PINETTE GROUP

PINETTE
PINETTE GROUP

PERROT
PINETTE GROUP

GADE
PINETTE GROUP

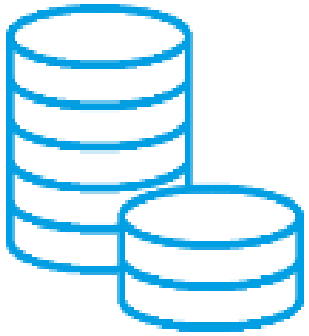
Profile



- Private company - since 1863
- HQR in Chalon-sur-Saône (Burgundy, France), and Riva del Po (Provincia di Ferrara, Italy)
- **Hydraulic press & press brake** specialist, up to **10 000 T**
- Three brands : **PINETTE PEI** for composites and heavy metal activity equipment
  JEAN PERROT and **GADE** for sheet metal activity equipment

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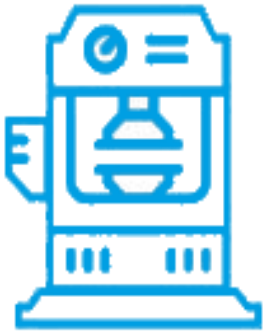
Key figures



35 M€ turnover



10% in R&D



>6000 machines in use



160 Employees



50% Engineers & Designers

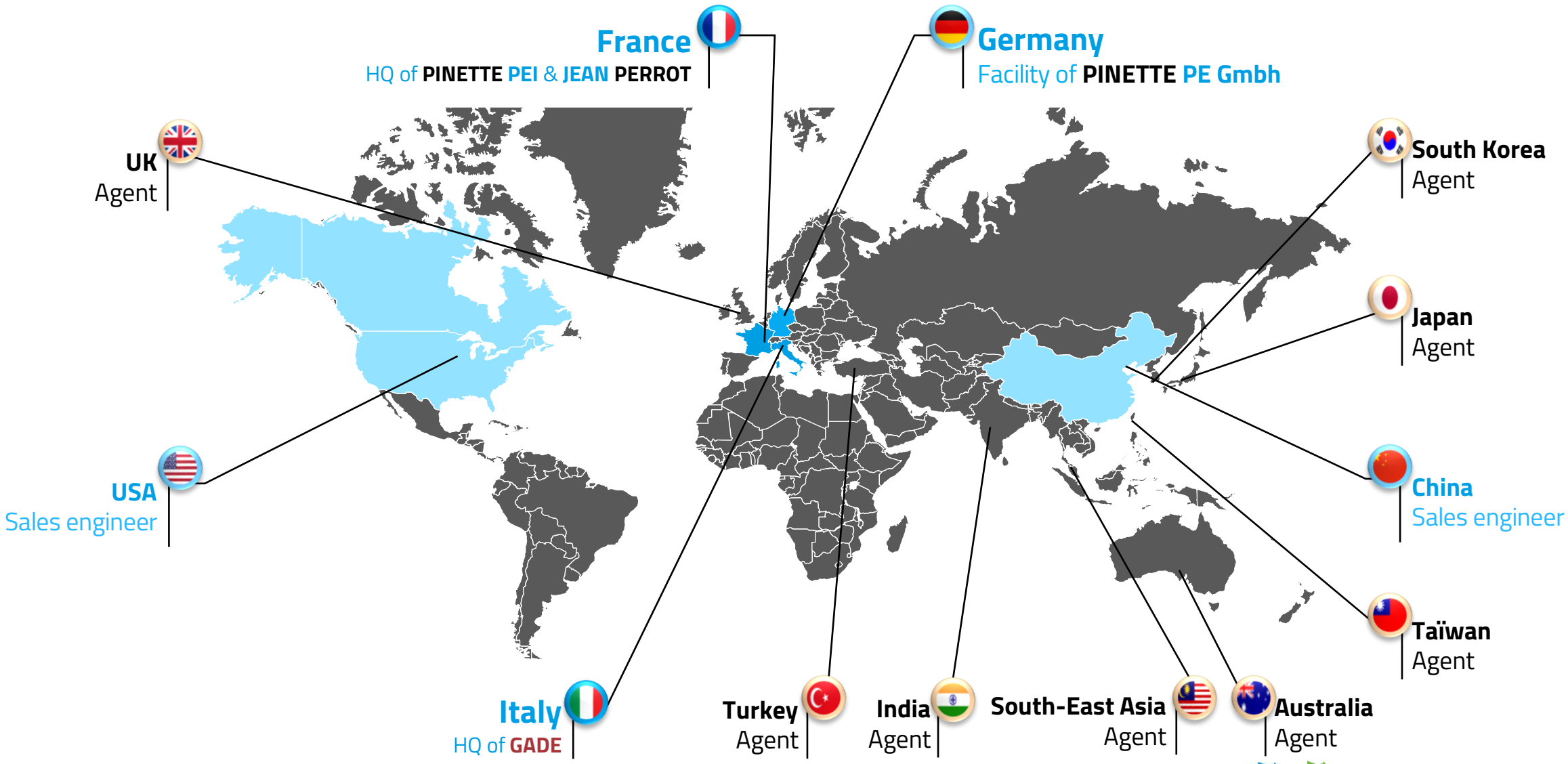


10% Apprentices

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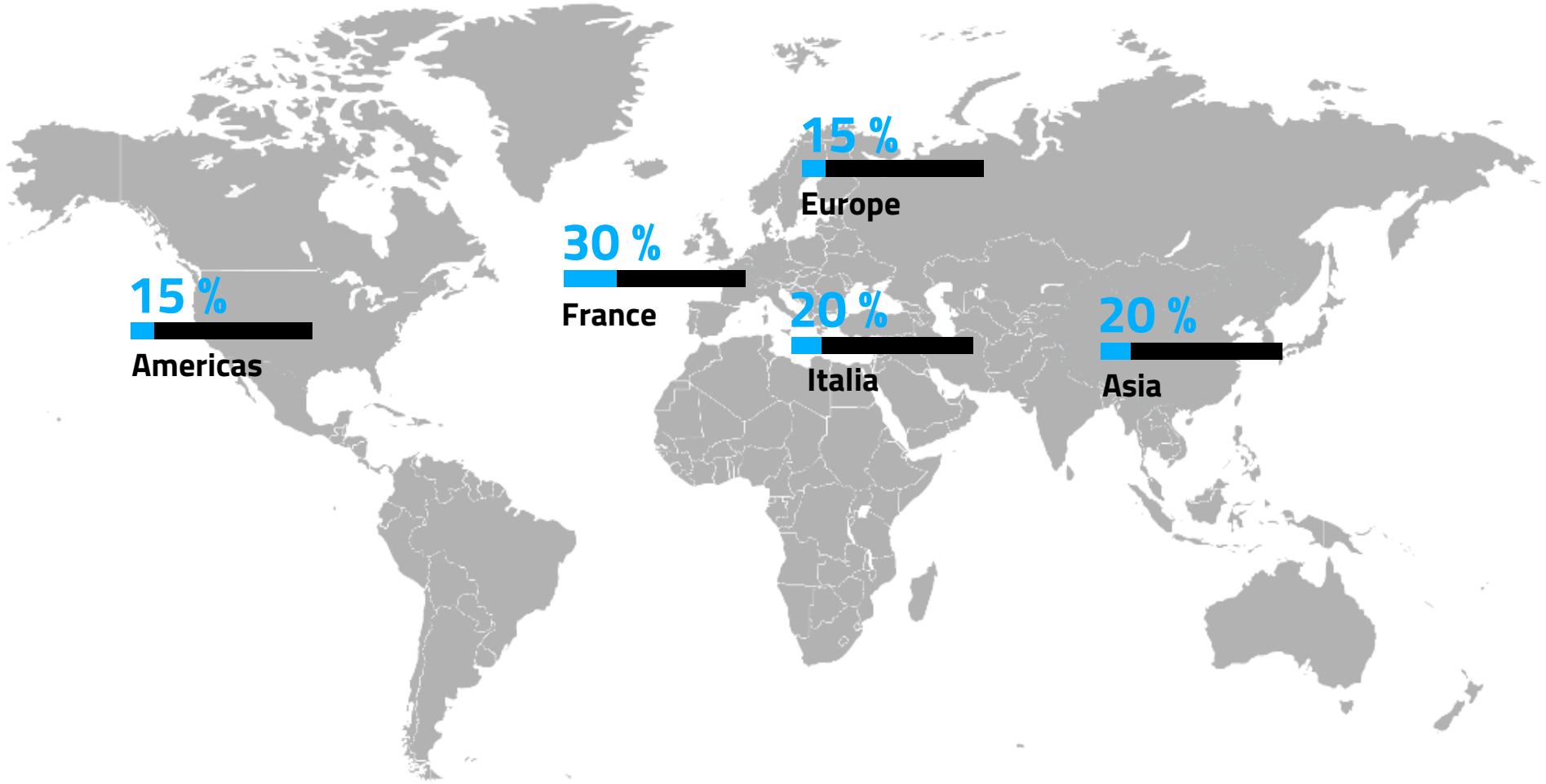
La FRENCH FAB LE COQ VERT PINETTE GROUP

