





Our Idea of Flexible Perfection.

Design, production, and service engineers' idea of coupling perfection. Eliminates misalignment connection problems.



Absorbs parallel and angular misalignment and compensates for bearing wear –

The unique K-Coupling® design provides maximum operating flexibility. It will run smoothly and quietly at up to 3/16" (4.75mm) parallel and 15° angular misalignment.

Reduces bearing loads -

There is no extra load on motor bearings, even in severe misalignment applications. Bearings last longer and require less maintenance.

Adjusts to axial end play –

It reduces thrust loads, allows for assembly in tight quarters, and provides for variable end-to-end distance.

Runs very quietly -

It dampens vibration and motor noise. Coupling rattle is also eliminated and overall machine performance is improved.

Provides a positive drive connection with zero backlash –

It transmits the exact rpm with no lag during speed or directional changes.



Uniquely Designed for Long Life

Construction

The K-Coupling® is made of double-loop ELASTACAST® polyurethane elastomeric material assembled to zinc plated steel hubs. The crimping process is done by specialized equipment which guarantees the perfect crimp required for long life and excellent performance. The hubs mount to shafts using Allen screws. Keyed hubs are available in the 5803 and 5804 series.

Hub Features

- Annealed steel for maximum strength
- Zinc plated to resist corrosion
- Inside hub placement decreases overall length on Series 5802, 5803 and 5804
- Rounded corners prevent cutting
- Precision swaged mechanical crimp
- Makes use of standard size set screws
- AGMA class 2 bore tolerance: -.000/+.002" (-0 +0.05mm)

Element Features

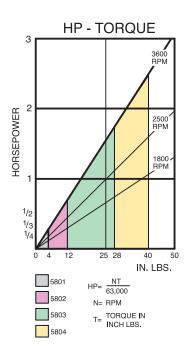
- Polyurethane material is cut and tear resistant
- Unique design configuration provides maximum flexibility
- Generous radius for added strength
- Full wrap-around design holds securely to hub



Easy to Select, Even Easier to Mount. Steps to follow in selecting your K-Coupling®

- 1. Determine the horsepower or wattage (torque) requirement of your application. Allow for starting torque or unusual start/stop operation. Make sure the torque requirement is within the K-Coupling® rating limits. See tables.
- 2. Determine the amount of space available for installing the coupling. Compare this with the hub-to-hub and outside loop dimensions shown.
- 3. Consider the shaft sizes involved and the amount of space between them, because the required bore size on one hub sometimes differs from the other.
- 4. Predetermine the maximum degree of angular and parallel misalignment for which the coupling will have to compensate. Be sure your requirements are within the recommended limits.
- 5. Decide whether a keyway will really be necessary. If so, they are available at extra cost on series 5803 and 5804.
- 6. Standard keyways:
 1/8" for 1/2" shafts and 3/16" for 9/16" and 5/8" shafts.
 3mm for 12mm shafts and 5mm for 14mm, 15mm and 16mm shafts.
- Recommended continuous operating temperature for the K-Coupling® is 0°F (-18°C) to 180°F (83°C) in most atmospheres, however consideration must be given to exposure to solvents, chemicals, acids and gases.

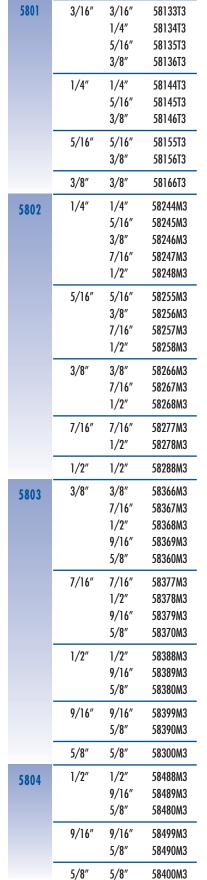




Ordering Information

When ordering, ALWAYS include bore sizes required.

Example: 5801 1/4" x 5/16"

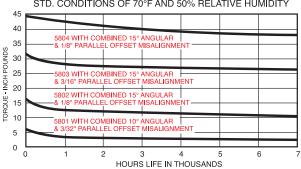


BORE SIZES

PART NO.

SERIES

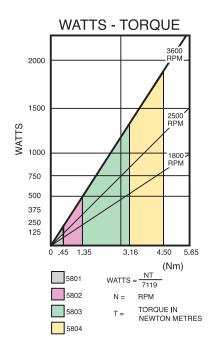
TORQUE CAPACITY VS HOURS LIFE 1725 RPM STD. CONDITIONS OF 70°F AND 50% RELATIVE HUMIDITY



NOTE: Service factors should be applied when calculating torque capacity requirements

