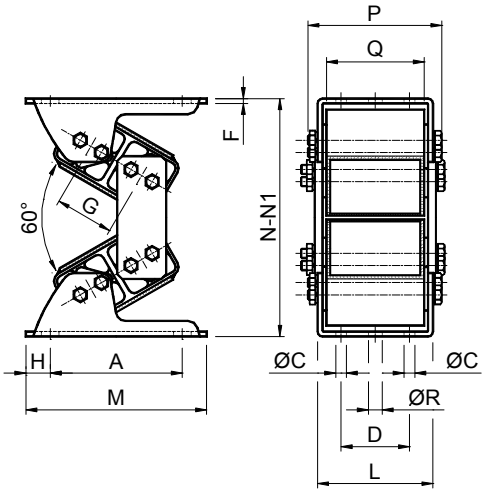
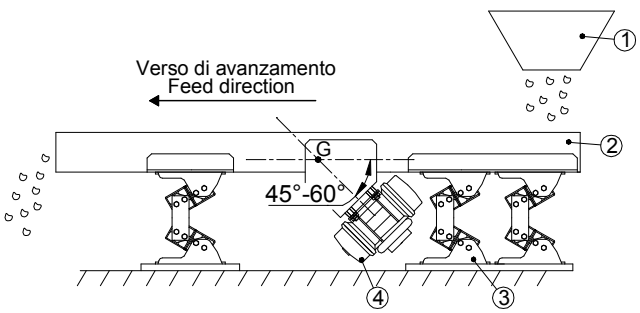
# VIB 弹性组件 型号: AN-D / *Elastic Components VIB Type: AN-D*




| 型号 *Type* | 编号 N° | Q | A | C | D | G | F | H | L | M | N | N1 | P | Q | R | 重量 *Weight* in kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AN-D 30** | **RE020880** | 485- 1164 | 90 | 9 | 30 | 31 | 3 | 12.5 | 61 | 115 | 137 | 117 | 74 | 50 | 9 | 1.30 |
| **AN-D 40** | **RE020882** | 970- 2425 | 120 | 9 | 50 | 44 | 4 | 15 | 93 | 150 | 184 | 157 | 116 | 80 | 11 | 2.90 |
| **AN-D 50** | **RE020884** | 1940- 3880 | 150 | 11 | 70 | 60 | 5 | 17.5 | 118 | 185 | 244 | 209 | 147 | 100 | 13.5 | 7.50 |
| **AN-D 60** | **RE020886** | 2910- 5820 | 170 | 13.5 | 80 | 73 | 6 | 25 | 132 | 220 | 298 | 252 | 168 | 110 | 18 | 11.50 |
| **AN-D 70/1.2** | **RE020888** | 3880- 8730 | 185 | 13.5 | 90 | 78 | 6 | 25 | 142 | 235 | 329 | 278 | 166 | 120 | 18 | 22.00 |
| **AN-D 70/1.6** | **RE020890** | 7760- 11640 | 185 | 13.5 | 90 | 78 | 8 | 25 | 186 | 235 | 329 | 278 | 214 | 160 | 18 | 25.50 |
| **AN-D 70/2.0** | **RE020892** | 10670- 15520 | 185 | 13.5 | 90 | 78 | 8 | 25 | 226 | 235 | 329 | 278 | 260 | 200 | 18 | 29.00 |

**Q:** 每个悬架负载以 N 表示 / *Max loading in N per suspension*

**N:** 无负载 / *loadless* / **N1:** 最大负载下 / *max loaded*




图例说明/ *Key*:

1: 装料漏斗 / *Load hopper*

2: 滑动槽 / *Sliding Chute*

3: VIB AN-D 型振动组件
*Oscillating component VIB Type AN-D*

4: 振动电机 / *Vibrating motor*

## 材料

尺寸从 30 到 60，夹具和连接板为钢制，双体和内部方管为铝制拉丝。 尺寸为 70，双体和连接板为钢制，内部方管为铝制拉丝。

## 处理

双体、夹具和连接板均为烤炉涂漆。

## 应用

AN-D 振动组件主要应用于建造使用内装振动电机或离心驱动的输送机和振动筛中的悬架。就相应的尺寸与 DE 组件相比，AN-D 弹性组件具有更短的连接部分，因此可在同样尺寸保证更高的承载能力。

## *MATERIALS*

*From size 30 to 60 clamps and connection links are in steel while double inner body are made out of light alloy profile. From size 70 double body, clamps and connection links are made of steel while inner square are made our of light alloy profile.*

## *TREATMENTS*

*Double body, clamps and connection links are oven painted.*

## *DUTY*

*The elastic component AN-D is generally used to realize suspensions for conveyors and screen actuated by motor vibrators or "on board" eccentric.*

*The elastic mountings AN-D have the connecting arms shorter than the same size of type DE and so they have an higher loading capacity than an equal size of type DE.*

