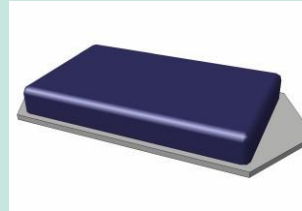
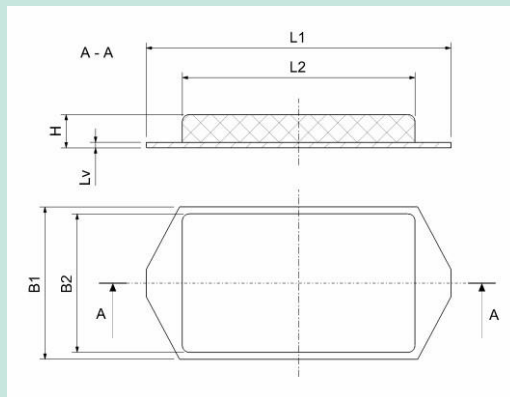
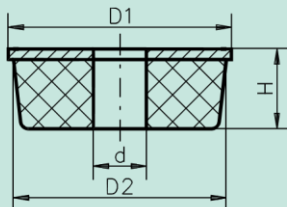


## KN

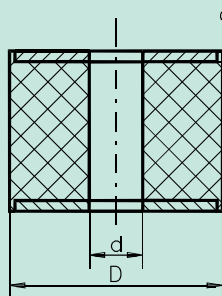


|             | L1  | L2  | B1  | B2 | H  | Lv |
|-------------|-----|-----|-----|----|----|----|
| <b>KN-1</b> | 148 | 100 | 98  | 98 | 20 | 4  |
| <b>KN-2</b> | 208 | 160 | 98  | 98 | 20 | 4  |
| <b>KN-3</b> | 600 | 550 | 105 | 95 | 20 | 4  |



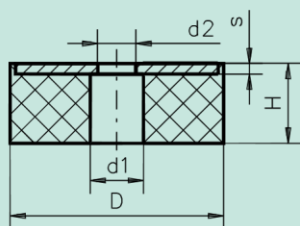
## RB

| Type     | D1  | D2  | d  | H  |
|----------|-----|-----|----|----|
| <b>1</b> | 42  | 40  | 18 | 23 |
| <b>2</b> | 62  | 60  | 21 | 33 |
| <b>3</b> | 72  | 70  | 21 | 33 |
| <b>4</b> | 82  | 80  | 25 | 40 |
| <b>5</b> | 102 | 100 | 32 | 54 |
| <b>6</b> | 122 | 120 | 38 | 46 |



## GH

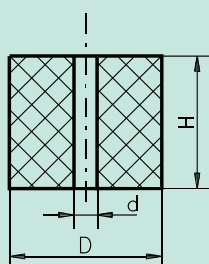
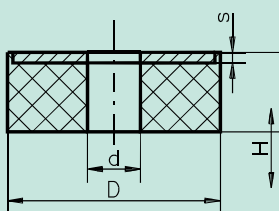
| D/d-H      | D   | d  | H   | s |
|------------|-----|----|-----|---|
| 15/6-25    | 15  | 6  | 25  | 2 |
| 20/6-25    | 20  | 6  | 25  | 2 |
| 40/13-20   | 40  | 13 | 20  | 2 |
| 40/13-30   | 40  | 13 | 30  | 2 |
| 40/13-40   | 40  | 13 | 40  | 2 |
| 50/17-20   | 50  | 13 | 20  | 3 |
| 50/17-40   | 50  | 17 | 40  | 3 |
| 50/17-50   | 50  | 17 | 50  | 3 |
| 50/21-15   | 50  | 21 | 15  | 3 |
| 50/21-30   | 50  | 21 | 30  | 3 |
| 60/21-50   | 60  | 21 | 50  | 4 |
| 75/25-55   | 75  | 25 | 55  | 3 |
| 80/21-30   | 80  | 21 | 30  | 3 |
| 100/21-40  | 100 | 21 | 40  | 4 |
| 100/31-40  | 100 | 31 | 40  | 4 |
| 100/33-75  | 100 | 33 | 75  | 5 |
| 120/41-40  | 120 | 41 | 40  | 5 |
| 120/51-40  | 120 | 51 | 40  | 5 |
| 150/51-100 | 150 | 51 | 100 | 6 |
| 200/32-100 | 200 | 32 | 100 | 8 |
| 200/61-100 | 200 | 61 | 100 | 8 |



## GK

| D/H    | D   | H  | d1 | d2 | s |
|--------|-----|----|----|----|---|
| 30/16  | 30  | 16 | 16 | 9  | 3 |
| 40/16  | 40  | 16 | 16 | 9  | 3 |
| 40/20  | 40  | 20 | 17 | 9  | 3 |
| 50/16  | 50  | 16 | 20 | 11 | 3 |
| 50/20  | 50  | 20 | 22 | 11 | 3 |
| 60/18  | 60  | 18 | 25 | 25 | 3 |
| 60/20  | 60  | 20 | 25 | 11 | 4 |
| 75/25  | 75  | 25 | 30 | 13 | 6 |
| 80/20  | 80  | 20 | 32 | 13 | 4 |
| 100/25 | 100 | 25 | 40 | 13 | 6 |
| 100/30 | 100 | 30 | 60 | 33 | 6 |
| 120/25 | 125 | 25 | 50 | 17 | 6 |

## IS



| D/d-H     | D   | d  | H  | s |
|-----------|-----|----|----|---|
| 40/10-10  | 40  | 10 | 10 | 2 |
| 62/14-6   | 62  | 14 | 6  | 3 |
| 80/21-30  | 80  | 21 | 30 | 2 |
| 100/21-30 | 100 | 21 | 30 | 4 |
| 100/21-40 | 100 | 21 | 40 | 4 |
| 100/25-40 | 100 | 25 | 40 | 4 |
| 100/56-19 | 100 | 56 | 19 | 3 |
| 100/60-30 | 100 | 60 | 30 | 4 |
| 120/21-30 | 120 | 21 | 30 | 4 |
| 120/25-40 | 120 | 25 | 40 | 4 |
| 150/32-40 | 150 | 32 | 40 | 4 |

## GP



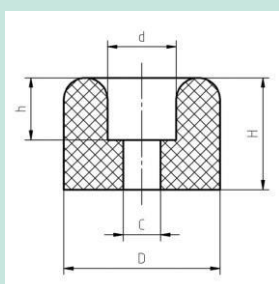
| D/d-H      | D    | d    | H   |
|------------|------|------|-----|
| 8/3-3      | 8,5  | 3,2  | 3,5 |
| 13/6,5-12  | 13   | 6,5  | 12  |
| 17,5/9-16  | 17,5 | 9    | 16  |
| 19/13-19   | 19   | 13   | 19  |
| 20/8,5-15  | 20   | 8,5  | 15  |
| 25/8-25    | 25   | 8,5  | 25  |
| 25/10,5-15 | 25   | 10,5 | 15  |
| 25/10,5-25 | 25   | 10,5 | 25  |
| 28/10,5-50 | 28   | 10,5 | 50  |
| 28/8-16    | 28   | 8    | 16  |
| 30/16-40   | 30   | 16   | 40  |
| 32/13-32   | 32   | 13,5 | 32  |
| 40/0,9-30  | 40   | 0,9  | 30  |
| 40/12-25   | 40   | 12   | 25  |
| 40/12-35   | 40   | 12   | 35  |
| 40/12-65   | 40   | 12   | 65  |
| 40/13-30   | 40   | 13   | 30  |
| 40/13,5-32 | 40   | 13,5 | 32  |
| 40/13-40   | 40   | 13,5 | 40  |
| 40/13-50   | 40   | 13,5 | 50  |
| 40/13,5-40 | 40   | 13,5 | 40  |
| 40/17-30   | 40   | 17   | 30  |
| 47/20-50   | 47   | 20   | 50  |
| 48/17-100  | 48   | 17   | 100 |
| 50/17-25   | 50   | 17   | 25  |

