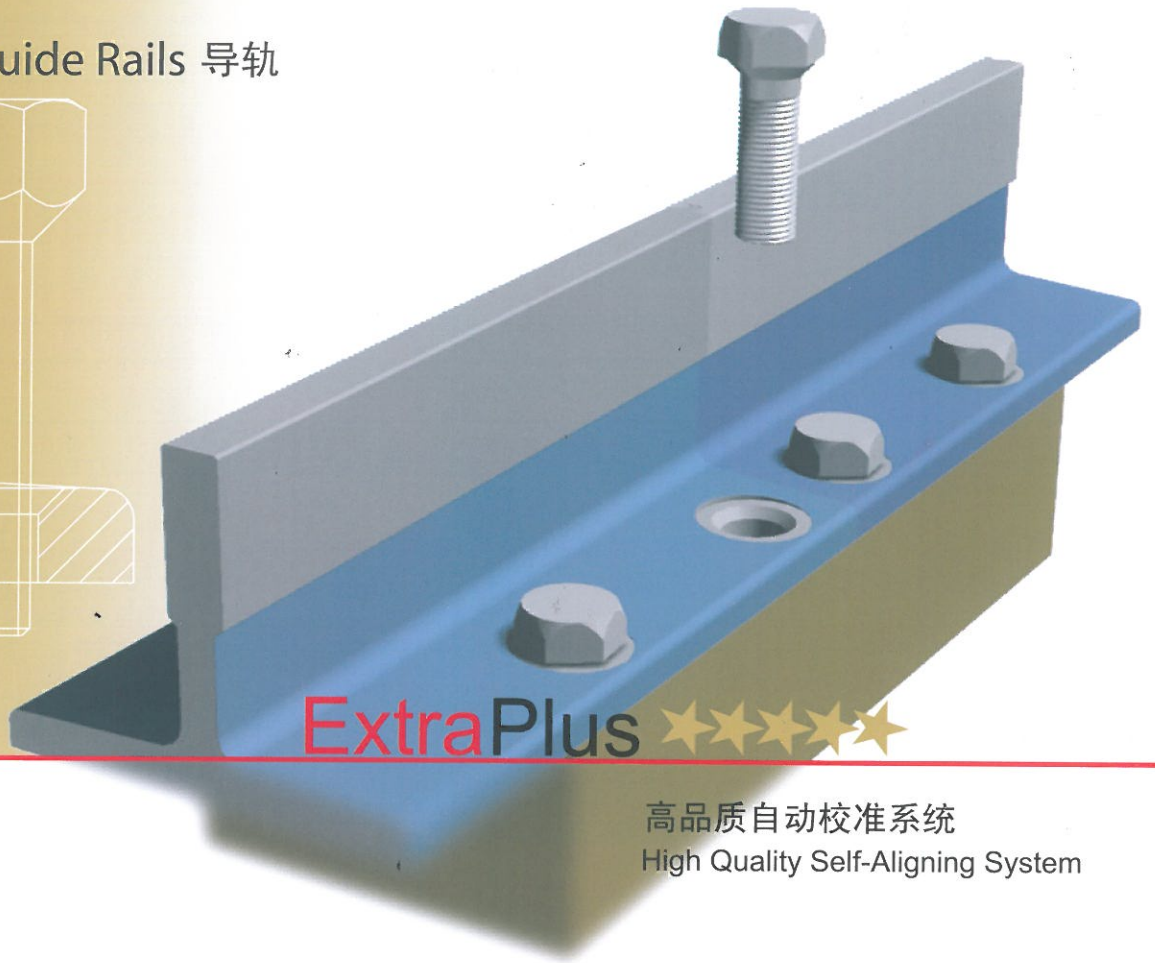
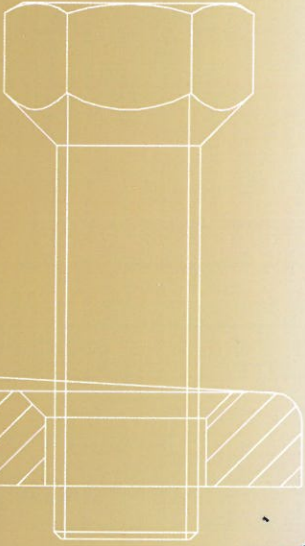


