



COLL'S AVIATION  
— GROUP LLC —



**SUPER TUCANO BROCHURE**  
February 2019



**A-29 SUPER TUCANO  
THE RIGHT CHOICE**

**BUILT FOR  
THE MISSION**

**SUPER TUCANO BROCHURE**  
**February 2019**

**We have Pre-Owned TUCANO's and  
SUPER TUCANO's for sale, all models**



# COMBAT PROVEN

## Proven Operation in Austere Environments

The Light Attack Aircraft with  
12 years service with thousands  
of combat flight hours.

SEMI-PREPARED RUNWAYS

FORWARD OPERATING BASES

DESERT / SANDY ENVIRONMENTS

HOT & HIGH OPERATION

HIGH DENSITY ALTITUDES

HIGH HUMIDITY



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# MULTI- MISSION

**Extensive operational flexibility and maneuverability** across the spectrum of mission portfolios

The only Light Attack Aircraft designed from the beginning to meet the demands of air combat and austere airfield operations.



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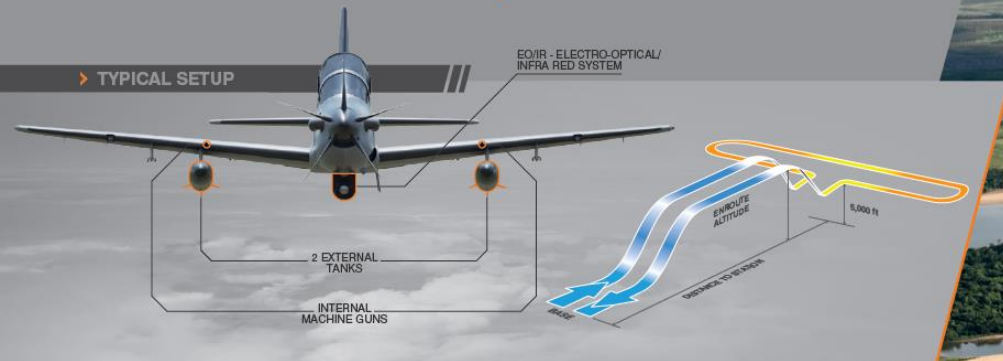
# MISSION:

## Border Patrol and Armed Reconnaissance (Recce)

EO/IR fully integrated system, great visibility from both seats and night operation full capability with Night Vision Goggles (NVG).

### Air-to-ground

#### TYPICAL SETUP



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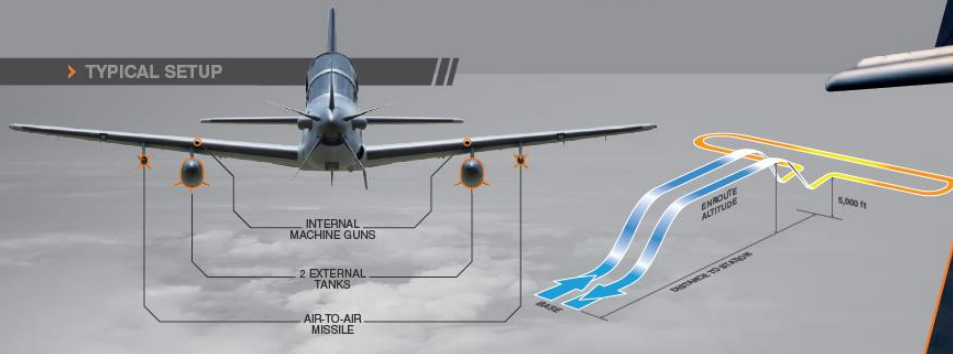
# MISSION:

## Interdiction and Counter Air

Exceptional speed, altitude and range, highly maneuverable for aircraft intercepts, outstanding visibility from both cockpits, and capable of day / night operations.

**Air-to-air**  
type of mission

### TYPICAL SETUP



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# MISSION:

## Advanced Training

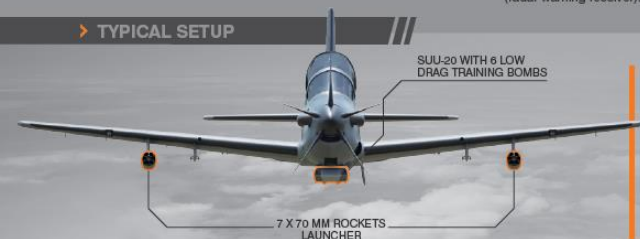
Comprehensive training solution, much less costly when compared to jets.