A global footprint



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Global customer base



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Our markets

Transportation















Defense





Infrastructures









Technical Centers | Chemistry | Medical





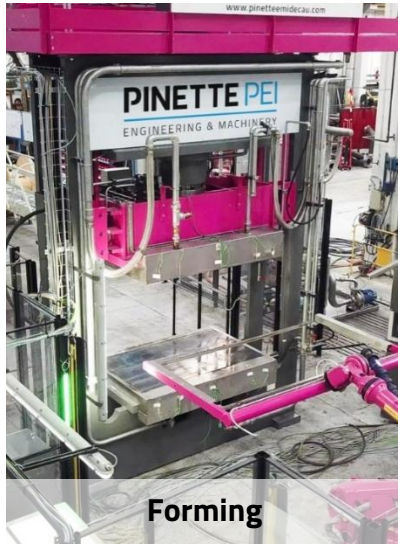


Production Line



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PINETTE GROUP is a Technology Provider - Design and Manufacturing of Machines and Systems



Forming

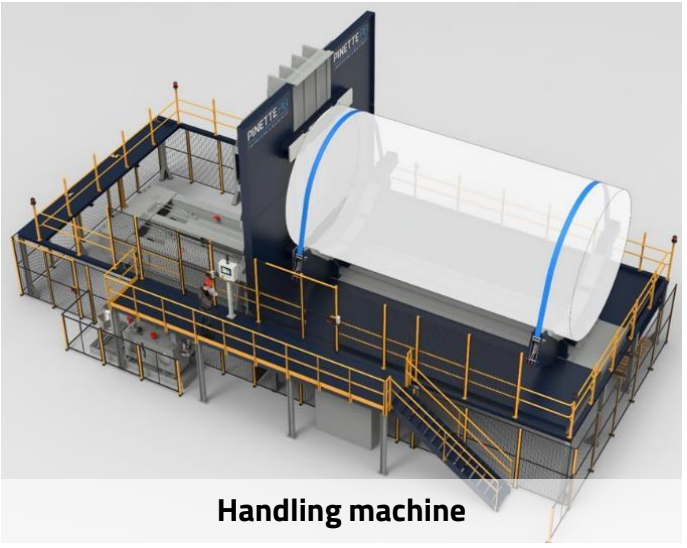


Bending


Assembly /welding / heating / machining


Mechanical test benches


NDT test benches


Handling machine



Automation and Integration



TIFAANI


Waste treatment

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PINETTE GROUP

Our expertise

Engineering

- Mechanical
- Hydraulic
- Fluid mechanic
- Thermal
- Electric
- Automation
- Supervision
- Robotic

Simulation

- Mechanic
- Thermal
- Fluid mechanic

R&D

- Custom made
- Agility
- Innovation

Manufacturing

- Machining
- Welding

System Integration

- Supply chain
- Project Engineering

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Aeronautics Forming and Testing applications

TP consolidation Stamping



Welding KVE INDUCT



Preforming



RTM | C-RTM



Hot Drape Forming



NDT



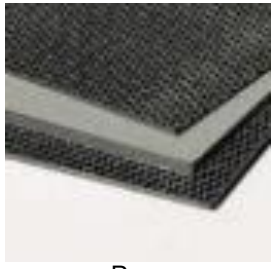
And also

Consolidation 400°C RTL, QSP® Thermoplastic Lay-up, SMC, Composite curing, Honeycomb forming, Laboratory presses

