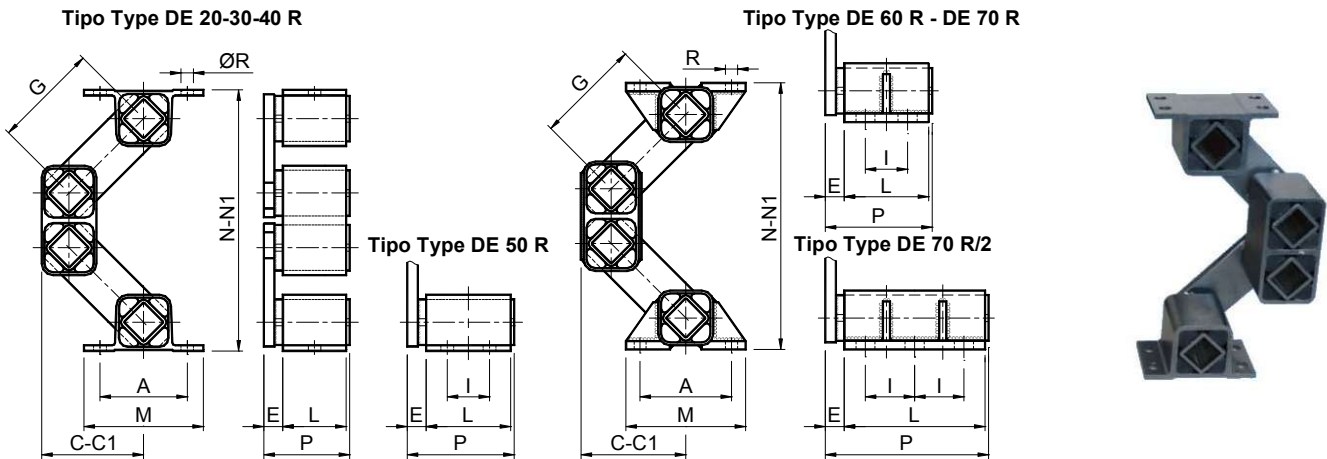


VIB 弹性组件 型号: DE R / Elastic Components VIB Type: DE R



型号 Type	编号 N°	Q	A	C	C1	E	G	I	L	M	N	N1	P	R	重量 Weight in kg
DE 20 R	REA20742	0- 150	50	71	89	10	80	-	40	65	169	124	52	7	0.51
DE 30 R	REA20744	116- 280	60	87	107	14	100	-	50	80	208	155	67	9	1.15
DE 40 R	REA20746	238- 760	80	94	114	17	100	-	60	105	235	175	80	11	2.20
DE 50 R	REA20748	580- 1500	100	120	147	21	125	40	80	125	305	235	104	13	5.10
DE 60 R	REA20750	1160- 2880	115	141	172	28	140	65	100	145	340	260	132	13x20	12.00
DE 70 R	REA20752	2380- 5780	130	152	182	35	150	60	120	170	380	280	160	17x27	20.00
DE 70 R / 2	RE020753	4074- 9700	130	152	182	40	150	70	200	170	380	280	245	17x27	25.00

Q: 每个悬架最大负载 / Max loading in N per suspension

C: 无负载 / loadless / **C1:** 最大负载 / max loaded

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

材料

尺寸从 20 到 50，外壳和双中心体为铝制拉丝，手柄为钢制。

DE 60 R：外壳和手柄为钢制，双中心体为铝制拉丝。

DE 70 R - DE 70 R / 2：外壳、手柄、双中心体均为钢制。

处理

外壳、双中心体、手柄和夹具均为烤炉涂漆。

应用

DE 振动组件主要应用于建造在使用“内装的”振动电机或离心驱动的输送机和振动筛中的悬架。

“DE R”所有外壳配有法兰，可用于组件固定，无需使用夹具。

MATERIALS

From size DE 20 R to 50 R external body and internal double body are made out of light alloy profile while arms are in steel. DE 60: The external bodies, the clamps and the arms are made of steel instead while the internal double body is made of light alloy profile. DE 60 R: The external bodies and the arms are made of steel instead while the internal double body is made of light alloy profile. DE 70 R – DE 70 R / 2: External bodies, arms and internal double body are made of steel.

