DORNIER AVIATION NIGERIA AIEP LTD.

DORNIER AVIATION NIGERIA AIEP LIMITED
DANA
20th
ANNIVERSARY
KADUNA
1979 - 1999

Customer Information

Incorporated in 1979 under the Nigerian Companies Decree of 1968, with 60:40 ratio of foreign to Nigerian Shareholders, Dornier Aviation Nigeria AIEP Limited (DANA) has grown to become Nigeria's leading aeronautical complex. DANA's initial capitalisation of N 50.000 has been increased to N 260 Million in 1997.

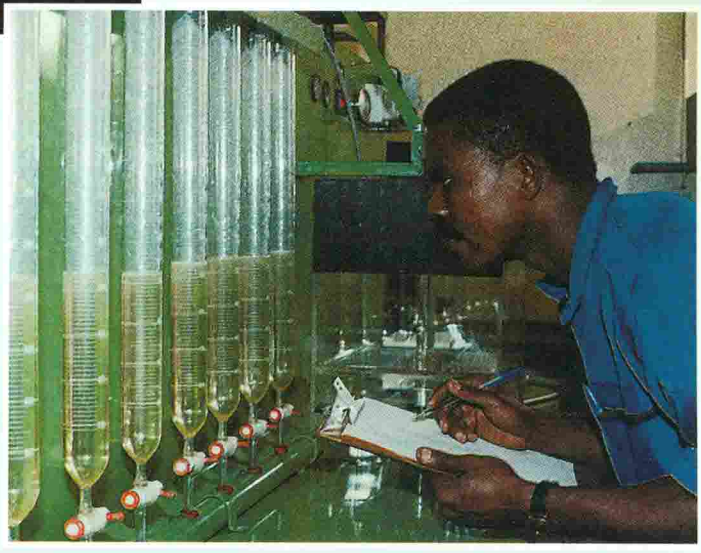
In addition to regular and spot charter operations DANA provides maintenance and training services for owners of DORNIER aircraft as well as high quality aircraft service and maintenance support to airlines, charter companies and private aircraft owners in Nigeria and the West-African Subregion. DANA has developed and produced the Air Beetle Ab-initio-Trainer Aircraft and supports the operation, including modifications for the extension of the Training-syllabus.

THE DANA GENERAL AVIATION CENTRE

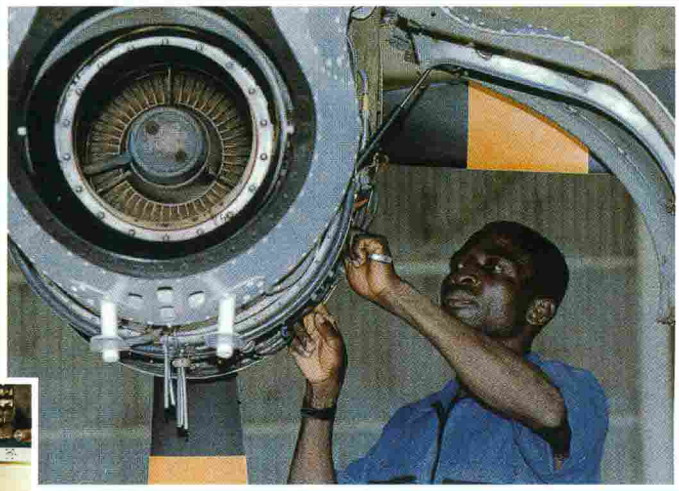
The headquarters of DANA is located at the Kaduna Old Airport, Nigeria. The facility covers several hectares and the infrastructure consists of three Office building complexes, five hangars, an aircraft production facility, workshops for aircraft and non aircraft related work, stores, a training centre, fire and rescue facility, fuel station and a large apron.

