

AccuTM

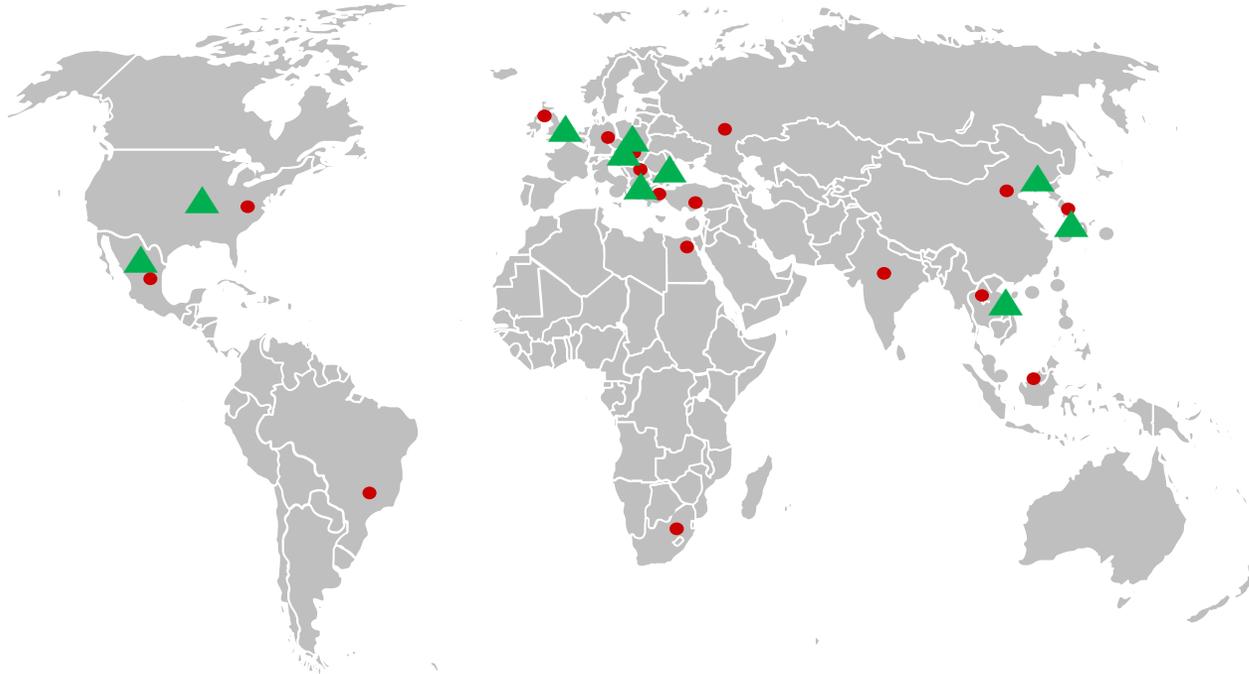
Total Quality Solutions

(주)아큐서비스 회사 소개서



Global Coverage | Local Services

ACCU GROUP – 글로벌 네트워크 (서비스 지역)



■ Global Coverage | Local Services

- Accu Corporate Entity ▲ Accu Warehouse QTC
- Accu team coverage

Asia

- China ▲
- Korea ▲
- Vietnam ▲
- Thailand
- Malaysia
- India
- Singapore
- Indonesia
- Philippines

EMEA

- Czech ▲
- Germany
- Poland ▲
- Hungary ▲
- UK
- Romania ▲
- Slovakia ▲
- Russia
- Austria
- Turkey
- Netherlands
- France

Africa

- Egypt
- South Africa

North America

- USA ▲
- Mexico ▲

ACCU 글로벌 네트워크 정보 :

- 품질 및 물류서비스 제공
- 2003년 설립, 중국 Suzhou 본사
- Global footprint in 25 countries with 1500+ employees
- Key Focus : Automotive, E-Mobility, Electronics, Energy
- Customers : OEMs, Tier1/Tier2 Suppliers, 3PL

