

Support

The specialists in structure work





Our structural shop

Our approved structural shops ACC COLUMBIA – Support in Wegberg (part 145), in Schwelm (part 21G and part 145) and Mitterskirchen (part 145) cover the entire bandwidth of sheet metal works and component repairs, such as milling, cutting and aviation welding services, minor modifications and huge structural repairs on virtually all types and makes of aircraft including production and prototyping of parts and components of various complexity. Highly trained and motivated personnel who are trained internally guaranteeing a high degree of quality.





Approval

ACC COLUMBIA – Support part 145 capability list without aircraft type limitations. Thus we are able to work on components of any aircraft type.



Download

You can download the complete capability list under the following link:



www.acc-columbiajet.com/downloads

If you have any questions, please do not hesitate to contact us.

C1	Air Cond & Press
C4	Doors / Hatches
C5	Electrical Power
C6	Equipment
C7	Engine – APU
C8	Flight Controls
C9	Fuel
C10	Helicopters – Rotors
C12	Hydraulic Power
C13	Indicating / Recording Systems
C14	Landing Gear
C15	Oxygen
C16	Propellers
C17	Pneumatic & Vacuum
C18	Protection ice / rain / fire
C20	Structural
D1	Non-Destructive Testing



Component Maintenance

ACC COLUMBIA – Support assists operators of private as well as commercial aircraft and EASA Part M or part 145 approved maintenance organizations in the maintenance of component repair and modification of metal and composite construction.

Our service range:

- 1600 sqm workshop, fully equipped for metal and composite work incl. heat treatment plant
- Damage appraisal by certifying staff incl. damage assessment
- Reporting including cost estimates
- Spare and standard parts procurement
- Manufacture of parts as part of maintenance
- Delivery of components with detailed documentation, photo reports including release certification – (EASA FORM 1)
- Complete high quality repairs and modification work performed by our skilled Personnel

Composite Maintenance

At our composite workshop we can also carry out fibreglass and carbon fibre repairs on components.

By using a hot bonder, we are also able to carry out fibreglass and carbon fibre repairs on the aircraft at the customer's site.

With this special tool we are able to repair composite parts which must be carried out in a vacuum and under the influence of heat.



Manifold Sheet Metal Shapes

Using our laser cutting expertise and modern machinery, we are capable to serve with flexibility to realize highly complex plain geometries. Our team manifests nearly all imaginable structural sheet metal shapes, fulfilling the customer's vision by bending the plain sheets of metal, supported by CAD, and utilizing modern bending machinery. Paired with our long-term experience and know-how of aviation materials we perform manufacturing process optimization leading to an attractive product result of excellent quality.

We finish our parts, using anodizing and chemical processes, appropriate to the material, to protect our creation.

Each produced part, based on approved or even on non-approved design data, can be certified with EASA Form 1.





Metallic Process Expertise

With our EASA and LBA approved Production Organization we access to our metallic expertise to make your special orders.

- Mechanical processing – turning, milling, grinding, hollowing, sandblasting
- Welding – Aviation approved welding process 141 / TIG for all well-known aviation materials
- Assembling and joining of many various components as part of complex airborne applications of our customer base
- NDT Inspections before and after processing parts and components
- Hot and cold forming, bending, edging, rounding, widening
- Chemical processing – paint stripping, painting, sealing
- Distribution of highly resilient steel tubes CPDUR®1000 approved for aviation purposes
- Heat treatment – hardening, tempering, stress relief annealing
- Hard- and soft soldering of equal or different materials

Customer support on site

In case any problems occur on site, we are able to assist our customers quickly and flexibly. Our specialists travel to any location to work with you to find a fast solution.

We are supporting airlines and other MRO providers in terms of the support for C and D checks, complex airframe modifications, repairs and structural maintenance and repairs of components.



Modifications

Installations, modifications and retrofits are part of the company's speciality as well as, for example the installation of components regarding the VIP area or large modifications within the field of special installations such as a camera upgrade.

This not only includes the complete retrofit installation but also the custom-made manufacturing of individual parts and components.