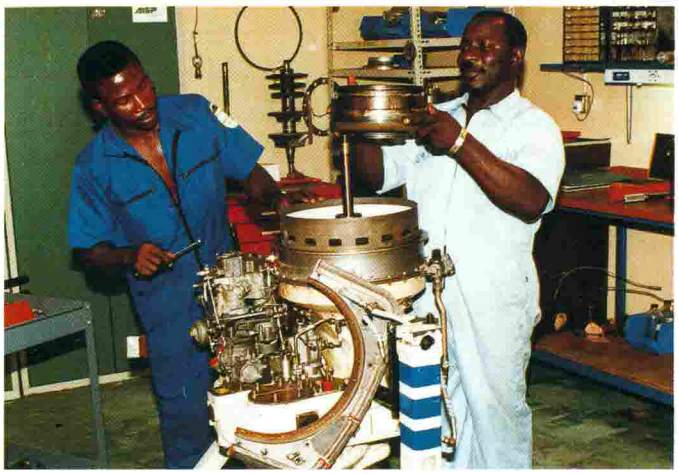
Five hangars of assorted sizes are on the site. One of which houses the Nigerian Air Border Patrol operation, which is based within the DANA complex. The remaining hangars can accept aircraft up to turbo commuter/corporate jet size. All hangars are equipped with power, air and lighting and supported by several dedicated workshops for: avionics, engines, fuel and hydraulic components and batteries. All workshops are equipped for the level of work they are approved to carry out and can offer combined services not obtainable elsewhere in Nigeria.

DANA is an approved Maintenance Organisation with a team of licensed aircraft engineers and technicans capable of offering full aircraft maintenance support on twenty-one (21) different aircraft types, and is the only DORNIER aircraft Service Centre in Africa and one of the three Allied Signal Engines (Garrett) major Service Centres in the Continent.



The engine workshop is equipped and approved by the manufactures and the FCAA to carry out hot - section inspections and repairs on Pratt & Whitney Canada PT6 and Garrett TPE 331 engines.





Parts support is provided by a dedicated, climate controlled store building which is computer linked for efficient management and stores control.

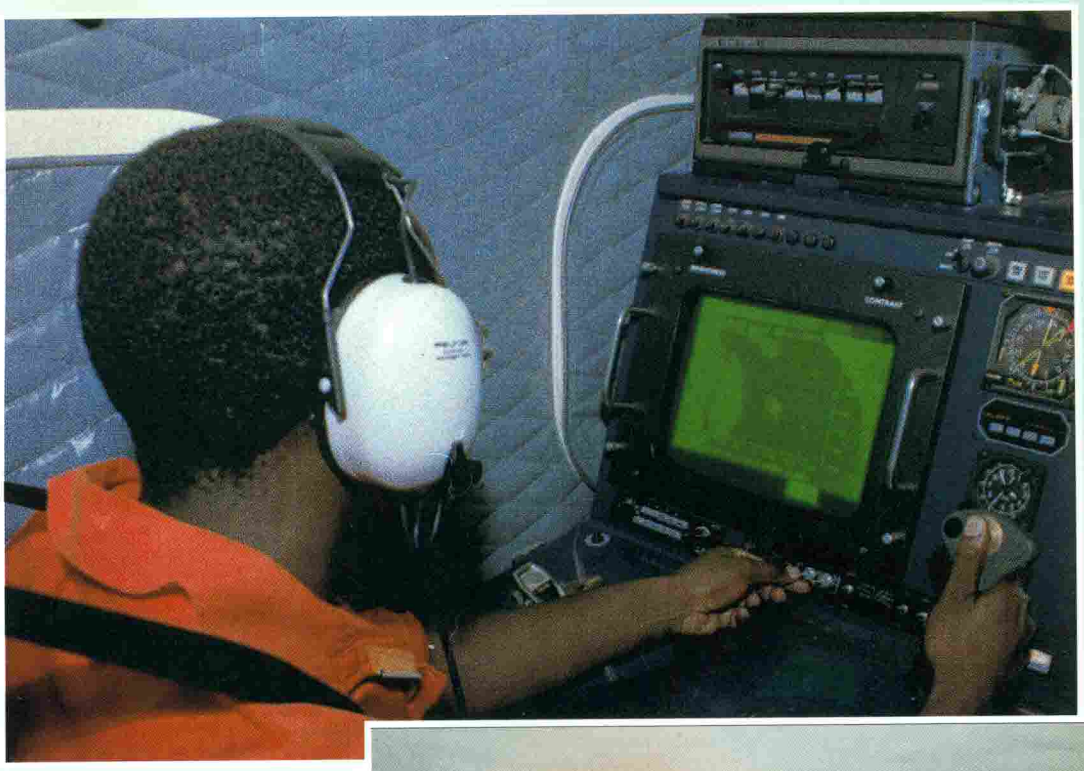
There ist sufficient hard surfaced apron area for parking several aircraft of narrow body commercial jet size with taxiways connecting the runways and the hangars.