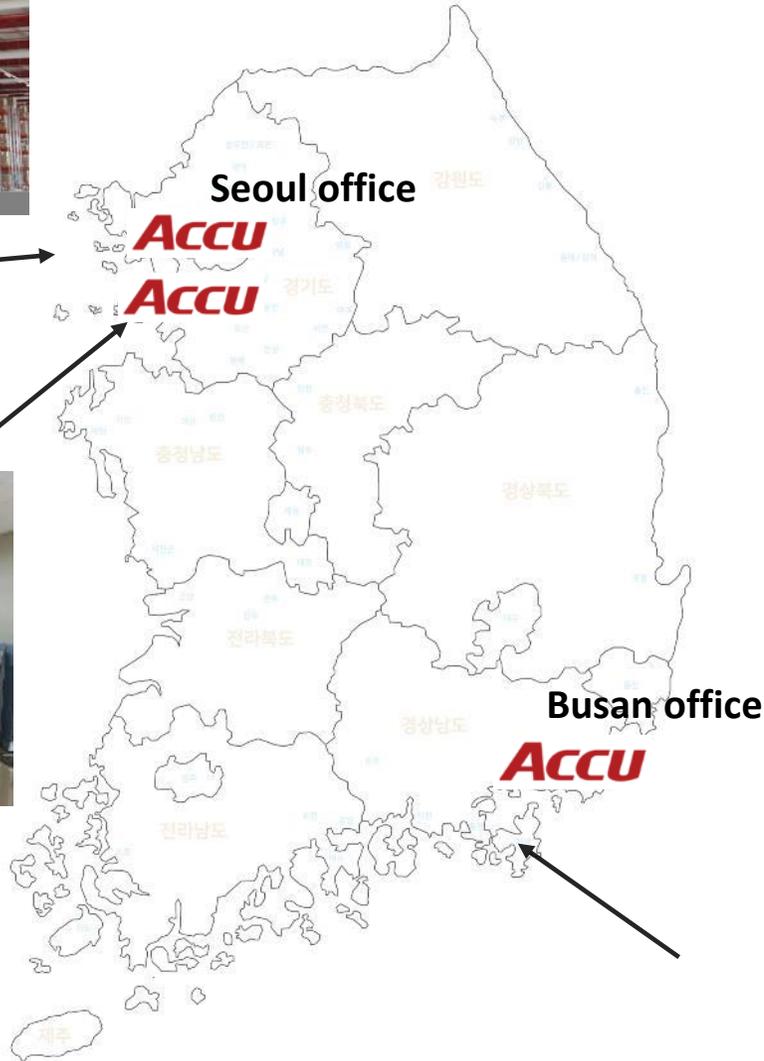
(주)아큐서비스 코리아



Bonded warehouse in Incheon airport
(Rental contract expired)



Quality Technical Centre
Ansan



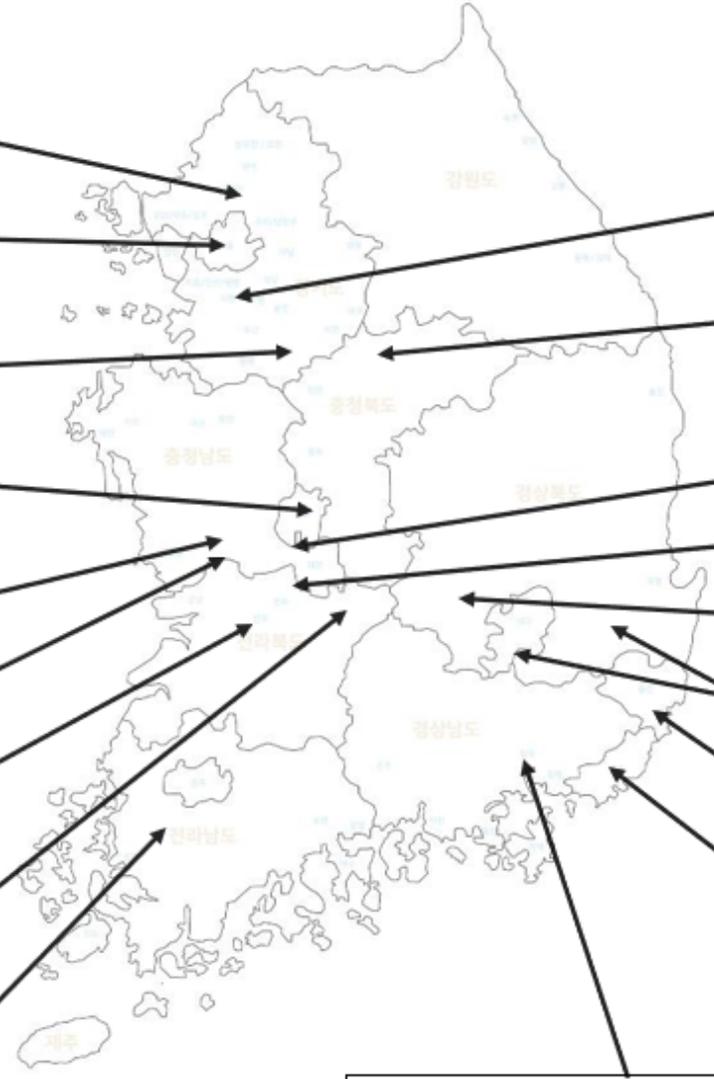
- 한국지사 아큐서비스 설립, 2010
- 경기 지역 품질 기술 센터를 기반으로 전국에서 프로젝트 진행
- 품질관리, 품질테스트 등의 품질 서비스와 물류/창고 업무를 통합한 사업
- Rework, 선별 등의 품질 관리 업무



Quality control & management
Integrated warehouse in Busan
(TBD)

아큐서비스 - 지역별 Project 수행

- LCD Module Panel Fault Check (YANG JU)
- LCD Module Panel Fault Check (SEOUL)
- LCD Module Panel Fault Check (SU WON)
- Automotive screening and rework (AN SUNG)
- Automotive screening and rework (PYEONG TAEK)
- LCD Module Panel Fault Check (PYEONG TAEK)
- Automotive screening and rework (CHEONAN)
- Solar Panel Fault Check (OCHANG)
- LCD Module Panel Fault Check (GWANG JU)



- LCD Module Panel Fault Check (CHANG WON)

■ All regions of Korea can be dispatched for repair work

- LCD Module Panel Fault Check (AN SAN)
- LCD Module Panel Fault Check (YONG IN)
- LCD Module Panel Fault Check (PYEONG TAEK)
- Solar Panel Fault Check (JIN CHEN)
- LCD Module Panel Fault Check (GU MI)
- LCD Module Panel Fault Check (DAE GU)
- Automotive screening and rework (GYEONG JU)
- Automotive screening and rework (UL SAN)
- LCD Module Panel Fault Check (BU SAN)

