

TRASCO® Couplings



**TRASCO®
JUBOFLEX®
“P” COUPLINGS
BOLT COUPLINGS**

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TRASCO® couplings

Description

TRASCO® flexible coupling is the flexible and omocinetic coupling that assures the best performance in relation to the physical space occupied in its class.

It has a very compact design and allows safe power transmission by absorbing peak loads and torsional vibrations.

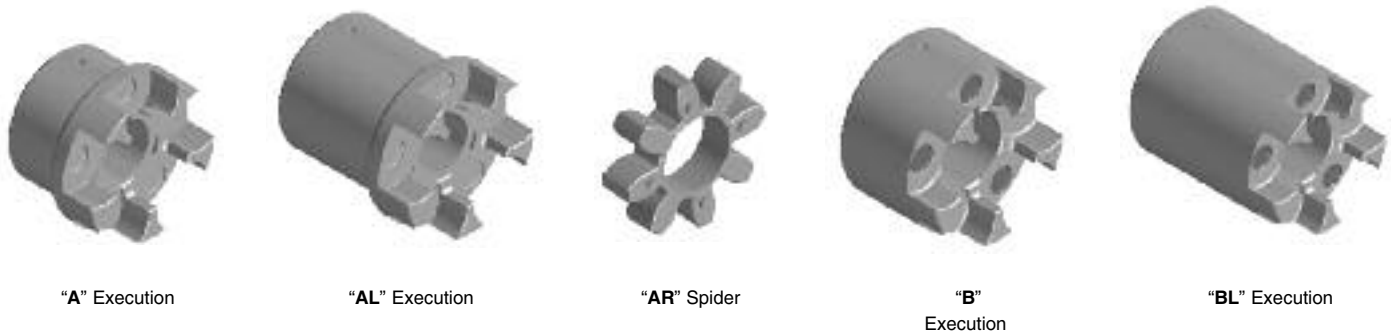
Moreover, the elastic design of the polyurethane gear ring compensates for angular and radial misalignments and also absorbs small shaft length variation.

The involute profile of the gear ring teeth prevents high stress

concentrations on reduced surfaces and the crowned profile and avoids the transmission of axial stress.

The high duty factor of TRASCO® couplings is due to the fact that the elastic element works under compression and never under flexion.

TRASCO® couplings are suitable for working in both horizontal and in vertical positions and easily support any load variation or reversal motion. The two coupling halves are electrically insulated from each other.



ATEX Directive 2014/34/EU

It is possible to ask for specific certification for use in hazardous area according to ATEX Directive 2014/34/EU. TRASCO® couplings

are available with specific mounting/operating instruction manual and conformity. For information, please contact our technical office.

TRASCO® flexible couplings consist of two precision machined metal hubs and an elastic gear ring (spider) which is resistant to oils, chemical agents, and heat.

Hubs are available in cast iron GG25 or aluminum and, in case of special request, in steel or cast iron GGG40.

Each hub is available in version "A" and "B" (in standard or long hub "L" version) which can accommodate different size of bores, leaving unchanged the performance and the technical features.

Note: It is possible to have aligned keyways upon inquiry.



Spider

The gear ring is made of a particular polyurethane resin which shows great advantages in comparison to the standard polyurethanes available on the market.

The urethane compound of our polyurethane gear ring offers resistance to aging, hydrolysis, fatigue, and abrasion making it suitable for even the most demanding applications in high humidity

conditions. It is self-dampening and shows a great resistance to the main chemical agents, acids, oils, and ozone.

Special types of gear rings are available in order to provide the right solution for each specific application covering a large range of temperatures and resisting specific chemical agents.

| Standard spiders | | | | | |
|------------------|--------|--------------|-----------------------------|--------------------|--|
| (Shore) | Color | Compound | Admissible Temperature [°C] | | Applications |
| | | | on work | peaks | |
| 92 Sh A | Yellow | Polyurethane | from - 40 to + 90 | from - 50 to + 120 | the most of industrial application (low-mid power) |
| 98 Sh A | Red | Polyurethane | from - 30 to + 90 | from - 40 to + 120 | high torque/narrow angular misalignment/torsional rigidity |
| 64 Sh D | Green | Polyurethane | from - 30 to + 110 | from - 30 to + 130 | dampened areas/internal combustion engines |

| Spiders for special applications | | | | | |
|----------------------------------|-------|--------------|-----------------------------|--------------------|---|
| (Shore) | Color | Compound | Admissible Temperature [°C] | | Applications |
| | | | on work | peaks | |
| 80 Sh A | Blue | Polyurethane | from - 50 to + 80 | from - 60 to + 120 | internal combustion engines/high dynamic solicitations highly dampened areas |
| PA | Grey | Polyamide | from - 20 to + 110 | from - 30 to + 150 | high torsion rigidity/high temperature areas high resistance |

Available on request spiders with different compound for special applications:

- High working temperature
- Heavy working conditions
- Heavy environment conditions
- Resistance to specific chemicals

TRASCO® coupling sizing as for DIN 740/2

TRASCO® coupling sizing is made according to DIN 740/2. Couplings must be selected to ensure that the maximum admissible torque is never exceeded during operation.

It is necessary to have correct sizing, so that all conditions hereunder are respected.

1) Verify the nominal torque

The nominal torque of the coupling must be greater than or equal to the nominal torque of the drive multiplied by the temperature safety factor.

$$T_{KN} \geq T_N \cdot S_\theta \quad [\text{Nm}]$$

Note that:

$$T_N = 9550 \frac{P_N}{n} \quad [\text{Nm}]$$

Where P_N is the motor nominal power in kW.

2) Verify the maximum torque

The max torque of the coupling must be greater than or equal to the starting torque T_s multiplied by the safety factors S_θ, S_z, S_u where S_u is the higher value between driver and driven units.

$$T_{Kmax} \geq T_s \cdot S_\theta \cdot S_z \cdot S_u \quad [\text{Nm}]$$

3) Verify torque with reversal

In case of torque with reversals it must be verified that:

$$T_{KW} \geq T_w \cdot S_\theta \quad [\text{Nm}]$$

where T_{kw} = torque with reversal, which the coupling can bear, and T_w = torque variation of the drive.

In case of drives with high torsional vibrations (e.g. piston compressors, combustion engine) it is recommended to make a torsional vibration calculations in order to guarantee the correct functioning of the coupling. Please consult our technical office.

Shock load safety factor

| Shock load type | S_u |
|-----------------|-------|
| Light | 1,4 |
| Medium | 1,5 |
| Hard | 1,8 |

Temperature safety factor

| T (°C) | -30 °C/+30 °C | +40 °C | +60 °C | +80 °C |
|------------|---------------|--------|--------|--------|
| S_θ | 1 | 1,2 | 1,4 | 1,8 |

Safety factor for frequency of starting

| Starts/h | 0 ÷ 100 | 101 ÷ 200 | 201 ÷ 400 | 401 ÷ 800 |
|----------|---------|-----------|-----------|-----------|
| S_z | 1 | 1,2 | 1,4 | 1,6 |

Hub shaft connection check

Hub shaft connection must always be checked by the user. It is important to verify the maximum torque in the drive is lower than the torque which the hub shaft connection can bear. In case of keyway connection, it is important to verify the tensile strength of the hub material with the load which the keyway seat must transmit.

| | | |
|------------|--|----|
| T_{KN} | Coupling nominal torque | Nm |
| T_{Kmax} | Coupling maximum torque | Nm |
| T_{KW} | Torque with reversal transmissible by the coupling | Nm |
| T_N | Motor nominal torque | Nm |
| T_s | Motor peak torque | Nm |
| T_w | Torque with reversal of the machine | Nm |

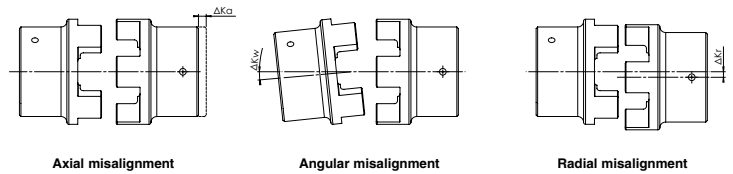
| | | |
|------------|-----------------------------------|-------------------|
| S_θ | Temperature factor | |
| S_z | Start frequency factor | |
| S_u | Motor or driven-side shock factor | |
| P_N | Motor nominal torque | kW |
| n | rpm | min ⁻¹ |

Type of stress



Misalignment

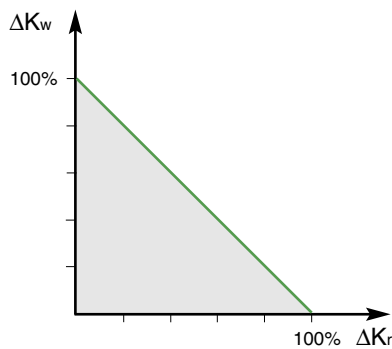
| Size | ΔK_{aP} [mm] | ΔK_r [mm] | ΔK_w [°] |
|---------|----------------------|-------------------|------------------|
| 19/24 | 1,2 | 0,20 | 1°30' |
| 24/32 | 1,4 | 0,22 | 1°30' |
| 28/38 | 1,5 | 0,25 | 1°30' |
| 38/45 | 1,8 | 0,28 | 1°30' |
| 42/55 | 2,0 | 0,32 | 1°30' |
| 48/60 | 2,1 | 0,36 | 1°30' |
| 55/70 | 2,2 | 0,38 | 1°30' |
| 65/75 | 2,6 | 0,42 | 1°30' |
| 75/90 | 3,0 | 0,48 | 1°30' |
| 90/100 | 3,4 | 0,50 | 1°30' |
| 100/110 | 3,8 | 0,52 | 1°30' |
| 110/125 | 4,2 | 0,55 | 1°30' |
| 125/145 | 4,6 | 0,60 | 1°30' |
| 140/160 | 5,0 | 0,62 | 1°30' |
| 160/185 | 5,7 | 0,64 | 1°30' |
| 180/200 | 6,4 | 0,68 | 1°30' |



n=1500 min⁻¹

The values shown in the table for radial and angular misalignment, must be corrected in case they are simultaneously acting on the coupling.

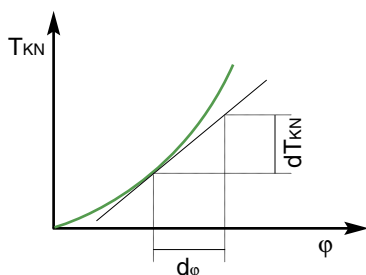
The sum of the admissible value (A) and the respective values shown in the table must be less than or equal to 1.



$$\frac{\Delta K_{rA}}{\Delta K_r} + \frac{\Delta K_{wA}}{\Delta K_w} \leq 1$$

| | | |
|-----------------|------------------------------|----|
| ΔK_{aP} | Maximum axial misalignment | mm |
| ΔK_r | Maximum radial misalignment | mm |
| ΔK_w | Maximum angular misalignment | ° |

Dynamic torsional rigidity



Dynamic torsional rigidity C_{Tdin} is the first derivate of the nominal torque of half coupling in respect to the torsion angle.

ϕ is the torsion angle of half coupling in respect to the second half. As a general rule, C_{Tdin} is greater than C_T and depends on the stress acting on the coupling.

Technical performances

The technical performances below refer to all types of TRASCO® executions and are valid for the indicated spiders when couplings are properly selected.

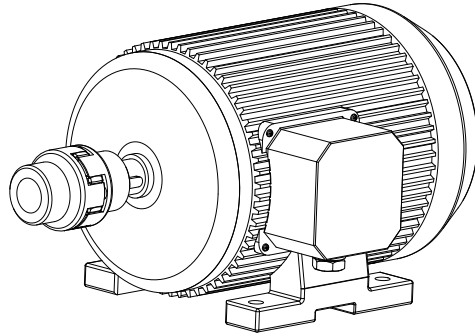
For particular applications needed, such as very high chemical resistance, spiders made of special material are available. Contact our Technical Department.

