

BW-Fixators[®] / BWF 固定器

Installation Service / 安装服务



Pre-installation of
BW-Fixators[®] with
laser tracker.

借助激光追踪仪预
装BWF固定器

BWF
...the best for accuracy.

The pre-installation of BW-Fixators®

预装BWF固定器

Calibration of BW-Fixators® with a laser tracker

使用激光追踪仪校准BWF固定器



X	<small>±0.500</small> 5.350
Y	<small>±0.500</small> -0.430
Z	<small>±0.200</small> 0.070
	Fixator® Nr.:22

Easy and precise calibration of the BW-Fixators® with a laser tracker.

借助激光追踪仪轻松精确校准BWF固定器。

Accuracy: / 精确度:

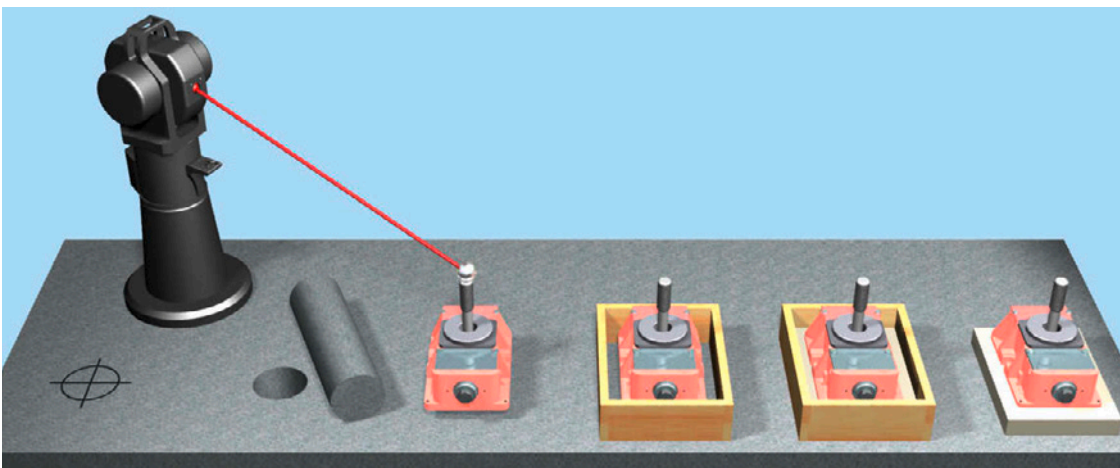
x-y = ± 0,5 mm
z = ± 0,2 mm

(According to the manufacturer higher accuracies are possible)

Explanation of the pre-installation

预装流程

- Production of a reference coordinate system in accordance with reference points, levels or offsets from specific benchmarks provided by the customer.
根据客户给出的在施工现场的点、平面或到特定几何结构的距离创建一个参考坐标系。
- Import of the individual coordinates of the BW-Fixators® specified by the customer.
代入由客户给出的单个BWF固定器的坐标。
- Marking and drilling of the anchor holes and/or positioning of the BW-Fixators®.
标出锚孔并钻孔并/或校准BWF固定器。
- Grouting of the BW-Fixators® and verification of their coordinates.
灌封BWF固定器 并检查其坐标。



Setting the BW-Fixators® before arrival of the machine 在架设机器前安装BWF固定器



After marking the anchor holes, they will be drilled with a core drilling machine.
在标出锚定孔之后使用钻孔取芯机钻孔。



Each BW-Fixator® will be set individually into the reference coordinate system. Thus, there are no subsequent errors.
每个BWF固定器将逐一在确定的参考坐标系中被校准。不会出现累积错误。



Positioned and grouted BW-Fixators®. Ready for machine arrival!
经过校准和灌封的固定器场地。机器可以登场了！

