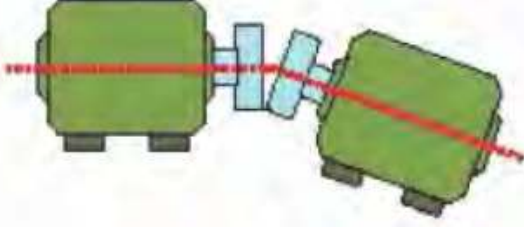
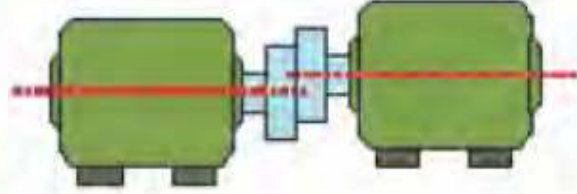


ÖZGÜR
Motor & Generatör

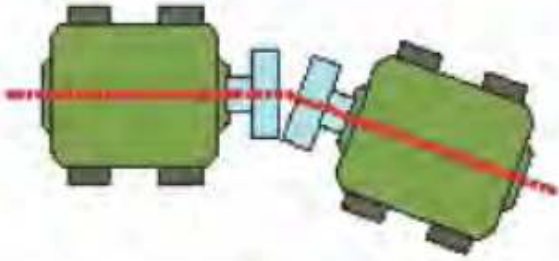
KISA (SHORT) KAPLİN BAĞLANTISI



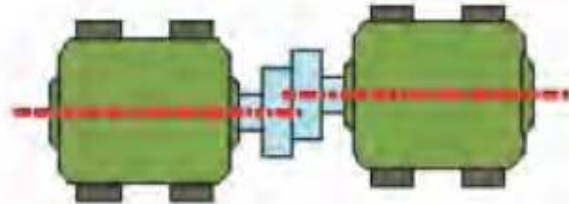
Dikey eksen açısal kaçıklık



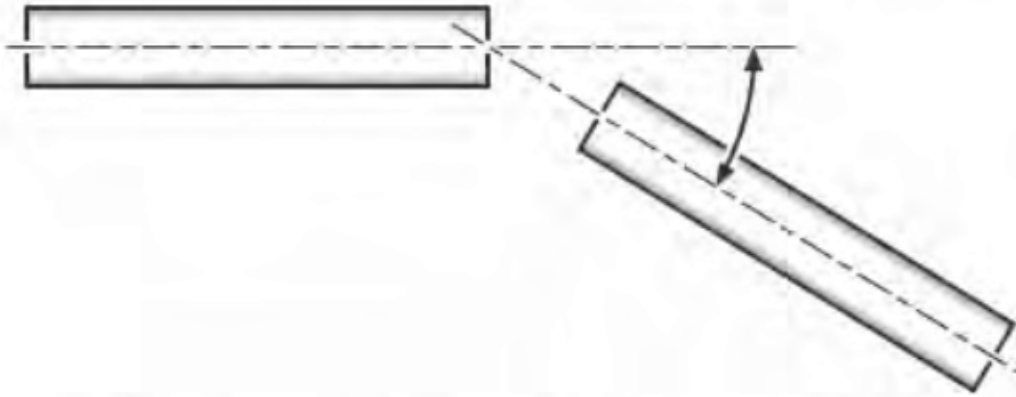
Dikey eksen paralel kaçıklık



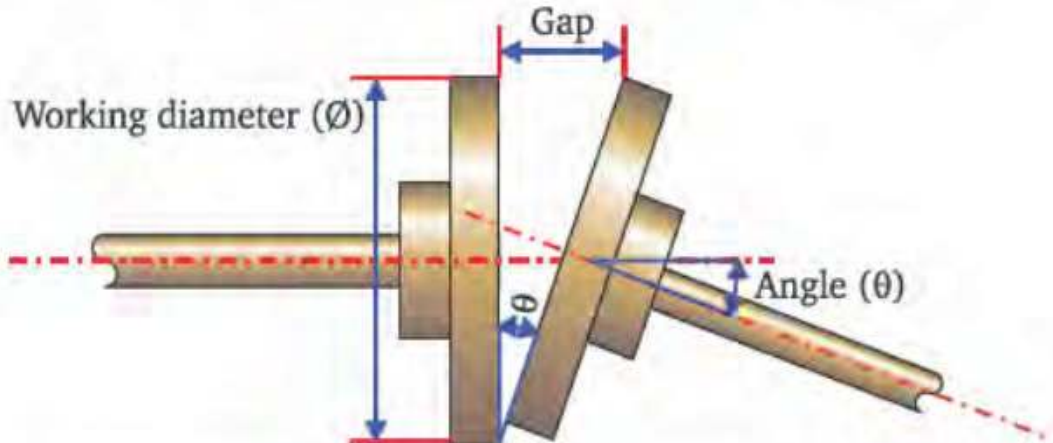
Yatay eksen açısal kaçıklık



Yatay eksen paralel kaçıklık



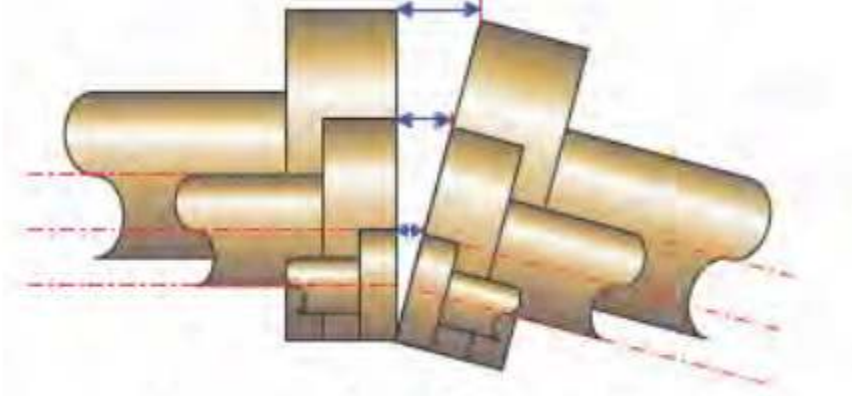
Açısal kaçıklık ta kaçık olan açı derecesi iki şaftın merkezlerinin kesişme noktasında oluşan açıdır.