| Type | Hardness spider | | Torque | | | Max. speed | | Dynamic torsional rigidity | | | |
|---------|-----------------|---------|----------------------|------------------------|----------------------|---------------------|---------------------|---|--|---|--|
| | Color | Shore | T _{KN} [Nm] | T _{Kmax} [Nm] | T _{Kw} [Nm] | n (v=30m/s) [min-1] | n (v=40m/s) [min-1] | CT _{din} (1 T _{KN}) [Nm/rad] | CT _{din} (0,75 T _{KN}) [Nm/rad] | CT _{din} (0,5 T _{KN}) [Nm/rad] | CT _{din} (0,25 T _{KN}) [Nm/rad] |
| 19/24 | Yellow | 92 Sh A | 10 | 20 | 2,7 | 14000 | 19000 | 1280 | 1050 | 800 | 470 |
| | Red | 98 Sh A | 17 | 34 | 4,4 | 14000 | 19000 | 2920 | 2390 | 1810 | 1070 |
| | Green | 64 Sh D | 21 | 42 | 5,5 | 14000 | 19000 | 5350 | 4390 | 3320 | 1970 |
| 24/32 | Yellow | 92 Sh A | 35 | 70 | 9 | 10600 | 14000 | 4860 | 3980 | 3010 | 1790 |
| | Red | 98 Sh A | 60 | 120 | 16 | 10600 | 14000 | 9930 | 8140 | 6160 | 3650 |
| | Green | 64 Sh D | 75 | 150 | 19,5 | 10600 | 14000 | 15110 | 12390 | 9370 | 5550 |
| 28/38 | Yellow | 92 Sh A | 95 | 190 | 25 | 8500 | 11800 | 10900 | 8940 | 6760 | 4010 |
| | Red | 98 Sh A | 160 | 320 | 42 | 8500 | 11800 | 26770 | 21950 | 16600 | 9840 |
| | Green | 64 Sh D | 200 | 400 | 52 | 8500 | 11800 | 27520 | 22570 | 17060 | 10120 |
| 38/45 | Yellow | 92 Sh A | 190 | 380 | 49 | 7100 | 9500 | 21050 | 17260 | 13050 | 7740 |
| | Red | 98 Sh A | 325 | 650 | 85 | 7100 | 9500 | 48570 | 39830 | 30110 | 17850 |
| | Green | 64 Sh D | 405 | 810 | 105 | 7100 | 9500 | 70150 | 57520 | 43490 | 25780 |
| 42/55 | Yellow | 92 Sh A | 265 | 530 | 69 | 6000 | 8000 | 23740 | 19470 | 14720 | 8730 |
| | Red | 98 Sh A | 450 | 900 | 117 | 6000 | 8000 | 54500 | 44690 | 33790 | 20030 |
| | Green | 64 Sh D | 560 | 1120 | 145 | 6000 | 8000 | 79860 | 65490 | 49520 | 29350 |
| 48/60 | Yellow | 92 Sh A | 310 | 620 | 81 | 5600 | 7100 | 36700 | 30090 | 22750 | 13490 |
| | Red | 98 Sh A | 525 | 1050 | 137 | 5600 | 7100 | 65290 | 53540 | 40480 | 24000 |
| | Green | 64 Sh D | 655 | 1310 | 170 | 5600 | 7100 | 95510 | 78320 | 59220 | 35100 |
| 55/70 | Yellow | 92 Sh A | 410 | 820 | 107 | 4750 | 6300 | 50720 | 41590 | 31450 | 18640 |
| | Red | 98 Sh A | 680 | 1250 | 178 | 4750 | 6300 | 94970 | 77880 | 58880 | 34900 |
| | Green | 64 Sh D | 825 | 1650 | 215 | 4750 | 6300 | 107920 | 88500 | 66910 | 39660 |
| 65/75 | Yellow | 92 Sh A | 625 | 1250 | 163 | 4250 | 5600 | 97130 | 79650 | 60220 | 35700 |
| | Red | 98 Sh A | 950 | 1900 | 245 | 4250 | 5600 | 129510 | 106200 | 80300 | 47600 |
| | Green | 64 Sh D | 1175 | 2350 | 305 | 4250 | 5600 | 151090 | 123900 | 93680 | 55530 |
| 75/90 | Yellow | 92 Sh A | 1280 | 2560 | 333 | 3550 | 4750 | 113320 | 92920 | 70260 | 41650 |
| | Red | 98 Sh A | 1950 | 3900 | 500 | 3550 | 4750 | 197500 | 161950 | 122450 | 72580 |
| | Green | 64 Sh D | 2410 | 4820 | 635 | 3550 | 4750 | 248220 | 203540 | 153900 | 91220 |
| 90/100 | Yellow | 92 Sh A | 2400 | 4800 | 624 | 2800 | 3750 | 190090 | 155870 | 117860 | 69860 |
| | Red | 98 Sh A | 3600 | 7200 | 936 | 2800 | 3750 | 312200 | 256000 | 193560 | 114730 |
| | Green | 64 Sh D | 4500 | 9000 | 1170 | 2800 | 3750 | 674520 | 553110 | 418200 | 247890 |
| 100/110 | Yellow | 92 Sh A | 3300 | 6600 | 860 | 2500 | 3350 | 253080 | 207530 | 156910 | 93010 |
| | Red | 98 Sh A | 4950 | 9900 | 1290 | 2500 | 3350 | 383260 | 314270 | 237620 | 140850 |
| | Green | 64 Sh D | 6200 | 12400 | 1600 | 2500 | 3350 | 861170 | 706160 | 533930 | 316480 |
| 110/125 | Yellow | 92 Sh A | 4800 | 9600 | 1250 | 2240 | 3000 | 311610 | 255520 | 193200 | 114520 |
| | Red | 98 Sh A | 7200 | 14400 | 1870 | 2240 | 3000 | 690060 | 565850 | 427840 | 253600 |
| | Green | 64 Sh D | 9000 | 18000 | 2340 | 2240 | 3000 | 1138590 | 933640 | 705920 | 418430 |
| 125/145 | Yellow | 92 Sh A | 6650 | 13300 | 1730 | 2000 | 2650 | 474860 | 389390 | 294410 | 174510 |
| | Red | 98 Sh A | 10000 | 20000 | 2600 | 2000 | 2650 | 1343640 | 1101790 | 833060 | 493790 |
| | Green | 64 Sh D | 12500 | 25000 | 3250 | 2000 | 2650 | 1435380 | 1177010 | 889930 | 527500 |
| 140/160 | Red | 95 Sh A | 12800 | 25600 | 3328 | 1800 | 2360 | 1424580 | 1168160 | 883240 | 523540 |
| 160/185 | Red | 95 Sh A | 19200 | 38400 | 4992 | 1500 | 2000 | 2482230 | 2035430 | 1538980 | 912220 |
| 180/200 | Red | 95 Sh A | 28000 | 56000 | 7280 | 1400 | 1800 | 3561450 | 2920400 | 2208100 | 1308840 |

| Color | Torsion angle | | Dampening factor Ψ (-) | Resonance factor V _R (-) |
|--------|--------------------------|----------------------------|------------------------|-------------------------------------|
| | j (T _{KN}) (°) | j (T _{Kmax}) (°) | | |
| Yellow | 3,2° | 5° | 0,8 | 7,9 |
| Red | 3,2° | 5° | 0,8 | 7,9 |
| Green | 2,5° | 3,6° | 0,75 | 8,5 |



TRASCO® couplings for motors according to IEC standards (spider hardness 92 shore)



| Size | 3000 [1/min] | | | | 1500 [1/min] | | | | 1000 [1/min] | | | | 750 [1/min] | | | | d x l [mm] | | | | | |
|-------|------------------------|------------------------|--------|-------|------------------------|------------------------|--------|--------|------------------------|------------------------|-------|-------|------------------------|------------------------|-------|--------|---------------|--------------------|--------|---------|--------|--------|
| | P _N [kW] | T _N [Nm] | Size | K | P _N [kW] | T _N [Nm] | Size | K | P _N [kW] | T _N [Nm] | Size | K | P _N [kW] | T _N [Nm] | Size | K | 2 poles | 4 - 6 - 8 poles | | | | |
| 80 | 0,75 | 2,5 | 19/24 | 9,2 | 0,55 | 3,7 | 19/24 | 6,2 | 0,37 | 3,9 | 19/24 | 5,8 | 0,18 | 2,5 | 19/24 | 9,2 | 19x40 | | | | | |
| | 1,1 | 3,7 | | 6,2 | 0,75 | 5,1 | | 4,5 | 0,55 | 5,8 | | 3,9 | 0,25 | 3,5 | | 6,5 | | | | | | |
| 90 S | 1,5 | 5 | | 4,6 | 1,1 | 7,5 | | 3 | 0,75 | 8 | | 2,8 | 0,37 | 5,3 | | 4,3 | 24x50 | | | | | |
| 90 L | 2,2 | 7,4 | | 3,1 | 1,5 | 10 | | 2,3 | 1,1 | 12 | | 6,6 | 0,55 | 7,9 | | 2,9 | | | | | | |
| 100 L | 3 | 9,8 | 24/32 | 8,1 | 2,2 | 15 | 24/32 | 5,3 | 1,5 | 15 | 24/32 | 5,3 | 0,75 | 11 | 24/32 | 7,2 | 28x60 | | | | | |
| 112 M | | | | 4 | 13 | 6,1 | | 4 | | | | | 27 | 2,9 | | 2,2 | | | 22 | 3,6 | 1,5 | 21 |
| 132 S | 5,5 | 18 | | 28/38 | 12,7 | 5,5 | | 36 | 28/38 | 6,3 | | 3 | 30 | 28/38 | | 7,6 | 2,2 | 30 | 28/38 | 7,6 | 38x80 | |
| | 7,5 | 25 | | | 9,2 | | | | | | | | | | | | | | | | | |
| 132 M | | | 7,5 | | 49 | 4,6 | 5,5 | 55 | | 4,1 | | | | | | | | | | | | |
| 160 M | 11 | 36 | 38/45 | | 12,5 | 11 | 72 | 38/45 | | 6,2 | 7,5 | 74 | 38/45 | | 6 | 4 | 54 | 38/45 | | 8,3 | 42x110 | |
| | 15 | 49 | | 9,1 | 15 | | | | 98 | | | | | 4,5 | | 11 | 108 | | 4,1 | 7,5 | | |
| 160 L | 18,5 | 60 | | 7,5 | 15 | 98 | 4,5 | | 11 | 108 | 4,1 | 7,5 | | 100 | 4,5 | | | | | | | |
| 180 M | 22 | 71 | | 8,7 | 18,5 | 121 | 5,1 | | | | | | | | | | | | | | | |
| 180 L | | | 42/55 | 22 | 144 | 42/55 | 4,3 | 15 | 148 | 42/55 | 4,1 | 11 | 145 | 42/55 | 4,2 | 48x110 | | | | | | |
| 200 L | 30 | 97 | | 6,3 | 30 | | | | | | | | | | | | | 196 | 3,1 | 18,5 | 181 | 3,4 |
| | 37 | 120 | | 5,1 | | | | 22 | 215 | | 2,8 | | | | | | | | | | | |
| 225 S | | | | | 37 | | | 240 | 3 | | | | | | | | | 18,5 | 244 | 48/60 | 2,9 | 55x110 |
| 225 M | 45 | 145 | 4,2 | 45 | 292 | 2,4 | 30 | 293 | 2,4 | 22 | 290 | 48/60 | 2,4 | | | | | | | | | |
| 250 M | 55 | 177 | 48/60 | 4 | 55 | 356 | 55/70 | 2,4 | 37 | 361 | 55/70 | 2,3 | 30 | 392 | 65 | 2,6 | 60x140 | 65x140 | | | | |
| 280 S | 75 | 241 | 55/70 | 3,5 | 75 | 484 | 75/90 | 5,1 | 45 | 438 | 75 | 5,7 | 37 | 483 | 75 | 5,1 | 75x140 | | | | | |
| 280 M | 90 | 289 | | 2,9 | 90 | 581 | | 4,3 | 55 | 535 | | 4,6 | 45 | 587 | | 4,2 | | | | | | |
| 315 S | 110 | 353 | | 2,4 | 110 | 707 | | 75/90 | 3,5 | 75 | | 727 | 75/90 | 3,4 | | 55 | 712 | 75/90 | 3,5 | 65x140 | | |
| 315 M | 132 | 423 | | 2,9 | 90 | 873 | | | 2,8 | 75 | | 971 | | 2,8 | | 75 | 971 | | 6,2 | | | |
| 315 L | 160 | 513 | 75/90 | 4,8 | 160 | 1030 | 90/100 | 5,9 | 110 | 1070 | 90 | 5,7 | 90 | 1170 | 90 | 5,2 | 80x170 | | | | | |
| | 200 | 641 | | 3,9 | 200 | 1290 | | 4,7 | 132 | 1280 | | 4,7 | 110 | 1420 | | 4,2 | | | | | | |
| 355 L | 250 | 801 | | 3,1 | 250 | 1610 | | 90/100 | 3,7 | 160 | | 1550 | 90/100 | 3,9 | | 132 | 1710 | 90/100 | 3,5 | 75x140 | 95x170 | |
| | 315 | 1010 | | 6 | | | | | 315 | 2020 | | 3 | | 250 | | 2420 | 100 | | 2,5 | | | 200 |
| 400 L | 355 | 1140 | 90/100 | 5,3 | 355 | 2280 | 100 | | 2,6 | 315 | 3040 | 100 | | 2 | 250 | 3220 | 100 | 1,8 | 80x170 | 110x210 | | |
| | 400 | 1280 | | 4,7 | 400 | 2560 | | | 2,3 | | | | | | | | | | | | | |

| | | |
|----------------|----------------------|----|
| P _N | Motor nominal torque | kW |
| T _N | Motor nominal torque | Nm |
| K | Safety factor | |
| d x l | Motor shaft's end | mm |

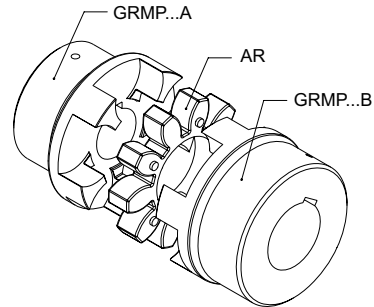
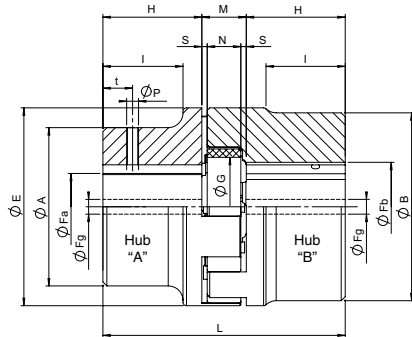
“GR” base program

TRASCO® couplings are dimensionally manufactured to hub types “A” and “B”, the difference being the maximum shaft diameter which hubs can accept (corresponding respectively to the first and second code number). The long hub execution “L” (allows full coverage of the motor shaft) is available in both “A” and “B” executions.