Part examples



QSP® CFRP TP window frame



Pre-consolidated blanks



Omega stiffener



Clip



Helicopter blades



Honeycomb



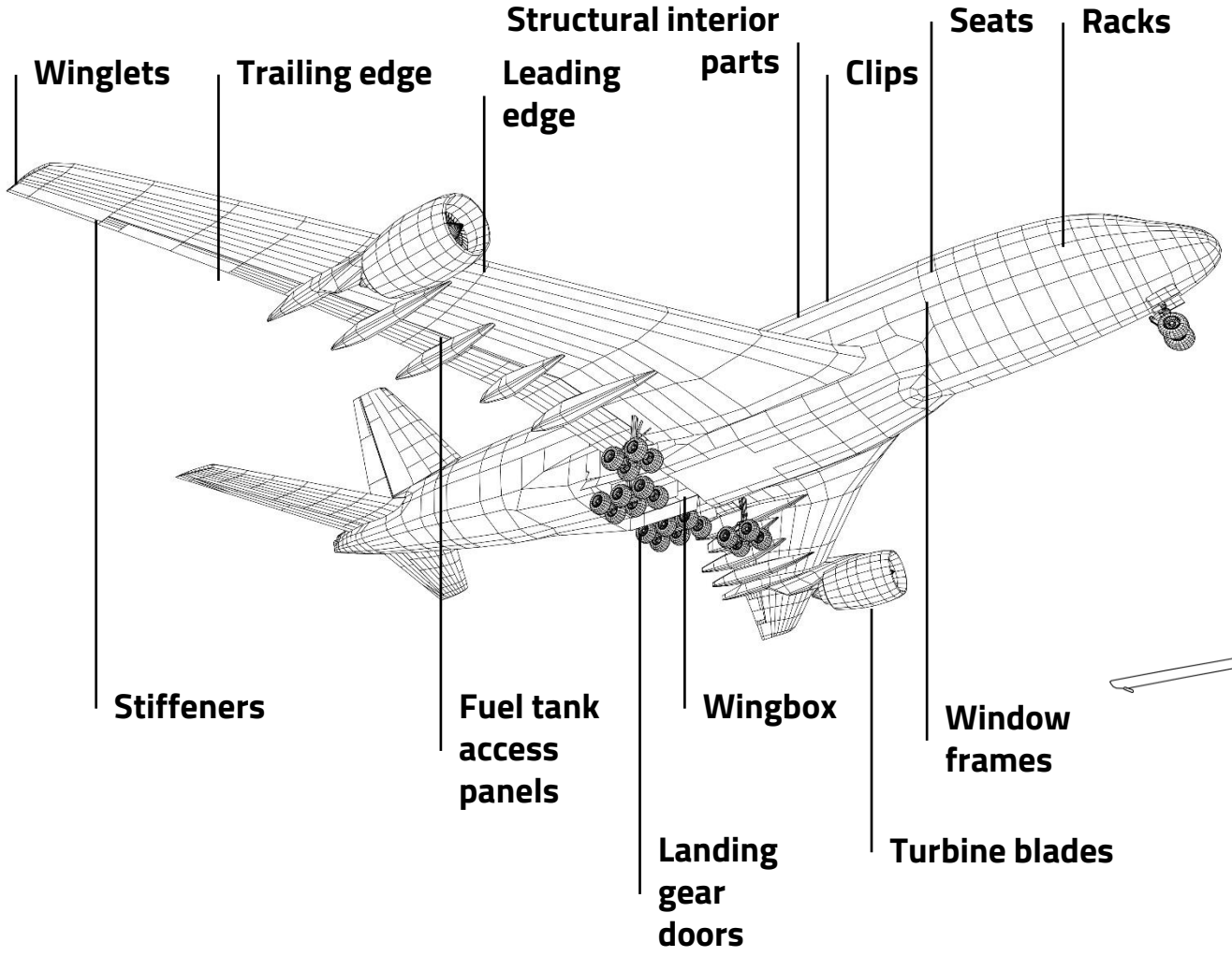
Leading edge

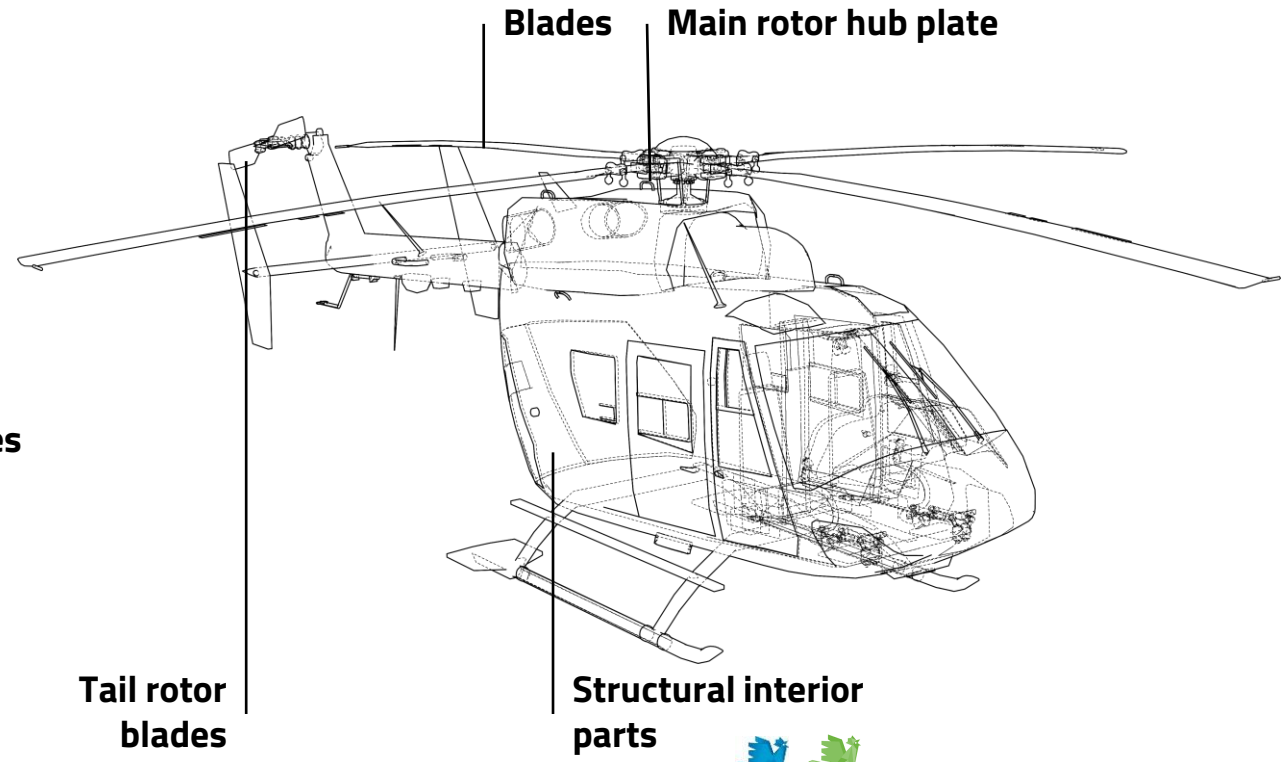


Structural part

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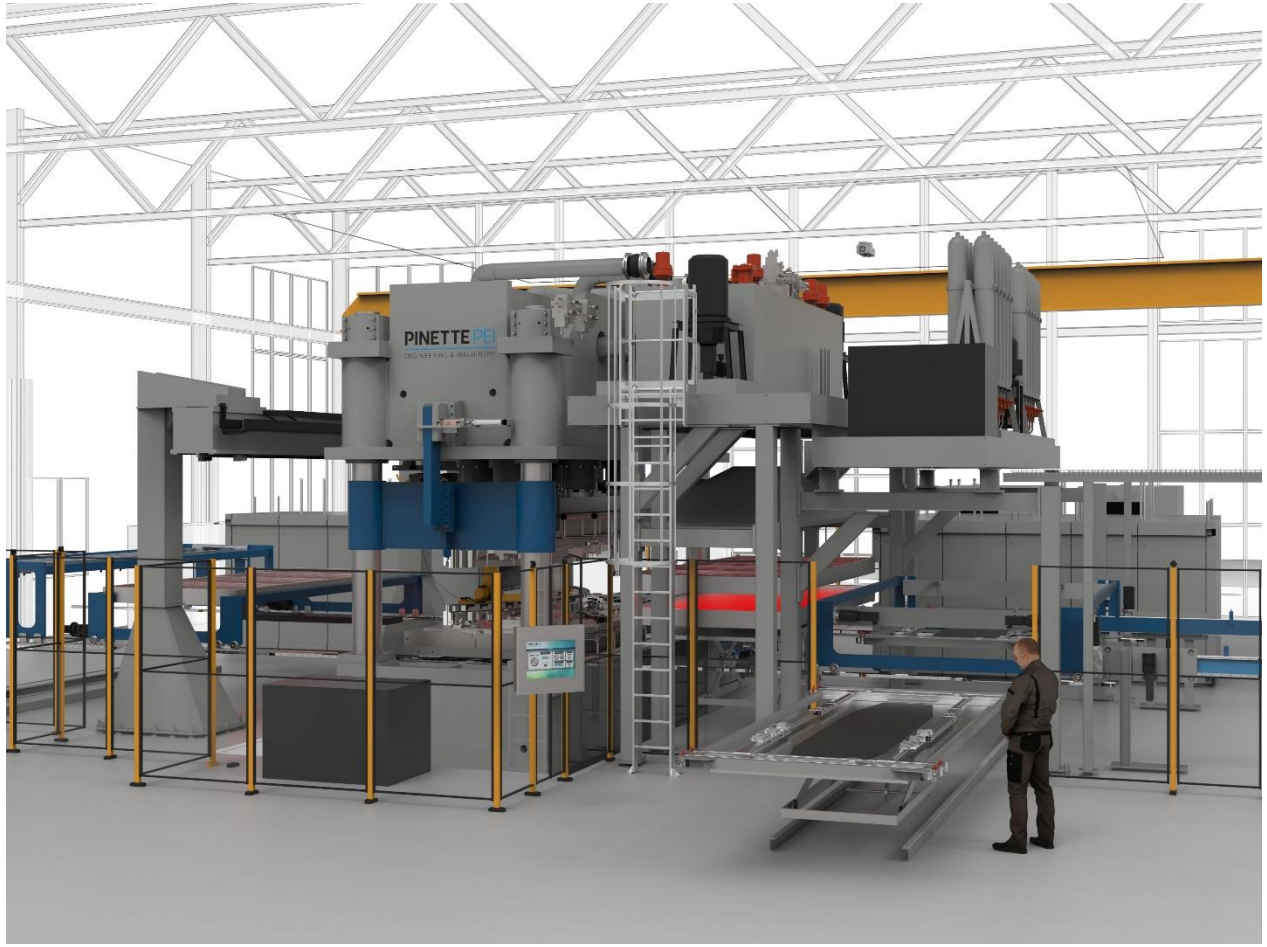
Aircraft parts made on PINETTE GROUP machines





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Forming – stamping



Large scale TP stamping

| Thermoforming of thick thermoplastic composites
    | Variable thickness
    | Large dimensions
    | High production rates.

| Homogeneous heating system

| Welding for long-length profiles.

| Eco-friendly homogeneous cooling of press heating plates.