| D/d-H       | D   | d    | H   |
|-------------|-----|------|-----|
| 50/24,8-50  | 50  | 24,8 | 50  |
| 53/32,5-100 | 53  | 32,5 | 100 |
| 60/20-40    | 60  | 20   | 40  |
| 70/40-40    | 70  | 40   | 40  |
| 75/18-40    | 75  | 18   | 40  |
| 80/15-50    | 80  | 15   | 50  |
| 80/20-27    | 80  | 20   | 27  |
| 80/20-40    | 80  | 20   | 40  |
| 80/21-30    | 80  | 21   | 30  |
| 80/25-40    | 80  | 25   | 40  |
| 80/25-82    | 80  | 25   | 82  |
| 80/30-35    | 80  | 30   | 35  |
| 80/40-30    | 80  | 40   | 30  |
| 80/21-100   | 80  | 21   | 100 |
| 90/30-45    | 90  | 30   | 45  |
| 100/21-40   | 100 | 21   | 40  |
| 100/25-40   | 100 | 25   | 40  |
| 100/25-70   | 100 | 25   | 70  |
| 100/26-40   | 100 | 26   | 40  |
| 100/30-35   | 100 | 30   | 35  |
| 100/33-40   | 100 | 33   | 40  |
| 100/33-75   | 100 | 33   | 75  |
| 100/40-70   | 100 | 40   | 70  |
| 100/70-40   | 100 | 70   | 40  |
| 120/25-40   | 120 | 25   | 40  |

|           |    |    |     |
|-----------|----|----|-----|
| 50/17-40  | 50 | 17 | 40  |
| 50/10-45  | 50 | 10 | 45  |
| 50/14-80  | 50 | 14 | 80  |
| 50/17-32  | 50 | 17 | 32  |
| 50/17-50  | 50 | 17 | 50  |
| 50/17-63  | 50 | 17 | 63  |
| 50/17-80  | 50 | 17 | 80  |
| 58/17-100 | 58 | 17 | 100 |
| 50/20-38  | 50 | 20 | 38  |
| 50/24-50  | 50 | 24 | 50  |

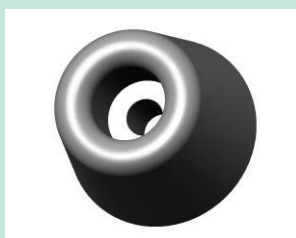
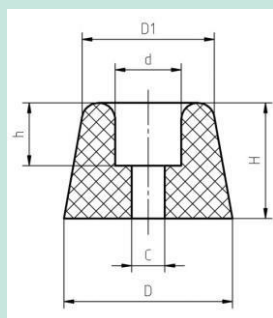
|            |     |    |     |
|------------|-----|----|-----|
| 120/40-40  | 120 | 40 | 40  |
| 120/50-40  | 120 | 50 | 40  |
| 125/35-125 | 125 | 35 | 125 |
| 125/50-125 | 125 | 50 | 125 |
| 150/51-100 | 150 | 51 | 100 |
| 150/45-180 | 150 | 45 | 180 |
| 160/33-160 | 160 | 33 | 160 |
| 200/61-100 | 200 | 61 | 100 |
| 200/33-200 | 200 | 33 | 200 |
| 250/60-200 | 250 | 60 | 200 |

## DBH



| D/H   | D  | H  | C | d  | h  |
|-------|----|----|---|----|----|
| 26/29 | 26 | 29 | 5 | 10 | 4  |
| 28/25 | 28 | 25 | 6 | 14 | 15 |
| 30/32 | 30 | 32 | 6 | 13 | 20 |
| 40/25 | 40 | 25 | 6 | 18 | 15 |
| 40/25 | 40 | 25 | 7 | 20 | 8  |
| 40/31 | 40 | 31 | 6 | 18 | 21 |
| 40/35 | 40 | 35 | 7 | 20 | 8  |
| 40/46 | 40 | 46 | 6 | 16 | 32 |

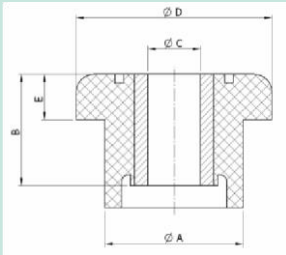
## DBF



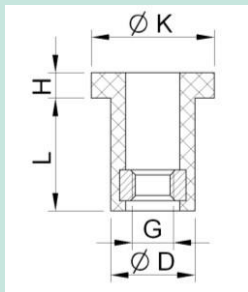
| D/H   | D  | H  | D1 | C   | d | h |
|-------|----|----|----|-----|---|---|
| 20/10 | 20 | 10 | 16 | 5   | 8 | 6 |
| 25/10 | 25 | 10 | 20 | 4,5 | 7 | 6 |



## T-BLOCK



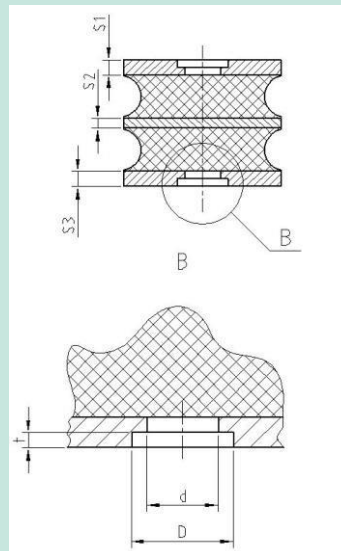
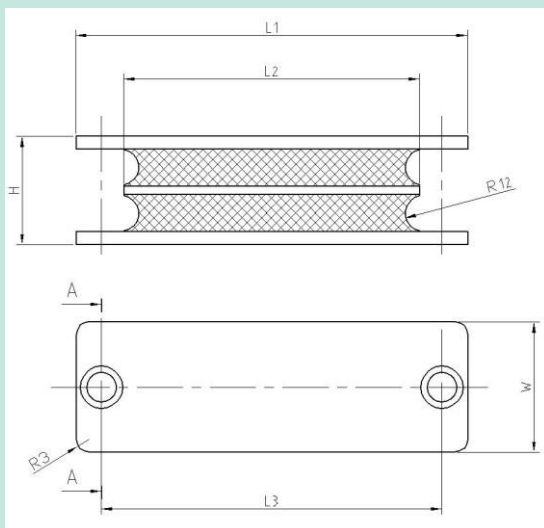
| Type        | A    | B    | C  | D    | E    |
|-------------|------|------|----|------|------|
| <b>TB-1</b> | 20,6 | 17,5 | 10 | 27,7 | 5,6  |
| <b>TB-2</b> | 31,5 | 25,4 | 13 | 44,5 | 10,4 |
| <b>TB-3</b> | 34,3 | 35   | 13 | 50,8 | 13,5 |
| <b>TB-4</b> | 41,1 | 44,5 | 16 | 63,5 | 15,7 |
| <b>TB-5</b> | 38   | 23   | 16 | 64   | 16   |
| <b>TB-6</b> | 56,6 | 50,8 | 20 | 95   | 25,4 |



## T-FLEX

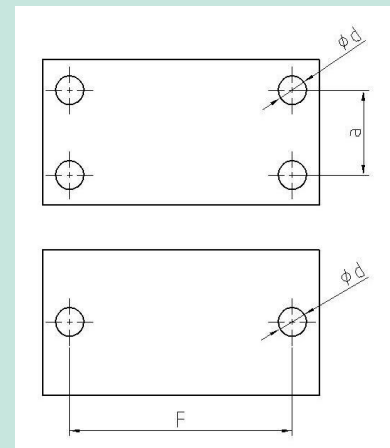
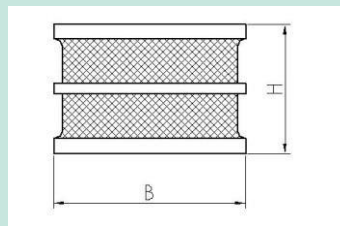
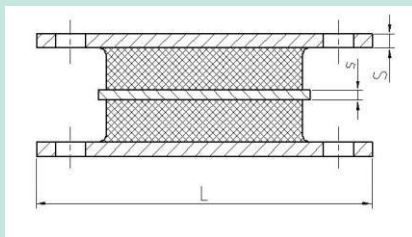
| Type        | D    | K    | L    | H   | G  |
|-------------|------|------|------|-----|----|
| <b>TF-1</b> | 6,6  | 8,8  | 8,8  | 3   | M3 |
| <b>TF-2</b> | 8,5  | 12   | 12   | 3,2 | M4 |
| <b>TF-3</b> | 10,2 | 15   | 14,5 | 3,5 | M5 |
| <b>TF-4</b> | 12   | 17,8 | 17   | 4,3 | M6 |
| <b>TF-5</b> | 16   | 23,6 | 21,8 | 5,3 | M8 |