Materials used for manufacture are:

- cast iron grade GG25 (all sizes);
- aluminum, die-casting
- cast iron grade GGG40 and steel upon request.

Approved according to ATEX directive.



Dimensional specification hubs in GG25

| Size | Fa max [mm] | Fb max [mm] | Prebored Fg [mm] executions | | | | E [mm] | A [mm] | B [mm] | A execution [mm] | | | B execution [mm] | | | AL execution [mm] | | | BL execution [mm] | | | M [mm] | S [mm] | N [mm] | G [mm] |
|---------|-------------|-------------|-----------------------------|----|----|----|--------|--------|--------|------------------|-----|-----|------------------|-----|----|-------------------|-----|-----|-------------------|-----|-----|--------|--------|--------|--------|
| | | | A | B | AL | BL | | | | H | L | I | H | L | I | H | L | I | H | L | I | | | | |
| 19/24 | - | 24 | - | - | - | - | 40 | - | 40 | - | - | - | 25 | 66 | - | - | - | - | 50 | - | - | 16 | 2 | 12 | 18 |
| 24/32 | 24 | 32 | 8 | 10 | 8 | 10 | 55 | 40 | 55 | 30 | 78 | 24 | 30 | 78 | - | 50 | 118 | 44 | 60 | 116 | - | 18 | 2 | 14 | 27 |
| 28/38 | 28 | 38 | 8 | 10 | 8 | 10 | 65 | 48 | 65 | 35 | 90 | 28 | 35 | 90 | - | 60 | 140 | 53 | 80 | 180 | - | 20 | 2,5 | 15 | 30 |
| 38/45 | 38 | 45 | 10 | 12 | 14 | 14 | 80 | 66 | 80 | 45 | 114 | 37 | 45 | 114 | - | 80 | 184 | 72 | 110 | 244 | - | 24 | 3 | 18 | 38 |
| 42/55 | 42 | 55 | 10 | 12 | 16 | 16 | 95 | 75 | 95 | 50 | 126 | 40 | 50 | 126 | - | 110 | 246 | 100 | 110 | 246 | - | 26 | 3 | 20 | 46 |
| 48/60 | 48 | 60 | 12 | 12 | 16 | 16 | 105 | 85 | 105 | 56 | 140 | 45 | 56 | 140 | - | 110 | 248 | 99 | 140 | 308 | - | 28 | 3,5 | 21 | 51 |
| 55/70 | 55 | 70 | 15 | 15 | 16 | 16 | 120 | 98 | 120 | 65 | 160 | 52 | 65 | 160 | - | 110 | 250 | 97 | 140 | 310 | - | 30 | 4 | 22 | 60 |
| 65/75 | 65 | 75 | 15 | 15 | 20 | 20 | 135 | 115 | 135 | 75 | 185 | 61 | 75 | 185 | - | 140 | 315 | 126 | 140 | 315 | - | 35 | 4,5 | 26 | 68 |
| 75/90 | 75 | 90 | 15 | 15 | 22 | 22 | 160 | 135 | 160 | 85 | 210 | 69 | 85 | 210 | - | 140 | 320 | 124 | 170 | 380 | - | 40 | 5 | 30 | 80 |
| 90/100 | 90 | 100 | 20 | 20 | 30 | 30 | 200 | 160 | 180 | 100 | 245 | 81 | 100 | 245 | 81 | 170 | 385 | 151 | 210 | 465 | 191 | 45 | 5,5 | 34 | 100 |
| 100/110 | 115 | - | 45 | - | - | - | 225 | 180 | - | 110 | 270 | 89 | 110 | 270 | - | - | - | - | - | - | - | 50 | 6 | 38 | 113 |
| 110/125 | 125 | - | 55 | - | - | - | 255 | 200 | - | 120 | 295 | 96 | 120 | 295 | - | - | - | - | - | - | - | 55 | 6,5 | 42 | 127 |
| 125/145 | 145 | - | 55 | - | - | - | 290 | 230 | - | 140 | 340 | 112 | 140 | 340 | - | - | - | - | - | - | - | 60 | 7 | 46 | 147 |
| 140/160 | 160 | - | 55 | - | - | - | 320 | 255 | - | 155 | 375 | 124 | - | - | - | - | - | - | - | - | - | 65 | 7,5 | 50 | 165 |
| 160/185 | 185 | - | 75 | - | - | - | 370 | 290 | - | 175 | 425 | 140 | - | - | - | - | - | - | - | - | - | 75 | 9 | 57 | 190 |
| 180/200 | 200 | - | 80 | - | - | - | 420 | 325 | - | 195 | 475 | 156 | - | - | - | - | - | - | - | - | - | 85 | 10,5 | 64 | 220 |

Material: 19/24 Sintered steel - from 24/32 to 90/100 Cast Iron - Ductile Iron over.
Keyway according to DIN 6885 sheet 1 - JS9

Dimensional specification hubs in aluminum

| Size | Fa max [mm] | Fb max [mm] | Prebored Fg [mm] executions | | E [mm] | A [mm] | B [mm] | L [mm] | H [mm] | M [mm] | S [mm] | N [mm] | I [mm] | G [mm] | t [mm] | P [mm] |
|-------|-------------|-------------|-----------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | A | B | | | | | | | | | | | | |
| 19/24 | - | 24 | - | - | 40 | 40 | 40 | 66 | 25 | 16 | 2 | 12 | - | 18 | 10 | M5 |
| 24/32 | 24 | 32 | - | - | 55 | 40 | 55 | 78 | 30 | 18 | 2 | 14 | 24 | 27 | 10 | M5 |
| 28/38 | 28 | 38 | 12 | 28 | 65 | 48 | 65 | 90 | 35 | 20 | 2,5 | 15 | 28 | 30 | 15 | M6 |
| 38/45 | 38 | 45 | 22 | 38 | 80 | 66 | 77 | 114 | 45 | 24 | 3 | 18 | 37 | 38 | 15 | M8 |
| 42/55 | - | 55 | - | 22 | 95 | - | 95 | 126 | 50 | 26 | 3 | 20 | - | 46 | 20 | M8 |
| 48/60 | - | 60 | - | 30 | 105 | - | 105 | 140 | 56 | 28 | 3,5 | 21 | - | 51 | 20 | M8 |

Order form

| | | | |
|--|--------------------------|---|-------------------|
| Hub | GRMP 48/60 AL F48 | Spider | AR 48/60 R |
| GRMP: Standard TRASCO® hub GRMALU: TRASCO® aluminum hub | | TRASCO® spider | |
| Size | | Size | |
| A: execution A B: execution B AL: long execution A BL: long execution B | | 92 Sh A (yellow) if not indicated R: 98 Sh A (red) V: 64 Sh D (green) | |
| F...: diameter of the bore | | | |

Stock range

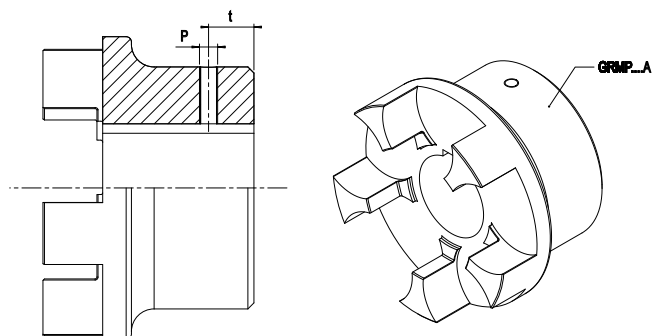
Hubs with finished bore H7, keyway (DIN 6885 sheet 1 - JS9), setscrew

| Type | 19/24 | | 24/32 | | 28/38 | | 38/45 | | 42/55 | | 48/60 | | 55/70 | | 65/75 | | 75/90 | | 90/100 | |
|-----------------------|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|--------|----|
| Material* | ALU | AC | ALU | GG | ALU | GG | ALU | GG | ALU | GG | ALU | GG | GG | GG | GG | GG | GG | GG | GG | GG |
| Hub execution | B | B | A | B | A | B | A | B | A | B | A | B | B | A | B | A | B | A | A | A |
| Stock range bore [mm] | 10 | • | • | | | | | | | | | | | | | | | | | |
| | 11 | • | • | | | | | | | | | | | | | | | | | |
| | 12 | • | • | | | | | | | | | | | | | | | | | |
| | 14 | • | • | • | | • | | • | | | | | | | | | | | | |
| | 15 | • | • | • | | • | | • | | | | | | | | | | | | |
| | 16 | • | • | • | | • | | • | | | | | | | | | | | | |
| | 18 | | • | • | | • | | • | | | | | | | | | | | | |
| | 19 | • | • | • | | • | | • | | | | | | | | | | | | |
| | 20 | • | • | • | | • | | • | | | | | | | | | | | | |
| | 22 | | | • | | • | | • | | | • | | | | | | | | | |
| | 24 | • | • | • | • | • | | • | | • | | • | | | | | | | | |
| | 25 | | | • | | • | | • | | • | | • | | • | • | | | | | |
| | 28 | | | • | | • | • | • | | • | | • | | • | • | | | | | |
| | 30 | | | | • | | • | | • | • | | • | | • | • | | • | | | |
| | 32 | | | | • | | | • | • | | • | | • | • | | • | | | | |
| | 35 | | | | | | • | | • | • | | • | | • | • | | • | | | |
| | 38 | | | | | | • | | • | • | | • | | • | • | | • | | | |
| | 40 | | | | | | | | | • | | • | | • | • | | • | | • | |
| | 42 | | | | | | | | | • | | • | | • | • | | • | | | |
| | 45 | | | | | | | | | | • | | • | • | • | | • | | • | |
| 48 | | | | | | | | | | • | | • | • | • | | • | | • | | |
| 50 | | | | | | | | | | • | | • | • | • | | • | | • | • | |
| 55 | | | | | | | | | | • | | • | • | • | | • | | • | • | |
| 60 | | | | | | | | | | | | • | • | | • | | • | • | • | |
| 65 | | | | | | | | | | | | | • | • | | • | | • | • | |
| 70 | | | | | | | | | | | | | | • | | | | • | • | |
| 75 | | | | | | | | | | | | | | | | | | • | • | |
| 80 | | | | | | | | | | | | | | | | | | | • | |
| 85 | | | | | | | | | | | | | | | | | | | • | |
| 90 | | | | | | | | | | | | | | | | | | | • | |

*ALU = Aluminum - AC = Steel - GG = Cast iron

Setscrews types for single hubs

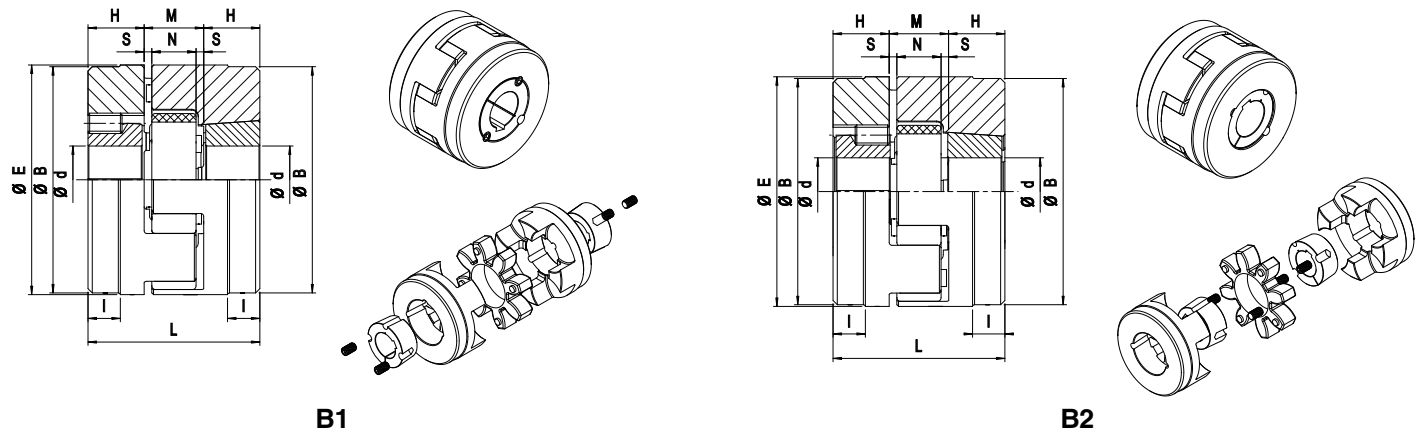
| Hub dimension | P | t [mm] | Screw tightening torque [Nm] |
|---------------|-----|--------|------------------------------|
| 19/24 | M5 | 10 | 2 |
| 24/32 | M5 | 10 | 2 |
| 28/38 | M6 | 15 | 4,8 |
| 38/45 | M8 | 15 | 10 |
| 42/55 | M8 | 20 | 10 |
| 48/60 | M8 | 20 | 10 |
| 55/70 | M10 | 20 | 17 |
| 65/75 | M10 | 20 | 17 |
| 75/90 | M10 | 25 | 17 |
| 90/100 | M12 | 30 | 40 |
| 100/110 | M12 | 30 | 40 |
| 110/125 | M16 | 35 | 80 |
| 125/145 | M16 | 40 | 80 |
| 140/160 | M20 | 45 | 140 |
| 160/185 | M20 | 50 | 140 |
| 180/200 | M20 | 50 | 140 |