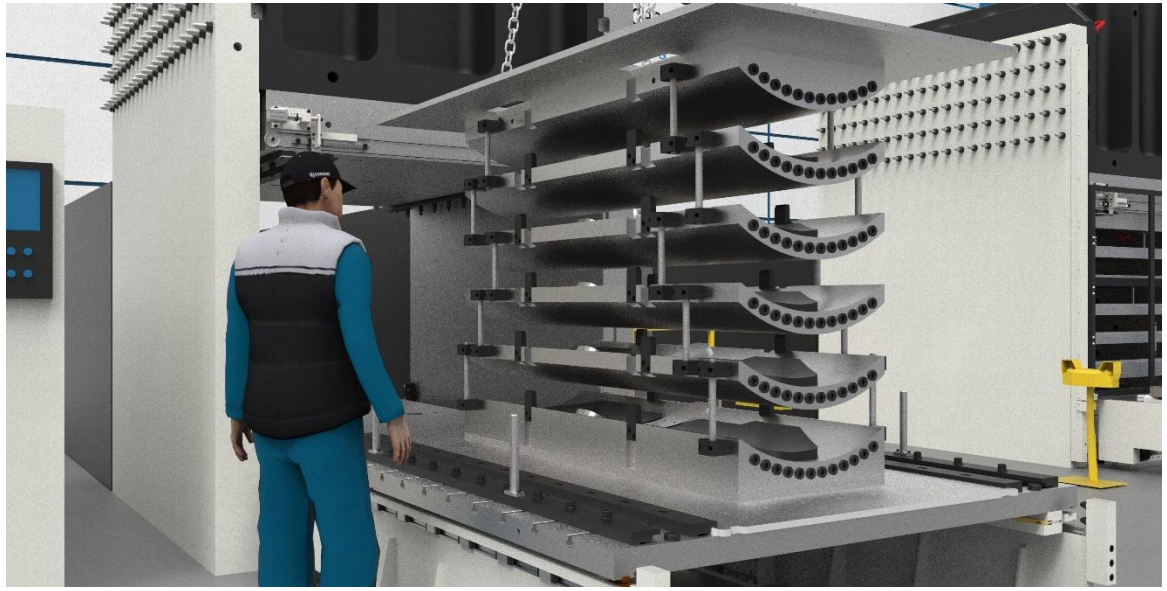
| Optimized energy consumption

| AI for predictive maintenance and process parameter optimization.

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Forming - Armoured Product Press System





Product Features

| High capacity up to 10,000T
| High pressure up to 1400 bars / 20,000 PSI
| Temperature: up to 180°C
| Platen size: up to 2500x1600mm

| Single opening press with multidaylight tool
| Shuttle bed for easy loading/unloading outside of the press

| Thermal oil heating and cooling system
| Data acquisition system

| Turnkey system: press, heating and cooling system, tools

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Forming - waste valoristation equipment

Plastic thermocompression line

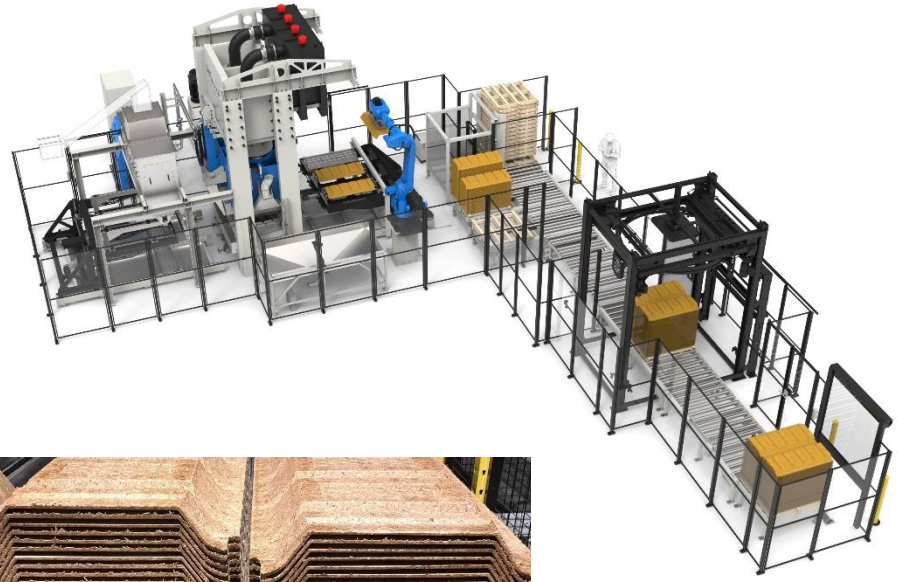
| Plastic
| Composite





Natural fiber compression press

| Wood
| Textile
| Composite





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Forming - Cars and trucks applications

Natural fiber forming



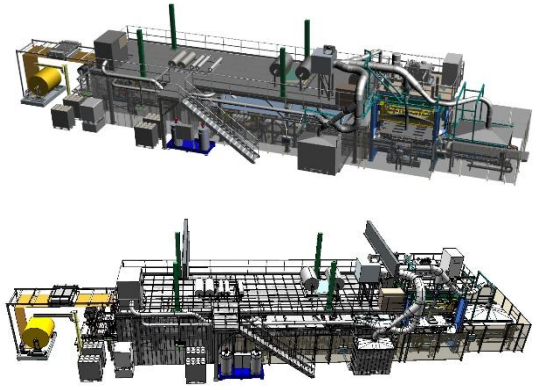
Felt molding



TP Stamping



Headliner forming line



SMC | GMT |BMC



And also:

QSP® on-line TP lay up and forming, Composites thermoforming TS or TP: SMC, C-SMC, BMC, TRE, RTM, HP-RTM, C-RTM, PU foam injection, Oven (contact, IR, air), Transfer system with XYZ or robotic, automatic tool change