Advantages of the pre-installation 预装的优势

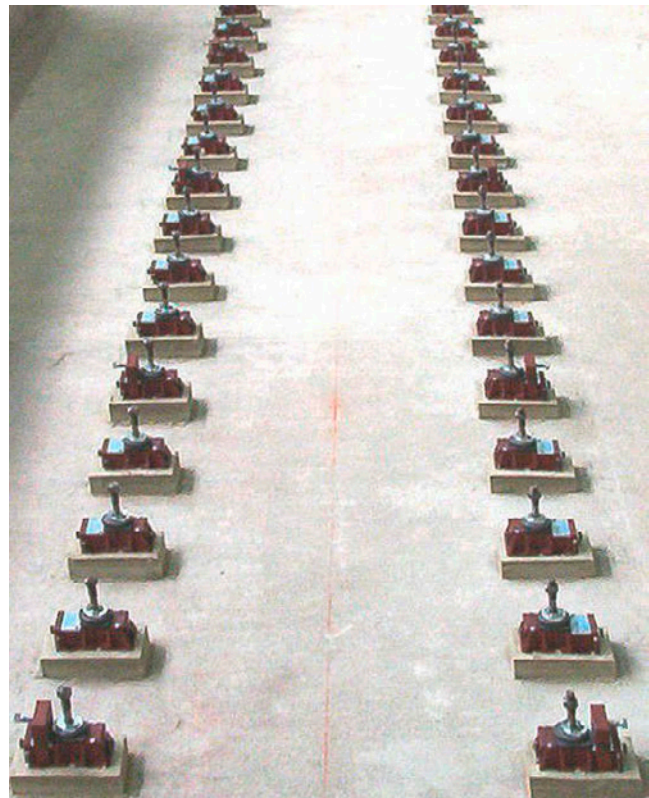
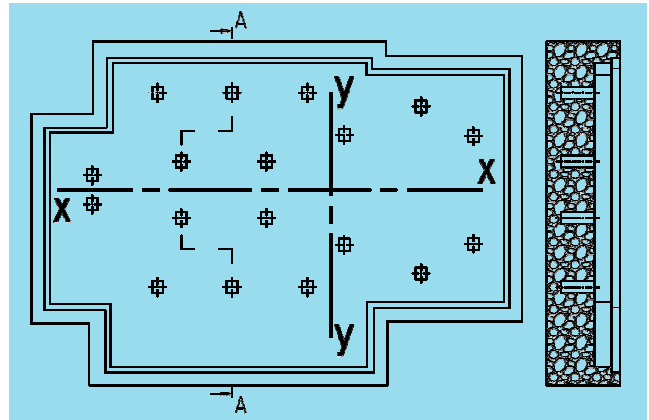
- **Precise measurement with laser tracker.**
使用激光追踪仪精确校准。
- **The machine can be set and aligned immediately after arriving.**
在机器到达前可以立即架设与调整。
- **No waiting time due to concrete or grout curing.**
不会因等待水泥或灌封材料的凝固而耽误时间。
- **The position of the machine is predetermined by BW-Fixators®.**
通过BWF固定器提前确定机器在地基上的位置。
- **Due to precise setting of the BW-Fixators® only minimal alignment is needed.**
通过BWF固定器精确的提前设置过后只需进行微调。
- **Large cost and time saving.**
可节省大量的安装时间与消耗。

Conditions for a pre-installation

预装条件

We require / 我们需要:

- Certified installation plan which shows
机器规划图用于提取
根据客户给出的在施工现场的点、平面或到特定几何结构的距离创建一个参考坐标系。
 - the position of the main axes on the foundation or to other peripheral features of the surrounding building,
主轴在地基上或者到周围建筑的其他外部设备点的位置、
 - the position of each individual BW-Fixator® and
单个BWF固定器®的位置以及
 - the respective thickness of each mounting foot.
每个机器底座高度信息。
- Cleaned foundation (swept and free of concrete slurry).
干净的地面（打扫干净的以及无水泥浆）。
- For new foundations, at least 21 days concrete curing time before installation.
新铺设地基在安装前至少要留出21天的硬化时间。
- Anchor holes pre-soaked with water at the beginning of the installation.
安装开始时充分提前水化锚孔。
- Closed, adequately tempered building.
($>10^{\circ}\text{C}$, $>50^{\circ}\text{F}$).
封闭的、温度足够高的室温 ($>10^{\circ}\text{C}$) 。
- Electrical and water supply.
电源与水源供应。



Grouting the BW-Fixators® and the anchor bolts will be done by our own engineers with non-shrink grout (Pagel V1).
BWF固定器 和锚固螺栓的灌封由我们自己的安装工人使用无收缩灌浆料（Page1 V1）进行。

For a quote please provide following information:

我们供货需要以下信息:

- **Number, size and position of the BW-Fixators®.**
BWF固定器 的数量、尺寸以及位置
- **Basic design of the foundation (one or multiple levels).**
地基质地（一个或多个高度）
- **Place of installation (distance to our location).**
安装地址（距离我公司的路程）
- **Were the anchor holes made on site or should we drill them?**
锚孔是否已经打好或者需要我们来钻孔。