

## MPS Centaur

FNPT II - MCC TYPE GENERIC Multi-Engine Jet

Data package from existing aircraft of the Large Aircraft Category



*MPS Centaur with collimated visual system.*

## MPS Type Generic Solution

The MPS-Centaur is the solution for aviation training organizations that wish to provide more training at lower cost. The MPS Centaur hardware is based on a modern air transport flight deck. The aircraft systems, including the FMS and EFIS, are type specific for the represented aircraft. The Centaur is equipped with a representative flight model (including ground and engine model) with forces.

The Centaur is an excellent device for the new EASA APS/APC training as well as for MPL training (MPL2), MCC, JOC and Bridge training. It will enable the student to become fully confident in the normal operation of a jet in the air transport category before they graduate. It is the perfect combination of a very common Commercial Air Transport Category aircraft with a flight and performance model based on an existing large aircraft. The device is equipped with all the systems normally found on these aircrafts, such as EFIS, fully functional auto flight guidance and FMS functionalities. This allows for all normal and non-normal procedures in LOFT scenarios and UPRT. The MPS Centaur is approved at the MPS factory as FNPT II - MCC, according to EASA standards, before delivery.

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## Standard features

<b>Aircraft type</b>	Existing Large Aircraft of the Commercial Air Transport Category (140-170 passengers)
<b>Certification</b>	<ul style="list-style-type: none"><li>• EASA FNPT II / MCC - APS / APC approved</li><li>• FAA: level 4 / 5</li><li>• Automated and manual QTG</li></ul>
<b>Training Credits</b>	<ul style="list-style-type: none"><li>• EASA: MPL2, MCC, Jet Orientation Course (JOC) and IFR, APS / APC</li></ul>
<b>Upgrade paths</b>	Field upgradeable to type specific FTD Level 1 or 2 (subject to manufacturers data license fees via MPS and user agreement between operator and aircraft manufacturer)
<b>Hardware</b>	<p>Full-size enclosed flight deck with instructor cabin including:</p> <ul style="list-style-type: none"><li>• Direct projection system enclosed in dome</li><li>• Full aircraft systems functionality</li><li>• Basic environmental control system</li><li>• Control loading on all primary flight controls of Level D simulator quality/fidelity</li><li>• IOS failure scenario's</li><li>• Large touch screen IOS</li><li>• Full size EFIS, AP, FD and AT systems and control/display panels</li><li>• Commonly found Flight Management system with Control Displays</li></ul>
<b>Software</b>	<ul style="list-style-type: none"><li>• Fully functional EFIS, AP, FD, AT and FMS</li><li>• Automated QTG with manual option</li><li>• Intuitive IOS menu</li></ul>
<b>Flight model</b>	Based on data package from existing large aircraft (140-170 passengers)
<b>Navigation data</b>	Worldwide navigation database with full update cycle distributed through MPS
<b>Visual system</b>	200 x 40 Direct projection system with Level D image generator
<b>Lead time</b>	6 months
<b>Service/maintenance</b>	<ul style="list-style-type: none"><li>• Complete maintenance support programs</li><li>• Technical support management system</li><li>• Certification guidance by MPS</li><li>• Full documentation</li><li>• Full remote support capability</li></ul>
<b>Optional features</b>	<ul style="list-style-type: none"><li>• Debriefing system (under development or 3rd party software interface)</li><li>• ATC simulation (3rd party software)</li><li>• IOS Remote Tablet: control all IOS functionality from any pilot seat</li></ul>