Global flaps

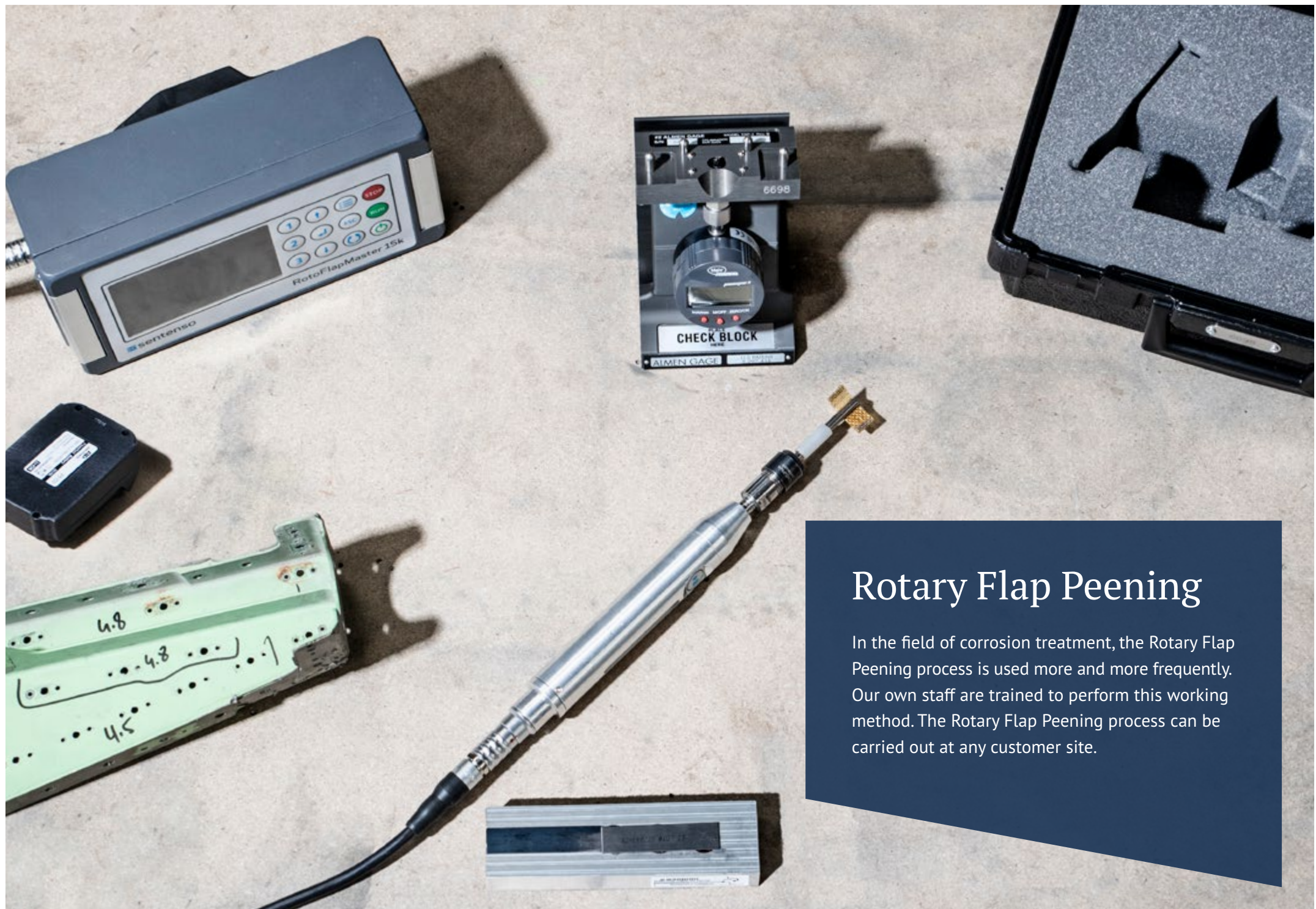
In recent years we have specialized in performing Global flap repairs and modifications including:

- SB Special check/modification – Flaps – Corrosion protection and drainage improvement for the Flaps
- SB Modification – Flaps – Inspection and replacement of the inner Flap Auxiliary-Rib Bushing.

Our service for customers:

- Damage appraisal by certifying staff incl. damage assessment
- Reporting including cost estimates
- Spare and standard parts procurement
- Communication with the manufacturer Bombardier
- The entire repair is carried out by ACJ staff, including Rotary Flap Peening and NDT
- Delivery of the flap with detailed documentation, photo reports including release certification – (EASA FORM 1)