We operate our own fire and rescue service and provide fuel from our own fuel station.

The runway is lit and the lights can be activated if request is made to DANA for night operations.

THE DANA TRAINING CENTRE

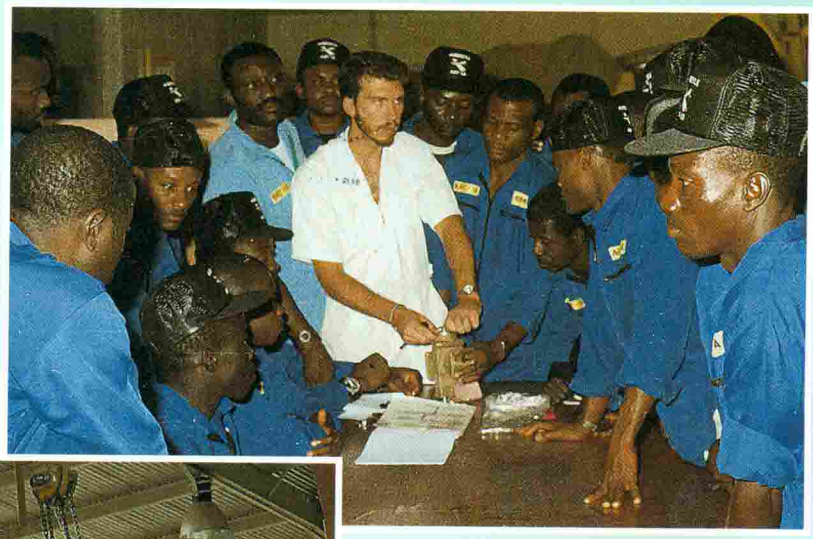
The DANA Training Centre was established in 1986 as a Centre for technology transfer and is approved by the FCAA (Federal Civil Aviation Authority) to conduct type courses on DORNIER aircraft, TPE 331, PT6 engines and the Schweizer Ag-cat 164B.



DANA has been involved in training Nigerian Military and also civilian pilots and engineers since 1986 and is able to offer training courses tailored to its client's requirements, as a commercial service.

THE DANA TRAINING CENTRE

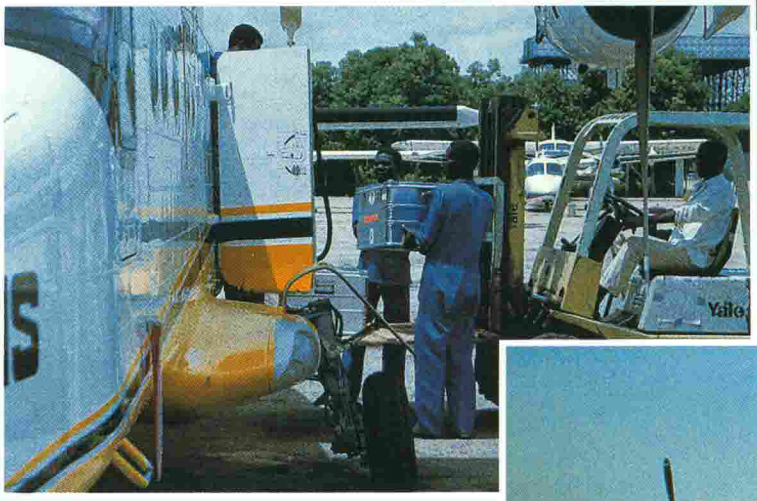
The Centre's facilities include three large air conditioned classrooms, well equipped with audio visual projectors and with modern video support.



The Centre is operated by full-time instructor pilots and technical instructors. Training courses incorporate instruction on the Centre's procedure trainers (simulators), single engine aircraft ATC 710, Helicopter - ATC 112H and twin engine aircraft - ATC 810.

The Centre designs and conducts in-service training courses for Company personnel including Sheet Metal Worker's Theory and Practice, Basic Aircraft Engineer Training for Technicans, Conversion Training of Ground and Flight Crew (Cockpit and Cabin) and Agricultural Pilot Conversion Training.