아큐서비스 - 품질 정책 및 인증서

■ 품질 정책

책임감



신뢰형성



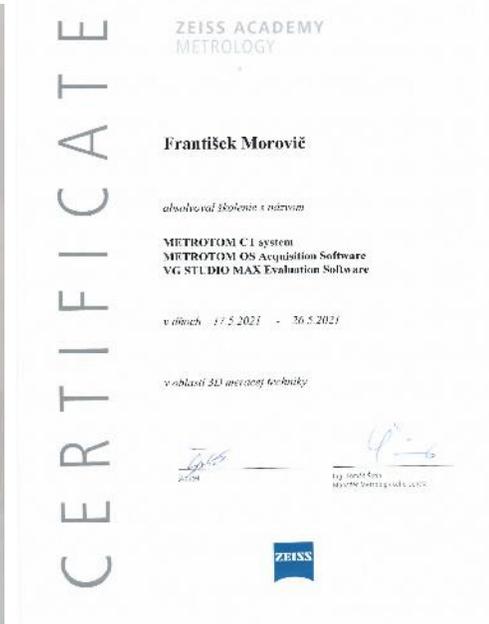
고객만족



품질 극대화



■ 인증서



아큐서비스 - 서비스 분야

통합 품질 서비스

품질 솔루션과 연계된
Warehouse 및 물류 서비스

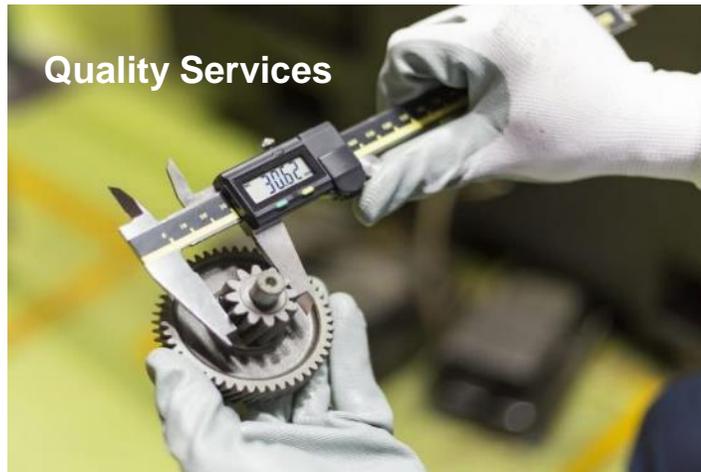


수작업 / 조립

숙련된 작업자들에
의해 제공되는 높은
품질 수준의 선별,
수작업, 조립 서비스
제공

품질관리 서비스

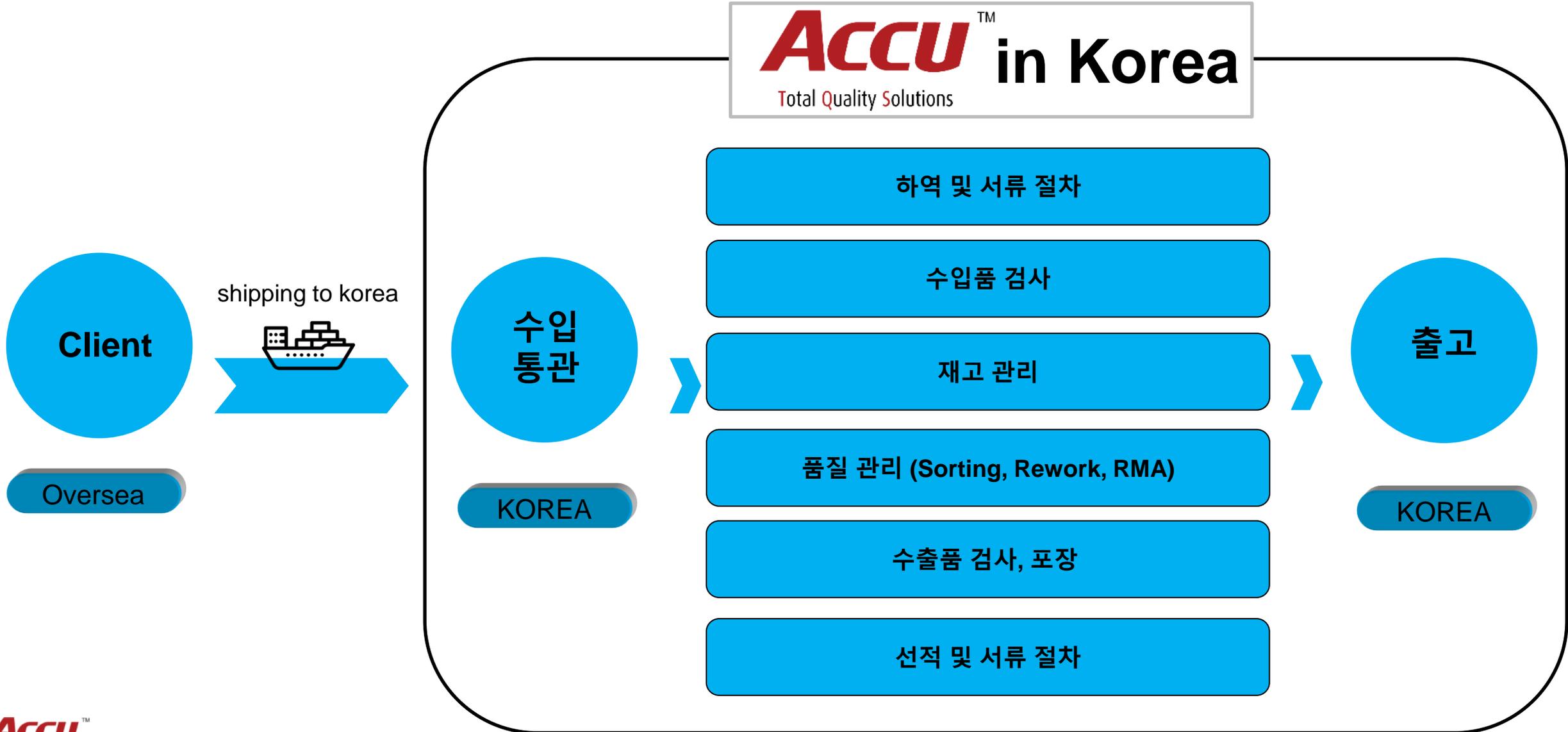
- 품질 컨설팅
- 품질 기술 서비스
- 품질 상주원
- 선별 품질 확인
- 수준별 출하 관리 서비스 (CSL) 1,2,3
- 선적, 출하전 품질확인
- 품질 보증 센터 관리