Guide Rails 导轨



ExtraPlus ★★★★★

高品质自动校准系统
High Quality Self-Aligning System



 **Savera**

Elevator System Solutions



ExtraPlus ★★★★★

速度可达5米/秒 / Up to 5m/s

优点

- 连接处自动校准系统：只需要拧紧螺栓，不需要其他调校工具，导轨会自动校准。
- 改善轨道系统连接处公差：来源于自动校准系统与矫直精度更高的导轨两端的完美结合。
- 不依赖于安装工人的技能。
- 轨道系统品质长久保证（在最大负载下）
- 适合于地震带：连接板与导轨间不会产生滑动。
- 锥形螺栓防止导轨分离，在导轨安装阶段允许连接更多的导轨。
- 非常具有竞争力的价格，与标准导轨接近。

特殊功能

- 带精确定位螺孔的螺纹连接板（数控机加工）。
- 锥形螺栓：螺栓锥形区域与导轨铳孔自动对准。
- 在生产过程中100%控制端部铣削：确保端部公差对于连接处的自动校准至关重要。
- 100%自动控制导轨矫直
- 导轨端部完美正确加工的垂直度：更小的公差加上为了满足要求专门设计的独家和可靠的生产流程。

操作原理

当拧紧锥形螺栓时，锥形面对中导轨螺孔（参考下页说明）。自动对中螺栓套件和连接板螺孔的位置（连接板孔距比导轨孔距稍近），在连接处与导轨充分接触。当两支导轨完全接触，只有一种可以校准的配置，因此消除了不确定性。其精确性是由导轨端部正确加工的垂直度来提供，公差由我们的生产流程来保证。

Advantages

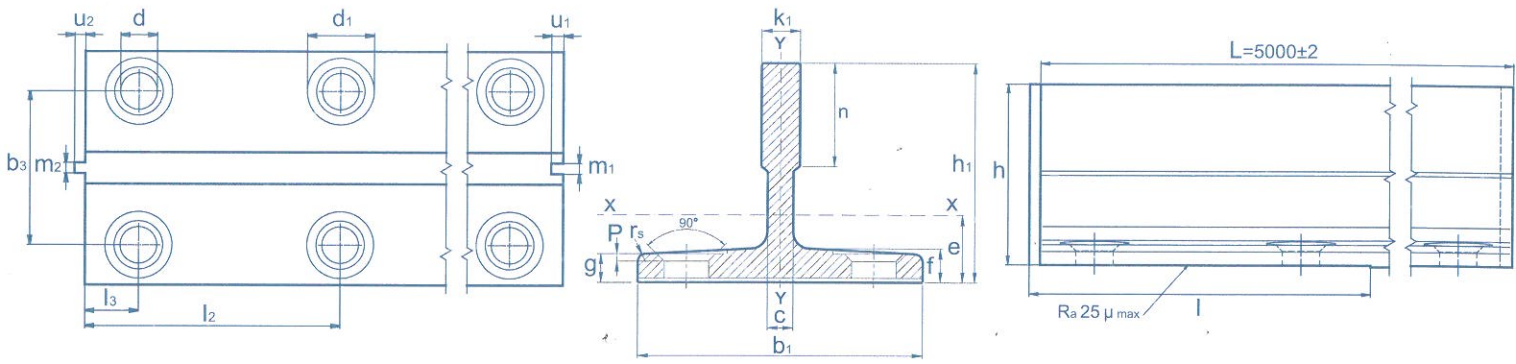
- Self-aligning system at the joints: simply by tightening the bolts without following any specific pattern, the guide rails become automatically aligned.
- Improved tolerances of the joints in the Riding Path: derived from the combination of the self-aligning system and the reduced straightening tolerances at the guide-rail ends.
- Not dependent on the skills of the installers.
- Preserves the Riding Path over the years (under extreme loads).
- Suitable for seismic zones: sliding between fishplates and guide rails does not occur.
- The conic bolts prevent the guide rails from separating, allowing more rails to hang from each other during the installation stage.
- Very competitive price, similar to that of the standard product.