## GMR SANDWICH



| Type   | L1  | L2   | L3  | H  | D  | d  | w  |
|--------|-----|------|-----|----|----|----|----|
| GMRS-1 | 108 | 63,5 | 89  | 43 | 20 | 13 | 57 |
| GMRS-2 | 168 | 127  | 146 | 43 | 20 | 13 | 57 |

## RMR SANDWICH

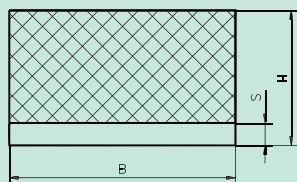


| Type  | H  | B   | L   | a  | F   | d  | S | S |
|-------|----|-----|-----|----|-----|----|---|---|
| R-100 | 43 | 57  | 108 | -  | 89  | 11 | 5 | 3 |
| R-600 | 43 | 108 | 251 | 51 | 210 | 13 | 5 | 3 |



## GS-M1

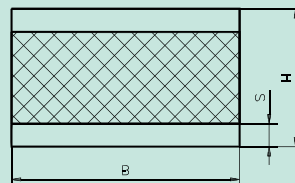
L=2000



| B/H    | B   | H  | S   |    |    |
|--------|-----|----|-----|----|----|
|        |     |    | 5   | 10 | 15 |
| 10/30  | 10  | 30 | ○ ○ |    | ★  |
| 20/25  | 20  | 25 | ★ ★ |    | ○  |
| 20/30  | 20  | 30 | ★ ○ |    | ○  |
| 25/25  | 25  | 25 | ★ ★ |    | ○  |
| 25/30  | 25  | 30 | ★ ★ |    | ○  |
| 30/20  | 30  | 20 | ★ ★ |    | ○  |
| 30/30  | 30  | 30 | ★ ★ |    | ○  |
| 35/15  | 35  | 15 | ★ ★ |    | ○  |
| 35/50  | 35  | 50 | ○ ★ |    | ○  |
| 40/20  | 40  | 20 | ★ ★ |    | ○  |
| 40/30  | 40  | 30 | ★ ★ |    | ○  |
| 40/35  | 40  | 35 | ★ ★ |    | ○  |
| 40/40  | 40  | 40 | ★ ★ |    | ○  |
| 40/45  | 40  | 45 | ○ ★ |    | ○  |
| 40/50  | 40  | 50 | ○ ★ |    | ○  |
| 50/10  | 50  | 10 | ★ ○ |    | ○  |
| 50/15  | 50  | 15 | ○ ○ |    | ★  |
| 50/20  | 50  | 20 | ★ ★ |    | ○  |
| 50/25  | 50  | 25 | ★ ★ |    | ○  |
| 50/30  | 50  | 30 | ★ ★ |    | ○  |
| 50/35  | 50  | 35 | ★ ★ |    | ○  |
| 50/40  | 50  | 40 | ★ ★ |    | ○  |
| 50/45  | 50  | 45 | ★ ★ |    | ○  |
| 50/50  | 50  | 50 | ★ ★ |    | ○  |
| 50/55  | 50  | 55 | ○ ★ |    | ○  |
| 50/60  | 50  | 60 | ★ ★ |    | ★  |
| 50/70  | 50  | 70 | ★ ★ |    | ○  |
| 60/20  | 60  | 20 | ★ ★ |    | ○  |
| 60/30  | 60  | 30 | ★ ★ |    | ○  |
| 60/35  | 60  | 35 | ★ ★ |    | ★  |
| 60/40  | 60  | 40 | ★ ★ |    | ○  |
| 60/45  | 60  | 45 | ○ ★ |    | ○  |
| 60/50  | 60  | 50 | ★ ★ |    | ○  |
| 60/55  | 60  | 55 | ★ ○ |    | ○  |
| 60/60  | 60  | 60 | ★ ★ |    | ★  |
| 120/45 | 120 | 45 | ○ ★ |    | ★  |
| 120/50 | 120 | 50 | ○ ★ |    | ★  |
| 120/60 | 120 | 60 | ○ ★ |    | ★  |
| 120/70 | 120 | 70 | ○ ★ |    | ★  |
| 120/80 | 120 | 80 | ○ ★ |    | ★  |

## GS-M2

L=2000



| B/H     | B   | H   | S |    |     |
|---------|-----|-----|---|----|-----|
|         |     |     | 5 | 10 | 15  |
| 60/70   | 60  | 70  | ★ |    | ★ ○ |
| 60/80   | 60  | 80  | ★ |    | ★ ○ |
| 70/30   | 70  | 30  | ★ |    | ★ ○ |
| 70/40   | 70  | 40  | ★ |    | ★ ○ |
| 70/45   | 70  | 45  | ★ |    | ★ ○ |
| 70/50   | 70  | 50  | ★ |    | ★ ○ |
| 70/60   | 70  | 60  | ★ |    | ★ ○ |
| 70/70   | 70  | 70  | ★ |    | ★ ○ |
| 70/80   | 70  | 80  | ★ |    | ★ ○ |
| 70/55   | 70  | 55  | ○ |    | ★ ○ |
| 70/65   | 70  | 60  | ○ |    | ★ ○ |
| 75/40   | 75  | 40  | ○ |    | ★ ○ |
| 75/55   | 75  | 55  | ○ |    | ★ ○ |
| 80/20   | 80  | 20  | ★ |    | ○ ○ |
| 80/40   | 80  | 40  | ★ |    | ★ ○ |
| 80/45   | 80  | 45  | ★ |    | ★ ○ |
| 80/60   | 80  | 60  | ★ |    | ★ ○ |
| 80/70   | 80  | 70  | ○ |    | ★ ○ |
| 80/80   | 80  | 80  | ★ |    | ★ ★ |
| 90/45   | 90  | 45  | ○ |    | ★ ★ |
| 100/12  | 100 | 12  | ★ |    | ○ ○ |
| 10/20   | 100 | 20  | ★ |    | ○ ○ |
| 100/30  | 100 | 30  | ○ |    | ★ ○ |
| 100/40  | 100 | 40  | ★ |    | ★ ★ |
| 100/45  | 100 | 45  | ○ |    | ○ ★ |
| 100/50  | 100 | 50  | ○ |    | ★ ★ |
| 100*55  | 100 | 55  | ○ |    | ★ ★ |
| 100/60  | 100 | 60  | ○ |    | ★ ★ |
| 100/65  | 100 | 65  | ○ |    | ○ ★ |
| 100/70  | 100 | 70  | ○ |    | ★ ★ |
| 100/75  | 100 | 75  | ○ |    | ○ ★ |
| 100/80  | 100 | 80  | ★ |    | ★ ★ |
| 100/90  | 100 | 90  | ○ |    | ★ ★ |
| 100/100 | 100 | 100 | ○ |    | ★ ★ |
| 110/40  | 110 | 40  | ○ |    | ○ ★ |
| 150/75  | 150 | 75  | ○ |    | ○ ★ |
| 150/80  | 150 | 80  | ○ |    | ★ ★ |
| 150/90  | 150 | 90  | ○ |    | ★ ★ |
| 150/100 | 150 | 100 | ○ |    | ★ ★ |
| 200/30  | 200 | 30  | ○ |    | ★ ○ |

|        |     |    |     |   |         |     |     |   |     |
|--------|-----|----|-----|---|---------|-----|-----|---|-----|
| 150/30 | 150 | 30 | ○ ★ | ○ | 200/60  | 200 | 60  | ○ | ★ ★ |
| 150/40 | 150 | 40 | ○ ○ | ★ | 200/70  | 200 | 70  | ○ | ○ ★ |
| 150/50 | 150 | 50 | ○ ★ | ★ | 200/80  | 200 | 80  | ○ | ★ ○ |
| 150/60 | 150 | 60 | ○ ★ | ★ | 200/100 | 200 | 100 | ○ | ★ ○ |
| 150/70 | 150 | 70 | ○ ★ | ★ |         |     |     |   |     |