The DORNIER DO-228 is an excellent STOL aircraft that has outstanding performance characteristics which enable it to be operated into and out of even remote rural airstrips that other types of aircraft cannot, providing infinite travel flexibility between major air-ports and all parts of the country.

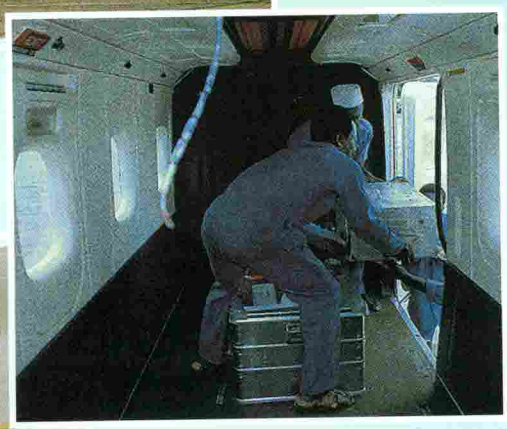


DANA can provide DORNIER DO-228 aircraft on long or short lease terms for operation within the Country or elsewhere in Africa.

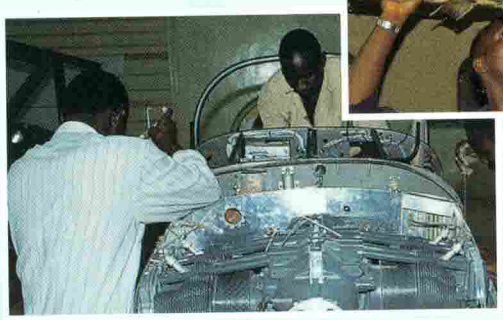
DANA also assist prospective clients to select aircraft and arrange purchase / lease agreements and to develop their operation.

OPERATION & MAINTENANCE SERVICES

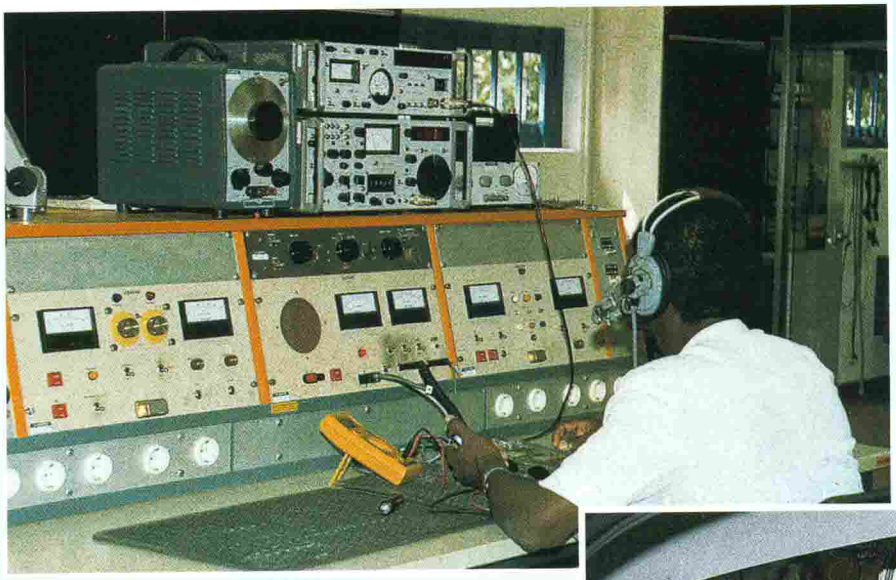
DANA maintain and operate a large fleet of DORNIER DO 228 and also provide services to other DO 228 owners including the NNPC, NEPA, Air Border Patrol Unit, the Presidential fleet, the Nigerian Air Force and the Federal Capital Development Authority.