“GRB” taper bushing series

TRASCO® couplings type GRB for taper bushing SER-SIT®, are manufactured in cast iron GG25. They combine the typical high performances of standard TRASCO® couplings with the advantages of easy mounting and dismounting offered by the taper bushing SER-SIT®. These hubs are manufactured in two different mounting executions:

- B1: installing of taper bushing from outside
 - B2: installing of taper bushing from inside (not available for size 90/100)
- The GRB execution eliminate the problem of fitting corrosion, making it suitable for all type of machinery. Hubs type B1 may be axially moved for spider replacement. **Compliant with ATEX Directive.**



| Size | Taper bushing | E [mm] | B [mm] | L [mm] | H [mm] | M [mm] | S [mm] | N [mm] | I [mm] |
|----------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 28/38 | 1108 (2820) | 65 | 65 | 66 | 23 | 20 | 2,5 | 15 | - |
| 38/45 | 1108 (2820) | 80 | 78 | 70 | 23 | 24 | 3 | 18 | 15 |
| 42/55 | 1610 (4025) | 95 | 94 | 78 | 26 | 26 | 3 | 20 | 16 |
| 48/60 | 1615 (4040) | 105 | 104 | 106 | 39 | 28 | 3,5 | 21 | 28 |
| 55/70 | 2012 (5030) | 120 | 118 | 96 | 33 | 30 | 4 | 22 | 20 |
| 65/75 | 2012 (5030) | 135 | 133 | 101 | 33 | 35 | 4,5 | 26 | 19 |
| 75/90 | 2517 (6545) | 160 | 158 | 130 | 45 | 40 | 5 | 30 | 36 |
| 90/100 * | 3535 (9090) | 200 | 180 | 223 | 89 | 45 | 5,5 | 34 | 70 |

* Only “B1” execution

| Taper lock type | Diameter of the bore (H7) Keyway according to DIN 6885 sheet 1 - JS9 | | Transmissible torque [Nm] | Transmittable friction torque | |
|-----------------|---|---|---------------------------|-------------------------------|-------------------------|
| | [mm] | [inches] | | Ø bore [mm] | [Nm] |
| 1108 (2820) | [mm] | 9 10 11 12 14 15 16 18 19 20 22 24 25 26 27 28 | 150 | 12 19 24 28 | 28 49 64 79 |
| | [inches] | 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8 | | | |
| 1610 (4025) | [mm] | 12 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 40 42 | 490 | 19 24 38 42 | 98 135 240 265 |
| | [inches] | 3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4 - 1 3/8 - 1 1/2 - 1 5/8 | | | |
| 1615 (4040) | [mm] | 12 14 15 16 18 19 20 22 24 25 28 30 32 35 38 40 42 | 490 | 19 24 38 42 | 98 135 240 265 |
| | [inches] | 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4 - 1 3/8 - 1 1/2 - 1 5/8 - 1 3/4 | | | |
| 2012 (5030) | [mm] | 14 15 16 18 19 20 22 24 25 26 28 30 32 35 38 40 42 45 48 50 | 800 | 24 38 42 48 50 | 165 310 340 400 420 |
| | [inches] | 5/8 - 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4 - 1 3/8 - 1 1/2 - 1 5/8 - 1 3/4 - 1 7/8 - 2 | | | |
| 2517 (6545) | [mm] | 6 18 19 20 22 24 25 28 30 32 35 38 40 42 45 48 50 55 60 65 | 1300 | 24 38 42 48 55 60 | 220 380 430 510 600 670 |
| | [inches] | 3/4 - 7/8 - 1 - 1 1/8 - 1 1/4 - 1 3/8 - 1 1/2 - 1 5/8 - 1 3/4 - 1 7/8 - 2 - 2 1/8 - 2 1/4 - 2 3/8 - 2 1/2 | | | |
| 3535 (9090) | [mm] | 25 28 30 32 35 38 40 42 45 48 50 55 60 65 70 75 80 85 90 | 5000 | 42 60 75 90 | 1000 1580 2150 2600 |
| | [inches] | 1 1/2 - 1 5/8 - 1 3/4 - 1 7/8 - 2 - 2 1/8 - 2 1/4 - 2 3/8 - 2 1/2 - 2 5/8 - 2 3/4 - 2 7/8 - 3 - 3 1/8 - 3 1/4 - 3 3/8 - 3 1/2 | | | |

Order form

| | | | |
|---|----------------------|---|-------------------|
| Hub | GRMB 48/60 B2 | Spider | AR 48/60 R |
| GRMB: TRASCO® GRMB for taper lock Size | | TRASCO® spider Size 92 Sh A (yellow) if not indicated R: 98 Sh A (red) V: 64 Sh D (green) | |

“GRCAL” series for use with SIT-LOCK® 8 locking elements

This execution has been introduced to incorporate advantages offered by the SIT-LOCK® 8 locking elements in the shaft-hub connection.

The system allows for a quick, safe and backlash free mounting without the use of keyway and eliminating the need for lock

washers, spacers and stop rings.

Many different solutions may be created to solve all kinds of application needs.

We include hereunder a very useful example. In fact, the same hub bore allows the fitting of different shaft diameters.

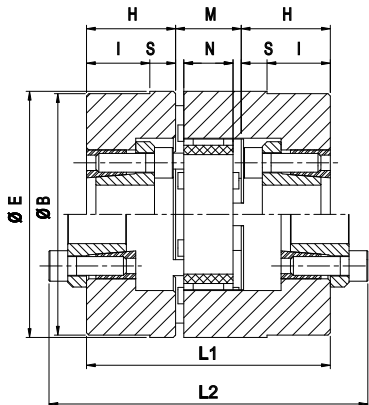


FIG 1

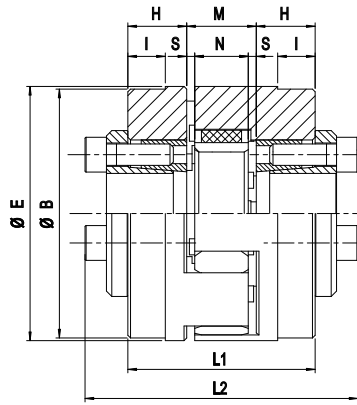


FIG 2

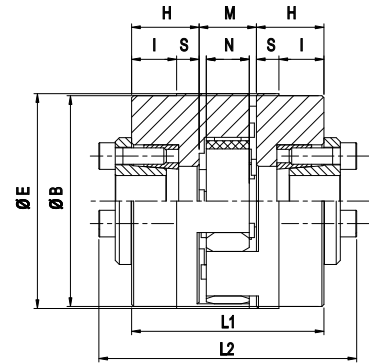


FIG 3

| Size | d [mm] | D [mm] | H [mm] | E [mm] | B [mm] | L1 [mm] | L2 [mm] | M [mm] | S [mm] | N [mm] | I [mm] | Material* | Fig. |
|--------|---|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|-----------|------|
| 38/45 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 30 | 80 | 78 | 84 | 116 | 24 | 3 | 18 | 22 | AC | 3 |
| 42/55 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 22 | 95 | 93 | 70 | 102 | 26 | 3 | 20 | 14 | GS-400 | 2 |
| | 24 - 25 - 28 - 30 - 32 - 35 - 38 - 40 | 65 | 32 | | | 90 | 122 | | | | 22 | AC | 3 |
| 48/60 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 38 | 105 | 103 | 104 | 136 | 28 | 3,5 | 21 | 27 | GS-400 | 1 |
| | 24 - 25 - 28 - 30 - 32 - 35 - 38 - 40 | 65 | 33 | | | 94 | 126 | | | | 22 | AC | 3 |
| 55/70 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 38 | 120 | 118 | 106 | 138 | 30 | 4 | 22 | 25 | GG25 | 1 |
| | 24 - 25 - 28 - 30 - 32 - 35 - 38 - 40 | 65 | 38 | | | 106 | 138 | | | | 25 | GS-400 | 1 |
| | 30 - 32 - 35 - 38 - 40 - 42 - 45 - 48 - 50 | 80 | 38 | | | 106 | 138 | | | | 25 | AC | 3 |
| 65/75 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 38 | 135 | 133 | 111 | 143 | 35 | 4,5 | 26 | 24 | GG25 | 1 |
| | 24 - 25 - 28 - 30 - 32 - 35 - 38 - 40 | 65 | 38 | | | 111 | 143 | | | | 24 | GS-400 | 1 |
| | 30 - 32 - 35 - 38 - 40 - 42 - 45 - 48 - 50 | 80 | 25 | | | 85 | 117 | | | | 11 | GS-400 | 2 |
| 75/90 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 38 | 160 | 158 | 116 | 148 | 40 | 5 | 30 | 22 | GG25 | 1 |
| | 24 - 25 - 28 - 30 - 32 - 35 - 38 - 40 | 65 | 38 | | | 116 | 148 | | | | 22 | GG25 | 1 |
| | 30 - 32 - 35 - 38 - 40 - 42 - 45 - 48 - 50 | 80 | 41 | | | 122 | 154 | | | | 25 | GS-400 | 1 |
| 90/100 | 14 - 16 - 18 - 19 - 20 - 22 - 24 - 25 - 28 - 30 | 55 | 38 | 200 | 180 | 121 | 153 | 45 | 5,5 | 34 | 19 | GG25 | 1 |
| | 24 - 25 - 28 - 30 - 32 - 35 - 38 - 40 | 65 | 38 | | | 121 | 153 | | | | 19 | GG25 | 1 |
| | 30 - 32 - 35 - 38 - 40 - 42 - 45 - 48 - 50 | 80 | 41 | | | 127 | 159 | | | | 22 | GG25 | 1 |

*: AC = steel / GG 25 = cast iron 25 / GS-400 = Spheroidal cast-iron 400

Order form

Hub **GRMC 48/60**

GRMC: TRASCO® hub for SIT-LOCK® 8

Size

Spider **AR 48/60 R**

TRASCO® spider

Size

Yellow if not indicated; R: red; V: green

SIT-LOCK® elements **CAL 8 F20 / 55**

CAL: SIT-LOCK® element

Size

Bore diameter

External bore diameter

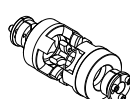


Fig. 1 External SIT-LOCK®

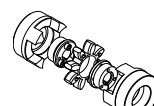


Fig. 1 Internal SIT-LOCK®

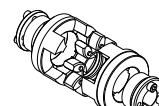


Fig. 2

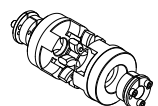
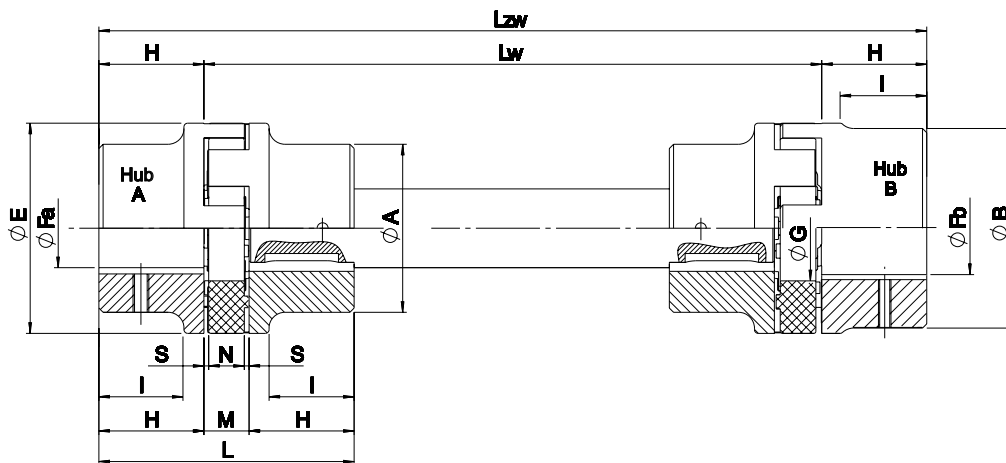


Fig. 3

“GRL” series with intermediate shaft

The GRL series allows the joining of two shafts (even very distant) through two TRASCO® couplings and an intermediate shaft (length “Lw”) of customized dimension. The presence of two polyurethane rings allows high dampening

capability and greater radial misalignments. As a standard, hubs are made of cast iron, while shafts are from steel; though, different materials can be used, according to different applications.

