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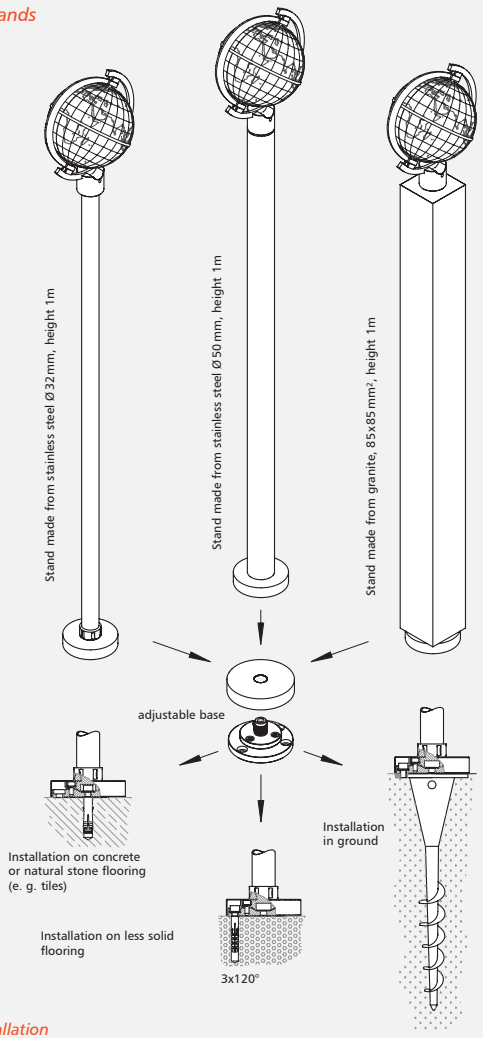
Stands



Installation

The sundial is installed on solid flooring. For example, on a wall, railings or a stone pedestal. The base is adjustable and is aligned in the horizontal using the built-in spirit-level. Securing materials, tools and a detailed instruction pamphlet are supplied.

We also offer suitable stands in stainless steel or granite as accessories.

Ferdinand Magellan

In the days of the Portuguese sailor Ferdinand Magellan, who sailed around the world in the 16th century, most people still believed that all the stars revolved around the Earth on crystal ball sockets. Today we know that it is the Earth which revolves around its axis once a day and makes it seem as though the sun is moving from east to west.

The sun's migration from east to west

Using the MAGELLAN sundial, you can follow the apparent movement of the sun with the noon adjusting arm, which you pivot in the sun until the shadows on the left and right of the arm disappear. It is then positioned exactly above the longitude at which the sun is reaching its local highest position (culmination) at this moment in time. At all locations on this longitude, it is precisely noon.

Date display

The sunlight penetrates the noon adjusting arm through a small slit, is reflected to the side and illuminates small light segments. You can read off the date at the most brightly lit light segment. Underneath this segment you will see the sub-solar point on the earth's surface. This is the location at which the sun is at this moment in its zenith.