Part examples



QSP® CFRP TP Bumper beam



Acoustic wheel well liner



Airflow noise insulation



Headliner



Door panels



Tail gate



Interior floor carpet

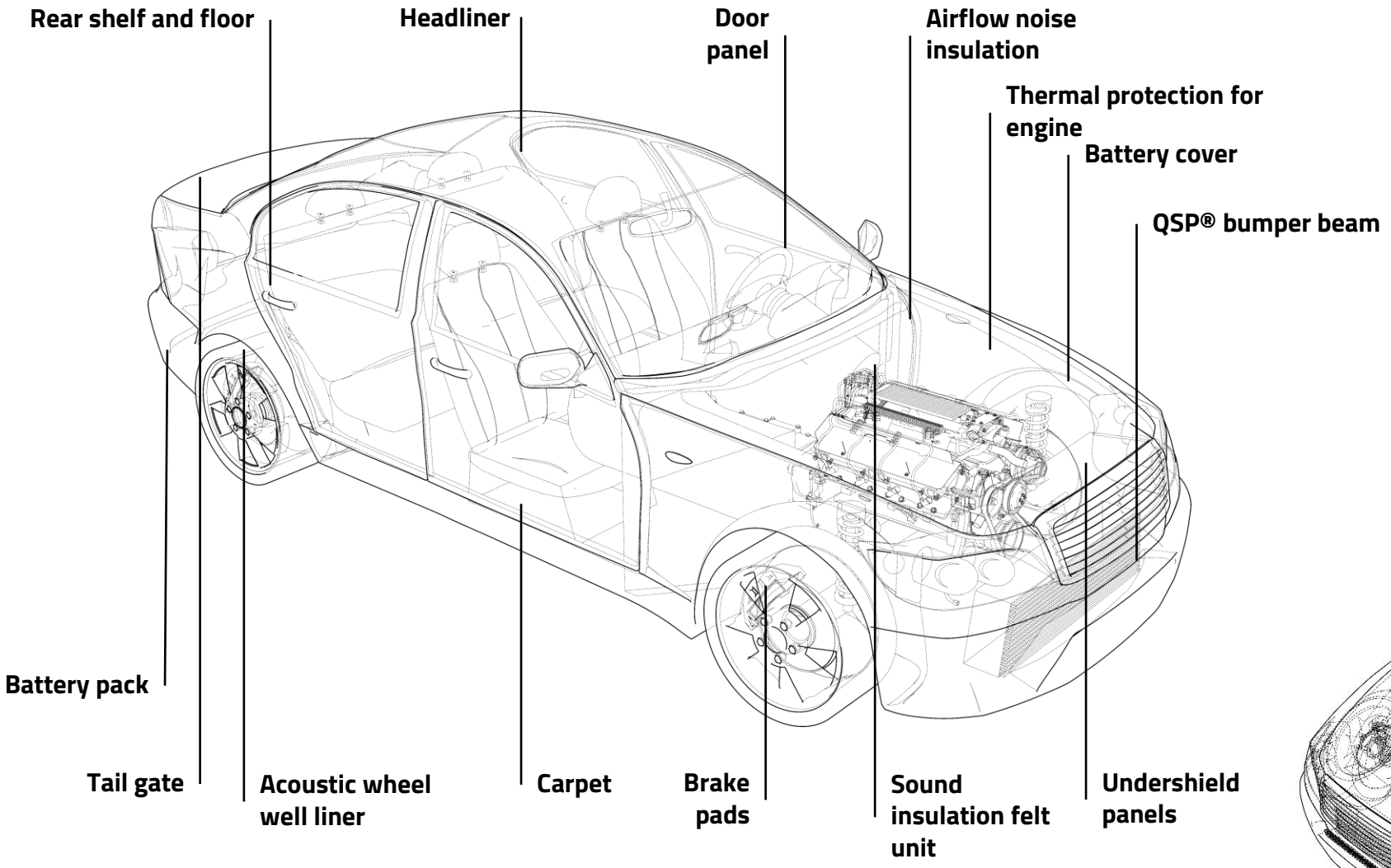


Engine hood insulation

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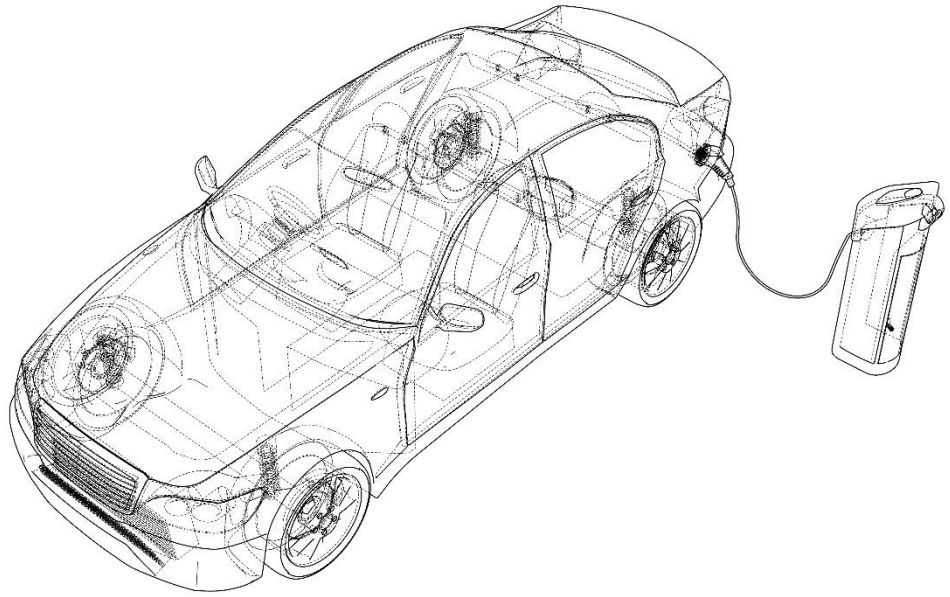
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Cars & Trucks parts made on PINETTE GROUP machines



Electric car components

- Battery pack
- Battery cover
- Airflow low noise insulation
- Lightweight components



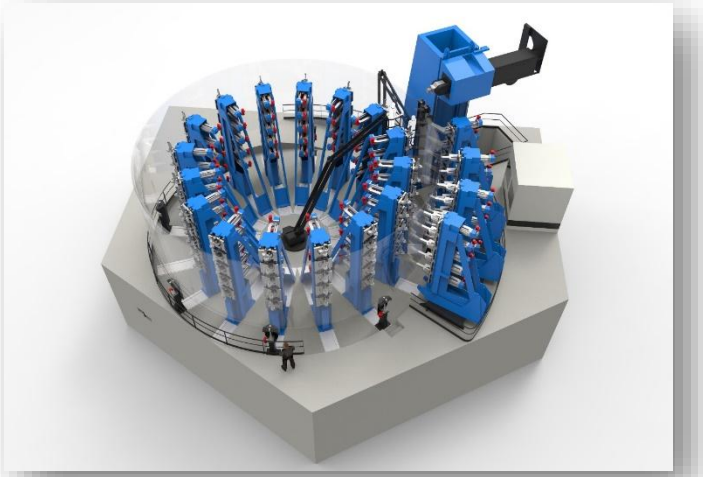
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Assembly equipment



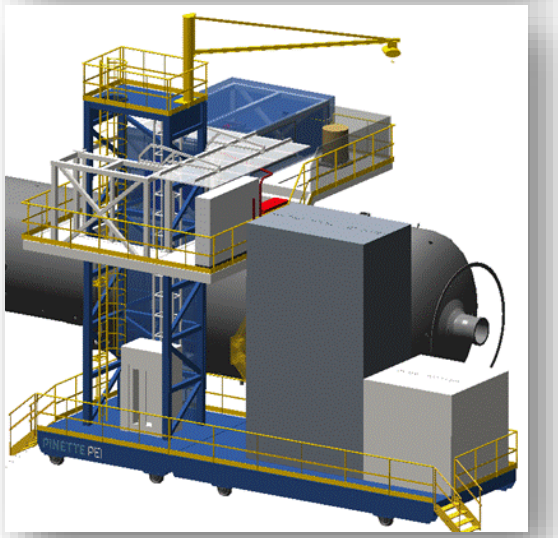
Assembly jig for space industry

| Positioning
| Gluing
| Machining
| Inspection



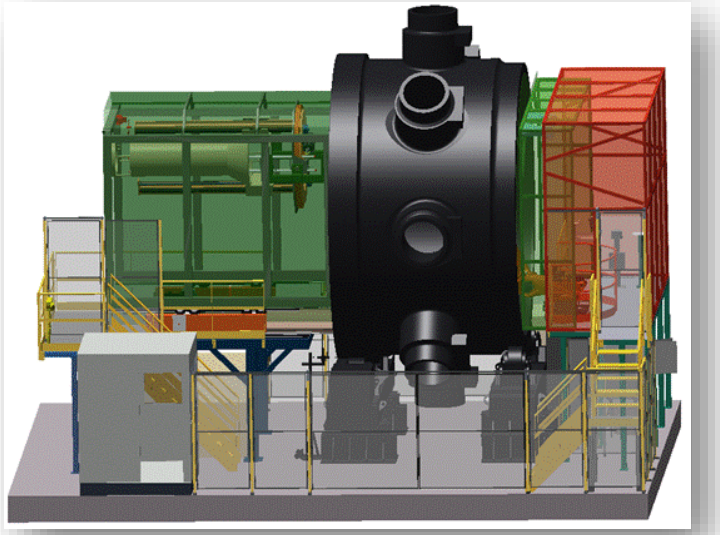
Large assembly equipment for shipbuilding industry