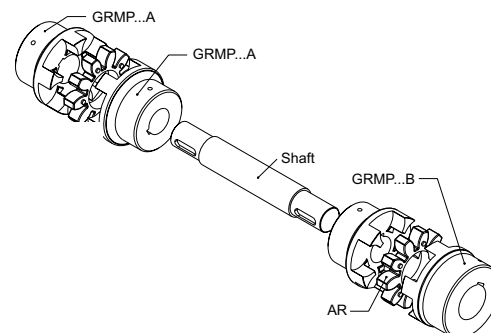


| Size | Fa [mm] | Fb [mm] | E [mm] | A [mm] | B [mm] | H [mm] execution | | | L [mm] | | M [mm] | S [mm] | N [mm] | I [mm] execution | | | | G [mm] |
|---------|----------|----------|--------|--------|--------|------------------|-----|-----|--------|-------|--------|--------|--------|------------------|----|-----|-----|--------|
| | | | | | | A-B | AL | BL | A-B | AL-BL | | | | A | B | AL | BL | |
| 24/32 | 9 - 24 | 11 - 32 | 55 | 40 | 55 | 30 | 50 | 60 | 78 | 128 | 18 | 2 | 14 | 24 | - | 44 | - | 27 |
| 28/38 | 9 - 28 | 11 - 38 | 65 | 48 | 65 | 35 | 60 | 80 | 90 | 160 | 20 | 2,5 | 15 | 28 | - | 53 | - | 30 |
| 38/45 | 11 - 38 | 13 - 45 | 80 | 66 | 80 | 45 | 80 | 110 | 114 | 214 | 24 | 3 | 18 | 37 | - | 72 | - | 38 |
| 42/55 | 11 - 42 | 13 - 55 | 95 | 75 | 95 | 50 | 110 | 110 | 126 | 246 | 26 | 3 | 20 | 40 | - | 100 | - | 46 |
| 48/60 | 13 - 48 | 13 - 60 | 105 | 85 | 105 | 56 | 110 | 140 | 140 | 278 | 28 | 3,5 | 21 | 45 | - | 99 | - | 51 |
| 55/70 | 16 - 55 | 16 - 70 | 120 | 98 | 120 | 65 | 110 | 140 | 160 | 280 | 30 | 4 | 22 | 52 | - | 97 | - | 60 |
| 65/75 | 16 - 65 | 16 - 75 | 135 | 115 | 135 | 75 | 140 | 140 | 185 | 315 | 35 | 4,5 | 26 | 61 | - | 126 | - | 68 |
| 75/90 | 16 - 75 | 16 - 90 | 160 | 135 | 160 | 85 | 140 | 170 | 210 | 350 | 40 | 5 | 30 | 69 | - | 124 | - | 80 |
| 90/100 | 21 - 90 | 21 - 100 | 200 | 160 | 180 | 100 | 170 | 210 | 245 | 425 | 45 | 5,5 | 34 | 81 | 81 | 151 | 191 | 100 |
| 100/110 | 46 - 115 | - | 225 | 180 | - | 110 | - | - | 270 | - | 50 | 6 | 38 | 89 | - | - | - | 113 |
| 110/125 | 56 - 125 | - | 255 | 200 | - | 120 | - | - | 295 | - | 55 | 6,5 | 42 | 96 | - | - | - | 127 |
| 125/145 | 56 - 145 | - | 290 | 230 | - | 140 | - | - | 340 | - | 60 | 7 | 46 | 112 | - | - | - | 147 |

Keyway according to DIN 6885 sheet 1 - JS9

Coupling configurator

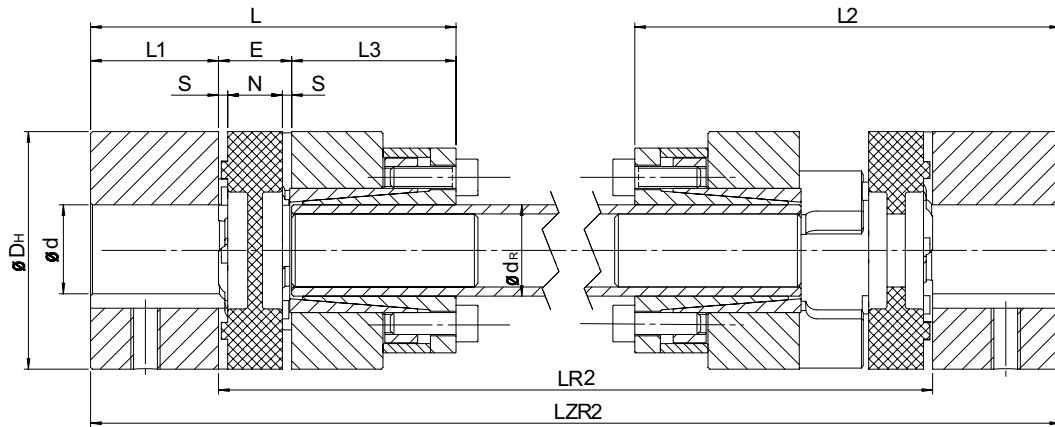
| Coupling code | Item | Type | Execution | Bore diameter | Order example |
|---------------|-------------------------------------|-------|-----------|---------------|---------------|
| GRL38/45 | Hub 1 | GR | A-B-AL-BL | F... | GRMP38/45AF35 |
| | | GRB | B1-B2 | F... | |
| | | GRCAL | - | F... | |
| | Spider 1 | AR | G-R-V | - | AR38/45V |
| | Distance between two side shafts Lw | | | | Lw = 1200 mm |
| | Spider 2 | AR | G-R-V | - | AR38/45V |
| | Hub 2 | GR | A-B-AL-BL | F... | GRMP38/45BF40 |
| GRB | | B1-B2 | F... | | |
| GRCAL | | - | F... | | |



“GRL CAL3” series with intermediate shaft

The GRL CAL3 series allows the joining of two shafts (even two spaced) through two TRASCO® couplings and an intermediate shaft (length “LR2”) of customized dimension, mounted with shrink discs on the hubs. The presence of two polyurethane elements allows high

dampening capability and greater radial misalignments. As a standard, hubs are made of cast iron, while shafts are made of steel; though different materials can be used according to different applications.

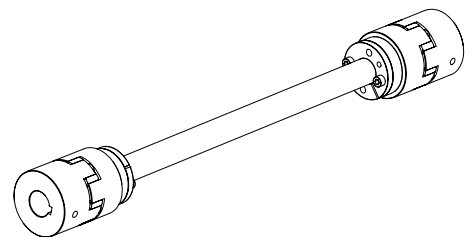


| Size | External hub | | Dimensions [mm] GRL-CAL3 | | | | | | | | | | | | Internal hub | | |
|-------|--------------|------|--------------------------|----|----|-----|----|----|-----|-------|----------|---------|--------------------|--------------|----------------------|------------------------------|------------|
| | | | DH | L1 | L3 | L | E | N | s | L2 | LR2 min. | LZR2 | Intermediate shaft | | SIT-LOCK® 3 elements | | |
| | dmin | dmax | | | | | | | | | | | dR | C [Nm/Rad·m] | Type | Screw Din 912-12.9 M-L | TA [Nm] |
| 14 | 4 | 15 | 30 | 11 | 26 | 50 | 13 | 10 | 1,5 | 61,5 | 109 | LR2+22 | 10x2.0 | 68,36 | 10x16 | M4X10 | 4,9 |
| 19/24 | 6 | 24 | 40 | 25 | 26 | 67 | 16 | 12 | 2 | 81 | 120 | LR2+50 | 12x2.0 | 130 | 12x18 | M4X10 | 4,9 |
| 24/32 | 8 | 28 | 55 | 30 | 38 | 86 | 18 | 14 | 2 | 102 | 156 | LR2+60 | 20x3.0 | 954,9 | 20x28 | M6X18 | 17 |
| 28/38 | 10 | 38 | 65 | 35 | 45 | 100 | 20 | 15 | 2,5 | 117,5 | 177 | LR2+70 | 25x2.5 | 1811 | 25x34 | M6X18 | 17 |
| 38/45 | 12 | 45 | 80 | 45 | 45 | 114 | 24 | 18 | 3 | 135 | 192 | LR2+90 | 32x3.5 | 5167 | 32x43 | M6X18 | 17 |
| 42/55 | 14 | 55 | 95 | 50 | 52 | 128 | 26 | 20 | 3 | 151 | 214 | LR2+100 | 40x4.0 | 11870 | 40x53 | M6X18 | 17 |
| 48/60 | 15 | 60 | 105 | 56 | 70 | 154 | 28 | 21 | 3,5 | 178,5 | 261 | LR2+112 | 45x4.0 | 17486 | 45x59 | M8X22 | 41 |
| 55/70 | 20 | 74 | 120 | 65 | 80 | 175 | 30 | 22 | 4 | 201 | 288 | LR2+130 | 55x4.0 | 33543 | 55x71 | M8X22 | 41 |
| 65/75 | 22 | 80 | 135 | 75 | 80 | 190 | 35 | 26 | 4,5 | 220,5 | 307 | LR2+150 | 60x4.0 | 44362 | 60x77 | M8X22 | 41 |

Keyway according to DIN 6885 sheet 1 - JS9

Coupling configurator

| Coupling code | Item | Type | Execution | Bore diameter | Order example |
|---------------|--------------------------------------|-------|-----------|---------------|---------------|
| GRLC38/45 | Hub 1 | GR | A-B-AL-BL | F... | GRMP38/45AF35 |
| | | GRB | B1-B2 | F... | |
| | | GRCAL | - | F... | |
| | Spider 1 | AR | G-R-V | - | AR38/45V |
| | Distance between two side shafts LR2 | | | | LR2 = 1200 mm |
| | Spider 2 | AR | G-R-V | - | AR38/45V |
| | Hub 2 | GR | A-B-AL-BL | F... | GRMP38/45BF40 |
| GRB | | B1-B2 | F... | | |
| GRCAL | | - | F... | | |



“GRF” flange series

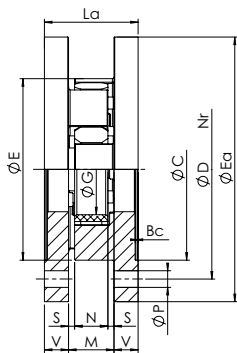
The GRF series with flanges has been developed for applications on heavy machinery and to combine different shafts and flange solutions.

There are different assembling options:

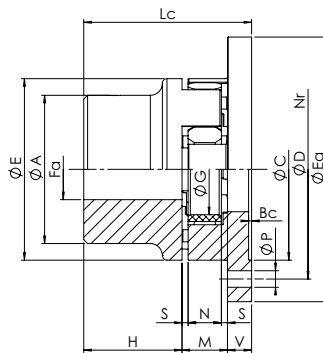
Flange-flange: using two hubs type “CF”

Flange-shaft: using one hub Trasco standard “GR” and one hub type “CF”

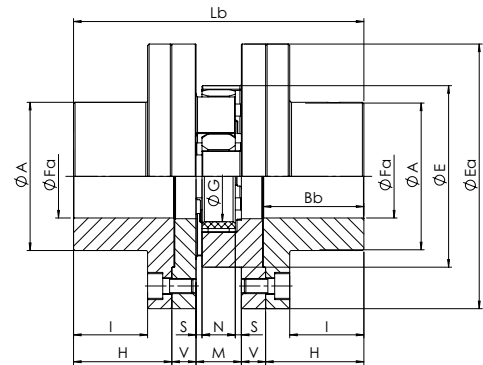
Shaft-shaft: using two hubs type “CFF”, allows the replacement of the elastic element without dismounting of either motor-machine or driven-machine.



flange - flange



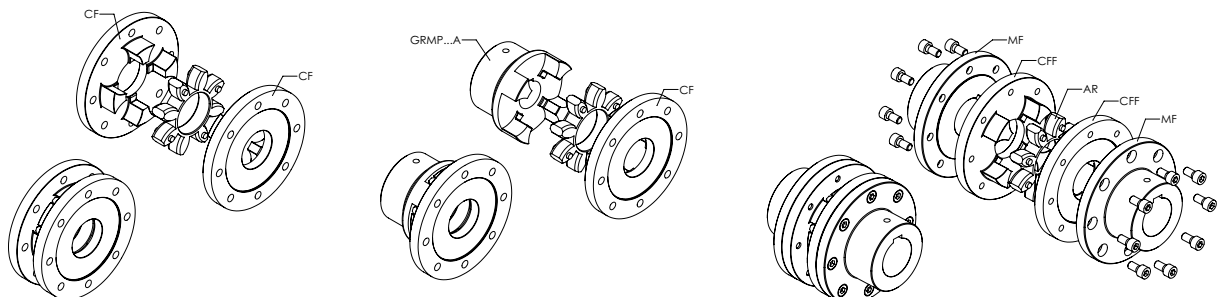
flange - shaft



shaft - shaft

| Size | Fa min [mm] | Fa max [mm] | E [mm] | Ea [mm] | A [mm] | C [mm] | D [mm] | No. of screws | P [mm] | G [mm] | H [mm] | Bb [mm] | Bc [mm] | I [mm] | V [mm] | M [mm] | S [mm] | N [mm] | La [mm] | Lb [mm] | Lc [mm] |
|---------|-------------|-------------|--------|---------|--------|--------|--------|---------------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|---------|---------|---------|
| 19/24 | 6 | 19 | 40 | 65 | 40/32 | 40 | 50 | 5 | 4,5 | 18 | 25 | 26 | 1,5 | 17 | 8 | 16 | 2 | 12 | 32 | 82 | 49 |
| 24/32 | 8 | 24 | 55 | 80 | 55/40 | 55 | 65 | 5 | 4,5 | 27 | 30 | 31 | 1,5 | 22 | 8 | 18 | 2 | 14 | 34 | 94 | 56 |
| 28/38 | 10 | 28 | 65 | 100 | 65/48 | 65 | 80 | 6 | 6,5 | 30 | 35 | 36 | 1,5 | 25 | 10 | 20 | 2,5 | 15 | 40 | 110 | 65 |
| 38/45 | 12 | 38 | 80 | 115 | 66 | 80 | 95 | 6 | 6,5 | 38 | 45 | 46 | 1,5 | 35 | 10 | 24 | 3 | 18 | 44 | 134 | 79 |
| 42/55 | 14 | 42 | 95 | 140 | 75 | 95 | 115 | 6 | 9 | 46 | 50 | 51 | 2 | 38 | 12 | 26 | 3 | 20 | 50 | 150 | 88 |
| 48/60 | 15 | 48 | 105 | 150 | 85 | 105 | 125 | 8 | 9 | 51 | 56 | 57 | 2 | 44 | 12 | 28 | 3,5 | 21 | 52 | 164 | 96 |
| 55/70 | 20 | 55 | 120 | 175 | 98 | 120 | 145 | 8 | 11 | 60 | 65 | 66 | 2 | 49 | 16 | 30 | 4 | 22 | 62 | 192 | 111 |
| 65/75 | 22 | 65 | 135 | 190 | 115 | 135 | 160 | 10 | 11 | 68 | 75 | 76 | 2 | 59 | 16 | 35 | 4,5 | 26 | 67 | 217 | 126 |
| 75/90 | 30 | 75 | 160 | 215 | 135 | 160 | 185 | 10 | 14 | 80 | 85 | 87 | 2,5 | 66 | 19 | 40 | 5 | 30 | 78 | 248 | 144 |
| 90/100 | 40 | 90 | 200 | 260 | 160 | 200 | 225 | 12 | 14 | 100 | 100 | 102 | 3 | 80 | 20 | 45 | 5,5 | 34 | 85 | 285 | 165 |
| 100/110 | 45 | 115 | 225 | 285 | 180 | 225 | 250 | 12 | 14 | 113 | 110 | 112 | 4 | 85 | 25 | 50 | 6 | 38 | 100 | 320 | 185 |
| 110/125 | 55 | 125 | 255 | 330 | 200 | 255 | 290 | 12 | 18 | 127 | 120 | 122 | 4 | 94 | 26 | 55 | 6,5 | 42 | 107 | 347 | 201 |
| 125/145 | 55 | 145 | 290 | 370 | 230 | 290 | 325 | 16 | 18 | 147 | 140 | 142 | 5 | 110 | 30 | 60 | 7 | 46 | 120 | 400 | 230 |