Central European Time

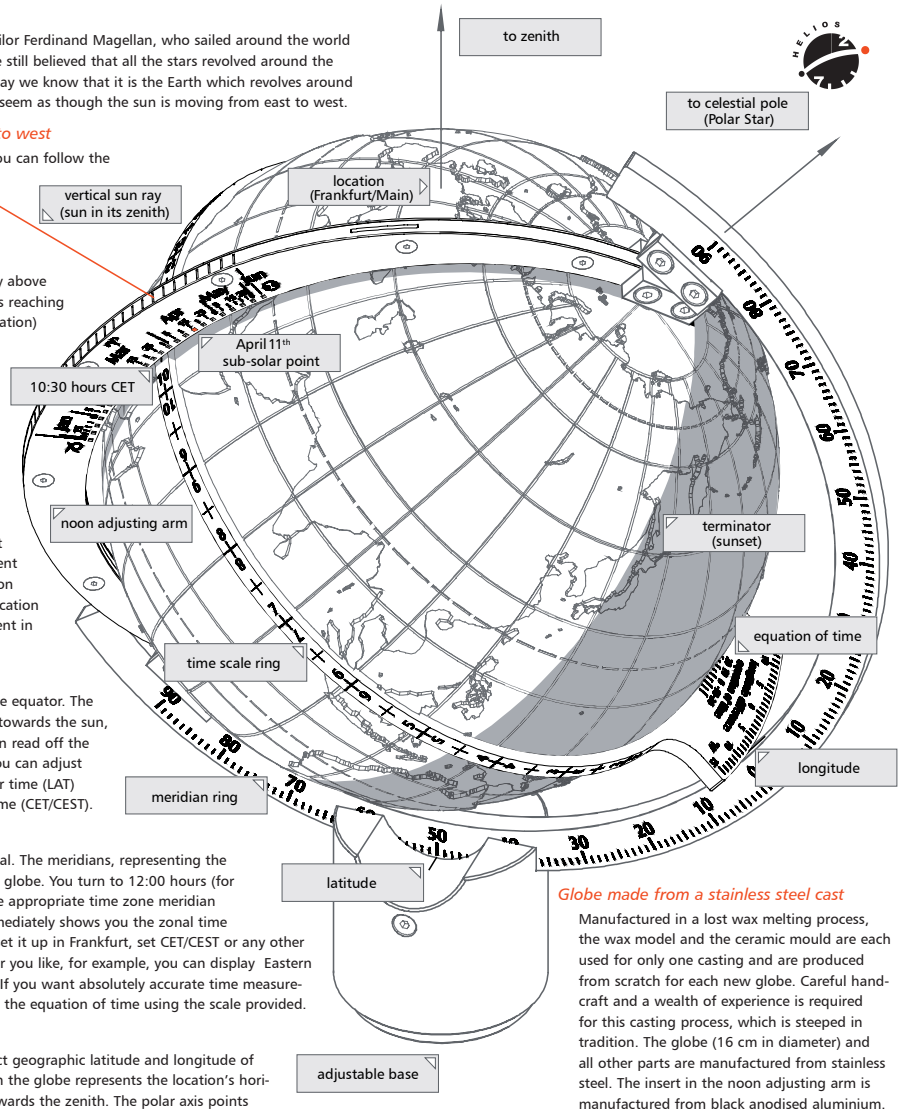
The time scale ring lies along the equator. The noon adjusting arm, positioned towards the sun, is the pointer with which you can read off the time from the time scale ring. You can adjust the MAGELLAN not only for solar time (LAT) but also for Central European Time (CET/CEST).

Sundial for world time

The MAGELLAN is a global sundial. The meridians, representing the 24 time zones, are visible on the globe. You turn to 12:00 hours (for summertime 13:00 hours) on the appropriate time zone meridian and the noon adjusting arm immediately shows you the zonal time on the time scale ring. You can set it up in Frankfurt, set CET/CEST or any other zone time in the world, whatever you like, for example, you can display Eastern Standard Time (New York time). If you want absolutely accurate time measurement, you can take into account the equation of time using the scale provided.

Worldwide set-up

The sundial is set up for the exact geographic latitude and longitude of its location. The highest point on the globe represents the location's horizontal level and is positioned towards the zenith. The polar axis points towards the polar star and the meridian ring is situated in a the north-south direction.



Globe made from a stainless steel cast

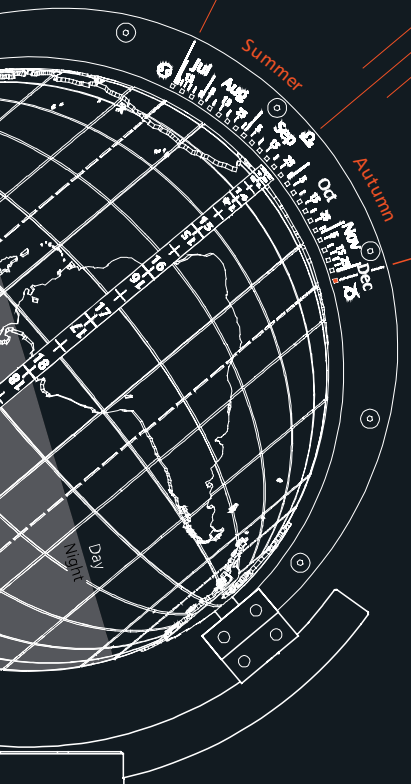
Manufactured in a lost wax melting process, the wax model and the ceramic mould are each used for only one casting and are produced from scratch for each new globe. Careful handcraft and a wealth of experience is required for this casting process, which is steeped in tradition. The globe (16 cm in diameter) and all other parts are manufactured from stainless steel. The insert in the noon adjusting arm is manufactured from black anodised aluminium. The sundial can be used outside all year round.