보관 업무 및 물류

- 발주 처리
- 포장, 조립
- 창고 관리
- 하역/선적 업무
- 물류, 납품 서비스

ACCU - Logistics and Warehouse Service



ACCU™ in Korea
Total Quality Solutions

Client

Oversea

shipping to korea



수입 통관

KOREA

하역 및 서류 절차

수입품 검사

재고 관리

품질 관리 (Sorting, Rework, RMA)

수출품 검사, 포장

선적 및 서류 절차

출고

KOREA

ACCU - Warehouse Locations

- 산업 단지 내 위치
- 서울, 경기권에 대한 뛰어난 접근성
 - 남안산IC에서 ± 5Km
 - 평택항에서 ± 51km
 - 인천항에서 ± 31km
 - 부산항에서 ± 400km
- 최대 5톤 화물차 진입가능
- 5.5m의 여유있는 층고



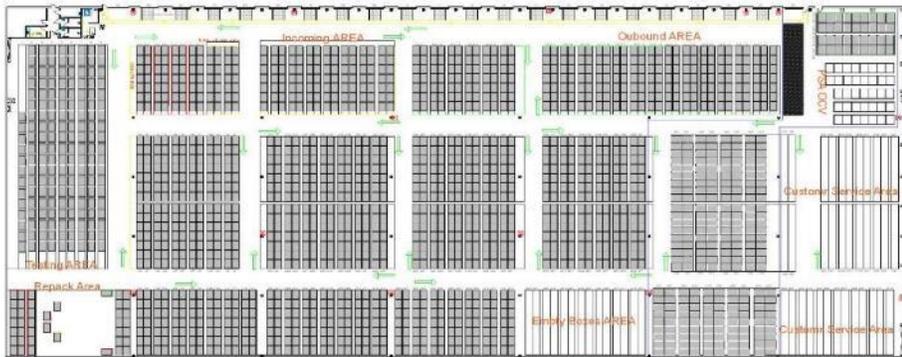
Other Warehouse in Korea under consideration



ACCU - Warehouse in Poland (Reference from Oversea)



- ACCU EMEA는 폴란드에서 21,000sqm 이상의 WH공간 확보.
 - TEST, STORAGE, INBOUND-OUTBOUND, QUARANTINE, REPACK으로 위치가 지정되어 효율적인 공간 관리 가능
- 고객지원을 위한 RMA 및 After sales의 공간활용.
- 고객을 위한 크로스 도킹 서비스 제공.
 - 고객별 맞춤 서비스를 위한 효율적인 물류 시스템 구축.
- 고객의 시스템과 연동된 GQMS 및 oQMS 활용.
 - 고객 서버와의 2단계 VPN 보호 통신으로 솔루션의 데이터 안전성 확보
- Dangerous Goods Advisors와의 협력으로 제품 보관안전성 증대.
 - 리튬-이온 지게차 활용.
 - 모든 창고에 전략적으로 추가 소화장비 구비
 - 모든 지게차에 휴대형 소화기 장착.
 - 비상시 특수 소방대의 대응을 위한 추가 시간 확보를 위한 시스템 개발협력.