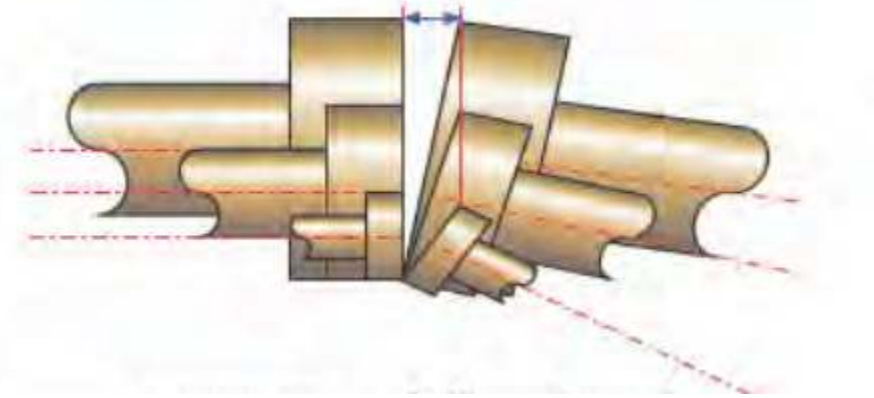
ÖZGÜR

Motor & Generatör

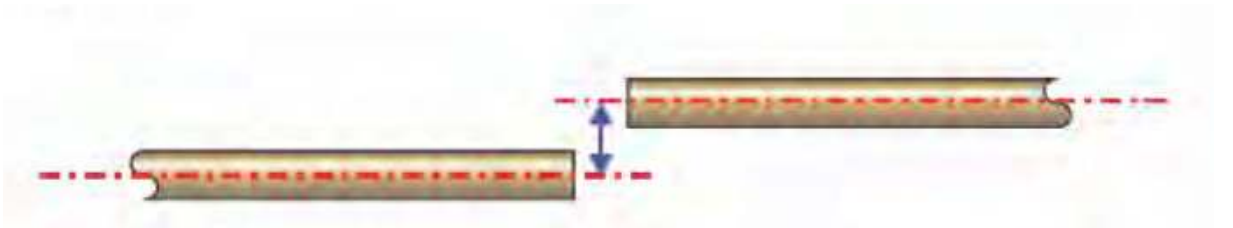
Açısal kaçıklı açısı aynı zamanda karşılıklı iki kaplin yüzeylerinin birleşme açısına eşittir.



Kaplin çapları arasındaki açısal hava boşluğu kaplin çapı büyüdükçe artar.



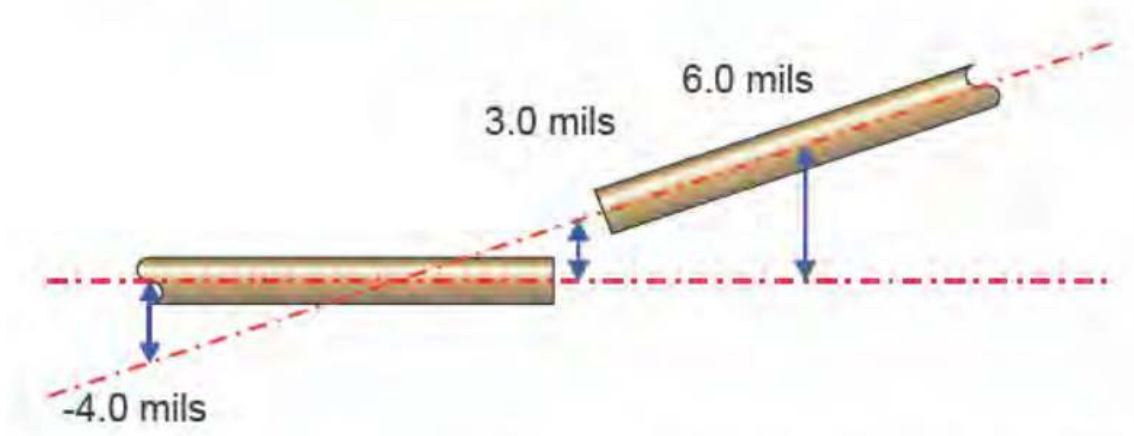
Farklı çaplarda kaplinlerin aynı hava aralığına eşit olması ancak açısal kaçıklığın farklı değerlerde olmasıyla mümkündür.



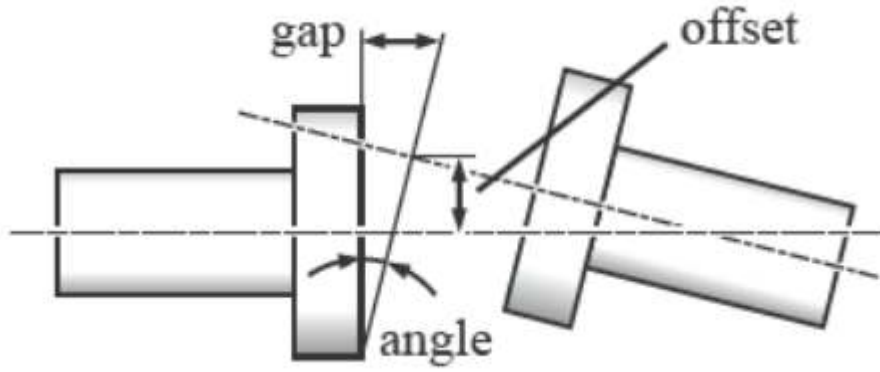
Paralel kaçıklık aynı eksenlerdeki saft merkezleri arasındaki mesafedir.