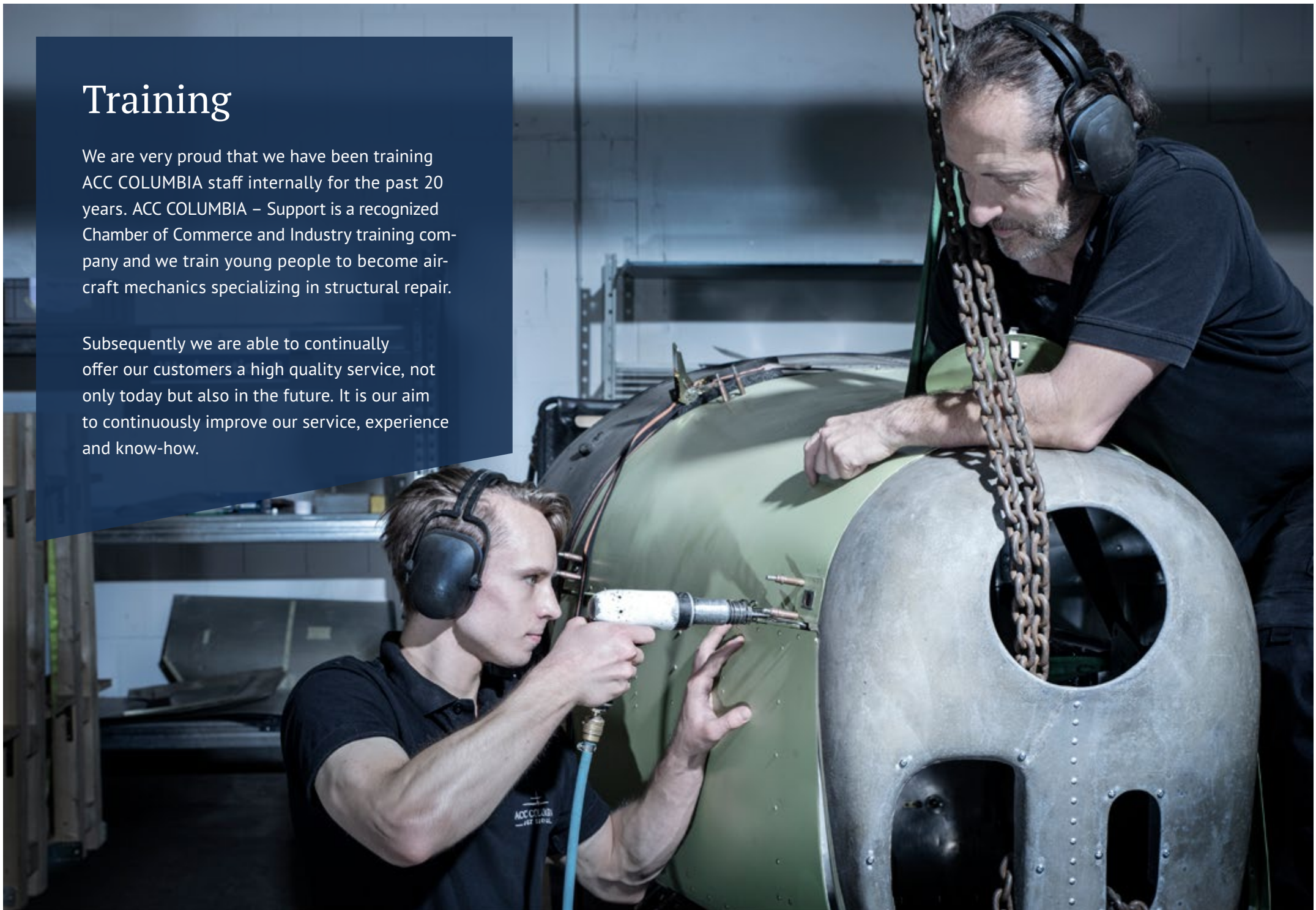
Rotary Flap Peening

In the field of corrosion treatment, the Rotary Flap Peening process is used more and more frequently. Our own staff are trained to perform this working method. The Rotary Flap Peening process can be carried out at any customer site.

Training

We are very proud that we have been training ACC COLUMBIA staff internally for the past 20 years. ACC COLUMBIA – Support is a recognized Chamber of Commerce and Industry training company and we train young people to become aircraft mechanics specializing in structural repair.

Subsequently we are able to continually offer our customers a high quality service, not only today but also in the future. It is our aim to continuously improve our service, experience and know-how.



Supply of temporary workers

Today's job market conditions require a high degree of flexibility in terms of competitiveness. Especially in the area of C- and D- checks, companies should have the opportunity to access experienced and skilled personnel.

We support customers in this endeavour! Since August 2012 we offer the supply of temporary workers under § 1 of German Temporary Employment Act.

Due to our long experience as an approved EASA part 145 organization, we are able to support your company with skilled and motivated staff and solution-oriented services.





ACC COLUMBIA
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