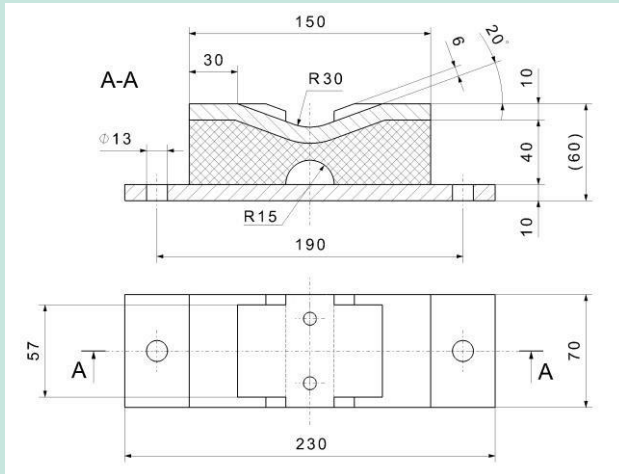
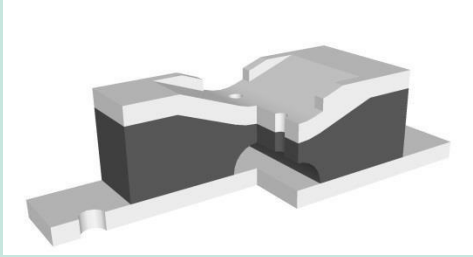
## LOAD DATA

### GS-M2

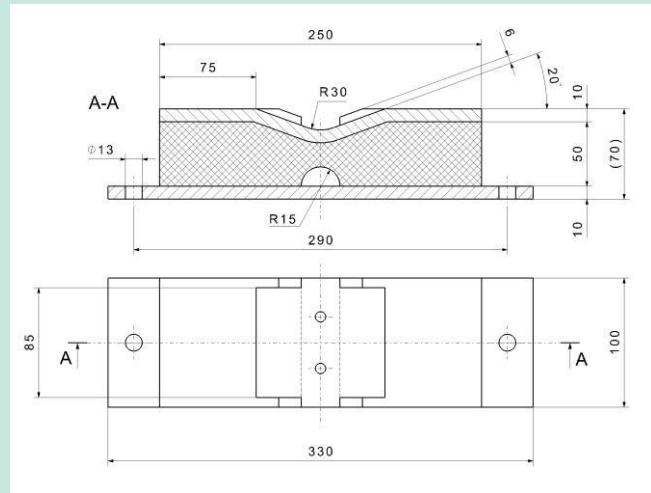
| B   | H   | L    | s  | f [mm] | Fv [daN] |        |        |
|-----|-----|------|----|--------|----------|--------|--------|
|     |     |      |    |        | 43Sh     | 57Sh   | 68Sh   |
| 25  | 25  | 2000 | 5  | 0,75   | 16       | 35     | 74     |
|     |     |      |    | 1,5    | 34       | 72     | 154    |
|     |     |      |    | 2,25   | 53       | 113    | 241    |
| 25  | 30  | 200  | 5  | 1      | 14       | 30     | 66     |
|     |     |      |    | 2      | 28       | 63     | 136    |
|     |     |      |    | 3      | 44       | 98     | 212    |
| 30  | 30  | 2000 | 5  | 1      | 22       | 47     | 101    |
|     |     |      |    | 2      | 45       | 98     | 210    |
|     |     |      |    | 3      | 71       | 153    | 328    |
| 40  | 20  | 2000 | 5  | 0,5    | 109      | 207    | 415    |
|     |     |      |    | 1      | 234      | 441    | 885    |
|     |     |      |    | 1,5    | 378      | 710    | 1 421  |
| 50  | 40  | 2000 | 5  | 1,5    | 64       | 138    | 295    |
|     |     |      |    | 3      | 134      | 287    | 614    |
|     |     |      |    | 4,5    | 312      | 451    | 962    |
| 50  | 50  | 2000 | 5  | 2      | 54       | 121    | 262    |
|     |     |      |    | 4      | 113      | 250    | 543    |
|     |     |      |    | 6      | 177      | 390    | 846    |
| 60  | 30  | 2000 | 10 | 0,5    | 479      | 867    | 1 705  |
|     |     |      |    | 1      | 1 032    | 1 866  | 3 665  |
|     |     |      |    | 1,5    | 1 677    | 3 027  | 5 940  |
| 60  | 60  | 2000 | 10 | 2      | 86       | 188    | 405    |
|     |     |      |    | 4      | 180      | 390    | 840    |
|     |     |      |    | 6      | 283      | 612    | 1 315  |
| 60  | 80  | 2000 | 10 | 3      | 72       | 163    | 356    |
|     |     |      |    | 6      | 148      | 336    | 735    |
|     |     |      |    | 9      | 230      | 520    | 1 140  |
| 70  | 30  | 2000 | 10 | 0,5    | 857      | 1 536  | 3 005  |
|     |     |      |    | 1      | 1 850    | 3 313  | 6 470  |
|     |     |      |    | 1,5    | 3 015    | 5 390  | 10 510 |
| 70  | 50  | 2000 | 10 | 1,5    | 168      | 345    | 717    |
|     |     |      |    | 3      | 355      | 720    | 1 510  |
|     |     |      |    | 4,5    | 565      | 1 145  | 2 385  |
| 70  | 60  | 2000 | 10 | 2      | 109      | 207    | 415    |
|     |     |      |    | 1      | 234      | 441    | 885    |
|     |     |      |    | 1,5    | 378      | 710    | 1 421  |
| 80  | 45  | 2000 | 10 | 1,25   | 318      | 619    | 1 265  |
|     |     |      |    | 2,5    | 678      | 1 315  | 2 680  |
|     |     |      |    | 3,75   | 1 090    | 2 105  | 4 280  |
| 80  | 60  | 2000 | 10 | 2      | 190      | 400    | 838    |
|     |     |      |    | 4      | 400      | 830    | 1 750  |
|     |     |      |    | 6      | 630      | 1 310  | 2 760  |
| 80  | 80  | 2000 | 10 | 3      | 143      | 317    | 685    |
|     |     |      |    | 6      | 298      | 628    | 1 420  |
|     |     |      |    | 9      | 468      | 1 027  | 2 220  |
| 100 | 60  | 2000 | 10 | 2      | 368      | 745    | 1 550  |
|     |     |      |    | 4      | 780      | 1 570  | 3 262  |
|     |     |      |    | 6      | 1 245    | 2 500  | 5 170  |
| 100 | 80  | 2000 | 10 | 3      | 256      | 550    | 1 180  |
|     |     |      |    | 6      | 536      | 1 150  | 2 455  |
|     |     |      |    | 9      | 845      | 1 800  | 3 845  |
| 120 | 45  | 2000 | 15 | 0,75   | 3 215    | 5 725  | 11 140 |
|     |     |      |    | 1,5    | 6 950    | 12 360 | 24 040 |
|     |     |      |    | 2,25   | 11 335   | 20 120 | 39 110 |
| 120 | 60  | 2000 | 15 | 1,5    | 985      | 1 860  | 3 735  |
|     |     |      |    | 3      | 2 110    | 3 970  | 7 962  |
|     |     |      |    | 4,5    | 3 405    | 6 380  | 12 790 |
| 120 | 80  | 2000 | 15 | 2,5    | 507      | 1 033  | 2 156  |
|     |     |      |    | 5      | 1 075    | 2 175  | 4 535  |
|     |     |      |    | 7,5    | 1 710    | 3 450  | 7 175  |
| 150 | 60  | 2000 | 15 | 1,5    | 2 190    | 4 035  | 8 005  |
|     |     |      |    | 3      | 4 710    | 8 655  | 17 150 |
|     |     |      |    | 4,5    | 7 640    | 14 000 | 27 700 |
| 200 | 100 | 2000 | 15 | 3,5    | 1 720    | 3 400  | 7 020  |
|     |     |      |    | 7      | 3 655    | 7 210  | 14 825 |
|     |     |      |    | 10,5   | 5 855    | 11 500 | 23 590 |

Die Schienen lassen sich auch in Sondergrößen, und mit Bohrungen Bestellen.