- 보유 설비:
- 12 pallet trolleys
 - 8 2.5T 지게차
 - 2 3.5T 지게차
 - 2 랙 시스템용 하이리프트

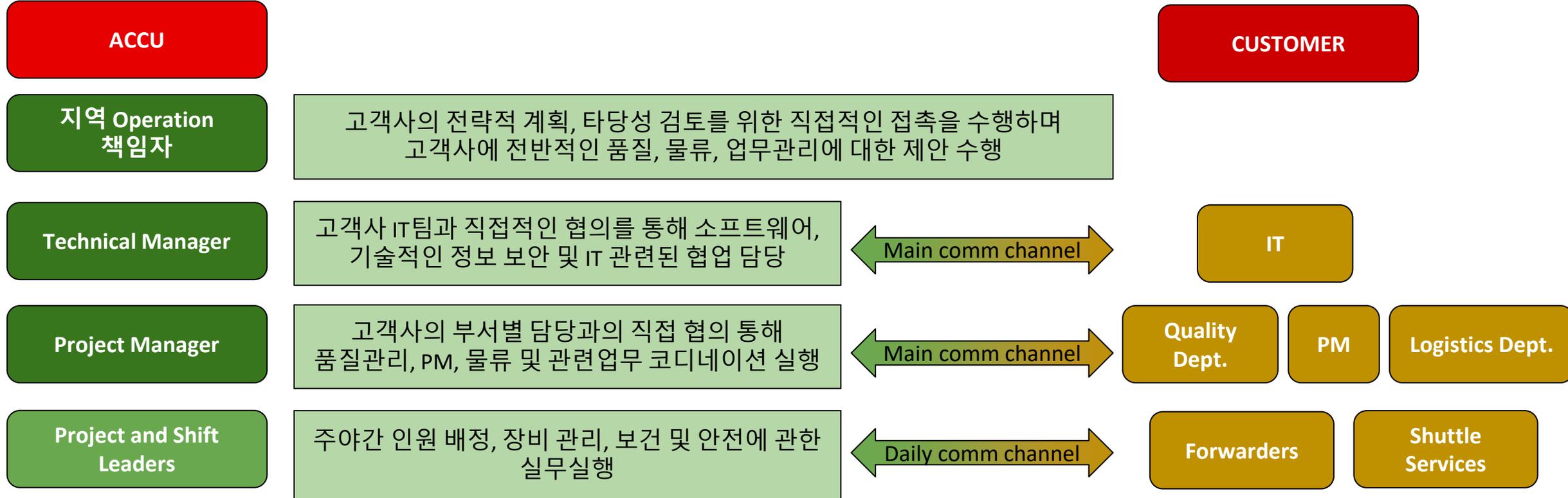
아큐서비스 - 다양한 산업 분야



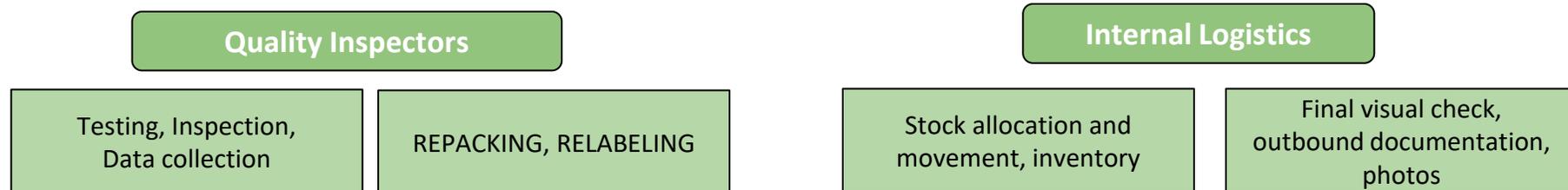
ACCU
Total Quality Solutions



아큐서비스 - 고객사와 협업 방안



아큐서비스는 고객과의 원활한 의사소통을 통해 고객의 Needs를 파악하는 것을 원칙으로 하며, 고객사 조직의 다양한 부문과 소통을 통해 효율적인 물류 및 품질관리 수행



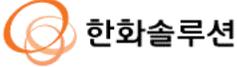
아큐서비스 - 국내 진행 중인 주요 프로젝트

					
업 무	<ul style="list-style-type: none"> • TV 모니터, 사운드 • 품질 테스트 • Unpacking 후 테스트 실시 	<ul style="list-style-type: none"> • LCD 모듈 패널 불량 검사 • 좌-우측 구동 • 최종 불량 유.무 및 내용 체크리스트 작성 • Repacking 	<ul style="list-style-type: none"> • 자동차 부품 • 선별 및 작업 	<ul style="list-style-type: none"> • 자동차 부품 검사 • 선별 및 작업 	<ul style="list-style-type: none"> • 자동차 부품 • 선별 및 작업
위 치	• 해외 15곳 사이트	• 천안, 구미	• 인도네시아	• 평택	• 천안
기 간	• 2021. 03 ~	• 2022. 01 ~	• 2022 ~ (비정규적)	• 2022 ~	• 2023.01 ~
비 고	• 15명	• 5명	• 5명	• 5명	• 3명