**最大振幅 / *MAXIMUM AMPLITUDE***

| 型号 *TYPE* | $D_m$ max | | |
|---|---|---|---|
| | f=740 | f=980 | f=1460 |
| **AN-D 30** | 5 | 4 | 3 |
| **AN-D 40** | 6 | 5 | 4 |
| **AN-D 50** | 8 | 7 | 5 |
| **AN-D 60** | 10 | 8 | 6 |
| **AN-D 70/1.2** | 12 | 10 | 8 |
| **AN-D 70/1.6** | 12 | 10 | 8 |
| **AN-D 70/2.0** | 12 | 10 | 8 |

**$D_m$:** 最大振幅 / *Max amplitude*;

**f:** 偏心旋转速度
*Rotation eccentric velocity*

**动力弹性 / *DYNAMIC SPRING VALUE***

| 型号 *TYPE* | $D_m$ | $E_d$ | |
|---|---|---|---|
| | | 垂直 | 水平 |
| **AN-D 30** | 4 | 96 | 19 |
| **AN-D 40** | 4 | 154 | 34 |
| **AN-D 50** | 6 | 178 | 38 |
| **AN-D 60** | 8 | 221 | 67 |
| **AN-D 70/1.2** | 8 | 298 | 115 |
| **AN-D 70/1.6** | 8 | 413 | 154 |
| **AN-D 70/2.0** | 8 | 518 | 190 |

**$E_d$:** 动力弹性 [N/mm] f=980 $min^{-1}$, **$D_m$ 在表格中特指**
***$E_d$:*** *Dynamic spring value [N/mm] at f=980 $min^{-1}$, with **$D_m$** as in the table*

**计算实例:** 计算 AN-D 悬架的准确尺寸。

***CALCULATION EXAMPLE*:** *Determination of the correct AN-D suspension correct size.*

**X:** 悬架数目 / *Suspension number*: 6

**$G_m$:** 所输送物料重量/ *Material weight*: 500 N

**$G_g$:** 槽重 / *Chute weight*: 3000 N

**$G_v$**: 振动电机重量 / *Motor vibrators weight*: 200 N

未知数据/ *Unknow data*:

**$Q_0$:** 每个悬架的负载 / *Load capacity per mounting*

计算步骤 / *Calculation steps*:

总重量 G 为槽重 (**$G_g$**) 与所输送物料重量的(**$G_m$**) 的 22%的总和加上振动电机的重量。
*The total weight G is given by the sum of weight of the chute (**$G_g$**) plus 22% of the weight of the material to be conveyed (**$G_m$**) plus the weight of the motovibrators.*

**G:** 总重量 / *Total weight*

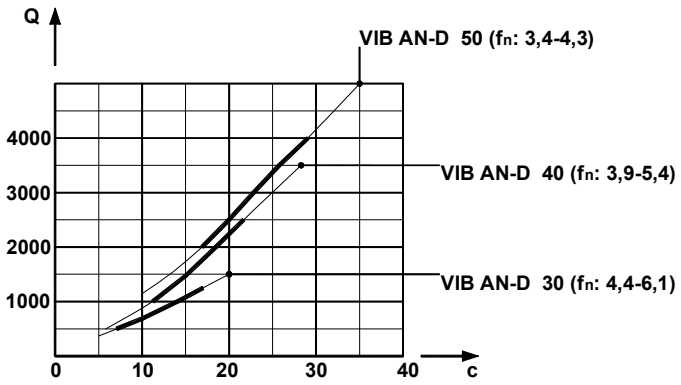
$$= G_g + \frac{G_m \cdot 22}{100} + 2 \cdot G_V = 3000 + \frac{500 \cdot 22}{100} + 2 \cdot 200 = 3510 \text{ N}$$

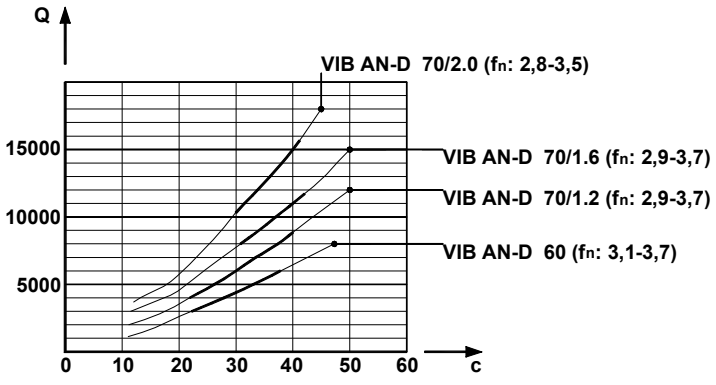
**$Q_0$:** 总重量(G)除以悬架数目(X), 可得到悬架种类，即:
*The suspension type is obtained by dividing the total weight (G) by the number of mountings (X), so*:

$$= \frac{G}{X} = \frac{3510}{6} = 585 \text{ N}$$

**结论:** 应使用 6 个 **AN-D 30** 悬架。
***Conclusion:*** *It must be used 6 pcs* **AN-D 30** *mountings.*

## 负载图 / *LOAD GRAPH*




(**Q**: 垂直压缩负载 [N]; **c**: 变形量 [mm]; **$f_n$**: 固有频率 [Hz])
(***Q**: Vertical compression load [N]; **c**: Set [mm]; **$f_n$**: Own frequency [Hz])*