

“Flying to Peace” installation

Markus Quint
Tel. +49 69 75 75-5905
markus.quint@messefrankfurt.com
www.messefrankfurt.com

Designer	Ingo Maurer
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Pendulum	<p>The pendulum has an ellipsoidal shape, its smallest diameter measuring 1.5 metres and the largest almost 3 metres. It weighs around 130 kilograms in total and oscillates an estimated 10 degrees in both directions. The ellipsoid hangs around twelve metres from the ceiling and travels five metres upwards during the pendulum cycle. Parallel to the floor, the length of the cable is around five metres.</p> <p>The pendulum itself is an elaborately hand-crafted unique piece made of sheet aluminium (3 millimetres thick) surrounding a solid substructure. Following this, the individual pieces were assembled and welded together. The final step involved cleaning the welding seams and smoothing and polishing them by hand.</p>
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Drive	<p>The cavity above the wooden slat ceiling contains the cable winch and the drive for the pendulum. The drive motor and cable winch are permanently mounted on a metal substructure.</p> <p>The “oscillation initiation” takes place via a pivot arm at regular intervals. Once the pendulum has reached its maximum swing, the drive switches off automatically.</p>
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Light line	<p>To highlight the movement of the pendulum, a red light line on the ground traces the oscillation of the pendulum.</p> <p>Measuring 15 metres in length, the linear light line on the floor consists of two-part aluminium profiles measuring around 25 millimetres in width which are embedded flush in the floor.</p>
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Pendulum cycle	The pendulum cycle is divided into five stages and lasts around an hour*:
	Initial oscillation of pendulum 6 to 10 minutes
	Oscillation and upwards travel 3 to 6 minutes
	Oscillation in highest position 0.5 to 1 minute
	Oscillation and downward travel 3 to 6 minutes
	Final oscillation 20 to 30 minutes
	*These are technical parameters that can be adapted and changed at any time.
	While the pendulum is travelling upwards, the pendulum frequency increases because the oscillation period depends on the length of the pendulum. In other words, the pendulum oscillates somewhat faster than in its starting position.

If you would like to see the Flying to Peace installation for yourself, you can do so by watching our film

www.messefrankfurt.com/flyingtopeace

Background information on Messe Frankfurt

Messe Frankfurt is the world's largest trade fair, congress and event organiser with its own exhibition grounds. With over 2,400 employees at 30 locations, the company generates annual sales of around €669 million. Thanks to its far-reaching ties with the relevant sectors and to its international sales network, the Group looks after the business interests of its customers effectively. A comprehensive range of services – both onsite and online – ensures that customers worldwide enjoy consistently high quality and flexibility when planning, organising and running their events. The wide range of services includes renting exhibition grounds, trade fair construction and marketing, personnel and food services. With its headquarters in Frankfurt am Main, the company is owned by the City of Frankfurt (60 percent) and the State of Hesse (40 percent). For more information:

www.messefrankfurt.com | www.congressfrankfurt.de | www.festhalle.de

About Ingo Maurer

Born in 1932, Ingo Maurer has been developing unusual lamps and lighting systems since 1966, producing them in his own company and marketing them worldwide. His most famous designs include Bulb (1966), the low-voltage halogen system YaYaHo (1984) and the winged bulb Lucellino (1992). His many and varied commissions for public and private buildings include lighting for Munich underground stations Westfriedhof (1998) and Münchner Freiheit (2010), outside lighting for the new university district in Luxembourg (2014) and lighting fixtures for a resort hotel in Georgia (2018).

Ingo Maurer has received a number of prestigious awards, including the Design Award of the Federal Republic of Germany in 2010 and the Italian Compasso d'Oro in 2011, both for his life's work. Further information can be found online at: www.ingo-maurer.com