현장 사진



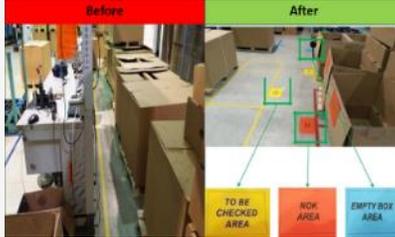
아큐서비스 - 국내 진행 완료한 주요 프로젝트

					
업 무	<ul style="list-style-type: none"> • 커피머신 • Leakage 테스트 • Unpacking 후 테스트 실시 • Repacking / Logistics 	<ul style="list-style-type: none"> • LCD 검사 • AUTOMOTIVE PARTS • 최종 불량 유.무 및 내용 체크리스트 작성 • 	<ul style="list-style-type: none"> • 태양광 Panel • 품질 확인 • 파손 Glass 제거 • 양품 재 적재 	<ul style="list-style-type: none"> • 모니터 검사 • 해외 각국에서 적용되는 전원으로 검사 확인 • 검사 후 스티커 부착 	<ul style="list-style-type: none"> • 자동차 네비게이션 • LCD 성능 검사
위 치	<ul style="list-style-type: none"> • 안산 	<ul style="list-style-type: none"> • 서울 	<ul style="list-style-type: none"> • 충북 진천 	<ul style="list-style-type: none"> • 인천 	<ul style="list-style-type: none"> • 부산
기 간	<ul style="list-style-type: none"> • 2021. 12 ~ 2022.07 	<ul style="list-style-type: none"> • 2022. 01 ~ (비정규적) 	<ul style="list-style-type: none"> • 2018 ~ (비정규적) 	<ul style="list-style-type: none"> • 2020 ~ (비정규적) 	<ul style="list-style-type: none"> • 2020 ~ (비정규적)
비 고	<ul style="list-style-type: none"> • 품질 기술 센터 	<ul style="list-style-type: none"> • 5명 	<ul style="list-style-type: none"> • 8명 	<ul style="list-style-type: none"> • 5명 	<ul style="list-style-type: none"> • 3명

현장 사진



아큐서비스 - 해외 진행 중 사업과 경험 (유럽)

			BOSCH	
Outsourced Process	<ul style="list-style-type: none"> Quality Assurance Center (Inspection, sorting and reworking of defective parts) Q-Gate 	<ul style="list-style-type: none"> Inspection for Metal parts Rework for Metal parts Test drive, test station manager 	<ul style="list-style-type: none"> For Bosch Q-Gate, sorting / rework Steering Column 	<ul style="list-style-type: none"> For BOS Q-Gate, sorting / rework, Middle console
Customer Location	<ul style="list-style-type: none"> South Africa 	<ul style="list-style-type: none"> Russia Kaluga 	<ul style="list-style-type: none"> Hungary 	<ul style="list-style-type: none"> Czech Republic
Period	<ul style="list-style-type: none"> Y20/01 ~ (5 years contract) 	<ul style="list-style-type: none"> Y19/M02 ~ 	<ul style="list-style-type: none"> Y17/M06~Y17/M12 (we finished work due to quality has stabilized) 	<ul style="list-style-type: none"> Y18/M06 ~Y19/M03 (we finished work due to quality has stabilized)
Remark	<ul style="list-style-type: none"> 60 - 70 people 	<ul style="list-style-type: none"> 2 - 16 people 	<ul style="list-style-type: none"> 30 people 	<ul style="list-style-type: none"> 12 people
Exam Photo				

아큐서비스 - 해외 진행 중 사업과 경험(유럽)

	 CONTITECH	 LG Energy Solution	 CATL	 SAMSUNG ELECTRONICS
Outsourced Process	<ul style="list-style-type: none"> Q-Gate, sorting, Sealing system (rubber part) 	<ul style="list-style-type: none"> OCV (Open-Circuit Voltage) test of li-ion batteries for Volvo, PSA, VW Q-Gate, Warranty service 	<ul style="list-style-type: none"> CT Scan of Li-Ion batteries Charging and OCV testing for PSA 	<ul style="list-style-type: none"> OQC/IQC/IBI/TV set <ul style="list-style-type: none"> Inspection for TV Module
Customer Location	<ul style="list-style-type: none"> Romania, Germany 	<ul style="list-style-type: none"> Poland 	<ul style="list-style-type: none"> Slovakia, Germany 	<ul style="list-style-type: none"> Slovakia, Russia, Hungary, Egypt
Period	<ul style="list-style-type: none"> Y18M03 ~ (5 years contract) 	<ul style="list-style-type: none"> Y19M06 ~ (5 years contract) 	<ul style="list-style-type: none"> Y21M01 ~ (2 years contract) 	<ul style="list-style-type: none"> Y17/M03 ~ Y20/M12 (we finished due to service covered internally)
Remark	<ul style="list-style-type: none"> 100 people 	<ul style="list-style-type: none"> 40 people 	<ul style="list-style-type: none"> 20 people 	<ul style="list-style-type: none"> 20~80 people
Exam Photo				

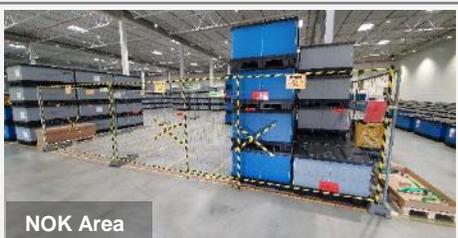
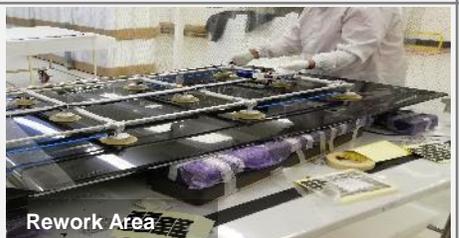
아큐서비스 - 해외 진행 중 사업과 경험(USA)