Special Features

- Tapped fishplates with accurate positioning of holes (CNC machined).
- Conic bolts: bolt cones are centered automatically on the guide-rail countersink.
- 100% controlled machining of ends in the manufacturing process: guaranteeing tolerances at the ends which are critical for automatic alignment of joints.
- 100% automatic control of the guide rail straightening process.
- Excellent, machined right angles at guide-rail ends: narrow tolerances plus an exclusive and reliable manufacturing process specifically designed to meet these requirements.

Operating principle

When tightening the conic bolts, their cones are centered on the guide-rail holes (see illustrations on the next page). The self-centering hole-bolt set and the position of the holes of the fishplate (the fishplate holes being slightly closer than the guide rail holes) cause full contact between the guide rails at the joints. When both guide rails are in full contact, there is only one possible configuration for alignment, thus eliminating uncertainty. Its accuracy is provided by the machined right angles at the guide-rail ends, whose tolerance is guaranteed in our process.



导轨、连接板和螺栓的尺寸和导轨、连接板的孔距 / Dimensions and distance between holes, fishplates and bolts

导轨型号与尺寸(mm)
Dimensions (mm)

| | $b_1 \pm 1,50$ | $h_1 \pm 0,75$ | $h \pm 0,03$ | l | $^{+3}_{-0} k_1$ | $^{+0,05}_{-0} n$ | $^{+3}_{-0} c$ | $g \pm 0,75$ | $f \pm 0,75$ | r_s | m_1 | $^{+0,03}_{-0} m_2$ | $^{+0}_{-0,03} u_1 \pm 0,10$ | $^{+0}_{-0,03} u_2 \pm 0,10$ | 直线度 / Straightness | |
|----------|----------------|----------------|--------------|-----|------------------|-------------------|----------------|--------------|--------------|-------|-------|---------------------|------------------------------|------------------------------|--------------------|-------------|
| | | | | | | | | | | | | | | | f/5m max. mm | f/m max. mm |
| T89/B | 89 | 62 | 61 | 156 | 16 | 34 | 10 | 8 | 11 | 3 | 6,4 | 6,37 | 7,14 | 6,35 | 1,25 | 0,25 |
| T114/B | 114 | 89 | 88 | 156 | 16 | 38 | 9,5 | 8 | 11 | 4 | 6,4 | 6,37 | 7,14 | 6,35 | 1 | 0,2 |
| T127-1/B | 127 | 89 | 88 | 156 | 16 | 45 | 10 | 8 | 11 | 4 | 6,4 | 6,37 | 7,14 | 6,35 | 1 | 0,2 |
| T127-2/B | 127 | 89 | 88 | 156 | 16 | 51 | 10 | 12,7 | 15,9 | 5 | 6,4 | 6,37 | 7,14 | 6,35 | 1 | 0,2 |

导轨及连接板的孔距(mm.)

Distance between holes, guide rails and fishplates (mm.)