∟ Δ* — ·	Part No.	A	В	С	D	E	Set Screw	Capacity
Set Screw B	Series 5801 Series 5802	.875 ± .063	1.125 ± .063	.688 ± .015	.063 ± .03	1.00 ± .063	6-32	3 inch pounds Max. misalignment
		Available in Bore Sizes of 3/16", 1/4", 5/16", 3/8"						10° Angular 3/32" Parallel
		1.688 ± .063	2.000 ± .063	1.000 ± .015	.375 ± .03	1.87 ± .063	10-24	12 inch pounds Max. misalignment
		Available in Bore Sizes of 1/4", 5/16", 3/8", 7/16", 1/2"						15° Angular 1/8" Parallel
	Series 5803	1.813 ± .063	2.250 ± .063	1.125 ± .015	.438 ± .03	2.08 ± .063	1/4 - 20	
		Available in Bore Sizes of 3/8", 7/16", 1/2", 9/16"						28 inch pounds Max. misalignment
		1.813 ± .063	2.250 ± .063		.438 ± .03	2.12 ± .063	1/4 - 20	15° Angular 3/16" Parallel
		All Bore Sizes of 5/8" and above will have a hub diameter (C) of 1-1/4"						
Set Screw (-100)	Series 5804	2.00 ± .09	2.438 ± .063	1.125 ± .015	.375 ± .03	2.12 ± .063	1/4 - 20	40 inch nounde
D B		Available in Bore Sizes of 1/2", 9/16"						40 inch pounds Max. misalignment
		2.00 ± .09	2.438 ± .063	1.250 ± .015	.375 ± .03	2.15 ± .063	1/4 - 20	15° Angular 1/8" Parallel
		All Bore Sizes of 5/8" and above will have a hub diameter (C) of 1-1/4"						

All dimensions are in inches



5.08 4.52 3.95

3.39 2.82 2.26

.56 0

TORQUE - NEWTON METRES

Ordering Information Metric

When ordering, ALWAYS include bore sizes required.

Example: 5801 4mm x 5mm

SERIES	BORE	SIZES	PART NO.
5801	3mm	3mm	50133A1
	A	4	50144A1
	4mm	4mm 5mm	50144A1 50145A1
		6mm	50145A1
	5mm	5mm	50155A1
	6mm	6mm	50166A1
	OIIIIII	8mm	50168A1
	8mm	8mm	50188A1
5802		-	50244A1
J002	4mm	4mm	
	6mm	6mm 8mm	50266A1 50268A1
		•	
	8mm	8mm 10mm	50288A1 50208A2
	10mm	10mm	50200A3
		12mm	50202A3
	11mm	11mm	50211A3
	12mm	12mm	50222A3
5803	6mm	6mm	50366A1
		8mm	50368A1
	8mm	8mm	50388A3
		10mm	50308A7
	10mm	10mm	50300A8
		12mm	50302A8
	12mm	12mm	50322A8
	14mm	14mm	50344A8
		15mm	50345A8
	15mm	15mm	50355A8
	16mm	16mm	50366A8
5804	6mm	6mm	50466A5
	8mm	8mm	50488A5
		10mm	50408A7
	10mm	10mm	50400A8
		12mm	50402A7
	12mm	12mm	50422A8
	14mm	14mm	50444A8
	15mm	15mm	50455A8
	16mm	16mm	50466A8

STD. CONDITIONS OF 20°C AND 50% RELATIVE HUMIDITY								
		MBINED 15° ALLEL OFFS	ANGULAR ET MISALIG	NMENT-				
		1011150 150						
		MBINED 15° ALLEL OFFS	ANGULAR - ET MISALIG	NMENT				
58	02 WITH CO	MBINED 15°	ANGULAR					

TORQUE CAPACITY VS HOURS LIFE 1725 RPM

1.69 3.18mm PARALLEL OFFSET MISALIGNMENT-5801 WITH COMBINED HOURS LIFE IN THOUSANDS

NOTE: Service factors should be applied when calculating torque capacity requirements

	Part				-	_	Set	Canacity
Set Screw B	No. Series 5801	A 22.25 ± 1.6	B 28.6 ± 1.6	C 17.5 ± .4	D 1.6 ± .75	E 25.4 ± 1.5	Screw M3.5	.34Nm Max. misalignment
		Avail	Available in Bore Sizes of 3mm, 4mm, 5mm, 6mm, 8mm					
Set Screw B	Series 5802	42.87 ± 1.6	50.8 ± 1.6	25.4 ± .4	9.5 ± .75	47.5 ± 1.5	M.5	1.36Nm Max. misalignment
		Available in Bore Sizes of 4mm, 6mm, 8mm, 10mm, 11mm, 12mm						15° Angular 3mm Parallel
	Series 5803	46 ± 1.6	57.15 ± 1.6	28.6 ± .4	11 ± .75	52.83 ± 1.5	M.6	
		Available in Bore Sizes of 6mm and 8mm						3.16Nm Max. misalignment
		46 ± 1.6	57.15 ± 1.6	31.75 ± .4	11 ± .75	53.85 ± 1.5	M.6	15° Angular 4.75mm Parallel
		All Bore Sizes of 10mm and above will have a hub diameter (C) of 31.75						
	Series 5804	50.8 ± 2.3	61.9 ± 1.6	31.75 ± .4	9.5 ± .75	54.61 ± 1.5	M.6	4.52Nm Max. misalignment
		Available in Bore Sizes of 6mm, 8mm, 10mm, 12mm, 14mm, 15mm, 16mm					15° Angular 3mm Parallel	

All dimensions are in millimeters