ÖZGÜR

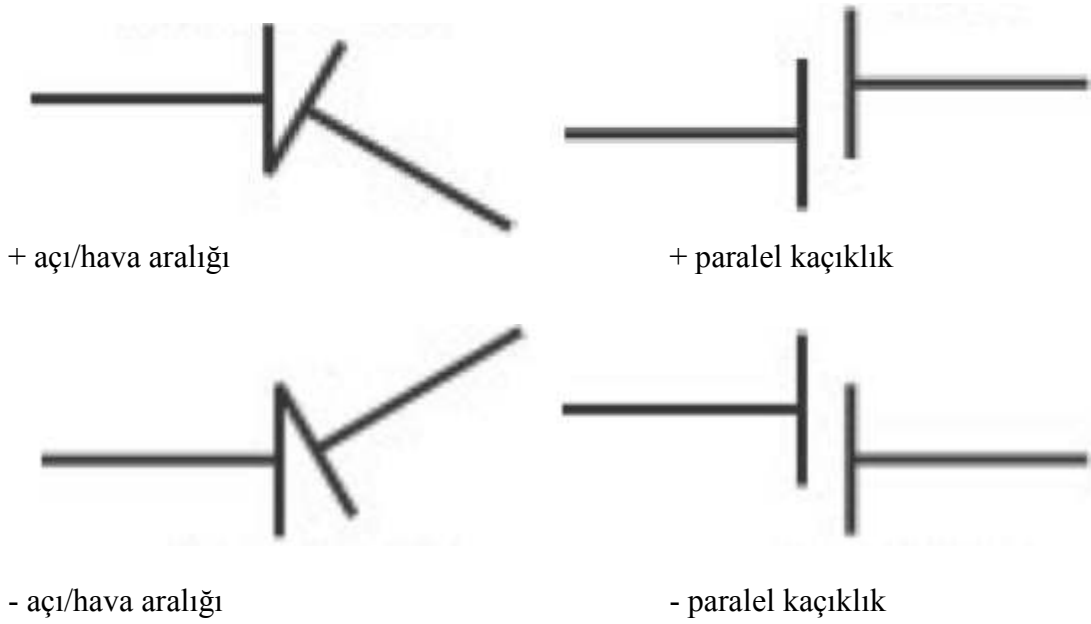
Motor & Generatör



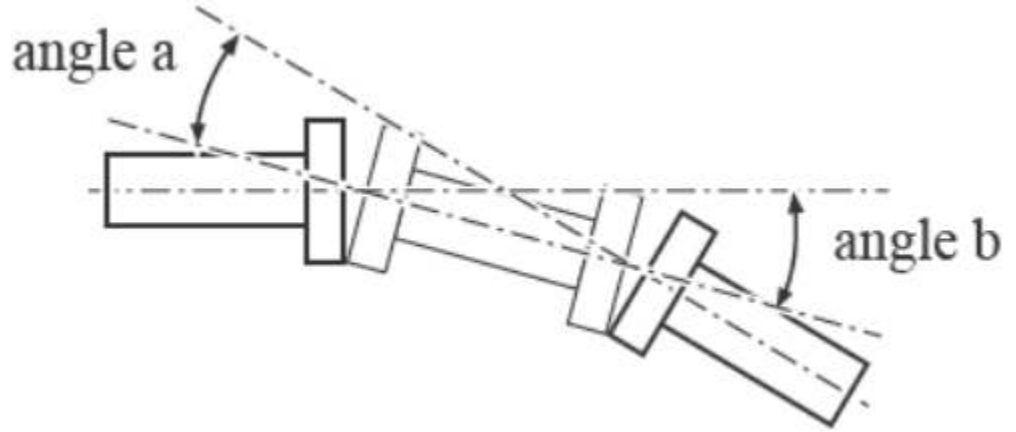
Genellikle açısız ve paralel kaçıklıklar aynı anda bileşke olarak görülürler. Şaft birleşme yerinde 3 mil olarak görülen değer paralel kaçıklık değeridir.



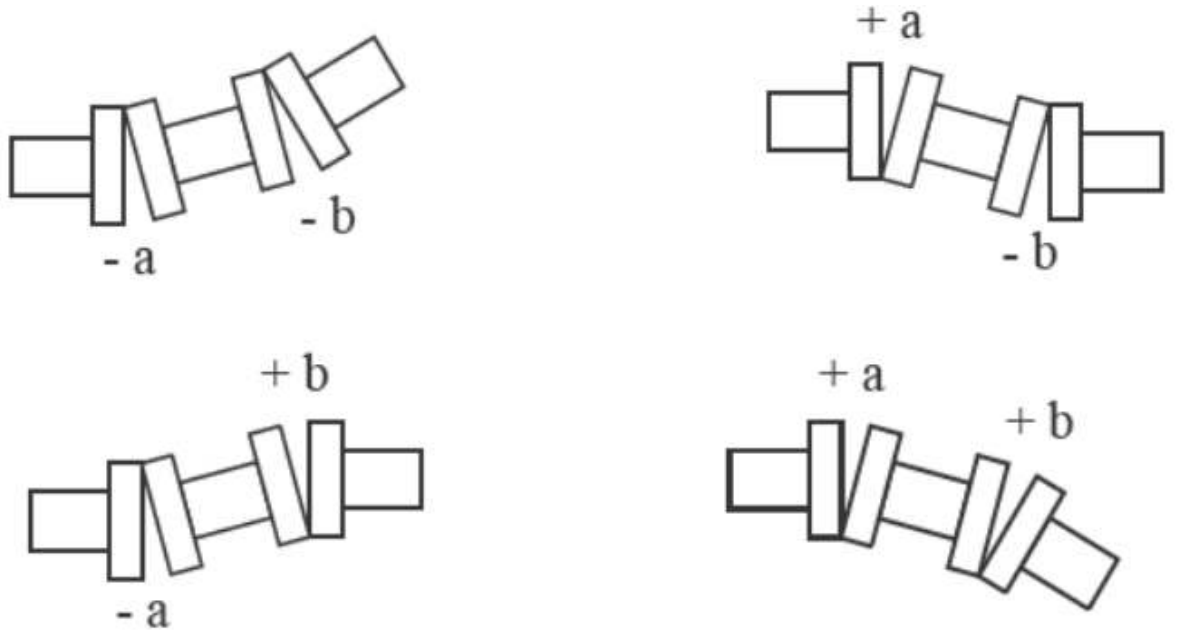
Açısal kaçıklık değeri ve paralel kaçıklık değerleri yukarıdaki gibi gösterilir.



UZUN (LONG-SPACER) KAPLIN BAĞLANTISI

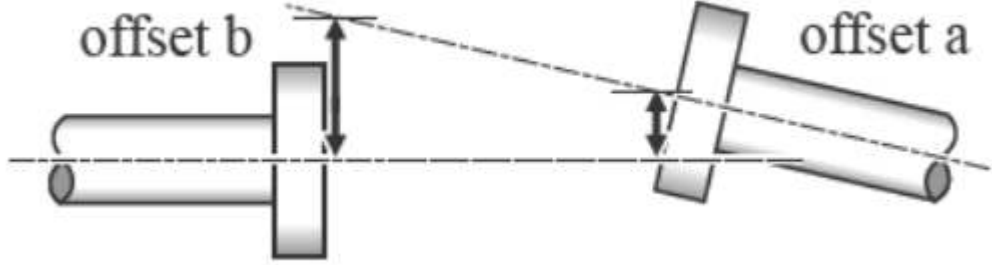


Long kaplin sisteminde açısız kaçıklık oluşumu . Şaft eksenini ile iki şaftın merkezini birleştiren doğrunun her iki kaplin için oluşturduğu iki ayrı açı vardır.

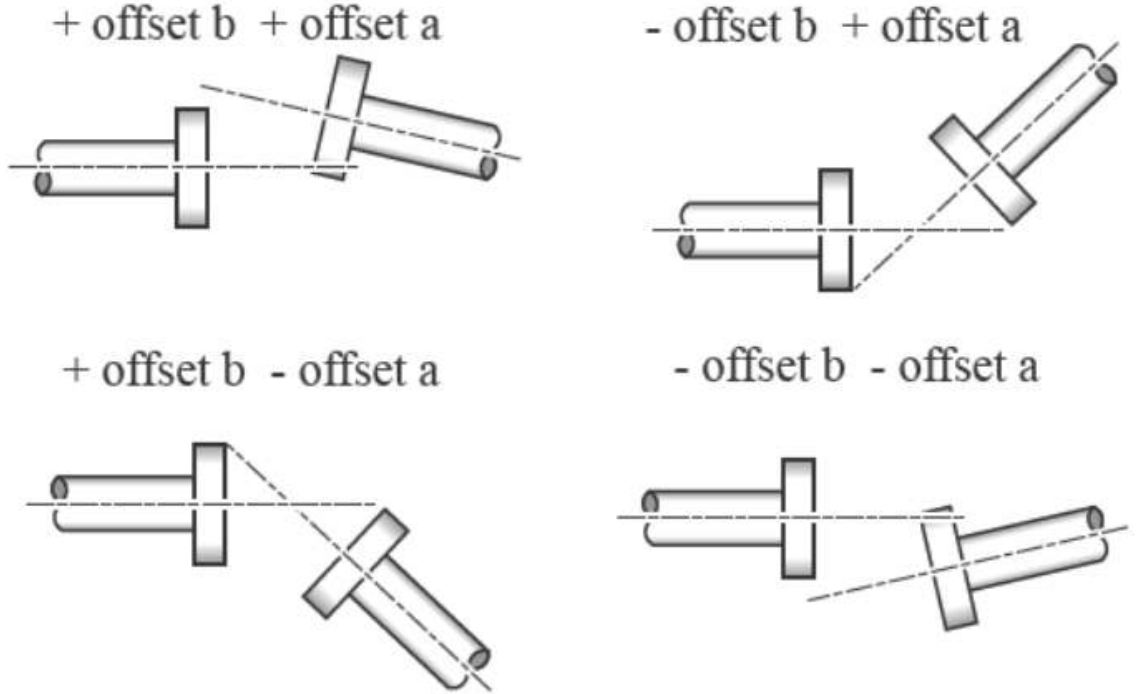


Dikey ve yatay yönde bu sistem 4 ayrı şekilde oluşabilir.