Keyway according to DIN 6885 sheet 1 - JS9. Material GJS400.



Order form

Hub **GRF CF 48**

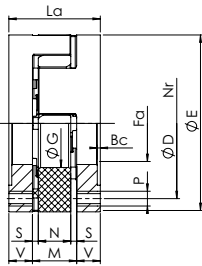
GRF: flange series

CF: Flange “CF” execution
CFF: Flange “CFF” execution

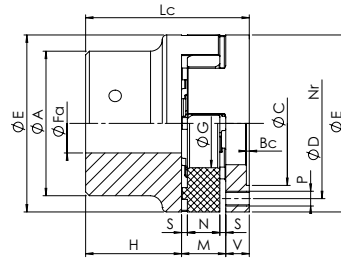
Size

“GRF C” flange series

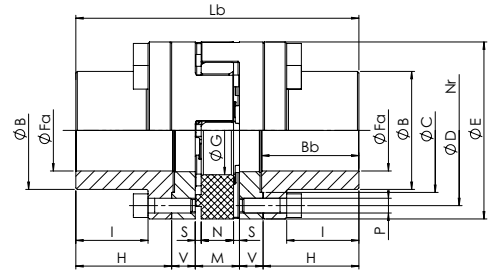
The GRF C series has the same characteristics as the BF series, while being compact in dimension.



flange - flange



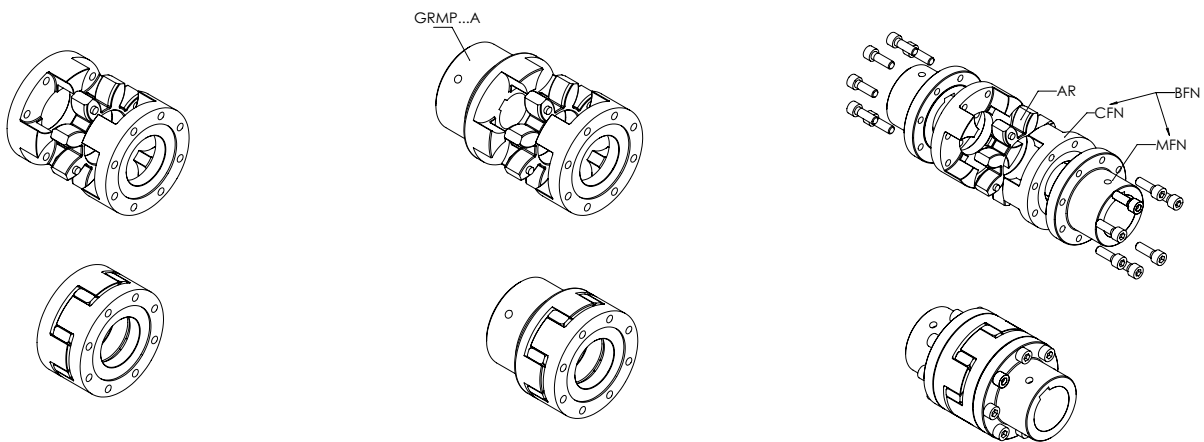
flange - shaft



shaft - shaft

| Size | Fa min [mm] | Fa max [mm] | E [mm] | A [mm] | B [mm] | H [mm] | I [mm] | La [mm] | Lb [mm] | Lc [mm] | V [mm] | M [mm] | S [mm] | N [mm] | Bb [mm] | Bc [mm] | G [mm] | D [mm] | Nr | C [mm] | P [mm] |
|---------|-------------|-------------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|---------|---------|--------|--------|----|--------|--------|
| 24/32 | 8 | 24 | 55 | 40 | 36 | 30 | 22 | 34 | 94 | 56 | 8 | 18 | 2 | 14 | 31 | 1,5 | 27 | 45 | 8 | 36 | M5 |
| 28/38 | 10 | 28 | 65 | 48 | 42 | 35 | 25 | 40 | 110 | 65 | 10 | 20 | 2,5 | 15 | 36 | 1,5 | 30 | 54 | 8 | 44 | M6 |
| 38/45 | 12 | 38 | 80 | 66 | 52 | 45 | 35 | 44 | 134 | 79 | 10 | 24 | 3 | 18 | 46 | 1,5 | 38 | 66 | 8 | 54 | M8 |
| 42/55 | 14 | 42 | 95 | 75 | 62 | 50 | 38 | 50 | 150 | 88 | 12 | 26 | 3 | 20 | 51 | 2 | 46 | 80 | 12 | 65 | M8 |
| 48/60 | 15 | 48 | 105 | 85 | 70 | 56 | 44 | 52 | 164 | 96 | 12 | 28 | 3,5 | 21 | 57 | 2 | 51 | 90 | 12 | 75 | M8 |
| 55/70 | 20 | 55 | 120 | 98 | 80 | 65 | 49 | 62 | 192 | 111 | 16 | 30 | 4 | 22 | 66 | 2 | 60 | 102 | 8 | 84 | M10 |
| 65/75 | 22 | 65 | 135 | 115 | 94 | 75 | 59 | 67 | 217 | 126 | 16 | 35 | 4,5 | 26 | 76 | 2 | 68 | 116 | 12 | 96 | M10 |
| 75/90 | 30 | 75 | 160 | 135 | 108 | 85 | 66 | 78 | 248 | 144 | 19 | 40 | 5 | 30 | 87 | 2,5 | 80 | 136 | 15 | 112 | M12 |
| 90/100 | 40 | 90 | 200 | 160 | 142 | 100 | 80 | 85 | 285 | 165 | 20 | 45 | 5,5 | 34 | 102 | 3 | 100 | 172 | 15 | 145 | M16 |
| 100/110 | 45 | 115 | 225 | 180 | 158 | 110 | 85 | 100 | 320 | 185 | 25 | 50 | 6 | 38 | 112 | 4 | 113 | 195 | 15 | 165 | M16 |
| 110/125 | 55 | 125 | 255 | 200 | 178 | 120 | 94 | 107 | 347 | 201 | 26 | 55 | 6,5 | 42 | 122 | 4 | 127 | 218 | 15 | 180 | M20 |
| 125/145 | 55 | 145 | 290 | 230 | 206 | 140 | 110 | 120 | 400 | 230 | 30 | 60 | 7 | 46 | 142 | 5 | 147 | 252 | 15 | 215 | M20 |

Keyway according to DIN 6885 sheet 1 - JS9.



Order form

Hub

GRFBFN 48

GRFBFN: shaft side flange "BFN" execution
 GRFCFN: ring side flange "BFN" - "CFN" execution

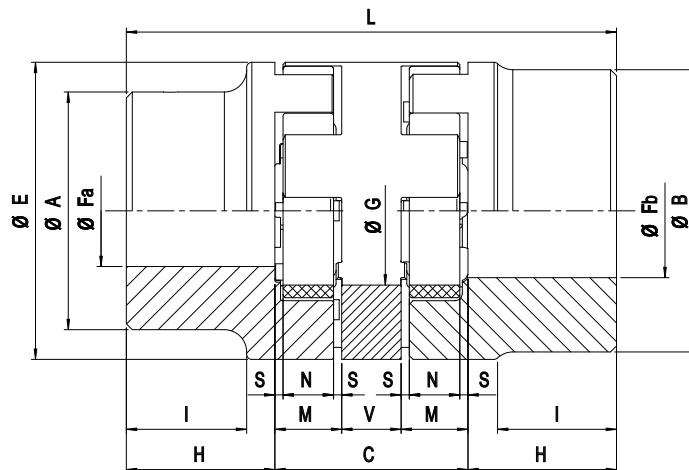
Size

Nr Number of screws

“GRS” double cardanic series

The GRS series allows compensation of high axial, radial and angular misalignment. Additionally, the use of the double

spider allows for twice the torsion angle and provides very high dampening effect.



| Size | Fa [mm] | Fb [mm] | H [mm] | V [mm] | C [mm] | M [mm] | S [mm] | N [mm] | L [mm] | E [mm] | A [mm] | B [mm] | G [mm] | ΔK_r [mm] | ΔK_w [°] |
|--------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------------|------------------|
| 24/32 | 9 - 24 | 11 - 32 | 30 | 16 | 52 | 18 | 2 | 14 | 112 | 55 | 40 | 55 | 27 | 0,89 | 1°30' |
| 28/38 | 9 - 28 | 11 - 38 | 35 | 18 | 58 | 20 | 2,5 | 15 | 128 | 65 | 48 | 65 | 30 | 1 | |
| 38/45 | 11 - 38 | 13 - 45 | 45 | 20 | 68 | 24 | 3 | 18 | 158 | 80 | 66 | 80 | 38 | 1,15 | |
| 42/55 | 11 - 42 | 13 - 55 | 50 | 22 | 74 | 26 | 3 | 20 | 174 | 95 | 75 | 95 | 46 | 1,26 | |
| 48/60 | 13 - 48 | 13 - 60 | 56 | 24 | 80 | 28 | 3,5 | 21 | 192 | 105 | 85 | 105 | 51 | 1,36 | |
| 55/70 | 16 - 55 | 16 - 70 | 65 | 28 | 88 | 30 | 4 | 22 | 218 | 120 | 98 | 120 | 60 | 1,52 | |
| 65/75 | 16 - 65 | 16 - 75 | 75 | 32 | 102 | 35 | 4,5 | 26 | 252 | 135 | 115 | 135 | 68 | 1,75 | |
| 75/90 | 16 - 75 | 16 - 90 | 85 | 36 | 116 | 40 | 5 | 30 | 286 | 160 | 135 | 160 | 80 | 2 | |
| 90/100 | 21 - 90 | 21 - 100 | 100 | 40 | 130 | 45 | 5,5 | 34 | 330 | 200 | 160 | 180 | 100 | 2,5 | |

Keyway according to DIN 6885 sheet 1 - JS9

Order form

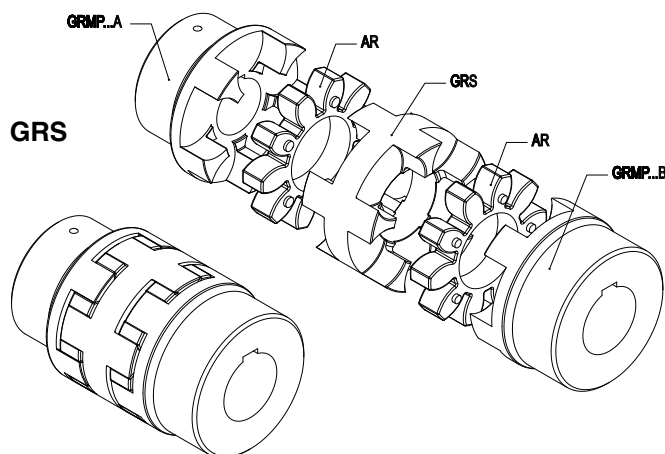
For hub “GR” order form please see TRASCO® GR base program

Spacer element **GRS 48/60**

GRS: spacer element

Size

| | | |
|--------------|------------------------------|----|
| F_a | Bore of hub “A” | mm |
| F_b | Bore of hub “B” | mm |
| ΔK_r | Maximum radial misalignment | mm |
| ΔK_w | Maximum angular misalignment | ° |



“GR FRT” drum brake series

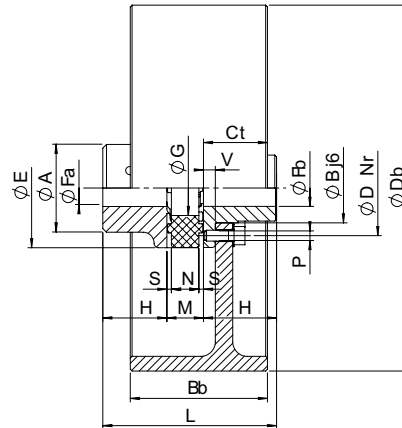
The GR FRT series has been developed to suit drum brake (FRT) transmission according to DIN 15431/15435.