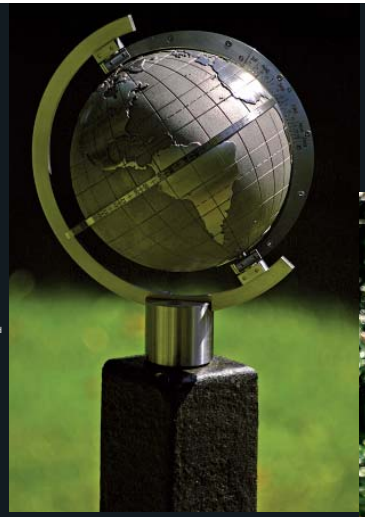
Seasons

On the MAGELLAN's noon adjusting arm you can trace the sun's apparent migration between the tropics and ascertain the date. The beginning of each of the four seasons is identified by the ancient sign of the zodiac.

Beginning of summer on June 21st
Tropic of Cancer

Beginning of autumn on September 23rd
First point of Libra





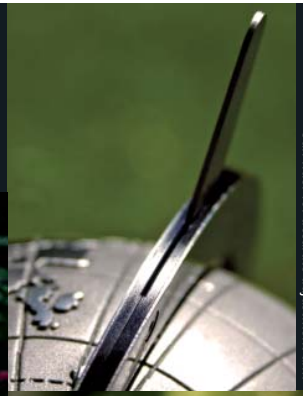
MAGELLAN on a granite post

Beginning of winter on December 21st
Tropic of Capricorn

MAGELLAN on a ø32 mm stand

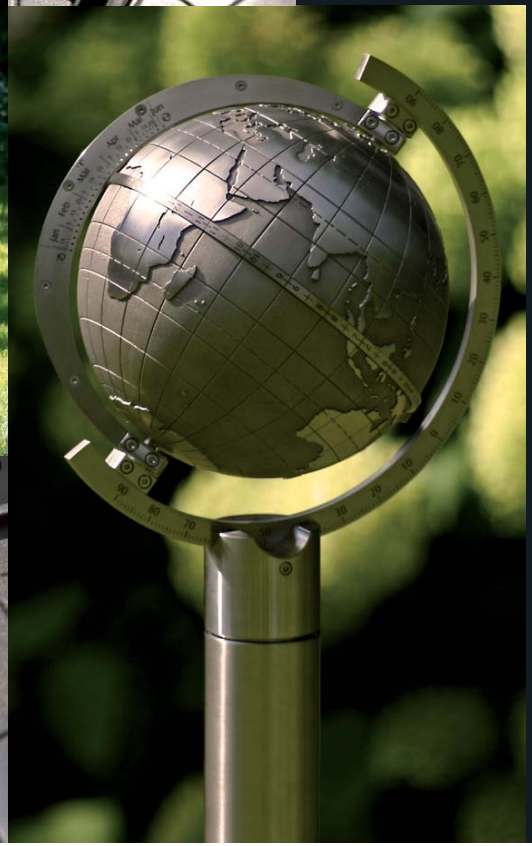
15:30 hours CET on April 15th

Helios
ASTRONOMISCHE UHREN



Sun rider for accurate adjustment arm

Equation of time and longitude



MAGELLAN on a ø50mm stand

Day and night

Adjusted exactly for its location's latitude and longitude, the MAGELLAN globe takes up the same position as the Earth. The sunlight continually illuminates the steel globe just like our planet, so that day and night are clearly visible.

Beginning of winter on June 21st Tropic of Cancer

Beginning of spring on March 21st
First point of Aries

Beginning of winter on December 21st
Tropic of Capricorn

Discover time

Day and night, sunrise and sunset, polar day and polar night. The sun itself demonstrates to you after "natural phenomena", which in their eternal play of light and shadow determine the course of our life on earth, to you.