ÖZGÜR
Motor & Generatör



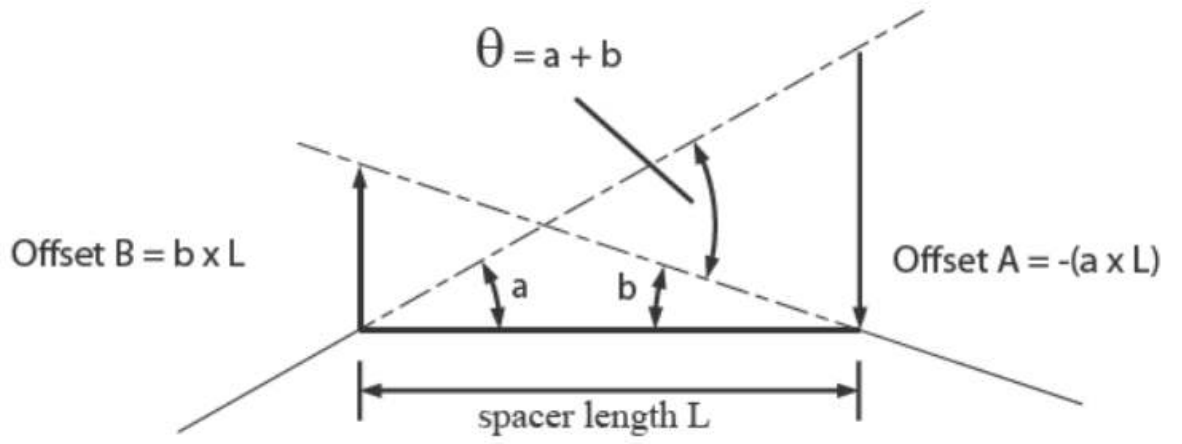
Long kaplin sisteminde paralelel kaçıklık oluşumu .



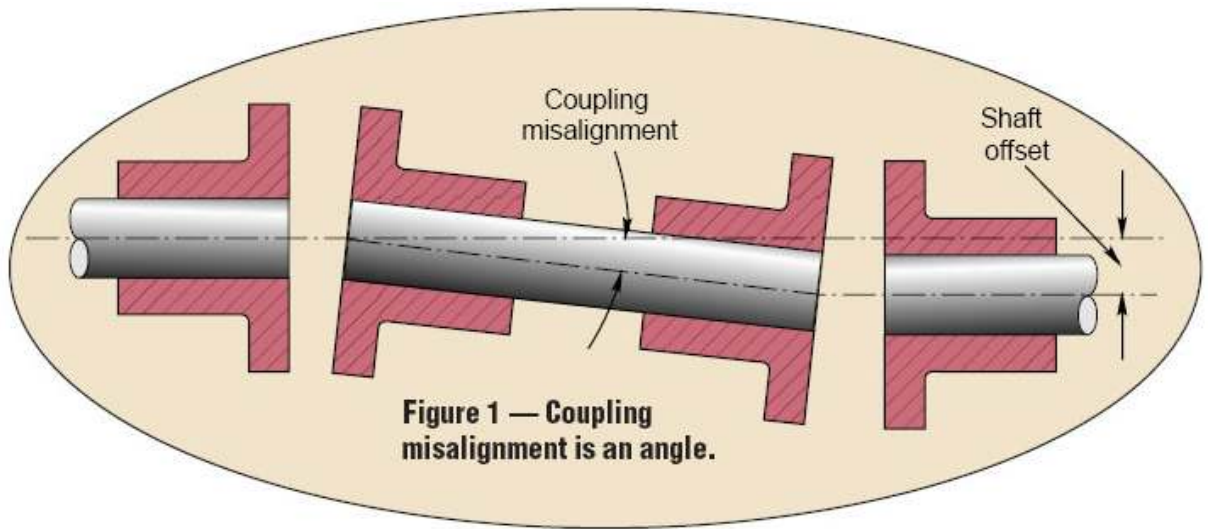
Dikey ve yatay yönde bu sistem 4 ayrı şekilde oluşabilir.



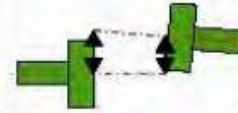
ÖZGÜR

Motor & Generatör



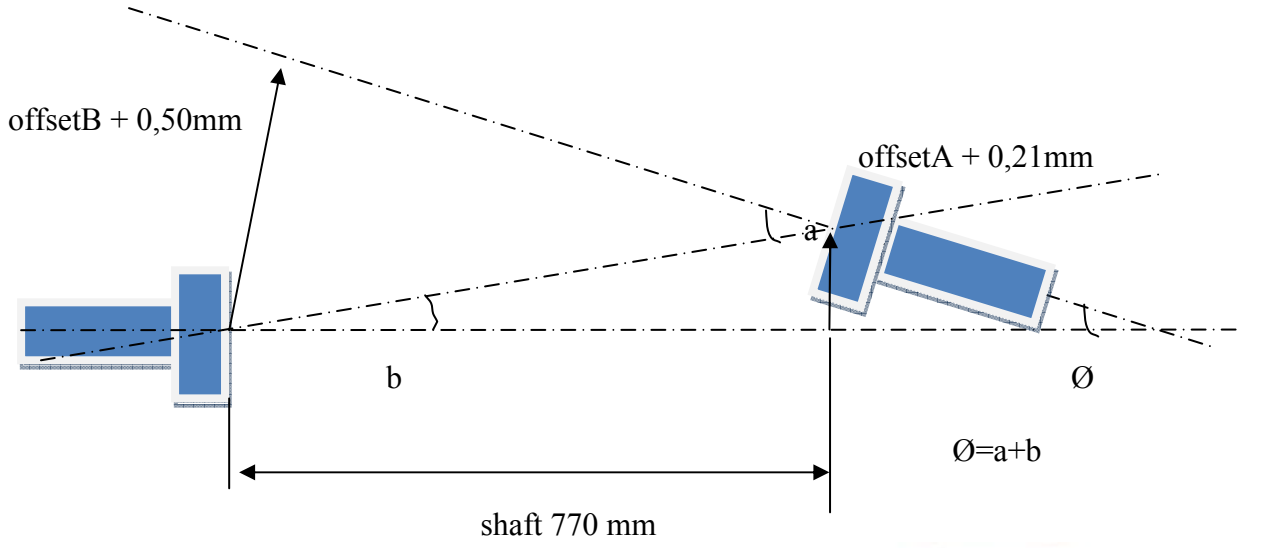
Ara shaft uzunluğu ve açısız kaçıklıklar ile oluşan paralel kaçıklık değerleri hesaplanabilir.