| | d | d1 | P | b2 | $b_3 \pm 0,20$ | $l_1^{+3}_{-0}$ | $l_2 \pm 0,20$ | $l_3 \pm 0,20$ | $l_4 \pm 0,20$ | $l_5 \pm 0,20$ | 连接板基于导轨型号的参数 Fishplate data depending on choice | | T形截面 T-Section (kg/pc) | 加厚连接板 Thick FP (kg/pc) | M |
|----------|----|----|-----|-----|----------------|-----------------|----------------|----------------|----------------|----------------|--|---------------|------------------------------|------------------------------|-----|
| | | | | | | | | | | | F^{+3}_{-0} | V^{+2}_{-0} | | | |
| T89/B | 14 | 26 | 3,5 | 90 | 57,2 | 305 | 114,3 | 38,1 | 113,9 | 37,7 | 62 | 28 | 4,43 | 5,88 | M12 |
| T114/B | 18 | 33 | 3,5 | 120 | 70 | 305 | 114,3 | 38,1 | 113,9 | 37,7 | 89 | 38 | 5,81 | 10,54 | M16 |
| T127-1/B | 18 | 33 | 3,5 | 130 | 79,4 | 305 | 114,3 | 38,1 | 113,9 | 37,7 | 89 | 38 | 6,31 | 11,44 | M16 |
| T127-2/B | 18 | 33 | 3,5 | 130 | 79,4 | 305 | 114,3 | 38,1 | 113,9 | 37,7 | 89 | 38 | 7,96 | 11,44 | M16 |

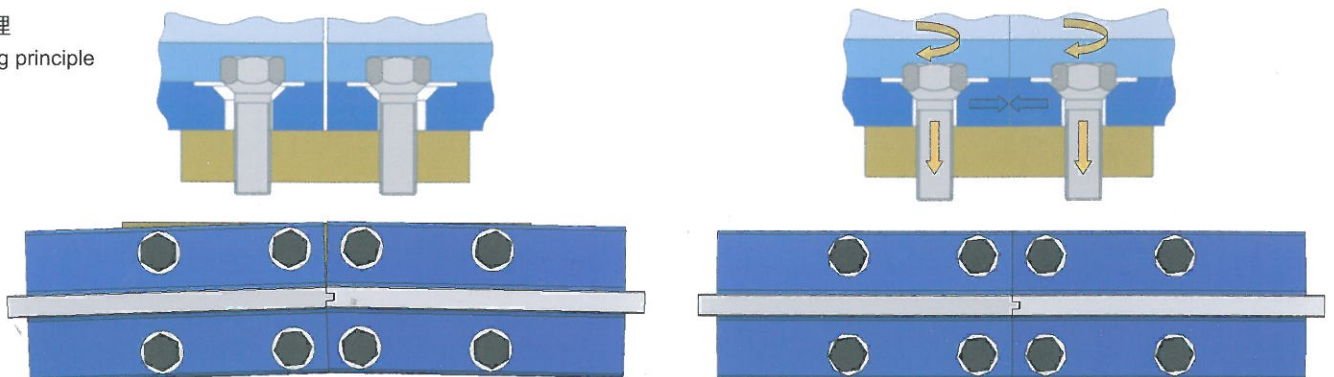
技术参数

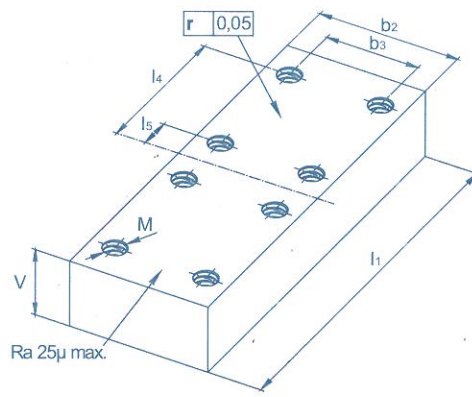
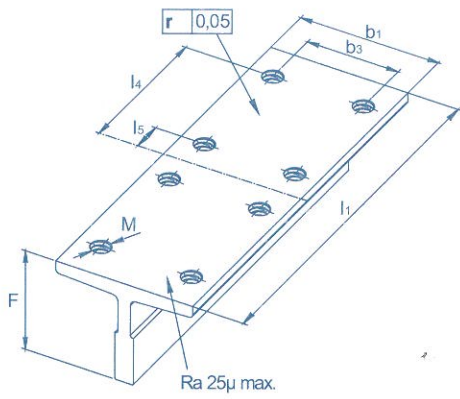
Technical Characteristics