- Human Machine Interface is similar to those found in 4<sup>th</sup> generation fighters.
- Allows practicing with training and live ordnance.
- \*State-of-art\* Human Machine Interface (HMI).

Synthetic training package for virtual training.

- APQ-68 Class Radar simulation.
- Training with simulated BVR (Beyond Visual Range) missiles.
- Training with simulated systems like RWR (radar warning receiver).

### > TYPICAL SETUP



The HMI is similar to 4<sup>th</sup> generation fighters which enables easier pilot transition to frontline fighters



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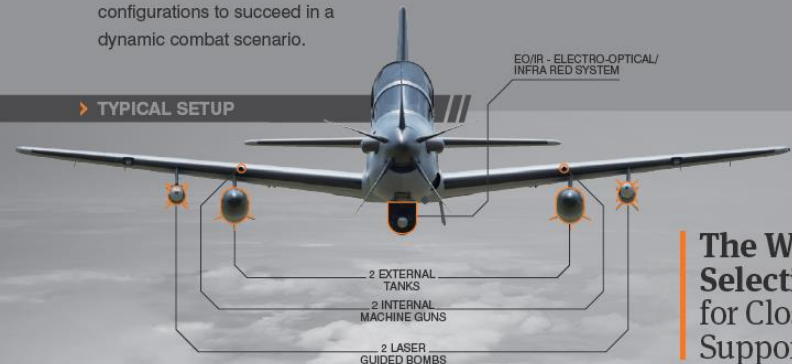


# MISSION:

## Close Air Support

Precise air-to-ground attack modes combined with multiple weapons configurations to succeed in a dynamic combat scenario.

### TYPICAL SETUP



**The Worldwide  
Selection  
for Close Air  
Support**



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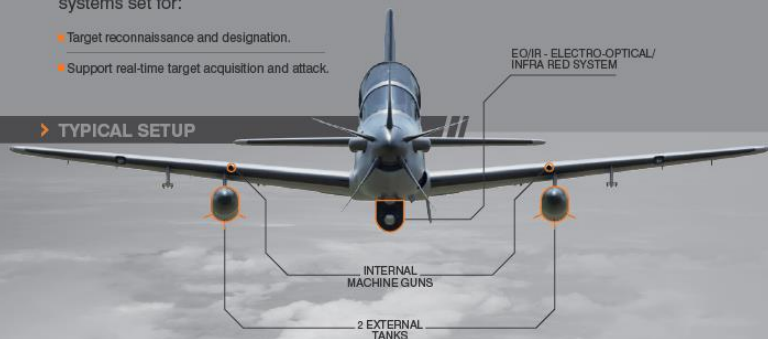
# MISSION:

## Forward Air Controller - Airborne

Equipped with the complete systems set for:

- Target reconnaissance and designation.
- Support real-time target acquisition and attack.

### > TYPICAL SETUP



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# EXTREMELY RUGGED PLATFORM

Complies with the most stringent civilian and military requirements for safe and cost-effective operational use.

Designed to  
operate from  
forward air  
bases



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# LOWEST OPERATIONAL & MAINTENANCE COST

Operational cost: **around  
USD 1,000 per flight hour**

✓ Minimal infrastructure and ground support required

✓ Quick fault identification and ease of correction

✓ Intensive use of on-condition maintenance concept



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# MODERN AND FUNCTIONAL COCKPIT

- ✓ Pressurized cockpit with air conditioning
- ✓ Anti-G System
- ✓ OBOGS
- ✓ Armored Cockpit and engine compartment
- ✓ HOTAS (hands on throttle and stick) controls



## Focus on ease of mission accomplishment

- ✓ Two redundant mission computers (MDP – mission and display processor)
- ✓ Auto flight (autopilot / flight director system)
- ✓ HUD – Head-Up Display with Color HUD Video Camera (CHVC)
- ✓ Up front control panel (UFCP) with back up on CMFD
- ✓ Designed for pilot safety and comfort for long duration flights

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# SYSTEMS



## ELECTRO-OPTICAL/INFRA-RED SYSTEM

Equipped with EO/IR able to collect images in day/night operations for target recognition. Embedded laser designator and pointer integrated with the weapon system for target designation and precise attack.