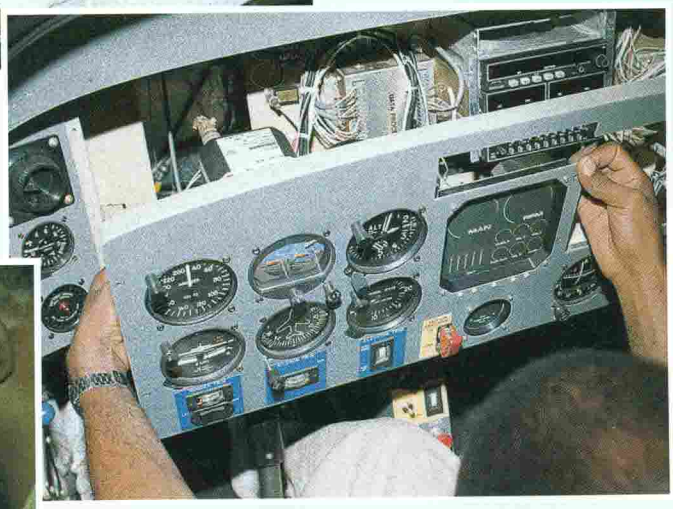


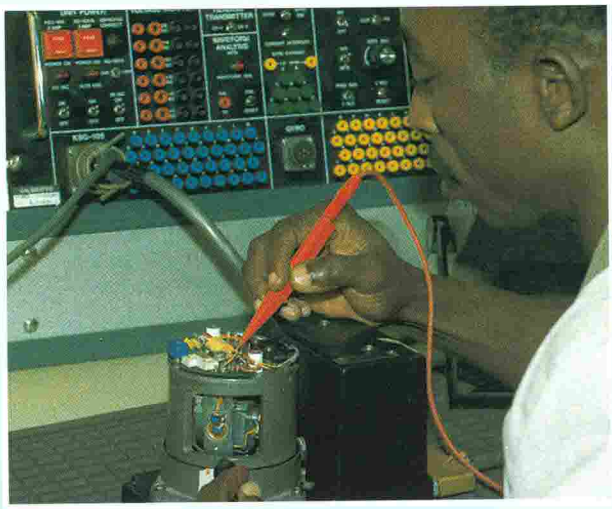
DANA has over the years developed facilities and trained pilots and engineers specifically for operating, maintaining and supporting DORNIER aircraft in the Country.



The DANA Avionics shop is approved by several manufactures including Collins, Allied Signal Avionics, King, Becker, Global, GARMIN and Honeywell. This capability gives DANA an unmatched range of equipment that can be repaired. We support all communication/- navigation and positioning systems and AC power supplies. The facility is approved to carry out repairs up to detail component replacement level which removes the necessity to ship units out of the Country for repair work.

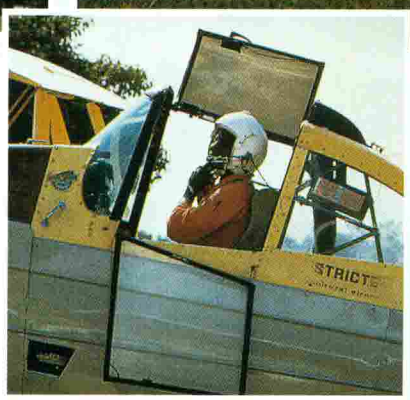






DANA provides service support to its own fleet, the Nigerian Airforce Air Beetle Project, government agencies and parastatals and to several of the Country's passenger airlines.

DANA has been operating an aerial crop propagation and protection service in Nigeria for several years; providing experienced and reliable service to farmers growing large hectarage of rice, cotton, sugar, maize, Oil palm, ect. DANA in addition, carries out emergency control of Quelea birds, locust and grasshopper for the Federal Government and State Governments of Nigeria. Over the years, DANA has undertaken spray operations in the Republic of Niger, Mali and in more than twelve states in Nigeria.