## TRAFOLAGER

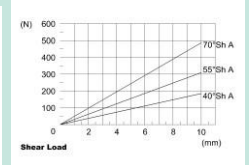
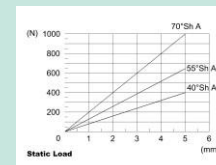
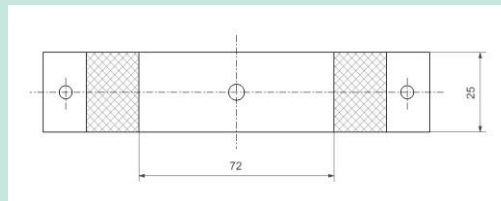
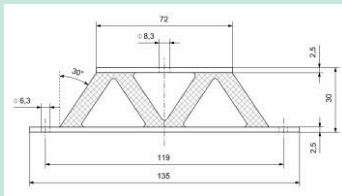
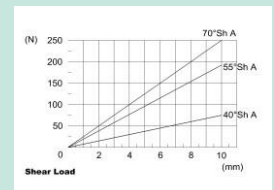
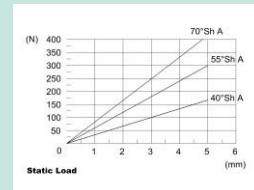
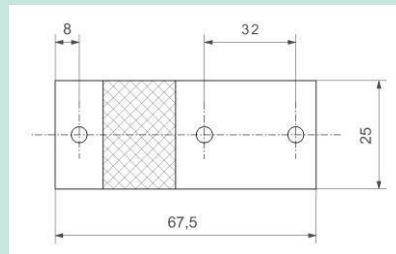
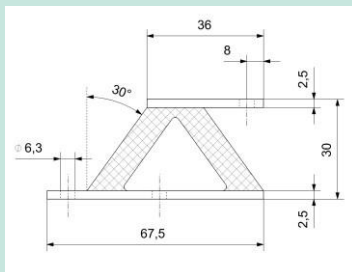


4 501 049 4

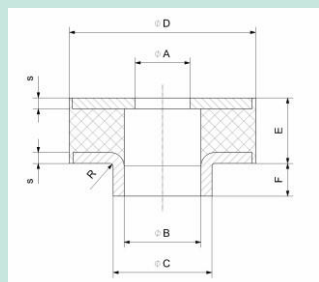


4 501 049 5

## V-Element

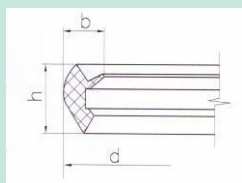


## RINGELEMENT



|               | D  | A    | B  | C  | E  | F  | s   |
|---------------|----|------|----|----|----|----|-----|
| <b>RING-1</b> | 36 | 16,6 | 18 | 20 | 8  | 3  | 1   |
| <b>RING-2</b> | 36 | 6    | 6  | 15 | 16 | 6  | 1   |
| <b>RING-3</b> | 36 | 8,5  | 12 | 18 | 10 | 4  | 1   |
| <b>RING-4</b> | 50 | 16,5 | 20 | 24 | 12 | 10 | 1,5 |
| <b>RING-5</b> | 50 | 16,5 | 22 | 24 | 12 | 12 | 1   |
| <b>RING-6</b> | 60 | 20,5 | 24 | 27 | 13 | 10 | 1,5 |

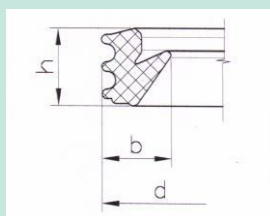
## KG RING



| Nominal Dimension | □d        |           | h         |           | b         |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance |
| 250               | 269       | ± 1,3     | 18,4      | ± 0,4     | 12,3      | ± 0,4     |
| 300               | 337       | ± 1,6     | 24        | ± 0,5     | 14,6      | ± 0,8     |

Hardness: 52 ± 5 Sh° A

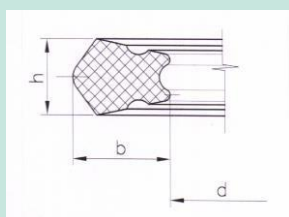
## LIP RING



| Nominal Dimension | □d        |           | h         |           | j         |           |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance | Dimension | Tolerance | Dimension | Tolerance |
| 30                | 39,5      | ± 0,5     | 6,0       | ± 0,3     | 4,9       | ± 0,3     |
| 40                | 51,7      | ± 0,5     | 7,8       | ± 0,3     | 6,8       | ± 0,3     |
| 50                | 61,8      | ± 0,5     | 7,8       | ± 0,3     | 6,8       | ± 0,3     |
| 110               | 124,2     | ± 0,7     | 8,9       | ± 0,3     | 8,1       | ± 0,3     |
| 125               | 142,3     | ± 0,8     | 10,2      | ± 0,3     | 9,0       | ± 0,3     |
| 160               | 180,1     | ± 0,8     | 11,5      | ± 0,3     | 10,5      | ± 0,3     |
| 200               | 223,8     | ± 1,0     | 12,8      | ± 0,3     | 11,4      | ± 0,3     |
| 300               | 350,0     | ± 2,5     | 20,3      | ± 0,5     | 16,3      | ± 0,4     |
| 400               | 441,2     | ± 3,0     | 23,7      | ± 0,8     | 18,7      | ± 0,5     |
| 500               | 549,0     | ± 3,0     | 29,4      | ± 0,5     | 24,6      | ± 0,5     |

Hardness: 60 ± 5 Sh° A; Tensile strength: > 10 Mpa

| Nominal Dimension | □d        |             | h         |           | b         |           |
|-------------------|-----------|-------------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance   | Dimension | Tolerance | Dimension | Tolerance |
| 250               | 245       | +1,5 / -2,5 | 8,9       | ± 0,5     | 11,5      | ± 0,5     |



|     |     |             |      |       |      |       |
|-----|-----|-------------|------|-------|------|-------|
| 315 | 295 | +1,9 / -1,9 | 11,0 | ± 0,5 | 13,2 | ± 0,5 |
| 400 | 388 | +1,5 / -3,5 | 13,8 | ± 0,7 | 17,9 | ± 0,7 |
| 500 | 490 | +1,5 / -3,5 | 17,9 | ± 0,7 | 24,2 | ± 1,1 |

### UNICOR/KD-EXTRA/ RING

Hardness: 52 ± 5 Sh° A



### KM RING

| Nominal Dimension | □d        |             | h         |           | b         |           |
|-------------------|-----------|-------------|-----------|-----------|-----------|-----------|
|                   | Dimension | Tolerance   | Dimension | Tolerance | Dimension | Tolerance |
| 80                | 116       | +0,5 / -1,1 | 12        | ± 0,4     | 21        | ± 0,5     |
| 100               | 139       | +0,5 / -1,5 | 13        | ± 0,4     | 23        | ± 0,5     |
| 125               | 172       | +0,5 / -1,5 | 14        | ± 0,4     | 25        | ± 0,5     |
| 150               | 195       | +0,5 / -2,1 | 15        | ± 0,4     | 27        | ± 0,5     |
| 200               | 267       | +0,5 / -2,7 | 17        | ± 0,4     | 32        | ± 0,8     |
| 250               | 330       | +1,0 / -3,0 | 20        | ± 0,5     | 36        | ± 0,8     |