## LASER RANGE FINDER

Increased aiming precision with the Laser Range Finder integrated with the weapon system.



## DATALINK

Encrypted V/UHF radio which allows secure comms, sending and receiving tracks/waypoints, targets.



## NIGHT VISION GOGGLE (NVG)

Night operational capability with infra-red vision through the NVG. NVG Gen. III integrated for both pilots. Cockpit and external light fully compatible with NVG, including formation flight lights.



## COUNTER-MEASURE DISPENSE SYSTEM

Equipped with two Chaff and Flare dispensers, each one equipped with 30 cartridges capacity. The CMDS is programmable according to the operational philosophy and scenarios.



## EJECTION SEATS

Martin Baker MK 10 (0-0) Ejection Seats with 3 selectable modes of operation.



## POWER PLANT

Reliable and fuel efficient Pratt & Whitney PT6A-68C Engine with 1,600 shp. The engine is automatically controlled by a PMU (Power Management Unit). The engine information is presented on the EICAS (Engine Indication and Crew Alerting System) page on the CMFD.



## NET CENTRIC DATA RECORDER (NCDR)

The NCDR is a rugged recorder able to upload mission plans and download executed missions data. The data format is fully compatible with the Mission Planning and Debriefing Stations, which provides more operational effectiveness.



## STORE MANAGEMENT SYSTEM (SMS)

Fully integrated SMS managing the five NATO Standard pylons and the two .50 machine guns in mission planning and during attacks procedures.

- Master Modes (CCIP/ CCRP/ DTOS/ LCOS/ CCIL/ SSLC)
- Armament Remaining
- In-Flight Re-cocking
- In-Flight Debriefing
- Inventory Selection

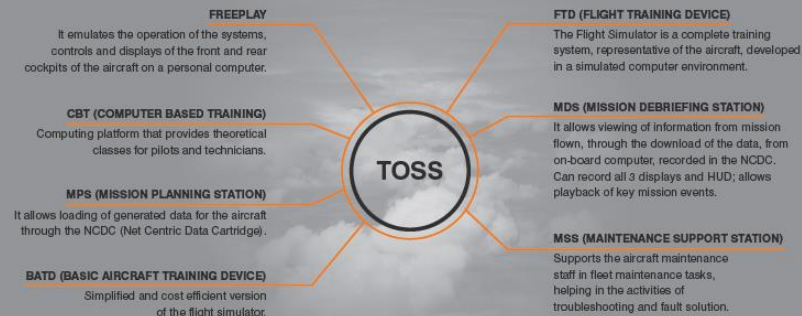
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# TOSS

## Training and Operation Support System

The most comprehensive advanced training solution in the market with the best investment return in terms of pilot training costs.



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# WORLDWIDE PRESENCE



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# CHARACTERISTICS & PERFORMANCE

## RANGE AND ENDURANCE

Ferry Range (external tanks)	1,650 nm
Endurance (internal fuel)	3.5 hours

## WEIGHTS

MTOW (with external loads)	5,400 kg / 11,905 lb
External loads	1,550 kg / 3,417 lbs

## SPEED

Maximum Operating Speed (V <sub>mo</sub> )	320 KCAS
Maximum Speed, Level Flight (at Sea Level)	280 KCAS
Stall speed (landing configuration)	83 KCAS



## LOADS

Maximum g	+ 7 / -3.5 g
Sustained turn (at Sea Level)	3.0 g

## FIELD PERFORMANCE

Takeoff distance (to clear 50 ft obstacle)	900 m / 2,950 ft
Landing distance (to clear 50 ft obstacle)	860 m / 2,820 ft