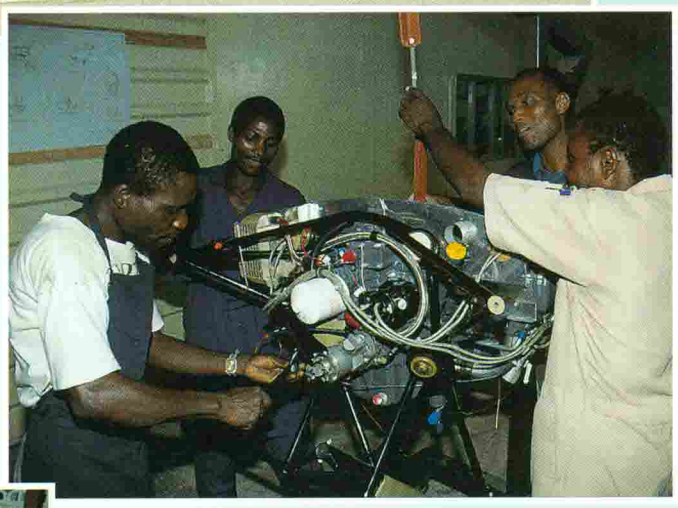


DANA operates a fleet of five Schweizer Ag-cat aircrafts and two Rotorway Helicopters all equipped to undertake the full band between high and ultra low volume application of any kind of chemicals, seeds and fertilizers. Our Agricultural organisation comprises full ground support including ground spray rigs, chemical handling tanks, filters, pumps, ground crew and aircraft technicans able to sustain away from base operations for long periods.

TRAINING AND MULTIPURPOSE AIRCRAFT

The Air Beetle is built to stringent Air Force specifications for modern Military trainer aircraft. The ABT-18 is used for pilot screening and primary flight training.

The cooperation between user, local industry and experienced aircraft manufacturer during the design and development Phase of the Air Beetle resulted in a superior product tailored to the special conditions of the African training and operational environment.



ITS DESIGN OFFERS CONSIDERABLE ADVANTAGES:

Apart from its excellent suitability for economic production by indigenous industries of newly industrialised countries, the aircraft has far better performance and is substantially cheaper to operate and maintain than any existing alternative in its class.

IMPORTANT FEATURES OF THE AIR BEETLE;
IN ITS BASIC VERSION WITH 180 HP ENGINE

- Ab-initio, pilot screening and trainer aircraft basically an all metal design
- Two seat side-by-side
- Designed and build with aerobatics capabilities including spin maneouvres
- Range of 525 mm (970 km) including reserves
- Flight endureance of six (6) hours
- Cruise speed of 155 kts
- Operation from conventional runways or grass surfaces
- Take-off ground roll 145 m
- Jettisonable and rearwards sliding canopy
- State-of-the-art Cockpit configuration and technology incorporating GPS
- Computerized engine instrumentation
- Lycoming engine operating on motor gasoline (MOGAS) 91 octane
- Fuel boost pumps in both wing tanks
- Three (3) axis electric trim

The Air Beetle is manufactured by DANA at Kaduna, Nigeria, in series production of three per month for the Nigerian Air Force, the launching customer.

PILOT TRAINING

The Air Beetle pilot screener and primary trainer is the essential component of a professional pilot training package which enables the operator to produce pilots of the highest possible standards at lowest possible costs in accordance with given requirements.

