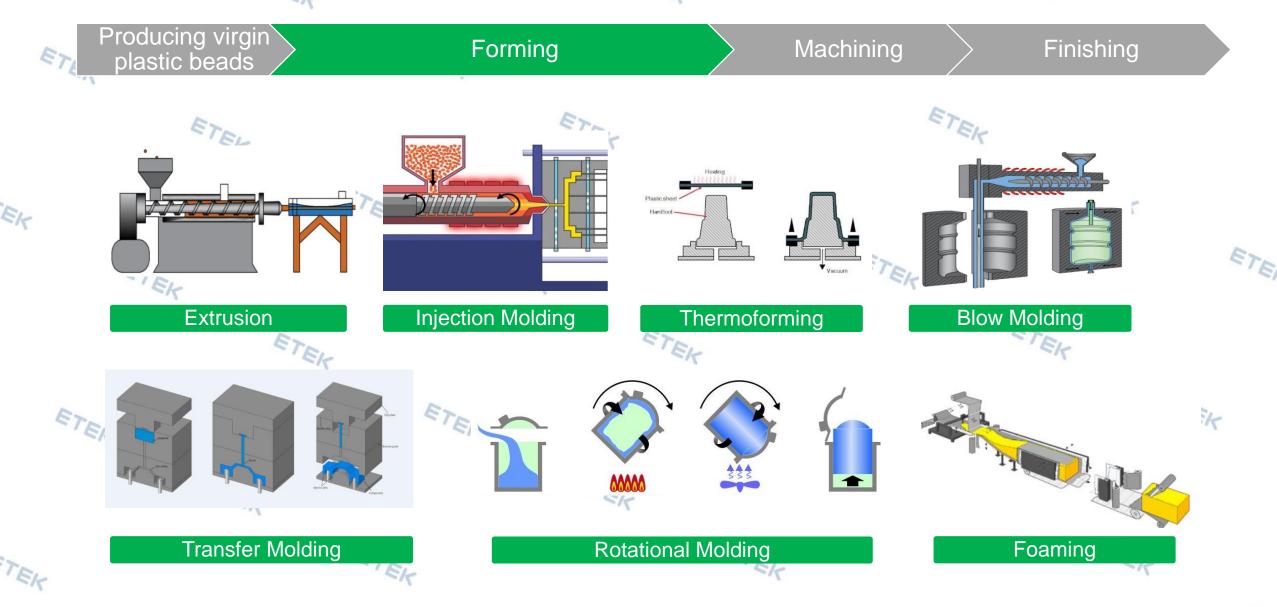
PLASTIC FABRICATE PROCESS





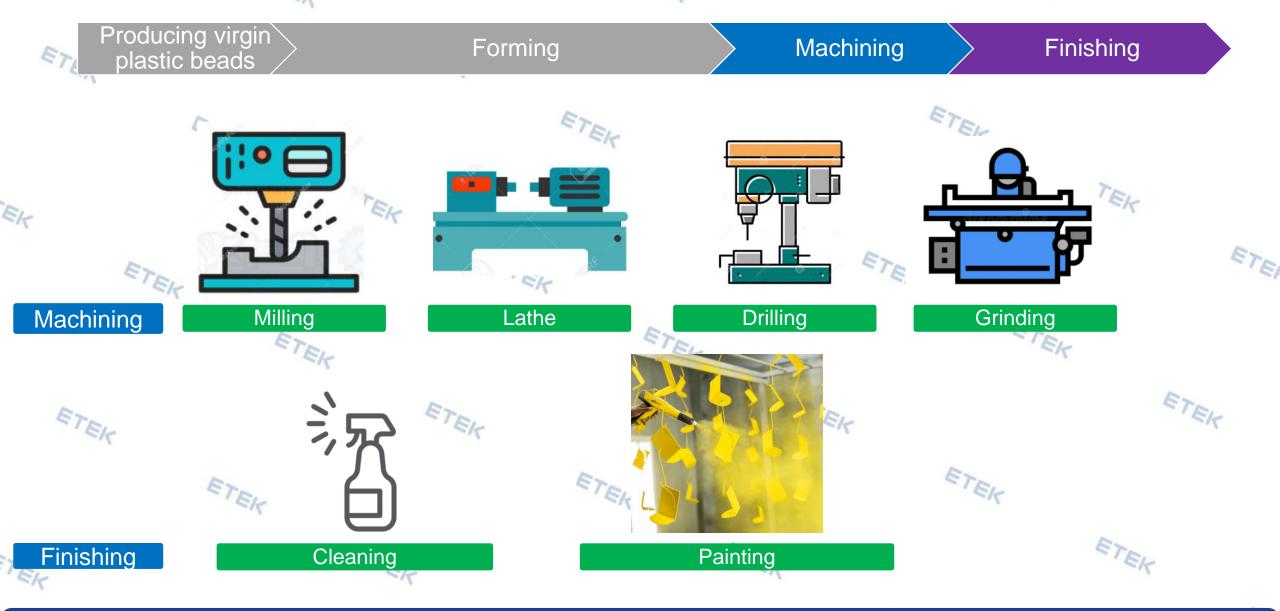
PLASTIC FABRICATE PROCESS





PLASTIC FABRICATE PROCESS





Automotive Plastic Parts Injection Molding



Overview

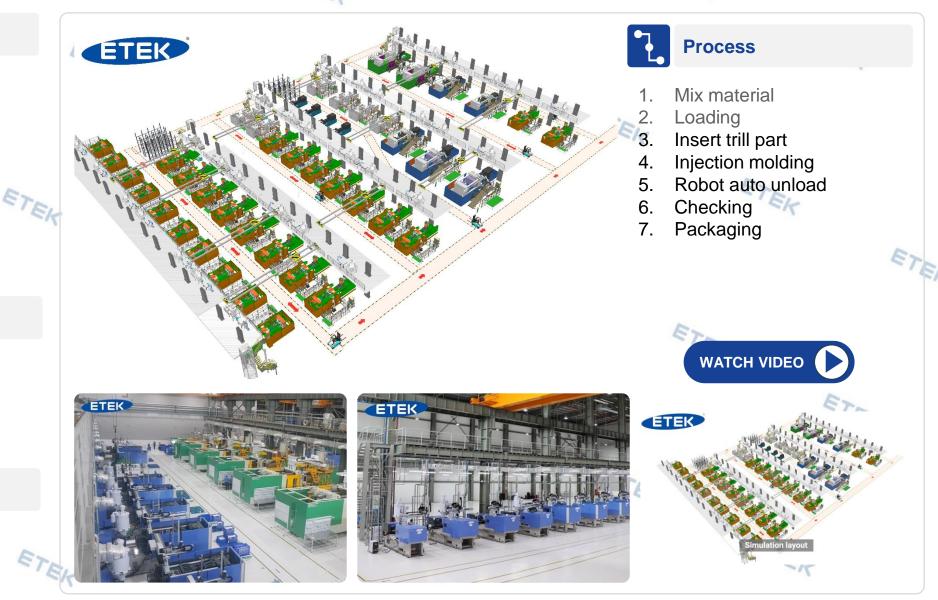
- Application: Plastic Die casting
- Production Details : 5.000.000 pcs/ year
- Product: Plastic
- No* Injection molding machine: 40 machines
- Automatic Rate: 90%







- Automotive
- Plastic
- Supporting







TOTAL AUTOMATION SOLUTIONS

Coordinate Measuring Machine CMM



CMM MACHINE

- Model: CMM ZEISS CONTURA 7/10/6

(i) Specification

- Effective size: X700,Y1000,Z600 mm
- Accuracy: 1.5+L/350
- Machin size: L1481xW1915H2797 mm
- Multi products Operate





Plastic Powder Spray Booth



Wagner Spray Booth

- Model name: Plastic Powder re-cycle spay system
- Application: Powder coating, Powder spay

⟨ĵ⟩ Specification

- Layout area: 14,500 (L) x 7,500 (W) x
 6,000 (H) mm
- Material: 50mm sandwich panel, Observation window with 5mm tempered glass
- Observation window





Detail Equipment

- 1. Plastic Booth
- 2. Powder recycling system
- 3. Powder center
- 4. Powder spay robot
- 5. Spray heads & control box
- 6. Conveyor system





ETEK AUTOMATION SOLUTIONS JSC

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