					
Outsourced Process	<ul style="list-style-type: none"> Q-Gate, Sorting, Rework 	<ul style="list-style-type: none"> Sequencing Warehouse management 	<ul style="list-style-type: none"> Q-Gate, Sorting, Rework 	<ul style="list-style-type: none"> Q-Gate, Sorting, Rework 	<ul style="list-style-type: none"> Warehouse management
Customer Location	<ul style="list-style-type: none"> Murfreesboro/Chattanooga, TN 	<ul style="list-style-type: none"> Spring Hills, TN 	<ul style="list-style-type: none"> Madison, Mississippi 	<ul style="list-style-type: none"> Highland Park, MI 	<ul style="list-style-type: none"> Livonia, MI
Period	<ul style="list-style-type: none"> 2014-2024 (10 years contract) 	<ul style="list-style-type: none"> 2019-2023 (5 years contract) 	<ul style="list-style-type: none"> 2016-2025 (10 years contract) 	<ul style="list-style-type: none"> 2020-2025 (5 years contract) 	<ul style="list-style-type: none"> project life (3-5 years contract)
Remark	<ul style="list-style-type: none"> 25 people 	<ul style="list-style-type: none"> 10 people 	<ul style="list-style-type: none"> 30 people 	<ul style="list-style-type: none"> 12 people 	<ul style="list-style-type: none"> 40 people

Exam Photo



ACCU - Quality Assurance Centres

QAC @BMW In-House Pretoria [ZA] / 800sqm	QAC @CTVC External Sibiu [RO] / 2,400sqm	QAC @LGES External Wroclaw [PL] / 14,000sqm	QAC @PAVCZ External Plzen [CZ] / 300sqm	QAC @CATL External Galanta [SK] / 1,200sqm
 <p>QAC Entrance</p>	 <p>QAC Entrance</p>	 <p>QAC View</p>	 <p>QAC View</p>	 <p>QAC View</p>
 <p>Sorting Area</p>	 <p>Inspection Area</p>	 <p>Testing Area</p>	 <p>Inspection Area</p>	 <p>CT Station</p>
 <p>NOK Area</p>	  <p>Work Instruction</p> <p>Warehouse</p>	 <p>Performance Board</p>	 <p>Aging Chamber</p>	 <p>CMC Area</p>
 <p>Large digital FIFO display</p>	 <p>Inspection Area</p>	 <p>NOK Area</p>	 <p>Rework Area</p>	 <p>Charging Area</p>

ACCU - Case study

Li-ion battery CMC Test and Charging



AccuTM
Total Quality Solutions



- Location: ACCU QAC in SK/Galanta
- Date: Y21M03 ~
- Headcount: 12 qualified persons
- CMC: Cell Management Controller
- Applications:
 - Total Module Voltage (OCV)
 - Cells voltage and it's range
 - Cells temperature and it's range
 - Cell controlled charging/discharging
 - Cell ballancing



ACCU - Case study

Car Body Inspection & Rework



ACCUTM
Total Quality Solutions

- Location: ACCU inhouse in RU/Kaluga
- Date: Y19M02 ~
- Headcount: 2-16 qualified persons
- OQC: Outgoing Quality Check
- Applications:
 - Visual inspection
 - Car body grinding
 - Car body polishing
 - Quality alerts
 - Rework



ACCU - Case study

TV Module Inspection & Rework



AccuTM
Total Quality Solutions



- Location: ACCU inhouse in SK/Galanta
- Date: Y17M03 ~ Y20M12
- Headcount: 20-80 qualified persons
- IQC: Incoming Quality Check
- Applications:
 - Visual inspection
 - Function test
 - Repair & Rework
 - Clean room
 - Verification & FMA

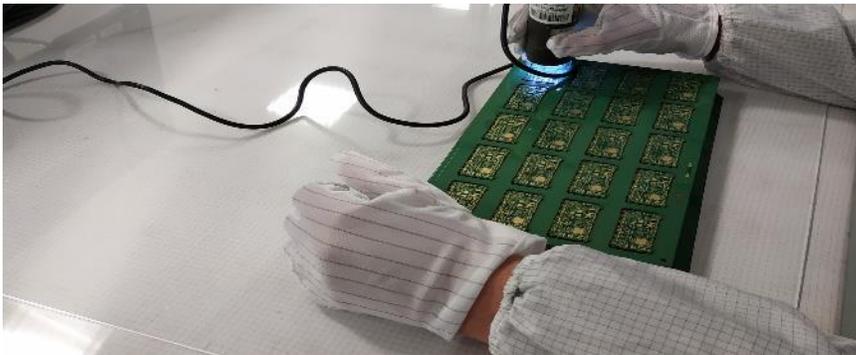


ACCU - Case study

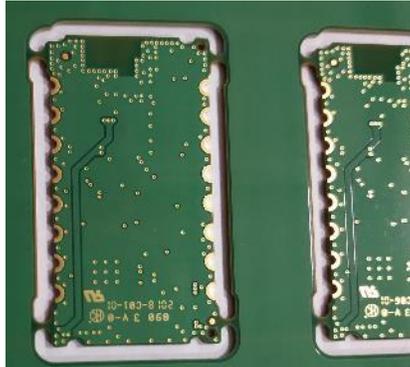
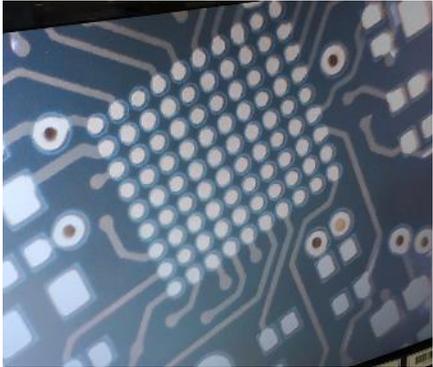
PCB Inspection & Rework