The Training Syllabus covered by the Air Beetle

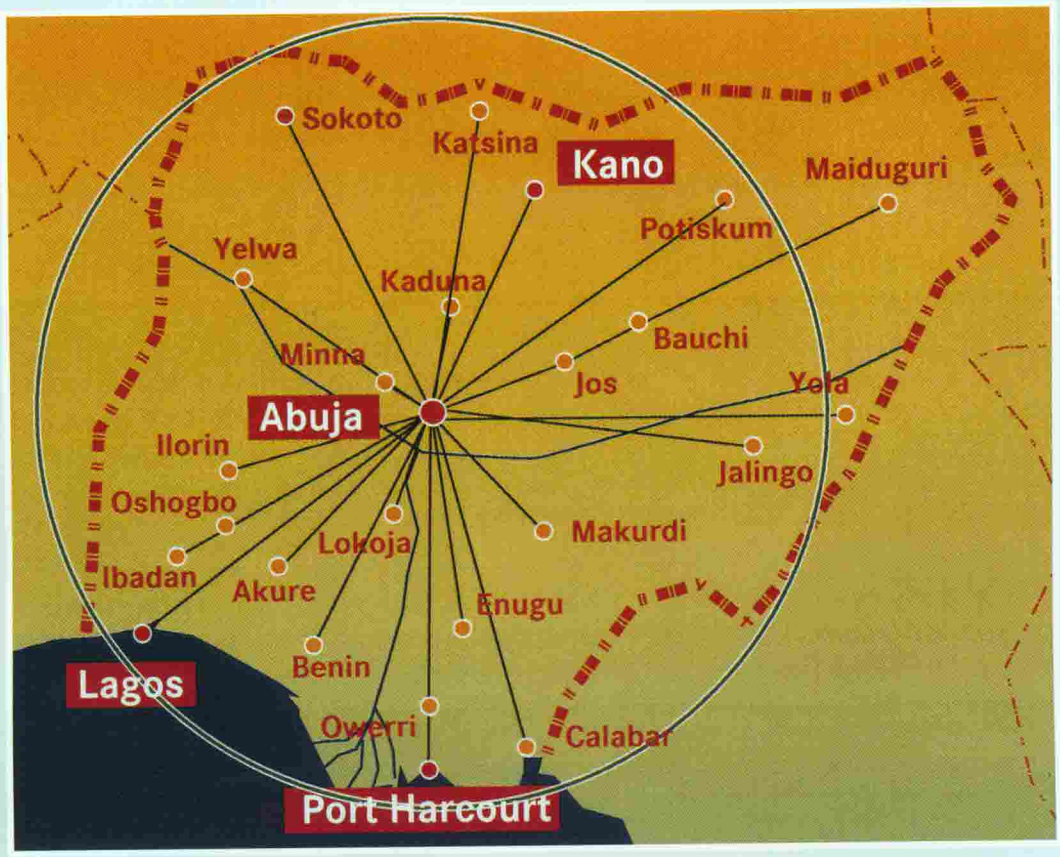
- Screening of pilots
- Primary training
  - general handling
  - aerobatics including spin
  - instrument flying
  - navigation
  - night flying
  - tactical lead-in programmes with formation and low-level flying

The Air Beetle also serves as a cost-effective flight instructor trainer for the teaching of instructor pilot skills. Because of the Air Beetle inherent wide scale of training potential, the training programme can easily be extended and tailored towards any other client's objective.

Its speed, range and payload make it an excellent liasion and multipurpose aircraft. Its design forms a sound basis to be tailored to the specific requirements of different clients.

DANA has developed and expanded its service capability to accept the DORNIER DO 328 into its fleet. The DORNIER DO 328 is a high wing turbo prop airliner designed to carry up to 33 passengers in VIP comfort.

The DORNIER DO 328 is the fastest, most spacious and efficient aircraft in the 30 seater class. Its superior performance and unique passenger comfort features make the DO 328 an extremly attractive regional airliner.



All airports / airstrips inside the circle can be reached within 1 (one) hour from Abuja.

High Speed, Long Range

First Class Performance

335 knots (620 km/h) cruising speed

Flying 20 to 60 knots faster than its competitors, the Dornier 328 offers short block times, and higher utilization. The impressive cruise speed can be attributed to its low drag fuselage and wing.

Excellent field performance

Due to its advanced design, like no other aircraft in its class, the Dornier 328 has the performance to bring jet-like service to short-field regional and inner-city airports.

1000 nm (1850 km) range

The Dornier 328 has a range of up to 1000 nm with 30 passengers and full IFR reserves. This range, combined with high speed, reduces flight times on longer hauls, opens new markets and provides excellent Multi-hop capability.

Big Jet Comfort

Outstanding Versatility

Spacious, quiet, comfortable

Optimized for comfort and quietness the Dornier 328 offers seamless service to passengers connecting to larger jet aircraft. The spacious cabin includes all the amenities today's passengers expect:

- > Full stand-up headroom
- > Wide aisle
- > Comfortable seats
- > Generous shoulder and legroom
- > Large overhead bins
- > Ample underseat stowage
- > Wardrobe for coats and hats
- > Large baggage compartment

Great care and effort have been put into making the Dornier 328's cabin as quiet and vibrationfree as that of a modern jet: Noise levels are below 78 dB(A) over most of the cabin.

Suitable for many missions

The Dornier 328 is more than a regional airliner. Its outstanding performance, and low operating costs also make it an ideal platform for variety of other missions:

- > Executive / VIP transport
- > Corporate shuttle
- > Cargo (bulk load / containers)
- > Quick-change passenger / cargo aircraft with cargo door
- > Flying sensor platform