## SERVICE CEILING

35,000 ft

## CLIMB

Rate of climb at sea level	3,242 ft/ min
Time to climb to 20,000 ft	8.3 min

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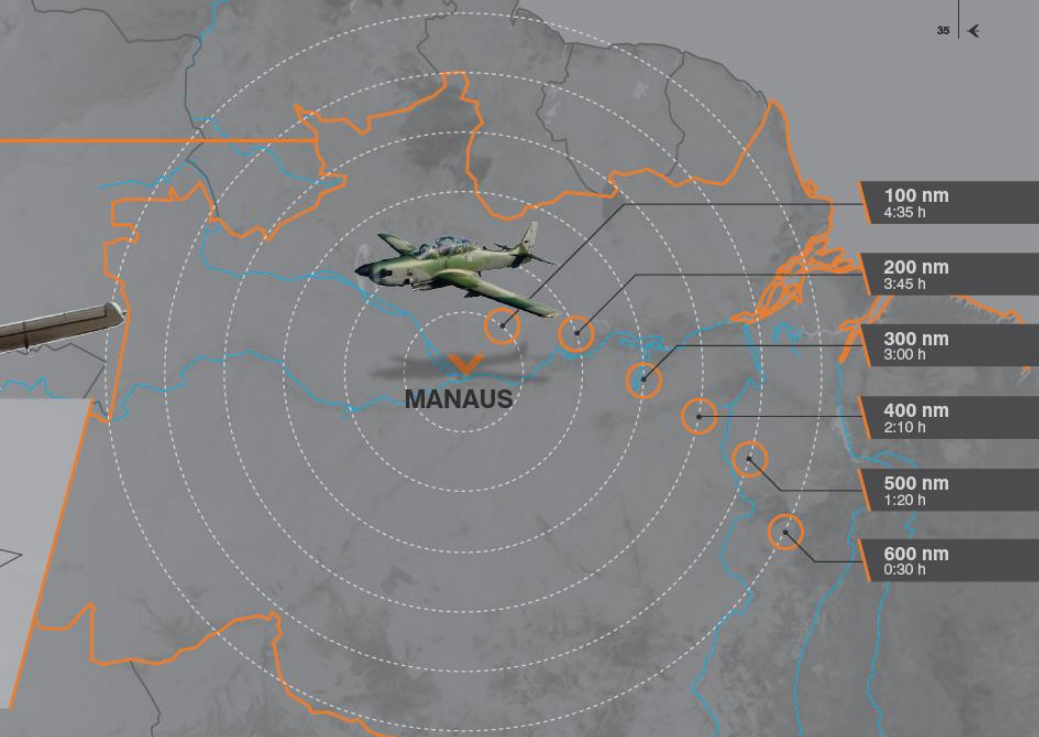
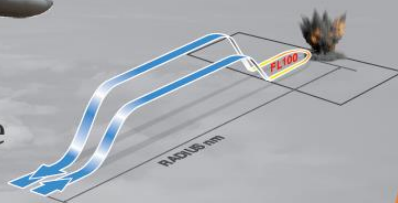
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# RADIUS OF ACTION



In the right place, custom  
equipment, increased persistence



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# THE ADVANTAGES

## The Best Aircraft for the Mission!

More than 300,000 flight hours accumulated

Certified by USAF under  
ultimate Military Standards

Combat  
Proven

More than 220  
aircraft delivered

Flexible and  
efficient platform

Cost-efficient  
Solution

In full production at two assembly  
lines, Brazil and United States



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MATRIX AVIATION INC., is a leading company in the aeronautical sector with over 14 years of experience, currently with our represented COLL'S AVIATION GROUP LLC, we expand our presence in Latin America to provide more personalized attention to our customers, the range of services we provide shown below:

#### **AIRCRAFT MANAGEMENT**

We take care of the fuel service, insurance, pilots and control the scheduled and non scheduled maintenance services to be performed on the Customers aircraft.

#### **AIRCRAFT PURCHASE AND SALES**

We bring our customers the option to receive their aircraft as part of the down payment and the possibility of financing the new aircraft up to 72 months. Also, we sell spare parts with door to door system Delivery (DDP).

#### **MAINTENANCE SERVICE**

We provide all parts and subcontract specialized services to ensure compliance with the correct maintenance services and applicable regulations for the Customers aircrafts.

#### **PILOT AND TECHNICIANS TRAINING**

We provide the Customers with the training for the pilots and technicians directly with manufacturers or recognized aircraft training academies from around the world.

#### **AVIATION CONSULTING**

We bring our Customers the option to locate an office with Technical-Administrative staff in the location of the client (on request) to provide technical advice and support onsite

#### **AIRCRAFT LEASE**

We provide DRY or WET aircraft rental services.



## CONTACT US



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