	RPM	metric (mm)		Inch (mils)	
		Acceptable	Excellent	Acceptable	Excellent
Short "flexible" couplings Offset: 	600			9.0	5.0
	750	0.19	0.09		
	900			6.0	3.0
	1200			4.0	2.5
	1500	0.39	0.06		
	1800			3.0	2.0
	3000	0.36	0.03		
	3600			1.5	1.0
	6000	0.33	0.02		
	7200			1.0	0.5
Angularity Metric values—Gap difference per 100 mm coupling diameter Inch values—Gap difference per 10 inch coupling diameter 	600			15.0	10.0
	750	0.13	0.09		
	900			10.0	7.0
	1200			8.0	5.0
	1500	0.37	0.05		
	1800			5.0	3.0
	3000	0.34	0.03		
	3600			3.0	2.0
	6000	0.33	0.02		
	7200			2.0	1.0
Spacer shafts and membrane (disc) couplings Metrics values—Offset per 100 mm spacer shaft Inch values—Offset per inch spacer length 	600			3.0	1.8
	750	0.25	0.15		
	900			2.0	1.2
	1200			1.5	0.9
	1500	0.12	0.07		
	1800			1.0	0.6
	3000	0.07	0.04		
	3600			0.5	0.3
	6000	0.03	0.02		
7200			0.3	0.2	
Soft-foot	Any	0.06		2	

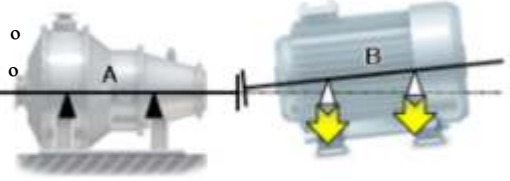
ÖZGÜR
Motor & Generatör

Long Kaplin-1
Dikey Ölçüm

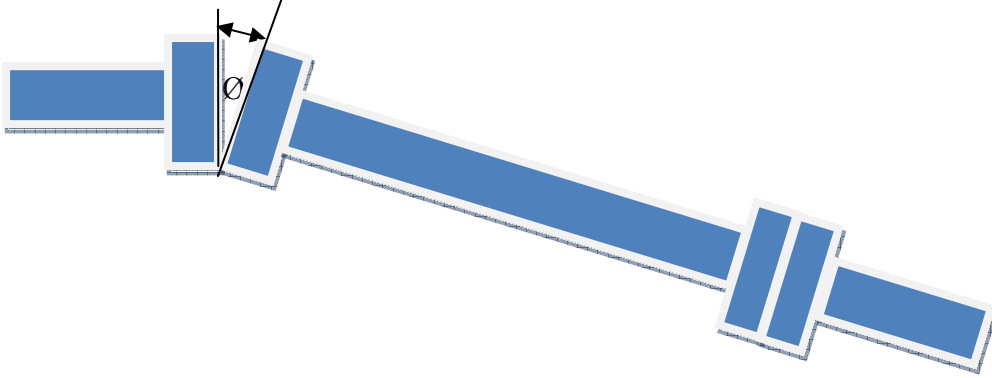


b açısı = Arctanjant (0,21/770) = 0,01562612 °

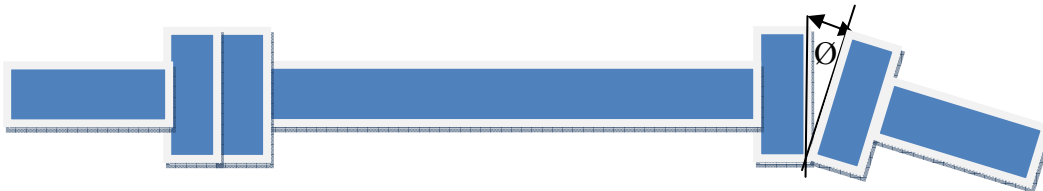
a açısı = Arctanjant (0,50/770) = 0,03720504 °



hava aralığı = tan (a+b) x kaplin çapı = tan(0,05283116) x 320 = 0,295 mm

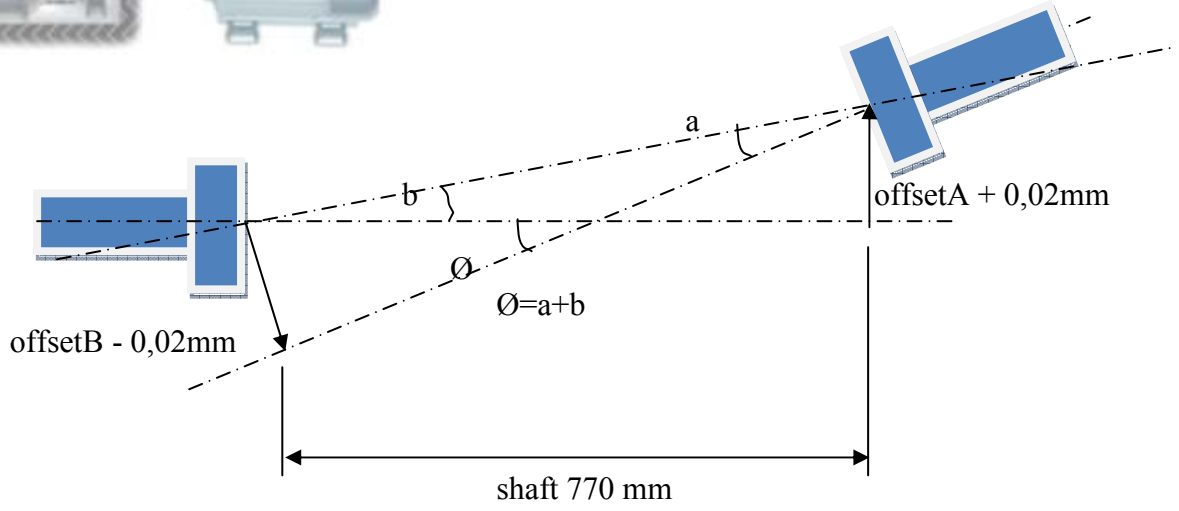
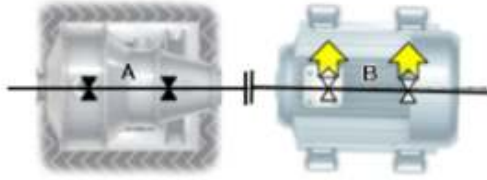


