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PRESS RELEASE

F2Si DIAMOND MATE RECEIVES FAA APPROVAL

Certified Diamond DA20/40 AATD

Pittsburgh, PA. In September 2019, Fidelity Flight Simulation Incorporated dba F2Si received FAA approval of our Modular Aviation Training Equipment (MATE) as a certified Diamond DA20/40, Advanced Aviation Training Device (AATD).



The FAA approval of the Diamond MATE AATD will benefit flight schools, students, and pilots. Now instrument rated pilots can legally maintain their instrument currency solely using this training tool. This AATD may also be used by student pilots to credit hours toward pilot certificates/ratings.

Table 1 provides a chart listing hours (Part 61) or percent of total training time required (Part 141) a student pilot may credit in their logbook using F2Si's Diamond MATE AATD.

Certification or Rating	Flight School	
	Part 61	Part 141
Private Pilot	2.5 hrs	15%
Instrument	20 hrs	40%
Commercial	50 hrs	20%
Certified Flight Instructor	-	5%
Certified Flight Instructor Instrument	-	5%
Airline Transport Pilot	25 hrs	25%

There are many benefits of adding the certified Diamond MATE AATD to a flight school's curriculum. Students will save on tuition costs and flight schools will save time and maintenance on their aircraft. The Diamond MATE AATD device provides the safest possible environment to train emergency scenarios. No more cancelled flight training lessons when the training aircraft is down for maintenance or when inclement weather (high wind, low visibility, icing, etc.) grounds the entire fleet. With F2Si's Diamond MATE in a flight school's arsenal, the school will never have to cancel another lesson.

The first Diamond MATE AATD was delivered to the Community College of Beaver County (CCBC), located in Beaver Falls, PA. This version (configuration 1) of the MATE, shown in Figure 1, allows for training on both Diamond DA20 and DA40 flight models, emulated G1000 avionics suite, and includes a single channel visual system with an attached instructor station.

The students prepare to fly the course curriculum with the realistic cues in day or night, VFR or IFR, meteorological conditions of the MATE, simulating various emergency situations/ failure scenarios in a safe environment. The skills learned on the MATE are transferred to training in an actual aircraft provided by CCBC's training partner ACES Aviation, located at the Beaver Country airport.

CCBC's Simulator Program Manager, Thomas Hupp stated "the MATE AATD is an invaluable training tool for their training program. The MATE provides a cost saving G1000 training solution that eliminates the costly training hours to of running an aircraft to learn the system. With winter coming bringing less than favorable weather conditions, the current training aircraft is not approved for icing, with the MATE students can continue to train year-round."

A second device (configuration 2) shown in Figure 2 was delivered to Granite School District in Salt Lake City, UT in July 2019. The second configuration is more robust and is cockpit specific to the DA40 cockpit. The Diamond DA40 MATE incorporates all components of the cockpit in the proper spatial location.



Both Diamond MATE configurations are a single-seat, open cockpit, AATDs equipped with a physically simulated representation of the G1000 panels for single engine aircraft training. The G1000 hardware includes Primary Flight Display (PFD)/ Multi-Function Display (MFD)/ Audio along with an integrated Autopilot panel. The MATE AATD includes Diamond style flight controls for stick-type pitch/roll, rudder pedals for yaw control, and standby instruments displayed on an LCD Monitor.

Call 412-321-3280, email info@F2Si.net, or visit us on the web at www.F2Si.net today for more information on F2Si's Diamond MATE AATD.

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About F2Si

Founded in 2000, F2Si is a veteran-owned small business (VOSB), based in Pittsburgh, PA. F2Si has designed, manufactured, and delivered over 70 simulated training devices for commercial, military, and educational customers globally.

At F2Si, our mission is to manufacture affordable, highly dynamic simulation devices across the training industry delivering exceptional product quality continuing with our superior customer service.



Simulator solutions for Land, Sea, & Sky

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Contact us today:

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