Hardness: 52 ± 5 Sh° A

### O RING

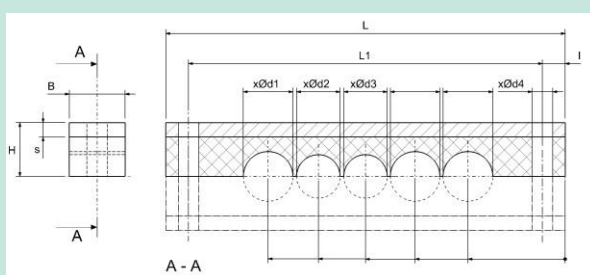
| Nominal Dimension | □d        |             | b         |           |
|-------------------|-----------|-------------|-----------|-----------|
|                   | Dimension | Tolerance   | Dimension | Tolerance |
| 80                | 116       | +0,5 / -1,1 | 21        | ± 0,5     |
| 100               | 139       | +0,5 / -1,5 | 23        | ± 0,5     |
| 125               | 172       | +0,5 / -1,5 | 25        | ± 0,5     |
| 150               | 195       | +0,5 / -2,1 | 27        | ± 0,5     |
| 200               | 267       | +0,5 / -2,7 | 32        | ± 0,8     |
| 250               | 330       | +1,0 / -3,0 | 36        | ± 0,8     |



Hardness: 43  
± 5 Sh° A;  
Tensile

### PLT

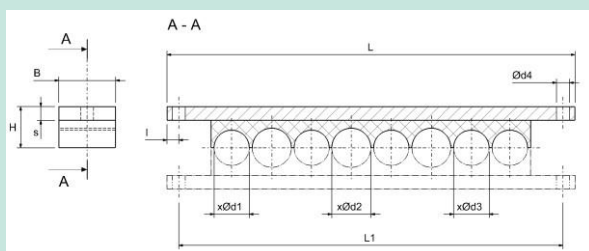
strength: min 9,5 Mpa





| Type  | L   | L1  | H  | B  | s  | l    | d1   | d2   | d3   | d4 |
|-------|-----|-----|----|----|----|------|------|------|------|----|
| PLT01 | 224 | 99  | 30 | 30 | 8  | 12,5 | 2x25 | 3x28 | -    | 12 |
| PLT02 | 190 | 170 | 30 | 40 | 10 | 10   | 1x25 | 3x24 | 1x28 | 11 |
| PLT03 | 140 | 120 | 40 | 40 | 10 | 10   | 1x54 | 1x45 | -    | 11 |
| PLT04 | 190 | 170 | 40 | 30 | 10 | 10   | 2x25 | 2x28 | 1x11 | 11 |
| PLT05 | 190 | 170 | 40 | 30 | 10 | 10   | 3x25 | 1x28 | 1x11 | 11 |
| PLT06 | 115 | 96  | 30 | 30 | 10 | 9,5  | 2x28 | 1x25 | -    | 11 |
| PLT07 | 115 | 88  | 30 | 30 | 10 | 13,5 | 3x25 | -    | -    | 11 |
| PLT08 | 224 | 199 | 30 | 30 | 8  | 12,5 | 4x25 | 2x28 | -    | 12 |
| PLT09 | 224 | 199 | 30 | 30 | 8  | 12,5 | 2x25 | 3x28 | -    | 12 |
| PLT10 | 224 | 199 | 30 | 30 | 8  | 12,5 | 4x25 | 2x38 | -    | 12 |
| PLT11 | 125 | 105 | 30 | 40 | 10 | 10   | 2x38 | -    | -    | 11 |
| PLT12 | 250 | 225 | 30 | 30 | 10 | 12,5 | 1x25 | 2x26 | 3x28 | 11 |
| PLT13 | 320 | 300 | 30 | 40 | 10 | 10   | 4x32 | 2x22 | -    | 11 |
| PLT14 | 150 | 130 | 30 | 40 | 10 | 10   | 1x39 | 1x32 | -    | 11 |
| PLT15 | 130 | 110 | 30 | 40 | 10 | 10   | 2x32 | -    | -    | 11 |
| PLT16 | 178 | 162 | 20 | 40 | 6  | 8    | 4x11 | 2x20 | 1x19 | 6  |
| PLT17 | 175 | 159 | 20 | 40 | 6  | 8    | 5x15 | 2x19 | 1x11 | 6  |
| PLT18 | 160 | 140 | 30 | 40 | 10 | 10   | 2x32 | 1x19 | -    | 11 |
| PLT19 | 160 | 140 | 30 | 30 | 10 | 10   | 5x20 | -    | -    | 11 |
| PLT20 | 172 | 152 | 30 | 30 | 10 | 10   | 5x20 | -    | -    | 11 |
| PLT21 | 140 | 120 | 30 | 30 | 10 | 10   | 4x20 | -    | -    | 13 |
| PLT22 | 215 | 190 | 30 | 30 | 8  | 12,5 | 5x26 | -    | -    | 12 |
| PLT23 | 125 | 105 | 30 | 30 | 8  | 10   | 2x21 | 2x19 | -    | 13 |
| PLT24 | 110 | 90  | 30 | 40 | 10 | 10   | 1x25 | 1x35 | -    | 11 |
| PLT25 | 125 | 105 | 30 | 30 | 8  | 10   | 1x21 | 3x19 | -    | 13 |
| PLT26 | 159 | 143 | 20 | 40 | 6  | 8    | 5x15 | 3x11 | -    | 9  |

## TLT



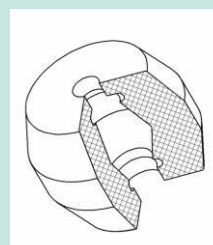
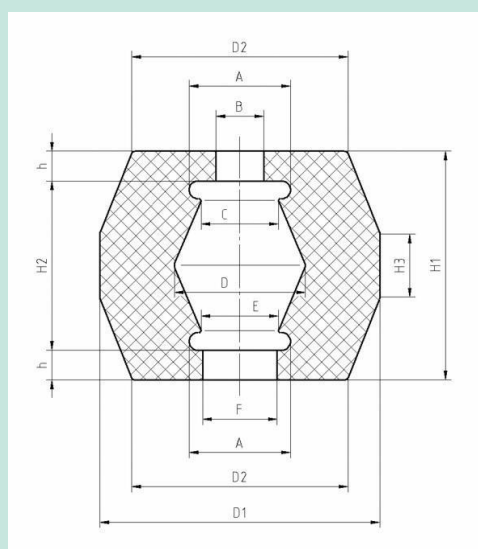
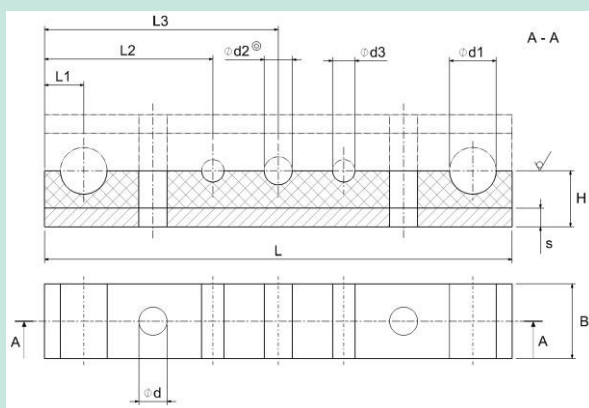
| Type  | L   | L1  | H  | B  | s  | l | d1     | d2   | d3   | d4 |
|-------|-----|-----|----|----|----|---|--------|------|------|----|
| TLT01 | 229 | 278 | 30 | 40 | 10 | 8 | 5x25   | 3x28 | -    | 9  |
| TLT02 | 229 | 213 | 30 | 40 | 10 | 8 | 8x20   | -    | -    | 10 |
| TLT03 | 290 | 274 | 30 | 40 | 10 | 8 | 2x2    | 2x25 | 4x28 | 11 |
| TLT04 | 242 | 222 | 30 | 30 | 10 | 9 | 8x25,5 | -    | -    | 11 |