hava aralığı = tan (a+b) x kaplin çapı = tan(0,05283116) x 350 = 0,322mm

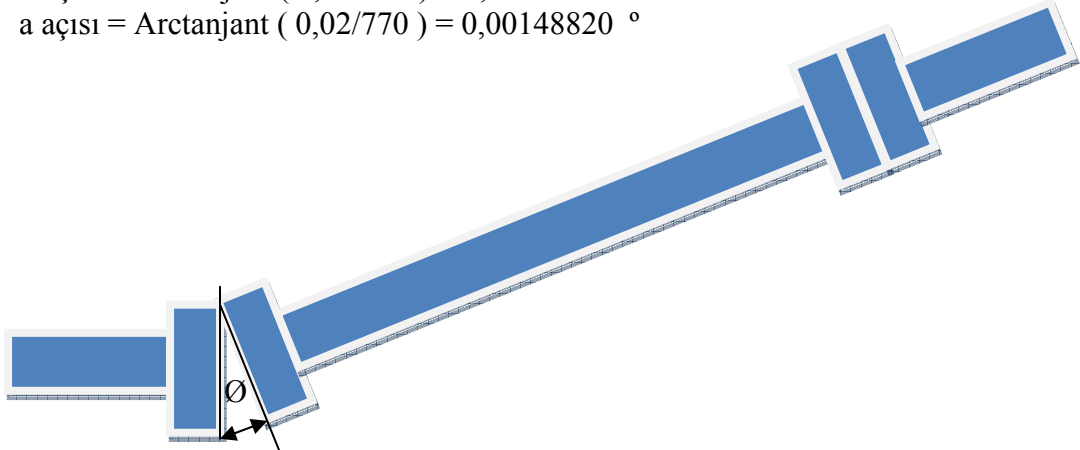


ÖZGÜR
Motor & Generatör

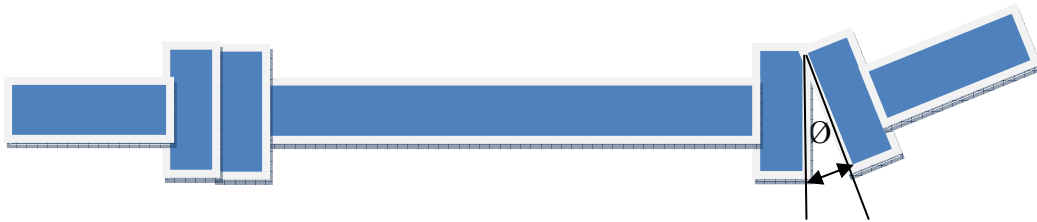
Long Kaplin -1
Yatay Ölçüm



b açısı = Arctanjant (0,02/770) = 0,00148820 °
a açısı = Arctanjant (0,02/770) = 0,00148820 °



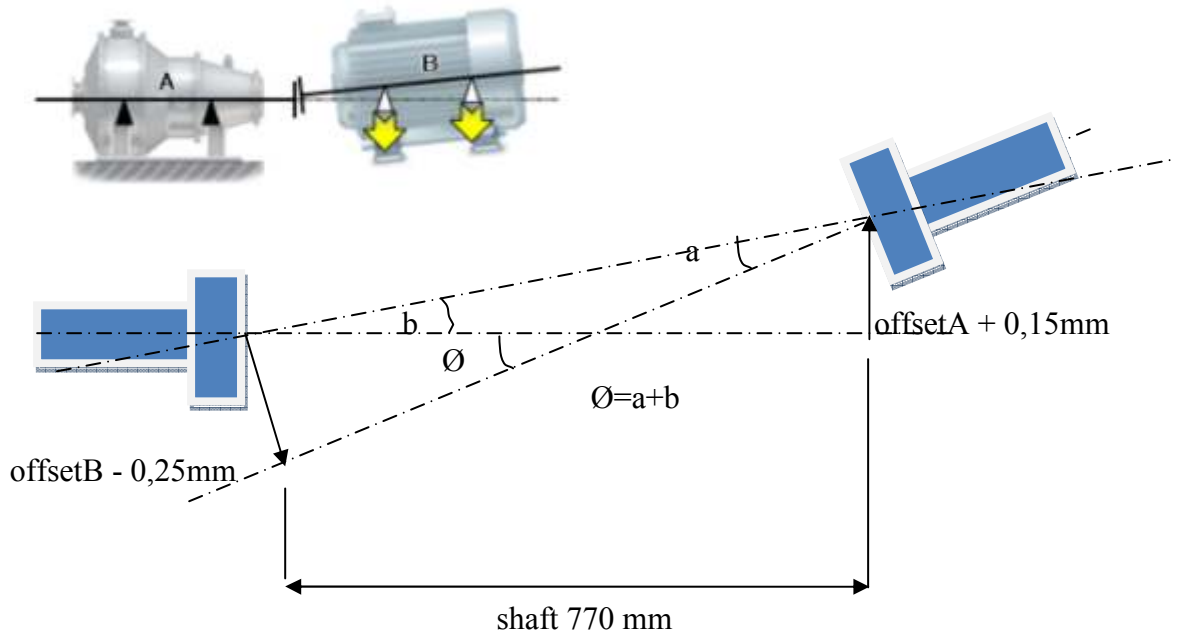
hava aralığı= tan (a+b) x kaplin çapı = tan(0,002976404) x 320 = 0,016 mm



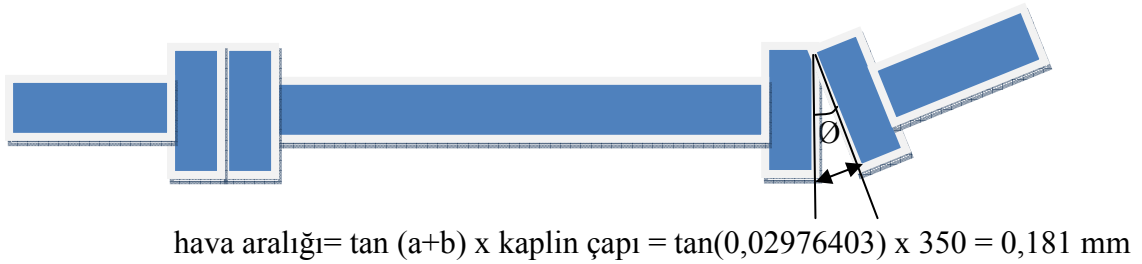
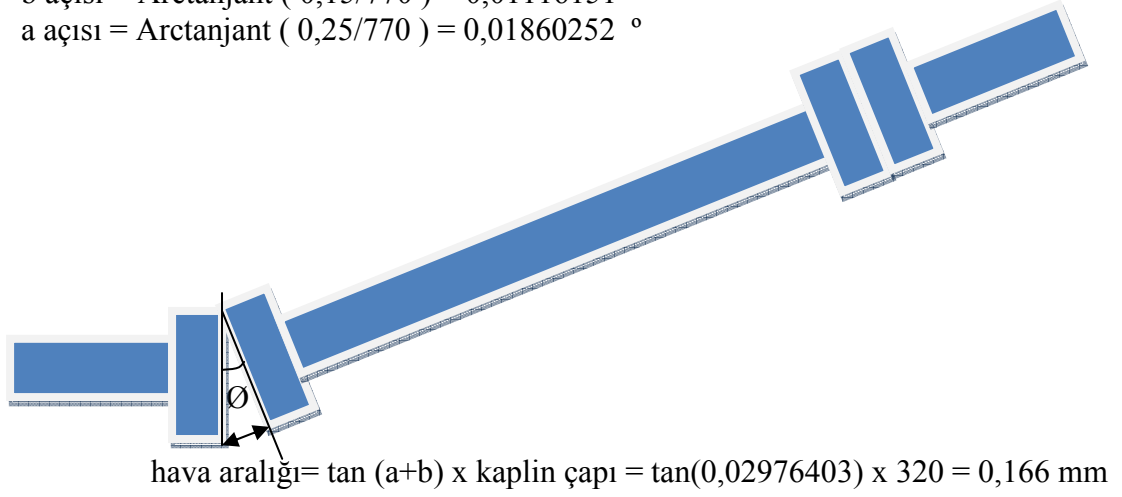
hava aralığı= tan (a+b) x kaplin çapı = tan(0,002976404) x 350 = 0,0181 mm