| | Sección Section cm ² | Peso Weight Kg/m | e cm | I _{xx} cm ⁴ | W _{xx} cm ³ | i _{xx} cm | I _{yy} cm ⁴ | W _{yy} cm ³ | i _{yy} cm |
|----------|---------------------------------------|------------------------|---------|------------------------------------|------------------------------------|-----------------------|------------------------------------|------------------------------------|-----------------------|
| T89/B | 15,77 | 12,38 | 2,032 | 59,83 | 14,35 | 1,948 | 52,41 | 11,78 | 1,823 |
| T114/B | 20,89 | 16,4 | 2,865 | 179,3 | 29,7 | 2,93 | 108,6 | 19,05 | 2,28 |
| T127-1/B | 22,74 | 17,85 | 2,77 | 187,9 | 30,65 | 3,065 | 149,9 | 23,61 | 2,361 |
| T127-2/B | 28,72 | 22,55 | 2,478 | 201,7 | 31,17 | 2,64 | 229,9 | 36,2 | 2,829 |

操作原理

Operating principle





化学成分

Chemical Composition

| C% | Mn% | P% | S% | Si% |
|------|------|-------|-------|------|
| Max. | Max. | Max. | Max. | Max. |
| 0,21 | 1,5 | 0,045 | 0,045 | 0,4 |

机械性能 / Mechanical Characteristics

| | 抗拉强度 Breaking point N/mm ² | 屈服点 Yield point N/mm ² min. | 伸缩率 Elongation %min. |
|----------------------------|---|--|----------------------------|
| 导向面 ≤ 16mm Blade ≤ 16mm | 410 - 520 | 275 | 22 |
| 导向面 > 16mm Blade > 16mm | 410 - 520 | 265 | 22 |

(*) 抗拉强度的范围已经被缩小来优化安全钳的作用。

(*) the range of the breaking point has been reduced to optimize the operation of the safety gear.

重量和包装

Weights (kg) and Packing

| 导轨型号 Code | 重量 / 支 Weight / bar | 重量 / 支 含包装 Weight / packed bar | 重量 / 支 含包装及附件 Weight / packed bar and accessories | 每捆导轨数量 No. of bars per bundle | 每 20 寸集装箱导轨数量 No. of bars per 20ft container | |
|--------------|------------------------|-----------------------------------|--|----------------------------------|---|------------------------------|
| | | | | | 包含附件 With accessories | 不包含附件 Without accessories |
| T89/B | 61,9 | 62,9 | 70,2 | 10 | 320 | 340 |
| T114/B | 82 | 83 | 90,28 | 10 | 240 | 260 |
| T127-1/B | 89,25 | 90,25 | 97,53 | 10 | 220 | 240 |
| T127-2/B | 112,75 | 113,75 | 121,03 | 10 | 170 | 190 |

防锈保护

Anti-rust Protection (*)

| 型号 Type | 厚度 Thickness | 防锈时间 (月) Months | |
|------------------------|-----------------|--------------------|-----------------|
| | | 户外防锈 outdoors | 室内防锈 indoors |
| Tectyl 511 M (油状/oil) | 2 - 10 µ | • | 1 - 3 |
| Tectyl 502 C (蜡状/wax) | 20 - 30 µ | 0 - 1 | 4 - 8 |
| Tectyl 506 WD (蜡状/wax) | 标准 Standard | 20 - 30 µ | 1 - 3 |
| | 特殊 Special | 40 - 50 µ | 3 - 6 |

(*) 目标数据根据环境的湿度和盐度变化。

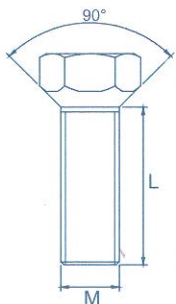
(*) Orientative data with change according to environment humidity and salinity.