| Positioning
| Heating
| Welding
| Machining
| Grinding
| Inspection



Welding gantry

| Submerged welding
| Height 9m
| 70m stroke



Welding robot

| MAG welding
| Robot
| Safe operator access

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Handling equipment



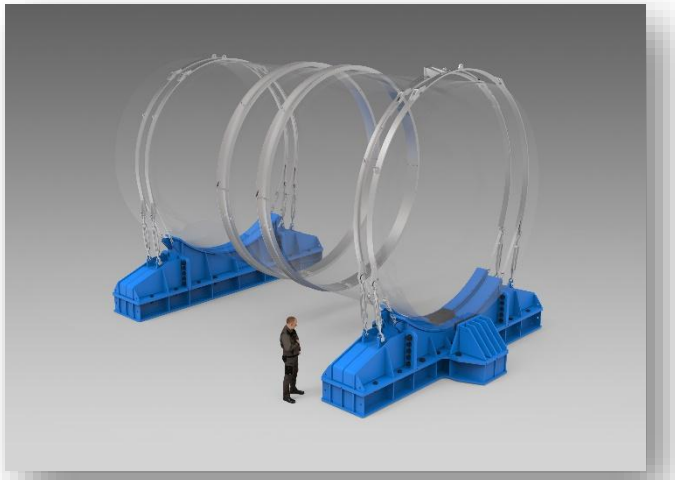
Tilting machine 90

| Capacity 150T
| Fully integrated



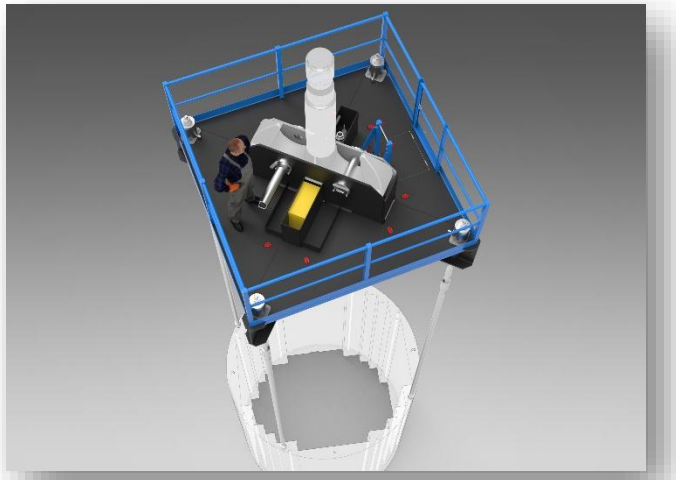
Handling machine 180°

| Capacity 180T
| Multiples sizes capacities



Lifting equipment

| Capacity 600T
| Transportation by road and boat



Lifting machine

| Capacity 60T
| Constraint environement

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NDT test benches



Ultra sound

| Airplane wing
| 100% tested
| Submerged in a pool



Thermography

| Airplance part
| 100% tested
| Faster compared to ultra sounds



Ultra sound

| Space part
| 100% tests
| Outside pool



Eddy current

| Nuclear application

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Mechanical test benches



O&G pipe test bench

| 3000T tension / compression
| Bending 200 T.m
| Temperaturee up to 180 °C
| Internal pressure 3000 bars
| External pressure 3000 bars



Space part test bench

| 4000T tension / compression

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R&D and laboratories



LAB series standard press



Custom and small batch production press



Hand press



Multi-process R&D press

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PINETTE GROUP

Press brake



Electric

| 60T - 180T / 1,6m - 4m
| CNC 2D / 3D
| Pneumatic tool clamping
| Mechanical stops 2 / 4 / 5 / 6 axis
| Laser Control System



Tandem

| Standard or XXL
| Can work together or alone



Hydraulic

| 75T – 320T / 2m – 6m
| CNC 2D / 3D
| Hydraulic tool clamp
| Mechanical stops 2 / 4 / 5 / 6 axis
| Laser Control System



Robotic

| Robot 12Kg up to 400Kg
| 100% PEI integrated
| Dedicated HMI
| Off line programation



XXL

| From 450T x 2m
| Up to 2000T x 12m



Customized

| Specific, based on customer specification

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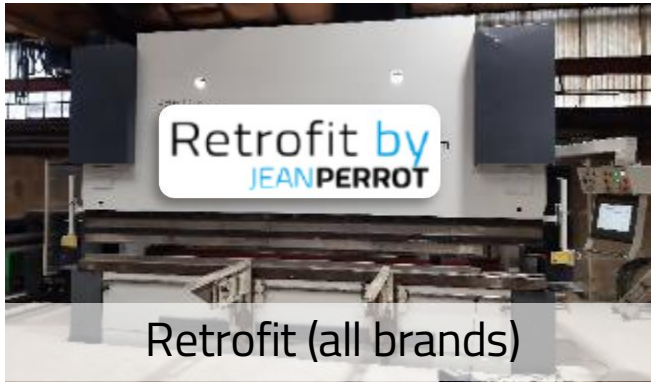


Hydraulic shears



Rolling machines


Rolling machines



Retrofit (all brands)


Tools


Toolbox

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Press

| Domestic waste compression
| Extrusion to separate wet products from dry parts
| Up to 15T/h for 1 machine
| Fully automated



Wet product

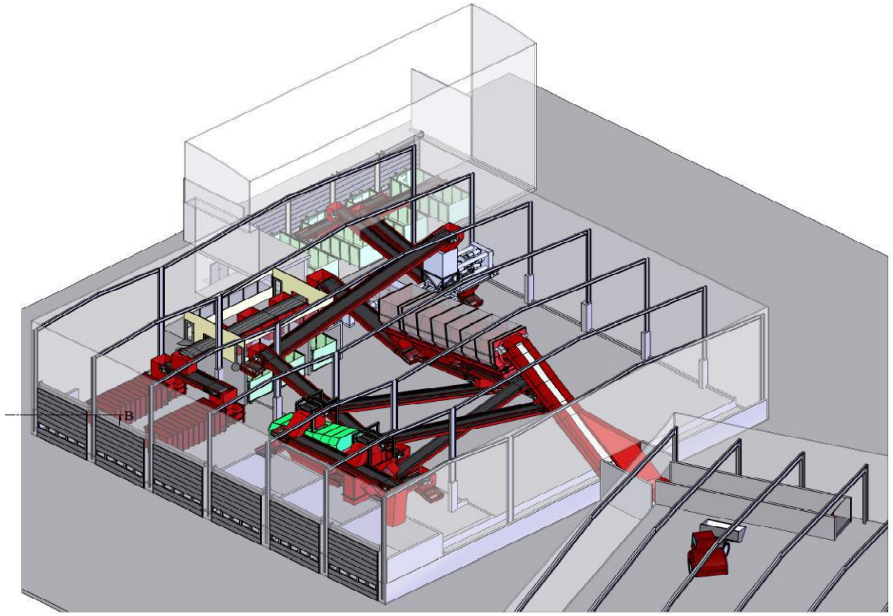


Dry parts



Waste treatment facility

| Capacity 100.000 Tons ./ year
| Equipped with presses
| Equipped with standard machines



Lower treatment costs

- Wet product ➔ tranform to bio gaz
- Dry produc ➔ burned with very low fumes

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Maintenance

| Preventive maintenance
| Maintenance plan
| Reactive maintenance
| Performance surveys and recalibration