## BLT

GF

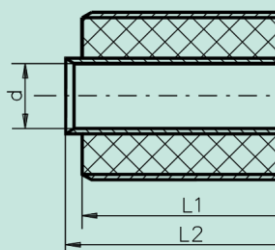
| Type  | L   | L1   | L2  | L3   | H  | B  | s  | d    | d1   | d2   | d3   |
|-------|-----|------|-----|------|----|----|----|------|------|------|------|
| BLT01 | 210 | 54   | 102 | 54   | 30 | 30 | 10 | 2x9  | 8x20 | -    | -    |
| BLT02 | 165 | 63,5 | 38  | 6,35 | 20 | 30 | 10 | 2x11 | 2x26 | 2x19 | -    |
| BLT03 | 462 | 56   | 205 | 354  | 30 | 40 | 10 | 3x14 | 4x29 | 4x14 | -    |
| BLT04 | 144 | 41   | 52  | 51   | 30 | 40 | 10 | 2x11 | 1x22 | 2x32 | -    |
| BLT05 | 240 | 20   | 85  | 120  | 30 | 40 | 10 | 2x14 | 2x24 | 1x14 | 2x11 |
| BLT06 | 120 | 45   | -   | -    | 30 | 40 | 10 | 1x11 | 2x38 | -    | -    |
| BLT07 | 300 | 50   | 120 | 240  | 30 | 40 | 10 | 2x11 | 2x37 | 2x32 | 2x22 |
| BLT08 | 350 | 20   | 65  | 116  | 30 | 40 | 10 | 3x14 | 2x34 | 2x11 | 2x19 |
| BLT09 | 240 | 20   | 85  | 120  | 30 | 40 | 10 | 2x17 | 1x3  | 2x24 | 2x11 |
| BLT10 | 280 | 20   | 75  | 115  | 30 | 40 | 10 | 3x14 | 2x24 | 3x11 | -    |
| BLT11 | 240 | 40   | 90  | 150  | 30 | 40 | 10 | 3x11 | 2x38 | 2x32 | -    |



| Type  | D1 | H1 | D2 | A  | B  | C  | D  | E  | F  | H2 | H3 | h  |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|
| 55/55 | 55 | 55 | 42 | 22 | 14 | 15 | 24 | 15 | 14 | 35 | 15 | 10 |

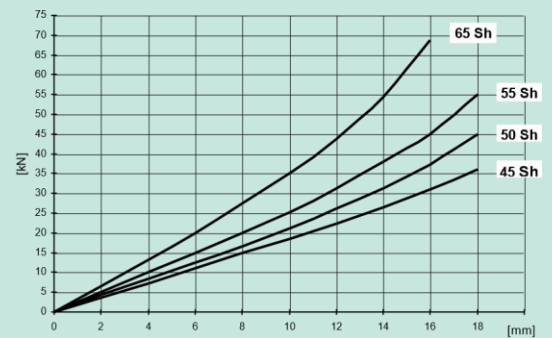
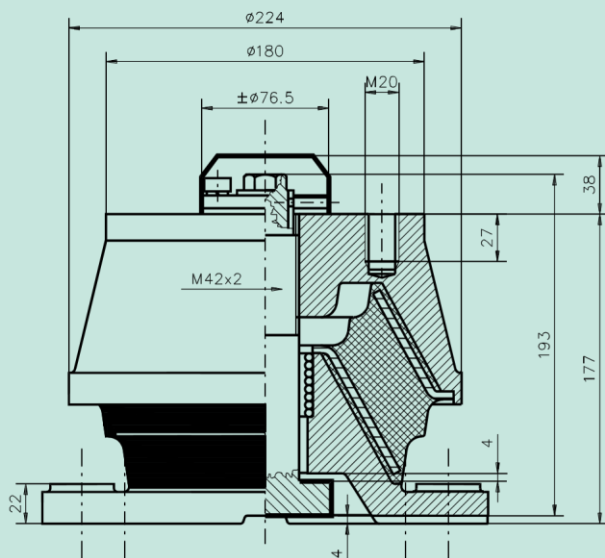
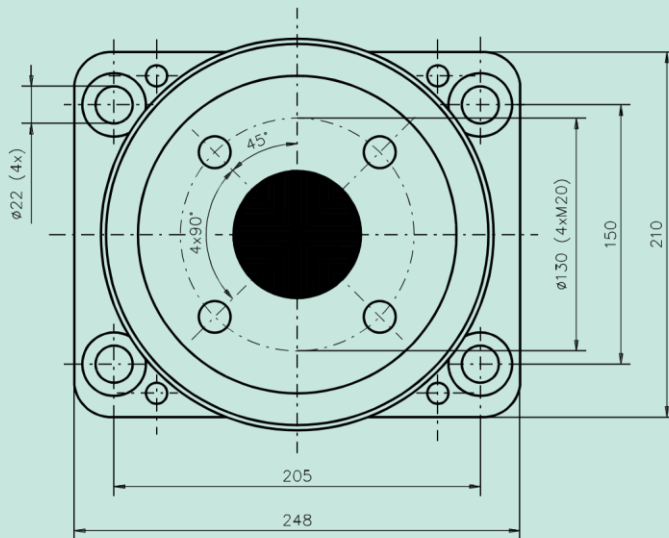
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|----------------|-----|-----|-----|----|----|----|----|----|----|-----|----|-----|
| <b>56/90</b>   | 90  | 56  | 75  | 32 | 14 |    | 36 |    | 24 | 40  | 24 | 8   |
| <b>90/108</b>  | 108 | 90  | 82  | 38 | 19 | 29 | 50 | 29 | 29 | 66  | 26 | 12  |
| <b>140/125</b> | 125 | 140 | 115 | 50 | 24 | 40 | 55 | 40 | 39 | 104 | 40 | 18  |
| <b>150/155</b> | 155 | 150 | 135 | 50 | 24 | 40 | 60 | 40 | 39 | 114 | 50 | 118 |
| <b>150/188</b> | 188 | 150 | 155 | 60 | 29 | 58 | 70 | 48 | 39 | 112 | 50 | 20  |
| <b>180/188</b> | 188 | 180 | 167 | 60 | 29 | 48 | 70 | 48 | 39 | 142 | 60 | 20  |

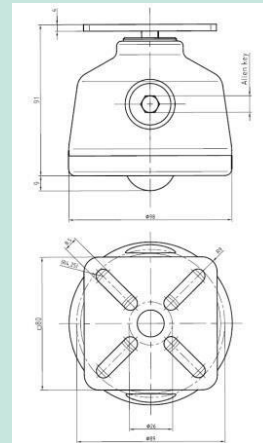
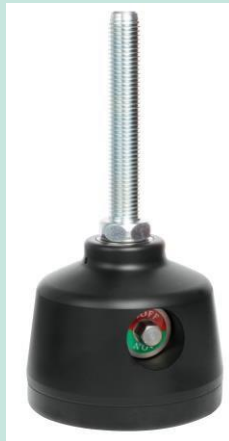
## BUSHING



| D  | d    | L1 | L2 |
|----|------|----|----|
| 22 | 10   | 24 | 20 |
| 22 | 12   | 25 | 28 |
| 25 | 10   | 20 | 25 |
| 26 | 8,5  | 25 | 25 |
| 27 | 14   | 40 | 48 |
| 30 | 13   | 40 | 40 |
| 30 | 14   | 25 | 28 |
| 30 | 14   | 67 | 76 |
| 32 | 16   | 50 | 54 |
| 40 | 25   | 20 | 20 |
| 40 | 25   | 30 | 30 |
| 45 | 20   | 60 | 63 |
| 50 | 25   | 30 | 34 |
| 50 | 25   | 65 | 68 |
| 50 | 25   | 80 | 85 |
| 55 | 15,5 | 30 | 16 |
| 60 | 30   | 60 | 68 |
| 62 | 36   | 65 | 71 |
| 64 | 38   | 80 | 88 |

## HEAVY DUTY VIBRATION DAMPER FOR STATIONARY AND MARINE APPLICATION



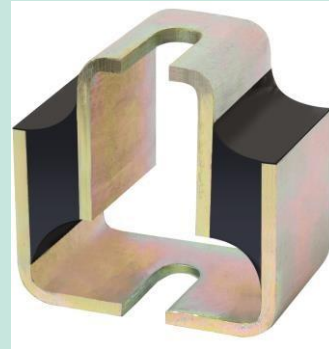
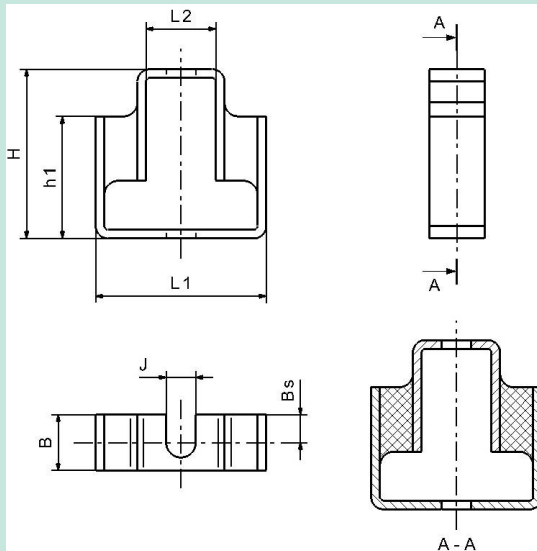


|                                                                           |          |         |
|---------------------------------------------------------------------------|----------|---------|
| <div> <div>Type</div> <div>non centered centered wheel wheel</div> </div> |          | plate   |
| 020.PF R1                                                                 | 020PF R2 | 80 x 80 |