It is considered an elastic coupling consisting of:

- Standard hub (any of TRASCO® family)
- Elastic spider
- Special hub attached to brake drum

Components are either made of cast-iron (G25), spheroidal cast-iron (GS400), or steel according to application.

Also, assembling of different dimensioned brake drum to any kind of coupling is allowed. See below tables.



Keyway according to DIN 6885 sheet 1 - JS9

| Db x Bb [mm] | Size | | | | | | | | | | | W _{FRT} [kg] | J _{FRT} [kg m ²] | min ⁻¹ with V _{max} 30 m/s | |
|--------------|-------------------------------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|-----------------------|---------------------------------------|--|------|
| | 28/38 | 38/45 | 42/55 | 48/60 | 55/70 | 65/75 | 75/90 | 90/100 | 100/110 | 110/125 | 125/145 | | | | |
| | GR FRT - drum brake - Ct [mm] | | | | | | | | | | | | | | |
| 160x60 | 30 | 31 | - | - | - | - | - | - | - | - | - | - | 2,12 | 0,01 | 3580 |
| 200x75 | 35 | 36 | 38 | 39 | 41 | - | - | - | - | - | - | - | 3,45 | 0,03 | 2860 |
| 250x95 | 43 | 44 | 46 | 47 | 49 | 50 | 52 | - | - | - | - | - | 6,87 | 0,08 | 2290 |
| 315x118 | - | - | 55 | 56 | 58 | 59 | 61 | 64 | - | - | - | - | 14,95 | 0,28 | 1820 |
| 400x150 | - | - | 68 | 69 | 71 | 72 | 74 | 77 | 79 | 82 | - | - | 31,20 | 0,89 | 1430 |
| 500x190 | - | - | - | - | - | 87 | 89 | 92 | 94 | 97 | 101 | - | 60,00 | 2,70 | 1150 |
| 630x236 | - | - | - | - | - | - | 107 | 110 | 112 | 115 | 119 | - | 112,00 | 8,01 | 910 |
| 710x265 | - | - | - | - | - | - | - | - | 123 | 126 | 130 | - | 161,00 | 14,90 | 810 |
| 800x300 | - | - | - | - | - | - | - | - | - | - | 144 | - | 202,00 | 27,20 | 720 |

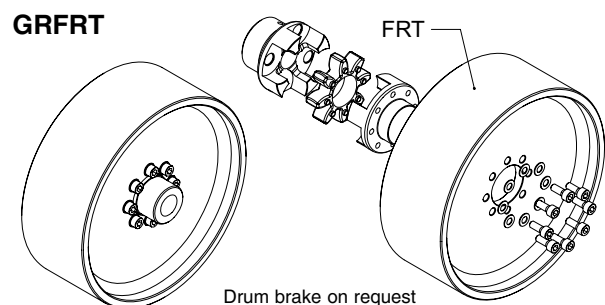
| Size | Fa;Fb min [mm] | Fa;Fb max [mm] | | | | E [mm] | A [mm] | B [mm] | H [mm] | L [mm] | G [mm] | Nr | V [mm] | M [mm] | S [mm] | N [mm] | D [mm] | P [mm] |
|---------|----------------|----------------|-----------|------------|------------|--------|--------|--------|--------|--------|--------|----|--------|--------|--------|--------|--------|--------|
| | | Fa | Fb (GG25) | Fb (GS400) | Fb (Steel) | | | | | | | | | | | | | |
| 28/38 | 10 | 28 | 20 | 22 | 24 | 65 | 48 | 38 | 35 | 90 | 30 | 8 | 6,5 | 20 | 2,5 | 15 | 52 | M6 |
| 38/45 | 12 | 38 | 28 | 32 | 34 | 80 | 66 | 50 | 45 | 114 | 38 | 8 | 7,5 | 24 | 3 | 18 | 66 | M8 |
| 42/55 | 14 | 42 | 30 | 38 | 42 | 95 | 75 | 60 | 50 | 126 | 46 | 12 | 9,5 | 26 | 3 | 20 | 80 | M8 |
| 48/60 | 15 | 48 | 35 | 45 | 48 | 105 | 85 | 68 | 56 | 140 | 51 | 12 | 10,5 | 28 | 3,5 | 21 | 90 | M8 |
| 55/70 | 20 | 55 | 42 | 50 | 55 | 120 | 98 | 78 | 65 | 160 | 60 | 8 | 12,5 | 30 | 4 | 22 | 102 | M10 |
| 65/75 | 22 | 65 | 48 | 55 | 65 | 135 | 115 | 92 | 75 | 185 | 68 | 12 | 13,5 | 35 | 4,5 | 26 | 116 | M10 |
| 75/90 | 30 | 75 | 58 | 70 | 75 | 160 | 135 | 106 | 85 | 210 | 80 | 15 | 15,5 | 40 | 5 | 30 | 136 | M12 |
| 90/100 | 40 | 90 | 75 | 90 | 100 | 200 | 160 | 140 | 100 | 245 | 100 | 15 | 18,5 | 45 | 5,5 | 34 | 172 | M16 |
| 100/110 | 45 | 115 | - | 100 | - | 225 | 180 | 156 | 110 | 270 | 113 | 15 | 20,5 | 50 | 6 | 38 | 195 | M16 |
| 110/125 | 55 | 125 | - | 110 | - | 255 | 200 | 176 | 120 | 295 | 127 | 15 | 23,5 | 55 | 6,5 | 42 | 218 | M20 |
| 125/145 | 55 | 145 | - | 130 | - | 290 | 230 | 204 | 140 | 340 | 147 | 15 | 27,5 | 60 | 7 | 46 | 252 | M20 |

Order form

Hub

GRFRT: brake side hub

Size



W_{FRT} “GRFRT” weight kg
 J_{FRT} “GRFRT” moment of inertia kgm²
 Nr Number of screws

“GR FRD” brake disc series

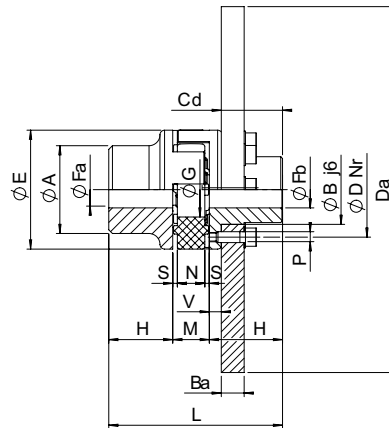
The GR FRD series has been developed to suit disc-brake (FRD) transmissions.

It is considered an elastic coupling consisting of:

- Standard hub (any of TRASCO® family)
- Elastic spider
- Special hub attached to the brake disc

Components are either made of cast-iron (GG25), spheroidal cast-iron (GS400), or steel according to application.

Also, assembling of different dimensioned brake discs to any kind of coupling is allowed. See below tables.



Keyway according to DIN 6885 sheet 1 - JS9

| GR FRD - brake disc | | | | | | | | | | | | W _{FRD} [kg] | J _{FRD} [kg m ²] | min ⁻¹ with V _{max} 40 m/s |
|---------------------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|--------------------------|--|---|
| Da x Ba | 28/38 | 38/45 | 42/55 | 48/60 | 55/70 | 65/75 | 75/90 | 90/100 | 100/110 | 110/125 | 125/145 | | | |
| 200x12,5 | X | X | - | - | - | - | - | - | - | - | - | 2,93 | 0,0154 | 3820 |
| 250x12,5 | X | X | X | X | - | - | - | - | - | - | - | 4,66 | 0,0376 | 3060 |
| 315x16 | - | - | X | X | X | X | X | - | - | - | - | 8,62 | 0,1118 | 2430 |
| 400x16 | - | - | - | X | X | X | X | X | X | X | - | 15,23 | 0,3152 | 1910 |
| 500x16 | - | - | - | - | X | X | X | X | X | X | X | 23,96 | 0,7680 | 1530 |
| 630x20 | - | - | - | - | - | X | X | X | X | X | X | 47,72 | 2,4264 | 1210 |
| 710x20 | - | - | - | - | - | X | X | X | X | X | X | 60,93 | 3,9151 | 1080 |
| 800x25 | - | - | - | - | - | - | - | X | X | X | X | 94,91 | 7,8790 | 950 |
| 900x25 | - | - | - | - | - | - | - | - | - | X | X | 118,95 | 12,6091 | 850 |

| Size | Fa;Fb min [mm] | Fa;Fb max [mm] | | | | E [mm] | A [mm] | B [mm] | H [mm] | L [mm] | G [mm] | Nr | V [mm] | M [mm] | S [mm] | N [mm] | D [mm] | Cd [mm] | P [mm] |
|---------|----------------------|----------------|--------------|---------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|----|-----------|-----------|-----------|-----------|-----------|------------|-----------|
| | | Fa | Fb (GG25) | Fb (GS400) | Fb (Steel) | | | | | | | | | | | | | | |
| 28/38 | 10 | 28 | 20 | 22 | 24 | 65 | 48 | 38 | 35 | 90 | 30 | 8 | 6,5 | 20 | 2,5 | 15 | 52 | 28,5 | M6 |
| 38/45 | 12 | 38 | 28 | 32 | 34 | 80 | 66 | 50 | 45 | 114 | 38 | 8 | 7,5 | 24 | 3 | 18 | 66 | 37,5 | M8 |
| 42/55 | 14 | 42 | 30 | 38 | 42 | 95 | 75 | 60 | 50 | 126 | 46 | 12 | 9,5 | 26 | 3 | 20 | 80 | 40,5 | M8 |
| 48/60 | 15 | 48 | 35 | 45 | 48 | 105 | 85 | 68 | 56 | 140 | 51 | 12 | 10,5 | 28 | 3,5 | 21 | 90 | 45,5 | M8 |
| 55/70 | 20 | 55 | 42 | 50 | 55 | 120 | 98 | 78 | 65 | 160 | 60 | 8 | 12,5 | 30 | 4 | 22 | 102 | 52,5 | M10 |
| 65/75 | 22 | 65 | 48 | 55 | 65 | 135 | 115 | 92 | 75 | 185 | 68 | 12 | 13,5 | 35 | 4,5 | 26 | 116 | 61,5 | M10 |
| 75/90 | 30 | 75 | 58 | 70 | 75 | 160 | 135 | 106 | 85 | 210 | 80 | 15 | 15,5 | 40 | 5 | 30 | 136 | 69,5 | M12 |
| 90/100 | 40 | 90 | 75 | 90 | 100 | 200 | 160 | 140 | 100 | 245 | 100 | 15 | 18,5 | 45 | 5,5 | 34 | 172 | 81,5 | M16 |
| 100/110 | 45 | 115 | - | 100 | - | 225 | 180 | 156 | 110 | 270 | 113 | 15 | 20,5 | 50 | 6 | 38 | 195 | 89,5 | M16 |
| 110/125 | 55 | 125 | - | 110 | - | 255 | 200 | 176 | 120 | 295 | 127 | 15 | 23,5 | 55 | 6,5 | 42 | 218 | 96,5 | M20 |
| 125/145 | 55 | 145 | - | 130 | - | 290 | 230 | 204 | 140 | 340 | 147 | 15 | 27,5 | 60 | 7 | 46 | 252 | 112,5 | M20 |

Order form

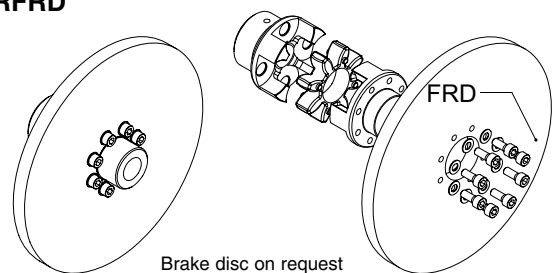
Hub **GRFRD 48/60**

GRFRD: brake side hub

Size

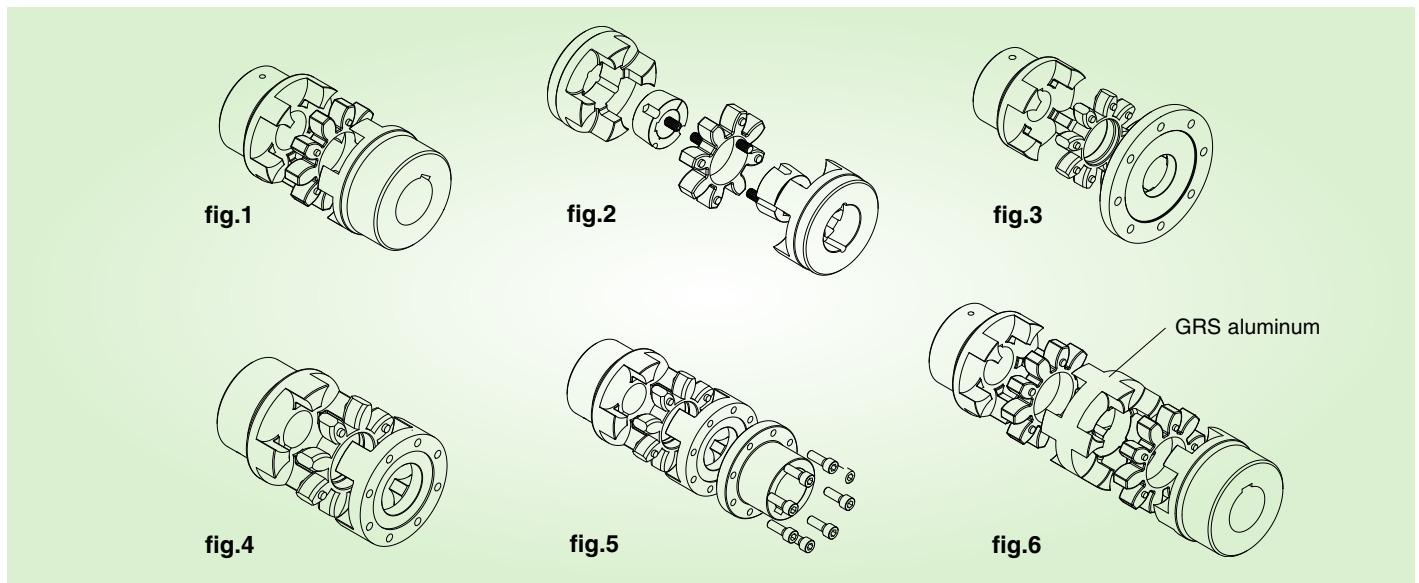
| | | |
|------------------|---------------------------|------------------|
| W _{FRD} | “GRFRD” disc weight | kg |
| J _{FRD} | “GRFRD” moment of inertia | kgm ² |
| Nr | Number of screws | |