去除防锈保护 / Anti-rust Protection Removal


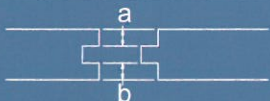
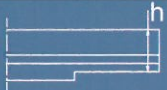



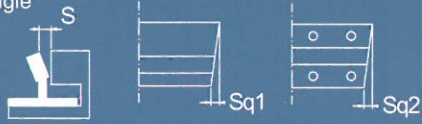
| 产品 Product | 水溶性 (%重量) Solubility in water (% weight) |
|------------------------------|---|
| 防锈油溶剂率 Tectyl Solvent TFR | 50 |

特点 / Characteristics

| 交货 Supply | 保护 Protection | 长度 Length | 连接板 Fishplates |
|--|---|--------------|---|
| 包装 • 用螺栓固定的钢带 • 硬纸板 • 底部4个木块 • 保护套头 • 间隔块 | • 蓝色油漆 • Tectyl 506 WD 防锈油 (以下可选) - Tectyl 502 C - Tectyl 511 M | 5 m | T形截面 (特殊尺寸) 加厚连接板 (特殊尺寸) U形连接板 (特殊尺寸) |
| Packing • Steel sheet with bolts • Cardboard • 4 wooden blocks at the bottom • Caps • Spacers | • Blue paint • Tectyl 506 WD Options - Tectyl 502 C - Tectyl 511 M | 5 m | T-Section (special dimensions) Thick Fishplates (special dimensions) U-Shape (special dimensions) |



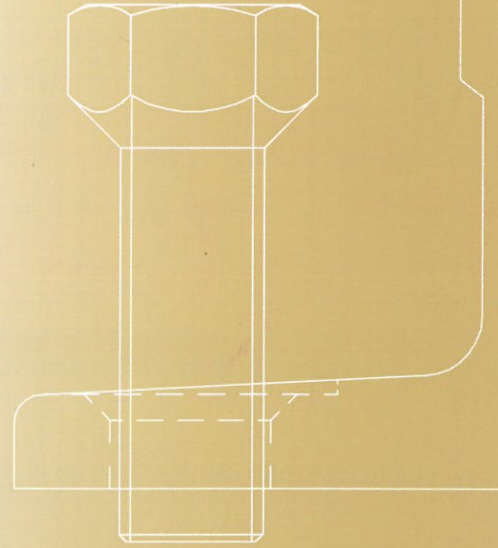
| 锥形螺栓 Conic Bolt | M | L | 等级 Property class |
|--------------------|-----|----|----------------------|
| T89/B | M12 | 30 | 8.8 |
| T114/B | M16 | 40 | 8.8 |
| T127-1/B | M16 | 40 | 8.8 |
| T127-2/B | M16 | 40 | 8.8 |

| | 参数 Parameter | 机加工 Machined 公差 / Tolerance |
|---|---|--|
| 直线度 Straightening |  | 参见尺寸表数据 Data indicated in "Dimensions" table |
| 对称度 Centering |  | a - b ±0,05 mm |
| 导轨高度 Guide height |  | h ±0,05 mm |
| 平行度 Parallelism base |  | h - h ₂ ±0,05 mm |
| 最大间隙 Maximum clearance key-keyway |  | E max. 0,09 mm |
| 粗糙度 Roughness | | Ra Long. 1,6 μ max. |
| | | Ra Transv. 0,8 - 3,2 μ |
| 扭曲度 Twist |  | R max. 1 mm / 5 m |
| 垂直度 Angle |  | s max. ±0,05 mm |
| | | sq1 ±0,05 mm |
| | | sq2 ±0,05 mm |

特点 / Characteristics

| 交货 Supply | 保护 Protection | 长度 Length | 连接板 Fishplates |
|---|---|--------------|--------------------|
| 包装 • 钢带 • PE泡沫 • 底部4个木块 | • 蓝色油漆 • 防锈油(可选) 选择 - Tectyl 502 C - Tectyl 511 M | 5 m | 标准连接板 |
| Packing • Sheet metal • P.E. Foam • 4 wooden blocks at the bottom | • Blue paint • Tectyl 506 WD Options - Tectyl 502 C - Tectyl 511 M | 5 m | Standard fishplate |





ExtraPlus ★★★★★

高品质自动校准系统
High Quality Self-Aligning System

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