



产品特性 Product features

- 工程塑料耐磨调整垫片。应用于轴向配合存在不可控间隙的调整。降低运动过程中的振动和噪音
- 补偿轴向间隙和加工公差
- 吸震和降低噪音
- 免维护，自润滑
- 耐腐蚀、质量轻
- Engineering plastic wear resistance washer. Suitable for a fitting to the uncontrollable axial space in order to reduce the vibration and noise during the operation
- Compensate the axial clearance and machining tolerance
- Shock absorbing and noise optimization
- Maintenance free and self-lubricated
- Corrosion resistance and light weight

结构设计 Structure design

CSB-PEW[®] 塑料板簧轴向平面被设计成了凹凸面，从而使得原先的平面垫片变成了既有垫片功能又能调整轴向配合间隙和加工误差，使得设备运行过程中更加平稳和安静。

CSB-PEW[®] plastic flat spring is designed with a bump axial surface for the purpose of compensates the axial fitting and machining tolerance in addition to function as a normal washer. Therefore the operation mechanism could be more stable and with less noise.

材料设计 Material design

CSB-PEW[®] 塑料板簧标准设计采用了耐磨专家材料CSB-EPB13，使得塑料板簧在确保弹力的同时具有极好的耐磨性能。当然，CSB也可提供耐高温高达250℃度的CSB-EPB5以及符合FDA食品安全等级的CSB-EPB5A材料制成。

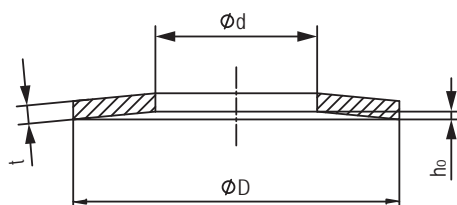
CSB-PEW[®] plastic flat spring is made from the professional wear resistance material CSB-EPB13 which provides good wear resistance and excellent spring feature. At the same time, CSB could also provide the spring washer with high temperature (up to 250℃) material CSB-EPB5 and FDA approved material CSB-EPB5A.

安装设计 Assembly design

一般为了调整配合间隙直接采用一片塑料板簧即可达到效果；当需要调整的间隙较大时，可将塑料板簧成组安装，即面对面或背靠背安装，此时整体板簧的弹力和一个板簧的弹力相同，但挠度和塑料成正比增加；如需要增加弹簧的弹力，可将塑料板簧平行叠装成弹簧组。

In order to adjust the fitting clearance, a single flat spring is usually inserted. For bigger clearance adjustment, a group of flat springs combined with back to back or face to face is also a good solution. If a higher elastic characteristic is needed, piling the flat springs parallel and assembles into the required position.

标准规格 Standard specifications



产品编码 Part No.:

PEW13-05

内径 Inner diameter

 材料 Material EPB13
EPB5
EPB5A

产品编码 Part No.	板簧挠度和弹力 Spring deflections and spring forces											重量Weight [g]
	D [mm]	d [mm]	t [mm]	h_0 [mm]	$h_{0.25}$ [mm]	$F_{0.25}$ [N]	$h_{0.5}$ [mm]	$F_{0.5}$ [N]	$h_{0.75}$ [mm]	$F_{0.75}$ [N]	F_{max} [N]	
PEW13-05	10	5.2	0.5	0.25	0.06	1	0.13	2.4	0.19	3.6	5	0.04
PEW13-06	12.5	6.2	0.7	0.3	0.08	3	0.15	5.1	0.23	8	12	0.11
PEW13-08	16	8.2	0.9	0.35	0.09	4	0.18	8	0.28	11	15	0.2
PEW13-10	20	10.2	1.1	0.45	0.11	5	0.22	10	0.33	15	18	0.33
PEW13-12	25	12.2	1.5	0.55	0.14	9	0.28	18	0.42	27	40	0.85
PEW13-16	31.5	16.3	1.75	0.7	0.18	15	0.35	32	0.53	51	70	1.44
PEW13-20	40	20.4	2.25	0.9	0.23	35	0.45	70	0.68	110	130	3.1

D: 外径 Outer diameter

d: 内径 Inner diameter

t: 厚度 Thickness

 h_0 : 板簧自由状态下可变形量 Maximum downward deflection of spring

 $h_{0.25}$, $h_{0.5}$, $h_{0.75}$: 分别是板簧变形25%, 50%, 75% The maximum downward deflection: 25%, 50%, 75%

 $F_{0.25}$, $F_{0.5}$, $F_{0.75}$: 分别是板簧变形25%, 50%, 75%时平均弹力 Spring force with 25% 50% 75% downward deflection

 F_{max} : 板簧最大弹力平均值 The maximum spring force

PEW塑料板簧安装方式 Plastic flat springs installation method