Accu™
Total Quality Solutions



- Location: ACCU inhouse in CZ/Pilsner
- Date: Y20M03 ~ Y20M06
- Headcount: 10 qualified persons
- IQC: Incoming Quality Check
- Applications:



- Visual inspection
- Microscope inspection
- Soldering
- Function test
- Vacuum packing

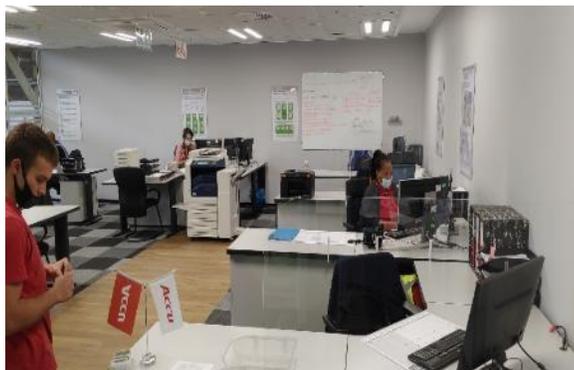


ACCU - Case study

Automotive parts Inspection & Rework



- Location: ACCU inhouse in ZA/Rosslyn
- Date: Y20M01 ~
- Headcount: 80 qualified persons
- IQC: Incoming Quality Check
- Applications:
 - Visual inspection
 - Parts rework
 - Quality escalation
 - Quality management
 - Multiple responsibilities



CALCULATED KPI 2021 - ACCU ZA						
	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
A - Exceed the expectations	0	0	0	5	5	4
B - Comply with the expectations	12	11	5	12	9	11
C - Does not comply with the expectations	4	7	4	3	1	7
	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
KPI %	97.50	100.00	98.25	99.66	98.57	98.06
Checked parts total	101289	151400	209477	231904	281061	252328
Invoice amount	TBD	TBD	TBD	TBD	TBD	TBD
Slippage KPI	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Slippage Parts	0	0	4	4	1	2
Actuality of the data	98.8%	100.0%	99.6%	99.7%	99.5%	99.7%
SAP stock data is incorrect	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Scheduled planned sorting started	100.0%	100.0%	99.8%	100.0%	100.0%	99.2%
Sort Quality	99.7%	100.0%	100.0%	100.0%	99.7%	100.0%
Parts damaged by sorting and not self-reported	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Invoice is incorrect	99.1%	100.0%	99.2%	100.0%	100.0%	100.0%
Misconduct of the SP employee	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Sorting station SP to upload work instruction	100.0%	100.0%	100.0%	100.0%	99.4%	99.2%

ACCU Work Instruction_SA20135_PDM Bracket

Revision: 0 | P: 1/6

Type	COI	Revision	005	Author	Lucretia Linn Sanku	Title	Product Development
Product	ACCU (Automotive) Analysis	Customer	SAE J2019	Line Service	NA	Service/Workshop	SAE
Contact Person	NA	Contact Person	Dennis Debus	Line Service	Europe Data	Project Start Date	17.03.2023
Contact E-mail	NA	E-mail	dennis.debus@accu.eu	Appr. by	Lucretia Linn Sanku	Appr. Date	17.03.2023
Product	SAE J2019	Appr. Date	30.03.2023	Appr. by	Lucretia Linn Sanku	Appr. Date	17.03.2023

Properties: Use as template Enable automatic knowledge generation Finalized Training Initial Training mandatory

Part Name: PDM Bracket

Part Number: 20135

Procedure: Safety glasses Wear protective eyewear Be alert to all risks Use correct tools No other use Wear Safety shoes Daily Use Hand signals Use ACCU tools

Source of parts: SAE J2019

Appr. by: Lucretia Linn Sanku

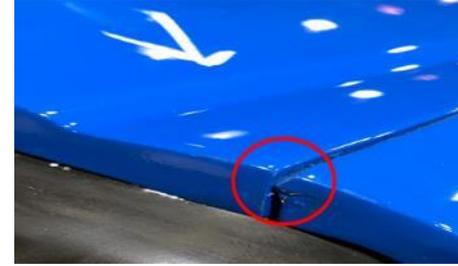
Appr. Date: 17.03.2023

Author: Dennis Debus

Editor: Lucretia Linn Sanku

ACCU - Case study

Fender and Hood Inspection & Cleaning



- Location: ACCU inhouse in UK/Gloucester
- Date: Y21M03 ~
- Headcount: 20 qualified persons
- IQC: Incoming Quality Check
- Applications:
 - Visual inspection
 - Parts cleaning
 - Defect judgment
 - Quality escalation

ACCU		COMPETENCY MATRIX									
ACCU		COMPETENCY MATRIX									
Competency	Personnel	...	...	...	...	...	...	...	...	...	...
...



Training record of inspectors				
Competency	Inspector Name	Training Provider	Date of Training	Comments / Remarks
Technical & Operation Knowledge
Technical & Process Knowledge
Technical & Operation Knowledge

아큐서비스 코리아 - 국내 주요 고객





**Thank you,
Let ACCU Be Your Quality Partner!**

**아큐서비스 한국지사
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