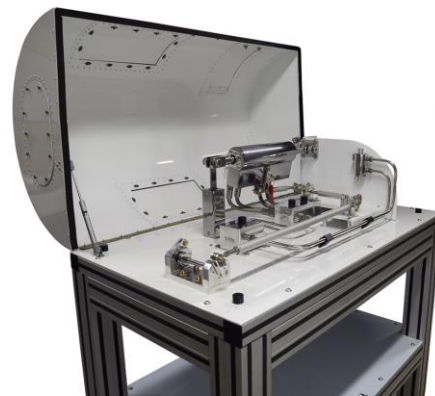




BWM INDÚSTRIA DE MÁQUINAS LTDA. EPP.

AERONAUTICAL MECHANICS TRAINERS BWM





FLIGHT CONTROL SYSTEMS – FCT 2

BWM Aeronautical Maintenance Mechanics trainers are used for training in various areas of aeronautical maintenance, maintenance and periodic checking of aircraft engine, verification and alignment of control cables, verification of electrical inputs, among others. Our equipment covers the mechanics of motorization, control and electrical of an aircraft, thus enabling the student to simulate in real parts that of an aircraft which will perform in a preventive or corrective maintenance.

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Our equipment was used in the biggest knowledge Olympics, Worldskills, in the editions of 2015 and 2017, several countries have already acquired our coaches.

Three types of control systems commonly used are: (1) The cable, (2) push-pull, and (3) the torque tube system. The cable system is the most widely used because deflections of the structure to which it is attached do not affect its operation. Many aircraft incorporate control systems that are combinations of all three types. Flight Control System Hardware, Mechanical Linkage, and Mechanisms

The systems which operate the control surfaces, tabs, and flaps include flight control system hardware, linkage, and mechanisms. These items connect the control surfaces to the cockpit controls. Included in these systems are cable assemblies, cable guides, linkage, adjustable stops, control surface snubber or locking devices, surface control booster units, actuators operated by electric motors and actuators operated by hydraulic motors.

Mechanics General Handbook, At each regular inspection period, cables should be inspected for broken wires by passing a cloth along their length and observing points where the cloth snags. To thoroughly inspect the cable, move the surface control to its extreme travel limits. This will reveal the cable in pulley, fair lead, and drum areas. If the surface of the cable is corroded, relieve

cable tension. Then carefully force the cable open by reverse twisting, and visually inspect the interior for corrosion. Corrosion on the interior strands of the cable indicates failure of the cable and requires replacement of the cable. If there is no internal corrosion, remove external corrosion with a coarse• weave rag or fiber brush. Never use metallic wools or solvents to clean flexible cable. Metallic wools imbed dissimilar metal particles, which cause fur• there corrosion. Solvents remove the internal cable lubricant, which also results in further corrosion. After thoroughly cleaning the flexible cable, apply corrosion-preventive compound. This compound preserves and lubricates the cable.





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EQUIPMENTS BWM IN WORLDSKILLS 2015 AND 2017

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Hand Skills Trainer HST-2

The Hand Skills Trainer (HST-2) provides training in the hand skills necessary to work on aircraft components in confined spaces through access panels in an aircraft fuselage.

The internal components and tools are typical of aircraft systems and include:

- *Control system (control rods, pivot blocks, pivot arm, torque tube)*
- *Torque wrench, wire twister, wrenches, pliers, punches, screw drivers and various hand tools **
- *Hydraulic components (hydraulic pump, hydraulic actuator, rigid pipes, hoses, manifold, valves)*
- *Avionic LRU (cable, connectors, mounting tray, Line Replaceable Unit)*

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APPLICATION OF EQUIPMENT IN AIRCRAFT

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THE APPLICATIONS OF BWM EQUIPMENT IN AIRCRAFT MAINTENANCE TRAINING

TURBINE ENGINE HIS TOOLS HSI-2

HAND SKILLS TRAINER

BENCH ELETRIC SYSTEM

FLIGHT CONTROL CABLE





BWM INDÚSTRIA DE MÁQUINAS LTDA. EPP.

Conceito em desenvolvimento educacional

Concept in educational development




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BWM EQUIPAMENTOS DIDÁTICOS

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