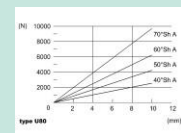
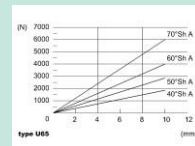
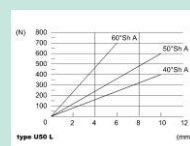
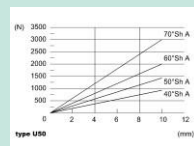
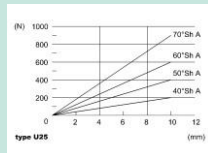
|              |              |         |
|--------------|--------------|---------|
| <b>02FR1</b> | <b>02FR2</b> | M16x100 |
| <b>03FR1</b> | <b>03FR2</b> | M20x75  |
| <b>04FR1</b> | <b>04FR2</b> | M20x125 |
| <b>05FR1</b> | <b>05FR2</b> | M24x75  |
| <b>06FR1</b> | <b>06FR2</b> | M24x125 |



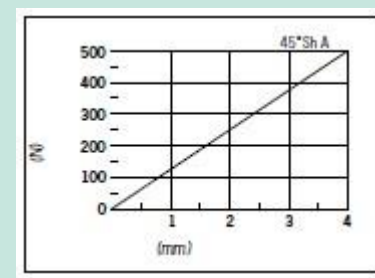
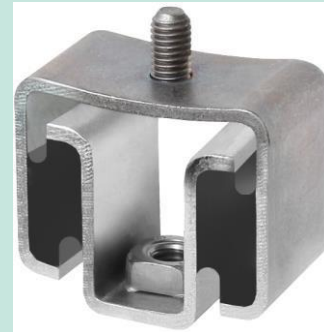
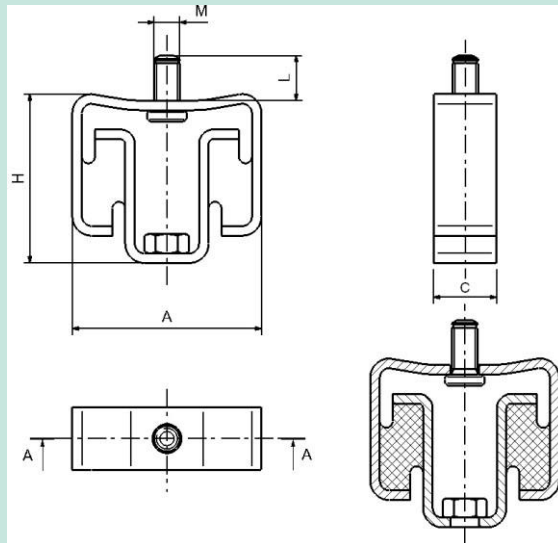
## U-LAGER GM1



| Type  | B  | L1  | L2   | H   | h1  | Bs   | J    |
|-------|----|-----|------|-----|-----|------|------|
| U25   | 25 | 71  | 26,4 | 62  | 43  | 12,5 | 11   |
| U50   | 50 | 79  | 32,4 | 78  | 56  | 25   | 13,5 |
| U50 L | 50 | 60  | 20   | 41  | 30  | 25   | Ø 11 |
| U65   | 65 | 87  | 38,4 | 108 | 83  | 32,5 | 17,5 |
| U80   | 80 | 100 | 48   | 130 | 100 | 40   | 17,5 |



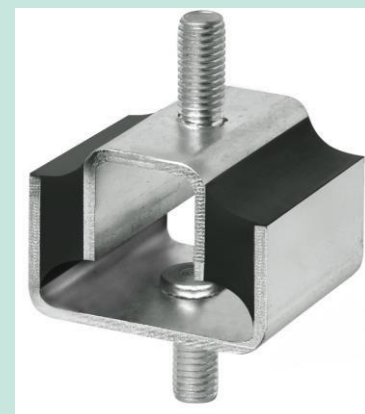
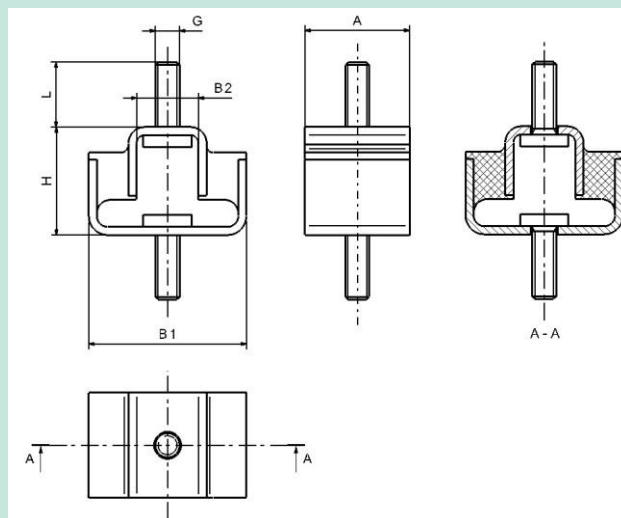
## U-LAGER GM2

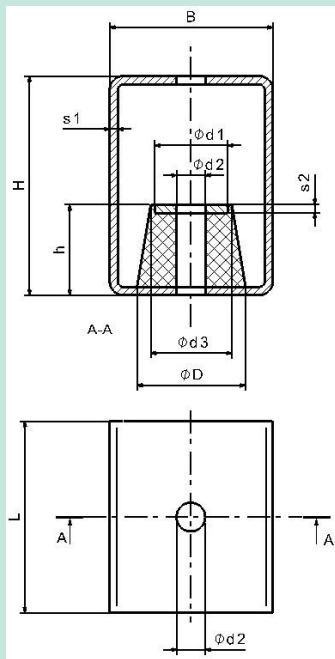


| Type     | Shore | H  | C  | A  | M  | L  |
|----------|-------|----|----|----|----|----|
| 535 611  | NK45  | 47 | 30 | 55 | M8 | 13 |
| 53561160 | NK60  | 47 | 30 | 55 | M8 | 13 |

## U-LAGER RB

| Type  | B1 | B2 | A  | H  | L  | G   |
|-------|----|----|----|----|----|-----|
| L2000 | 52 | 20 | 35 | 36 | 21 | M8  |
| 18301 | 54 | 22 | 50 | 40 | 22 | M10 |





## HNG-S



Gewinde, Mutter und Unterlage sind extra

| Type   | B  | H   | L  | D  | h  | s1 | s2 | d1   | d2   | d3 |
|--------|----|-----|----|----|----|----|----|------|------|----|
| HNG-S1 | 40 | 60  | 45 | 30 | 28 | 3  | 2  | 22,5 | 8,5  | 25 |
| HNG-S2 | 60 | 80  | 55 | 40 | 33 | 3  | 3  | 27   | 10,5 | 30 |
| HNG-S3 | 80 | 100 | 70 | 60 | 54 | 4  | 3  | 45   | 12,5 | 50 |

### Gewinde Optionen:

**M8 x L (Länge):** min 80 mm, 90 mm, 100, 110 mm, 120 mm, ... 200 mm. from  
200 mm – 1.000 mm: 200 mm, 300 mm, 400 mm, ... 1.000 mm.

**M10 & M12 x L (Länge):** min 100 mm, 110, mm, 120 mm, ... 200 mm.  
from 200 mm – 1.000 mm: 200 mm, 300 mm, 400 mm, ... 1.000 mm.