ÖZGÜR
Motor & Generatör

Long Kaplin -2
Dikey Ölçüm

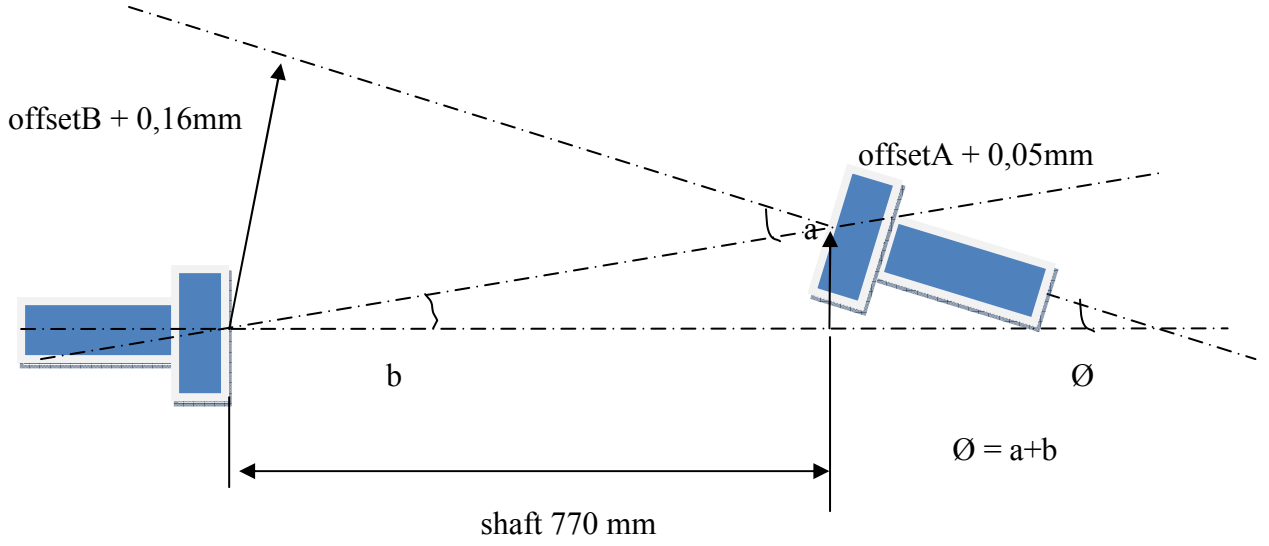


$$b \text{ açısı} = \text{Arctanjant} (0,15/770) = 0,01116151 \text{ } ^\circ$$
$$a \text{ açısı} = \text{Arctanjant} (0,25/770) = 0,01860252 \text{ } ^\circ$$



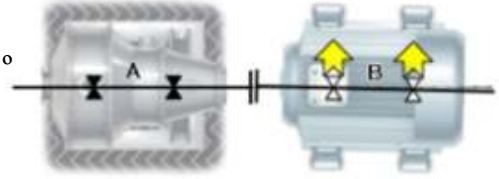
ÖZGÜR
Motor & Generatör

Long Kaplin -2
Yatay Ölçüm

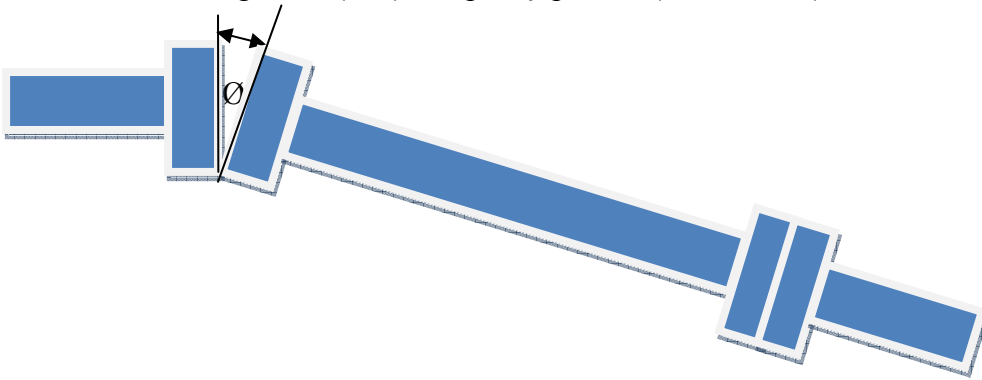


b açısı = Arctanjant (0,05/770) = 0,0037205 °

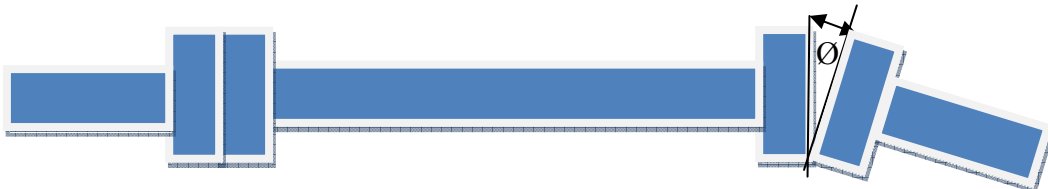
a açısı = Arctanjant (0,16/770) = 0,01190561 °



hava aralığı= tan (a+b) x kaplin çapı = tan(0,01562611) x 320 = 0,0872 mm

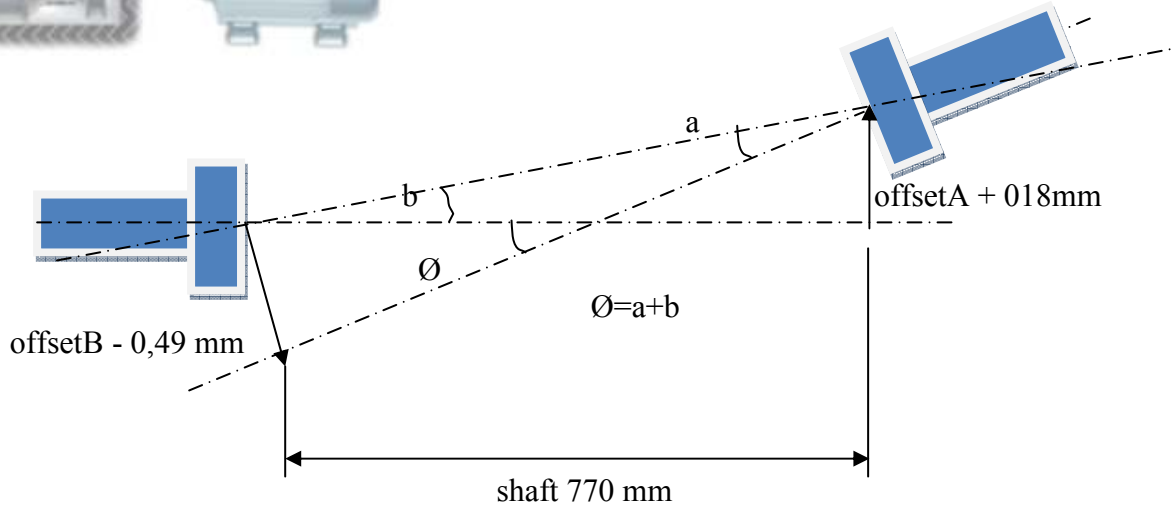
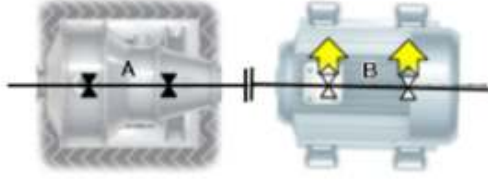


