

PS-3TM-LP550

Low-profile PS-3TM-550 for low-ceiling rooms - the same two-seat cockpit on a shorter frame, sharing its cabinet, controller and spares.

 MADE IN POLAND  EUROPEAN UNION MEMBER

 GLOBAL SHIPPING



0.41_g

MAX ACCELERATION

276_{mm/s}

MAX VELOCITY

13.1°

MAX TILT

307+_{mm}

TOTAL HEAVE

Total heave is full travel; other motion figures are per-axis maxima from neutral. Axes are not driven to their extremes simultaneously.

Engineered for professional simulation

Slips Under Low Ceilings

The platform slides under existing cabins and low ceilings, so it fits into an existing room without structural work.

Same Payload, Lower Build

An existing two-seat cockpit transfers across directly, so a training center keeps full-rig fidelity on both seats.

Shares Spares With the Standard Model

Mixed fleets run one maintenance procedure and one spares pool, and a single-phase feed avoids any three-phase fit-out.

Three-leg low-profile platform

Three electric rotary actuators sit in a low-profile tripod: an electric motor spins a helical-bevel gearbox at each leg, and pulling rods on ball joints carry that rotation up to the upper frame. Coordinated, the three legs form pitch, roll and heave in a build about 41% lower than the standard 3TM-550.

Plug-and-play for supported titles, or full SDK

- **ForceSeatPM** - platform manager, auto-detects supported titles
- **ForceSeatMI/DI SDK** - integrate motion into custom applications
- **ACE Engine** - professional motion-cueing
- **VR HeadWay** - VR motion compensation

Axis	Single Excursion	Max Excursion	Max Velocity	Max Acceleration
Heave	-163.3 / 144 mm	-163.3 / 144 mm	276 mm/s	0.41 G
Pitch	-9.5 / 9.3°	-12.1 / 13.1°	22 °/s	250 °/s ²
Roll	-10.8 / 10.8°	-10.8 / 10.8°	18 °/s	250 °/s ²
Payload Specifications				
Payload	550 kg			
CoG height above MPC	<500 mm			
Moments of inertia (Ixx, Iyy, Izz)	250 kg·m ²			
Main Dimensions				
Total Width	1854 mm			
Total Length	1605 mm			
Min Height	359 mm			
Max Height	666 mm			
Specifications				
Architecture	3 DOF			
Drive technology	Helical-Bevel Geared			
Product weight	436 kg			
Power & Installation				
Supply	230V single-phase (Wye), ground and neutral; industrial CEE connector supplied. For a 120V supply, contact Technical Support.			
Circuit protection	25A type C circuit breaker.			
EMC configuration	Runs on a standard RCD/GFCI-protected circuit.			
Grounding	High leakage current - permanent solid protective earth, fitted by a qualified electrician.			
Installation	Single-phase install by a qualified electrician; full detail in the manual.			
Connection	USB or Ethernet			

POWER DRAW

Average power	2.6 kVA
Peak power	6.2 kVA
Average current	12 A
Peak current	27 A
Avg power - stress test	1.5 kW
Avg power - typical game	0.6 kW

What's in the Box.

HARDWARE**✓ PS-3TM-LP550**

The ultra-low-profile (359 mm) 550 tripod on helical-bevel geared servos - full payload at the lowest height in the 3TM range.

✓ PS-SB230 Cabinet

Power and control - AC/DC protection and controller, fed from a dedicated 230V single-phase industrial CEE socket. For a 120V supply, contact Technical Support. The controller connects to the host PC over USB or Ethernet.

✓ PS-SBR Remote + E-Stop

The PS-SBR remote (E-STOP, KNEEL, POWER LOCK) and PS-SBEC stop button - the hardware safety chain to park or stop motion. The keyed POWER LOCK keeps arming with the operator; the 5 m PS-SBEC lead adds a stop within reach.

✓ Electromagnetic Brakes

One safety brake per actuator - engages on power loss and holds the load. A fail-safe, standard here.

✓ Cable Set

Mains, USB to the host PC, and the PS-SBR remote and EMCY safety leads - wired together as delivered.

✓ Packing & Handling

Ships factory-assembled and calibrated in a forklift-ready crate - the integrator unpacks and installs, with no on-site build.

SOFTWARE & LICENSES

✓ ForceSeatPM

Auto-detects 154+ supported games with pre-tuned profiles. Included free, with free software updates.

✓ Sim Profiles

Pre-tuned motion profiles for the popular sims and games, so the first session already feels right.

✓ ACE

The motion cueing engine that turns simulator telemetry into felt acceleration – the sharp onset of a bend or brake on the platform, with sustained forces held by coordinated tilt rather than a crude static roll.

✓ VR HeadWay

VR motion compensation that cancels the platform's own movement from the headset, so the view stays stable and motion sickness stays low. Included free.

✓ Docs & 3D Model

Full documentation and a simplified 3D STP model, plus the EC Declaration of Incorporation (2006/42/EC) for partly completed machinery – the platform is integrated into a final machine on site.

✓ 24-Mo Warranty

A 24-month warranty on the hardware and motion electronics, with free software updates throughout.

OPTIONAL SOFTWARE AND SERVICES

ForceSeatMI - Motion SDK

Motion SDK to drive the platform from custom software on top of ForceSeatPM. Licensed per motion platform, with the key stored on the PC.

ForceSeatDI - Direct Interface SDK

Low-level SDK that drives the hardware directly, without ForceSeatPM – each platform driven independently, on Windows, Linux or Raspberry Pi. Licensed per platform, with the key stored on the motion controller.

Remote Training (online)

Six-hour online session – overview, safety, operation, maintenance, ForceSeatPM setup, diagnostics and tuning. Per session.

VR HeadWay CrossPC

A paid VR add-on, licensed separately from the base VR HeadWay. One CrossPC license covers exactly two VR users on a shared platform – each seat has its own rendering PC and geometry-correct compensation (for example pilot and copilot). More seats need an additional license.

Motion Theater

Plays pre-authored motion with video or group sessions – for theaters, attractions and briefings, not live sim. Per platform.

More Options

Profile packs, installation, reports, extended warranty and bespoke development – talk to the Motion Systems team to tailor it.

MOTION SYSTEMS

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Made in Poland (EU)



PRODUCT

RESOURCES

All platforms

Knowledge Hub

Buyer's Guide