GRFRD



Brake disc on request

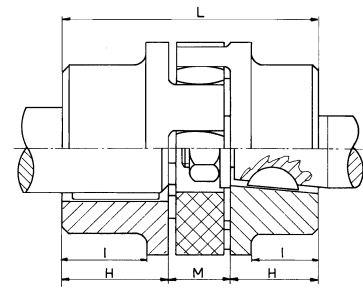
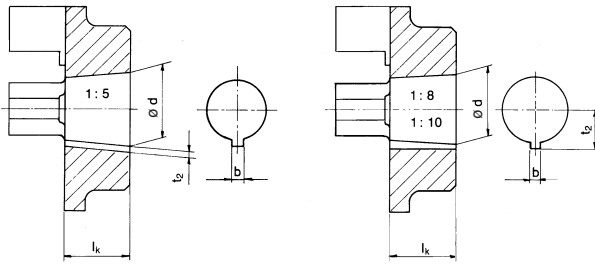
TRASCO® Coupling weights and moments of inertia



| Size | | GR (A type) fig. 1 | GR (B type) fig. 1 | GR (AB type) fig. 1 | GRALU (A type) fig. 1 | GRALU (B type) fig. 1 | GRALU (AB type) fig. 1 | GRB fig. 2 | GRF (CF) fig. 3 | GRF (CFN) fig. 4 | GRF (BFN) fig. 5 | Spacer element GRS fig. 6 |
|---------|-----------------------|--------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|---------------|-----------------------|------------------------|------------------------|------------------------------------|
| 19/24 | W [kg] | - | 0,37 | - | - | 0,14 | - | - | 0,23 | - | - | - |
| | J [kgm ²] | - | 0,0001 | - | - | 0,00004 | - | - | 0,00006 | - | - | - |
| 24/32 | W [kg] | 0,56 | 0,78 | 0,67 | 0,22 | 0,31 | 0,26 | - | 0,3 | 0,18 | 0,42 | 0,14 |
| | J [kgm ²] | 0,0002 | 0,0004 | 0,0003 | 0,00008 | 0,00015 | 0,00012 | - | 0,0003 | 0,00009 | 0,00018 | 0,00006 |
| 28/38 | W [kg] | 0,92 | 1,25 | 1,1 | 0,36 | 0,49 | 0,43 | 1 | 0,58 | 0,3 | 0,69 | 0,22 |
| | J [kgm ²] | 0,0005 | 0,0009 | 0,0007 | 0,0002 | 0,00034 | 0,00027 | 0,0007 | 0,0008 | 0,00021 | 0,00041 | 0,00013 |
| 38/45 | W [kg] | 1,97 | 2,5 | 2,25 | 0,77 | 0,98 | 0,9 | 1,7 | 0,8 | 0,313 | 0,933 | 0,35 |
| | J [kgm ²] | 0,0017 | 0,0027 | 0,002 | 0,0007 | 0,001 | 0,00084 | 0,0026 | 0,001 | 0,00047 | 0,00097 | 0,00035 |
| 42/55 | W [kg] | 3,1 | 3,85 | 3,46 | - | 1,5 | - | 2,8 | 1,41 | 0,76 | 1,81 | 0,51 |
| | J [kgm ²] | 0,0035 | 0,006 | 0,0047 | - | 0,002 | - | 0,0036 | 0,004 | 0,0012 | 0,0023 | 0,0007 |
| 48/60 | W [kg] | 4,2 | 5,3 | 4,75 | - | 2 | - | 4,7 | 1,62 | 0,89 | 2,27 | 0,67 |
| | J [kgm ²] | 0,006 | 0,01 | 0,008 | - | 0,004 | - | 0,0078 | 0,005 | 0,0017 | 0,0035 | 0,001 |
| 55/70 | W [kg] | 6,4 | 7,8 | 7,1 | - | - | - | 5 | 2,82 | 1,47 | 3,55 | 0,97 |
| | J [kgm ²] | 0,012 | 0,02 | 0,015 | - | - | - | 0,012 | 0,012 | 0,0035 | 0,007 | 0,002 |
| 65/75 | W [kg] | 9,7 | 11,8 | 10,8 | - | - | - | 6,9 | 3,46 | 1,89 | 4,89 | 1,43 |
| | J [kgm ²] | 0,024 | 0,035 | 0,03 | - | - | - | 0,014 | 0,017 | 0,0059 | 0,0123 | 0,004 |
| 75/90 | W [kg] | 15,2 | 20,8 | 18 | - | - | - | 14,8 | 5,03 | 3 | 7,86 | 2,2 |
| | J [kgm ²] | 0,051 | 0,082 | 0,07 | - | - | - | 0,065 | 0,032 | 0,0125 | 0,0275 | 0,009 |
| 90/100 | W [kg] | 26,2 | 30,2 | 28,2 | - | - | - | 35,4 | 7,9 | 4,87 | 13,54 | 3,9 |
| | J [kgm ²] | 0,13 | 0,17 | 0,15 | - | - | - | 0,162 | 0,073 | 0,033 | 0,108 | 0,025 |
| 100/110 | W [kg] | 32,6 | - | - | - | - | - | - | 13,5 | 7,55 | 20,15 | - |
| | J [kgm ²] | 0,22 | - | - | - | - | - | - | 0,139 | 0,063 | 0,14 | - |
| 110/125 | W [kg] | 45,5 | - | - | - | - | - | - | 18,8 | 10,15 | 27,05 | - |
| | J [kgm ²] | 0,38 | - | - | - | - | - | - | 0,255 | 0,11 | 0,242 | - |
| 125/145 | W [kg] | 68,8 | - | - | - | - | - | - | 27,4 | 14,9 | 40,9 | - |
| | J [kgm ²] | 0,76 | - | - | - | - | - | - | 0,463 | 0,21 | 0,48 | - |
| 140/160 | W [kg] | 93,0 | - | - | - | - | - | - | - | - | - | - |
| | J [kgm ²] | 1,30 | - | - | - | - | - | - | - | - | - | - |
| 160/185 | W [kg] | 137,0 | - | - | - | - | - | - | - | - | - | - |
| | J [kgm ²] | 2,46 | - | - | - | - | - | - | - | - | - | - |
| 180/200 | W [kg] | 197,0 | - | - | - | - | - | - | - | - | - | - |
| | J [kgm ²] | 4,40 | - | - | - | - | - | - | - | - | - | - |

Weight and moments of inertia are calculated on hubs with max diameter bore.

Tables for TRASCO® couplings with taper or splined bores



Taper 1:5 for: BOSCH - BUCHER- LEDUC - DÜSTERLOH

| Code | $\varnothing d + 0,05$ | b JS9 | $t2 + 0,1$ | l_k |
|------|------------------------|-------|------------|-------|
| a1 | 9,85 | 2 | 1 | 11,5 |
| a2 | 16,85 | 3 | 1,8 | 18,5 |
| a3 | 19,85 | 4 | 2,2 | 21,5 |
| a4 | 21,95 | 3 | 1,8 | 21,5 |
| a5 | 24,85 | 5 | 2,9 | 26,5 |
| a6 | 29,85 | 6 | 2,6 | 31,5 |
| a7 | 34,85 | 6 | 2,6 | 36,5 |
| a8 | 39,85 | 6 | 2,6 | 41,5 |

Taper 1:8 for: ATOS - CASAPPA - GARBE LAHMEYER - JOTTI & STROZZI MARZOCCHI - SALAMI - SAUER-FLUID

| Code | $\varnothing d + 0,05$ | b + 0,05 | $t2 + 0,1$ | l_k |
|------|------------------------|----------|------------|-------|
| b1 | 9,7 | 2,4 | 6 | 17 |
| b2 | 11,6 | 3 | 7,1 | 16,5 |
| b3 | 13 | 2,4 | 7,3 | 21 |
| b4 | 14 | 3 | 8,5 | 17,5 |
| b5 | 14,3 | 3,2 | 8,5 | 19,5 |
| b6 | 17,287 | 3,2 | 9,6 | 24 |
| b7 | 17,287 | 4 | 10,3 | 24 |
| b8 | 17,287 | 3 | 9,7 | 24 |
| b9 | 22,002 | 3,99 | 12,4 | 28 |
| b10 | 25,463 | 4,78 | 15,1 | 36 |
| b11 | 25,463 | 5 | 15,5 | 36 |
| b12 | 27 | 4,78 | 15,3 | 32,5 |
| b13 | 28,45 | 6 | 15,1 | 38,5 |
| b14 | 33,176 | 6,38 | 18,8 | 44 |
| b15 | 33,176 | 7 | 18,8 | 44 |
| b16 | 43,057 | 7,95 | 3,378 | 51 |
| b17 | 41,15 | 8 | 3,1 | 42,5 |

Taper 1:10 for: PARKER HANNIFIN NMF - TEVES

| Code | $\varnothing d + 0,05$ | b JS9 | $t2 + 0,1$ | l_k |
|------|------------------------|-------|------------|-------|
| c1 | 19,95 | 5 | 12,1 | 32 |
| c2 | 24,95 | 6 | 14,1 | 45 |
| c3 | 29,75 | 8 | 17 | 50 |

SAE splined profile

| Code | Size | Head | Pitch | N. of teeth | \ |
|-------|---------|-------|--------|-------------|-----|
| PH-S | 5/8" | 14,28 | 16/32 | 9 | 30° |
| PI-S | 3/4" | 17,46 | 16/32 | 11 | 30° |
| PB-S | 7/8" | 20,63 | 16/32 | 13 | 30° |
| PB-BS | 1" | 23,81 | 16/32 | 15 | 30° |
| PJ | 1 1/8" | 26,98 | 16/32 | 17 | 30° |
| PC-S | 1 1/4" | 29,63 | dic-24 | 14 | 30° |
| PA-S | 1 3/8" | 33,33 | 16/32 | 21 | 30° |
| PD-S | 1 1/2" | 36,51 | 16/32 | 23 | 30° |
| PE-S | 1 3/4" | 42,86 | 16/32 | 27 | 30° |
| PF | 2 9/16" | 63,5 | 16/32 | 40 | 30° |

DIN 5482

| Code | Size | Head | Pitch | N. of teeth | Tolerance |
|--------|-----------|-------|-------|-------------|-----------|
| P 8217 | A 17 x 14 | 14,4 | 1,6 | 9 | 0,6 |
| P 8228 | A 28 x 25 | 26,25 | 1,75 | 15 | 0,302 |
| P 8230 | A 30 x 27 | 28 | 1,75 | 16 | 0,327 |
| P 8235 | A 35 x 31 | 31,5 | 1,75 | 18 | 0,676 |
| P 8240 | A 40 x 36 | 38 | 1,9 | 20 | 0,049 |
| P 8245 | A 45 x 41 | 44 | 2 | 22 | 0,181 |
| P 8250 | A 50 x 45 | 48 | 2 | 24 | 0,181 |

DIN 5480

| Size | Head | Pitch | N. of teeth |
|----------------------|------|-------|-------------|
| 20 x 1 x 18 x 7 H | 18 | 1 | 18 |
| 20 x 1,25 x 14 x 7 H | 17,5 | 1,25 | 14 |
| 25 x 1,25 x 18 x 7 H | 22,5 | 1,25 | 18 |
| 30 x 2 x 13 x 7 H | 26 | 2 | 13 |
| 30 x 2 x 14 x 7 H | 26 | 2 | 14 |
| 35 x 2 x 16 x 7 H | 32 | 2 | 16 |
| 40 x 2 x 18 x 7 H | 36 | 2 | 18 |
| 45 x 2 x 21 x 7 H | 41 | 2 | 21 |
| 48 x 2 x 22 x 9 H | 44 | 2 | 22 |
| 50 x 2 x 24 x 7 H | 48 | 2 | 24 |