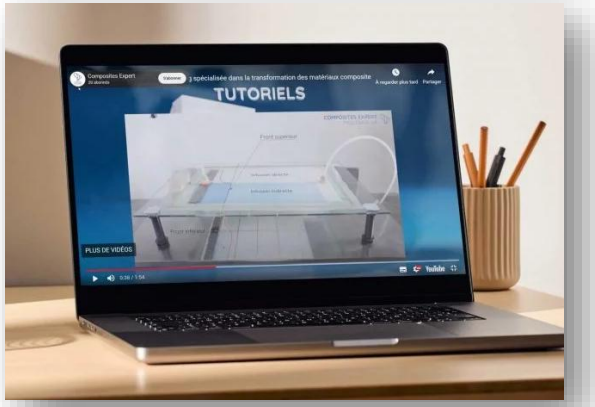
Retrofits

| Control systems
| Mechanical
| Electrical
| Hydraulic
| Safety
| Obsolescence



TIFFANI

| Consolidation
| Stamping
| Sheet Molding Compound (SMC)
| RTM, C-RTM, HP-RTM
| Ballistic plates up to 1400 bar
| Preforming
| Compression of wood particles
| Compression of recycled composites



Composites academy

| Basic Module
| Thermoplastic composites
| Thermoset composites
| Simulators

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Virtual Reality Project Engineering

Visualise in 3D and to scale your new piece of equipment for:

| Design reviews
| Ergonomics
| Co-engineering
| Training



MyPinette for remote monitoring

MyPinette application enables you to connect with your Pinette P.E.I. equipment for:

| Better production monitoring
| Equipment alarms through push notifications
| Better maintenance



Vision Pack for Maintenance

The Vision Pack eases maintenance procedures through Augmented Reality.

| Work with both hands
| Troubleshoot with efficiency
| Save time

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8 R&T engineers

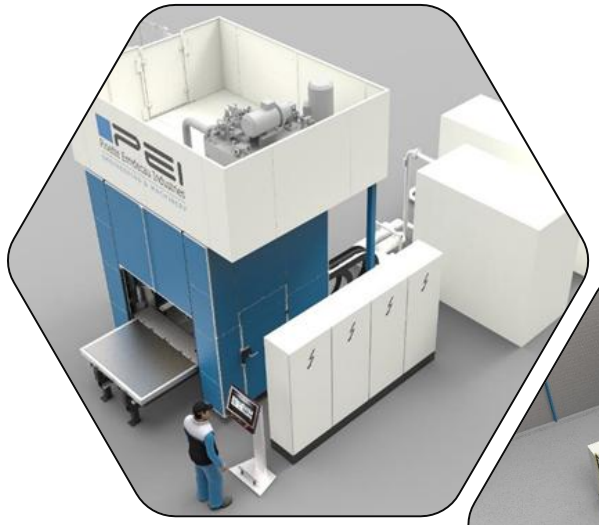
60 engineers & designers in Engineering

Research Fields:

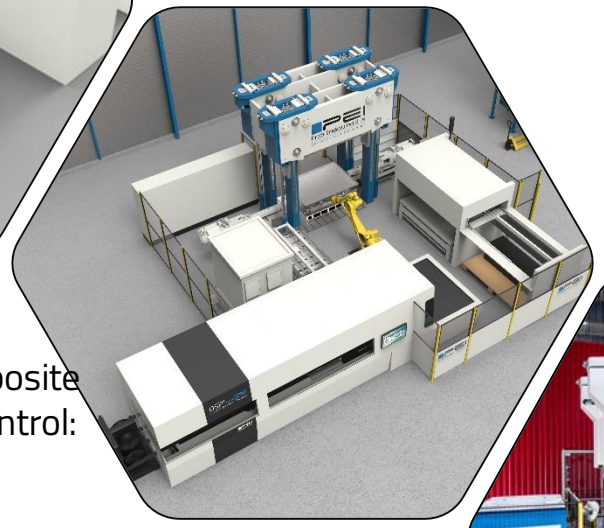
- High speed Carbon fibre forming
- High temperature forming
- Laser-controlled aluminum bending
- Low energy consumption machinery
- Augmented and virtual reality

Open innovation with technical centres and institutions

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400°C RTL
Consolidation for
PEEK thermoplastic composite
Precision temperature control:
±1°C



QSP®
Pre forming and stamping
CFRP thermoplastic
Net Shape



C-RTM
High production rate RTM parts
TS or TP



Thermography NDT
30% faster than
ultrasonic

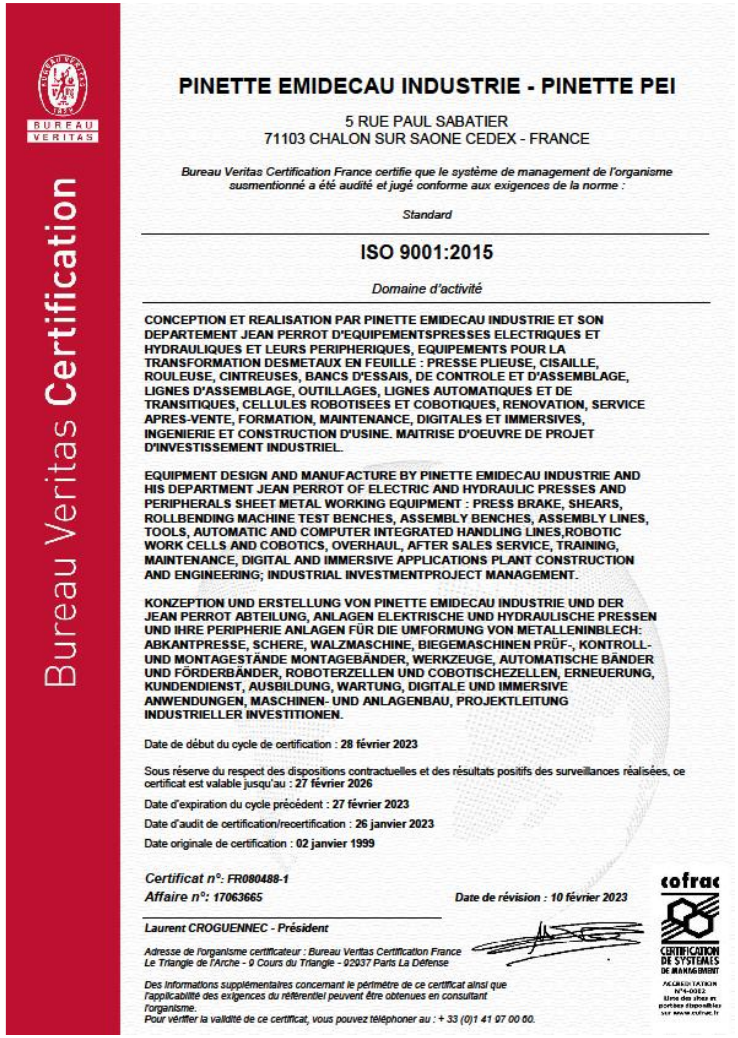


Industry 4.0
Immersive Design review
Remote maintenance
Save time
Save trip
Save money

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Certification ISO 9001 V2015

Depuis le 2 Janvier 1999 - Renouvelée le 28 Février 2023



Bureau Veritas Certification

PINETTE EMIDECAU INDUSTRIE - PINETTE PEI

5 RUE PAUL SABATIER
71103 CHALON SUR SAONE CEDEX - FRANCE

Bureau Veritas Certification France certifie que le système de management de l'organisme susmentionné a été audité et jugé conforme aux exigences de la norme :

Standard

ISO 9001:2015

Domaine d'activité

CONCEPTION ET REALISATION PAR PINETTE EMIDECAU INDUSTRIE ET SON DEPARTEMENT JEAN PERROT D'EQUIPEMENTSPRESSES ELECTRIQUES ET HYDRAULIQUES ET LEURS PERIPHERIQUES, EQUIPEMENTS POUR LA TRANSFORMATION DESMETAUX EN FEUILLE : PRESSE PLIEUSE, CISAILLE, ROULEUSE, CINTREUSES, BANCS D'ESSAIS, DE CONTROLE ET D'ASSEMBLAGE, LIGNES D'ASSEMBLAGE, OUTILLAGES, LIGNES AUTOMATIQUES ET DE TRANSITIQUES, CELLULES ROBOTISEES ET COBOTIQUES, RENOVATION, SERVICE APRES-VENTE, FORMATION, MAINTENANCE, DIGITALES ET IMMERSIVES, INGENIERIE ET CONSTRUCTION D'USINE. MAITRISE D'OEUVRE DE PROJET D'INVESTISSEMENT INDUSTRIEL.