TREATMENTS

The external bodies, the internal double body, the clamps and the arms are oven-painted.

DUTY

The DE oscillating element is generally used to realize suspensions for conveyors and vibrating screens actuated by motor vibrators or “on board” eccentric.

All “DE R” oscillating mountings do not need any clamps, because they have already flanges on external bodies.

动力弹性数据列表 $f=960 \text{ min}^{-1}$ $D_m=8 \text{ mm}$

DYNAMIC SPRING VALUE TABLE at $f=960 \text{ min}^{-1}$ and $D_m=8 \text{ mm}$

型号 TYPE	垂直 VERTICAL	水平 HORIZONTAL
	E_d [N/mm]	E_d [N/mm]
DE 20 - DE 20 R	9.6	5.8
DE 30 - DE 30 R	17.3	13.4
DE 40 - DE 40 R	38.4	24.0
DE 50 - DE 50 R	57.6	28.8
DE 60 - DE 60 R	96.0	48.0
DE 70 - DE 70 R	182.4	81.6
DE 70 R / 2	307.2	134.4

f: 旋转速度 / rotation velocity [min^{-1}];

D_m : 最大振幅 / Max amplitude [mm]

计算实例: 计算 DE 和 DE R 悬架的准确尺寸

CALCULATION EXAMPLE: Determination of DE and DE R suspension correct size.

起始数据 / Given data:

X: 悬架数目 / Suspension number: 6

G_m : 所输送物料总重 / Material weight: 500 N

G_g : 槽重 / Chute weight: 3000 N

G_v : 一架振动电机重量 / Motor vibrators weight: 200 N

未知数据 / Unknown 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.

$$G: \begin{matrix} \text{总重量} \\ \text{Total weight} \end{matrix} = G_g + \frac{G_m \cdot 22}{100} + 2 \cdot G_v = 3000 + \frac{500 \cdot 22}{100} + 2 \cdot 200 = 3510 \text{ N}$$

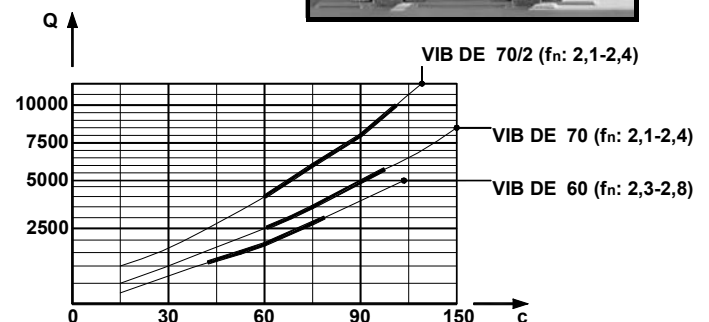
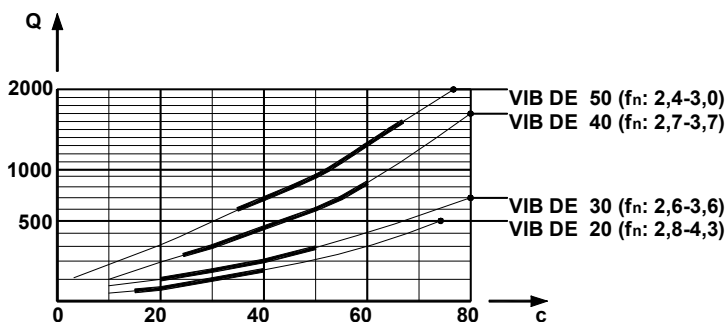
总重量 (G) 除以悬架数目 (X), 可得到悬架种类, 即:

$$Q_0: \begin{matrix} \text{The suspension type is obtained by dividing the total} \\ \text{weight (G) by the number of mountings (X), so:} \end{matrix} = \frac{G}{X} = \frac{3510}{6} = 585 \text{ N}$$

结论: 应使用 6 个 DE 50 悬架。

Conclusion: It must be used 6 pcs DE 50 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])