hava aralığı= tan (a+b) x kaplin çapı = tan(0,01562611) x 350 = 0,0954mm



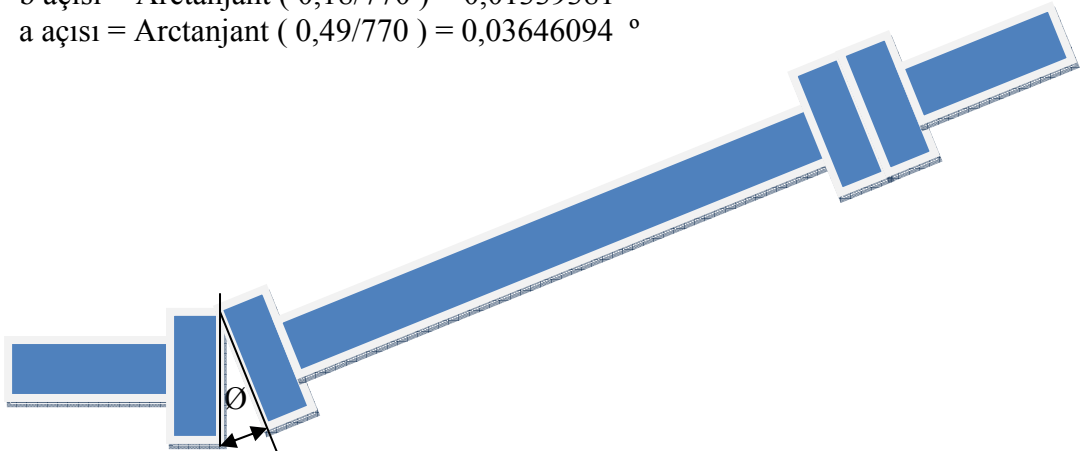
ÖZGÜR
Motor & Generatör

Long Kaplin -3
Dikey Ölçüm

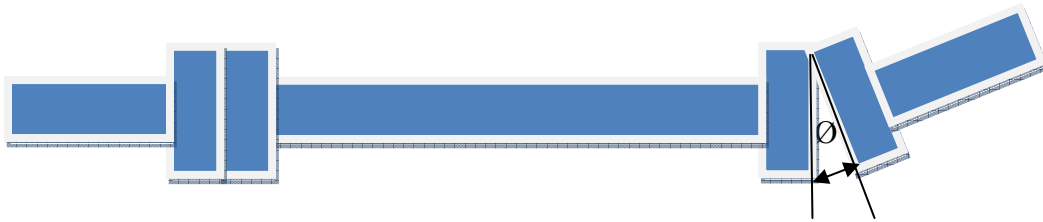


$$b \text{ açısı} = \text{Arctanjant} (0,18/770) = 0,01339381 \text{ } ^\circ$$

$$a \text{ açısı} = \text{Arctanjant} (0,49/770) = 0,03646094 \text{ } ^\circ$$



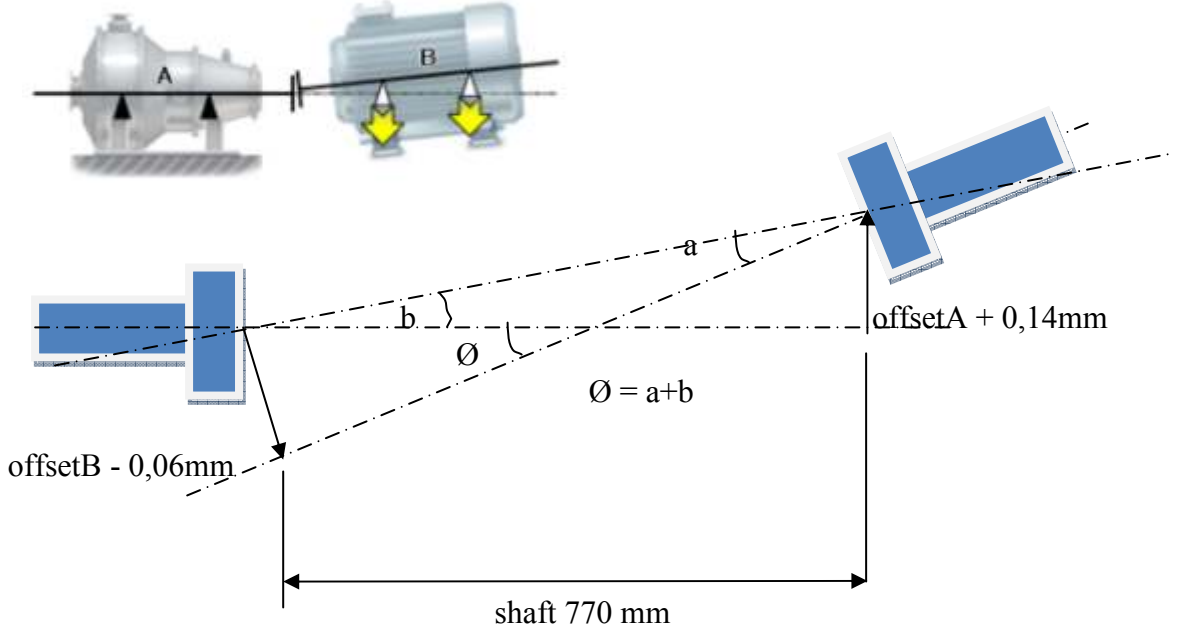
$$\text{hava aralığı} = \tan (a+b) \times \text{kaplin çapı} = \tan(0,049854755) \times 320 = 0,278 \text{ mm}$$



$$\text{hava aralığı} = \tan (a+b) \times \text{kaplin çapı} = \tan(0,002976404) \times 350 = 0,304 \text{ mm}$$

ÖZGÜR
Motor & Generatör

Long Kaplin -3
Yatay Ölçüm



$$b \text{ açısı} = \text{Arctanjant} (0,14/770) = 0,01041741 \text{ } ^\circ$$
$$a \text{ açısı} = \text{Arctanjant} (0,06/770) = 0,00446460 \text{ } ^\circ$$