EQUIPMENT DESIGN AND MANUFACTURE BY PINETTE EMIDECAU INDUSTRIE AND HIS DEPARTMENT JEAN PERROT OF ELECTRIC AND HYDRAULIC PRESSES AND PERIPHERALS SHEET METAL WORKING EQUIPMENT : PRESS BRAKE, SHEARS, ROLLBENDING MACHINE TEST BENCHES, ASSEMBLY BENCHES, ASSEMBLY LINES, TOOLS, AUTOMATIC AND COMPUTER INTEGRATED HANDLING LINES,ROBOTIC WORK CELLS AND COBOTICS, OVERHAUL, AFTER SALES SERVICE, TRAINING, MAINTENANCE, DIGITAL AND IMMERSIVE APPLICATIONS PLANT CONSTRUCTION AND ENGINEERING; INDUSTRIAL INVESTMENTPROJECT MANAGEMENT.

KONZEPTION UND ERSTELLUNG VON PINETTE EMIDECAU INDUSTRIE UND DER JEAN PERROT ABTEILUNG, ANLAGEN ELEKTRISCHE UND HYDRAULISCHE PRESSEN UND IHRE PERIPHERIE ANLAGEN FÜR DIE UMFORMUNG VON METALLENINBLECH: ABKANTPRESSE, SCHERE, WALZMASCHINE, BIEGEMASCHINEN PRÜF-, KONTROLL- UND MONTAGESTÄNDE MONTAGEBÄNDER, WERKZEUGE, AUTOMATISCHE BÄNDER UND FÖRDERBÄNDER, ROBOTERZELLEN UND COBOTISCHEZELLEN, ERNEUERUNG, KUNDENDIENST, AUSBILDUNG, WARTUNG, DIGITALE UND IMMERSIVE ANWENDUNGEN, MASCHINEN- UND ANLAGENBAU, PROJEKTLEITUNG INDUSTRIELLER INVESTITIONEN.

Date de début du cycle de certification : **28 février 2023**

Sous réserve du respect des dispositions contractuelles et des résultats positifs des surveillances réalisées, ce certificat est valable jusqu'au : **27 février 2026**

Date d'expiration du cycle précédent : **27 février 2023**

Date d'audit de certification/recertification : **26 janvier 2023**

Date originale de certification : **02 janvier 1999**

Certificat n°: FR080488-1
Affaire n°: 17063665

Date de révision : 10 février 2023

Laurent CROGUENNEC - Président

Adresse de l'organisme certificateur : Bureau Veritas Certification France
Le Triangle de l'Arche - 9 Cours du Triangle - 92937 Paris La Défense

Des informations supplémentaires concernant le périmètre de ce certificat ainsi que l'applicabilité des exigences du référentiel peuvent être obtenues en consultant l'organisme.
Pour vérifier la validité de ce certificat, vous pouvez téléphoner au : + 33 (0)1 41 97 00 60.

cofrac
CERTIFICATION DE SYSTÈMES DE MANAGEMENT

Engagement ECOVADIS



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La FRENCH FAB LE COQ VERT

PINETTE GROUP

Our Mission & Values

We are a European technology provider, we ensure a step ahead to our global customers' industrial processes
We develop our relations over time, and follow on from a sustainable approach

Expertise
Excel in our field of competence
Master the processes for the benefit of our customers
Acquire, develop, share and pass on knowledge

Cooperation
Understand expectations and collaborate
Help each other to be ultimately successfull
Listen and respect

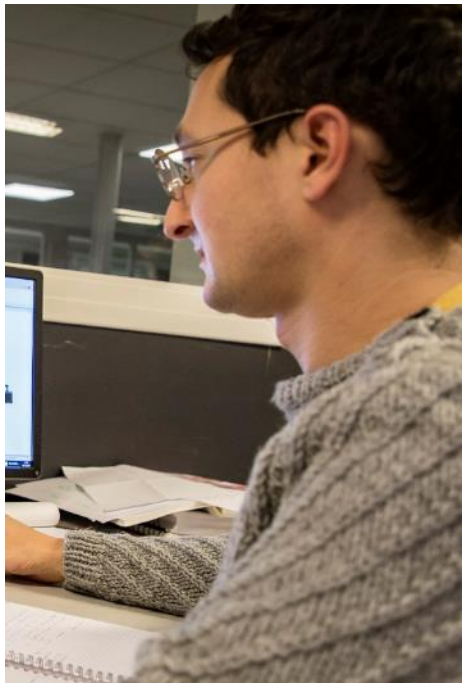
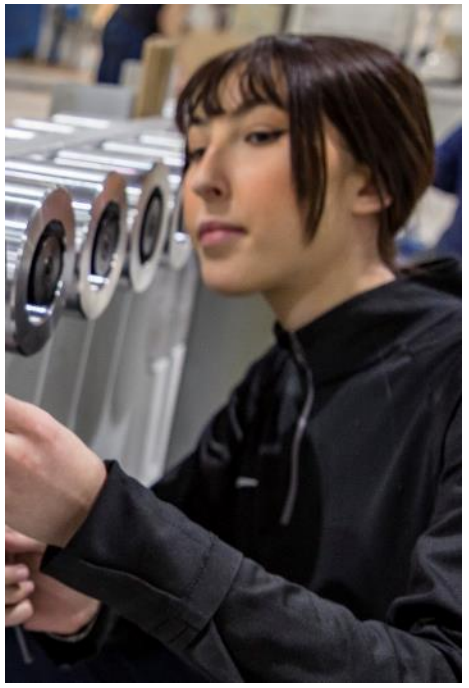
Adaptability
Be responsive to customers' demands
Be astute in the solutions

Creativity
Pay close attention to industry trends
Anticipate technological evolutions
Offer innovative and sustainable solutions

Tenacity
Have the sense of commitment and of work well done
Maintain confidence in all circumstances





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3 main areas of commitment
12 Challenges to becoming a European leader in the industry of the future

Developed in 2022 in partnership with our stakeholders, our CSR strategy has helped us to formalize the ambitions of the PINETTE PEI Group so that it can achieve its goals, conduct its operations with respect for people and the planet, and thus create value for all stakeholders.
It aims to make the PINETTE PEI Group, in the near future, one of the European leaders in Corporate Social Responsibility in the sectors in which it operates.

PINETTE GROUP for a suitable ecosystem

Encourage/develop a sustainable business ecosystem driven by innovation and responsibility

- Encourage strong, relevant governance,
- Put technology to work for a safer world
- Conceive innovative ans sustainable industrial products and services
- Abide by business ethics and fight corruption



PINETTE GROUP for people

Improve the health, well-being and fullfilement of our employees in their work and beyond

- Strengthen social practices: Occupational Health and Safety and Quality of Life at Work,
- Develop talents and skills,
- Fight all forms of discrimination,
- Respect human rights and commitments in the territories in which we are based



PINETTE GROUP for the planet

Limit negative impact on the environment by adopting an approach with two aspects: At home and in our value chain

- Reduce the Group's carbon footprint,
- Keep CRS at the heart of our R&D activities,
- Develop environmentally responsible products and services: Weight reduction/Retrofitting/Re-use
- Manage our waste ethically



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Objectif CO_2

PINETTE PEI s'engage

PINETTE PEI commits itself to reduce the use of natural resources and energies by producing optimised machines and processes, which in turn contribute to limit carbon footprint and material consumption for our customers

SUSTAINABLE DEVELOPMENT GOALS









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La FRENCH FAB LE COQ VERT PINETTE GROUP



Thank you

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