Helical couplings
Aluminium

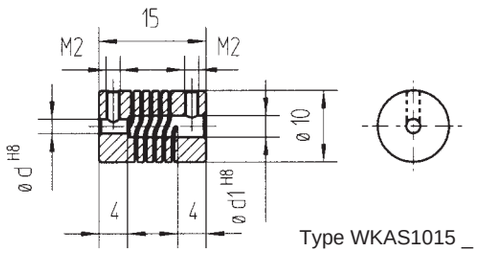
General

Helical couplings are universally applicable for backlash-free transmission of rotary motion; vibration-damping

- optimum compensation of alignment errors
- high torsional stiffness, low restoring forces
- no moving parts, made from one piece

including 2 set screws DIN 916, black-oxide finished

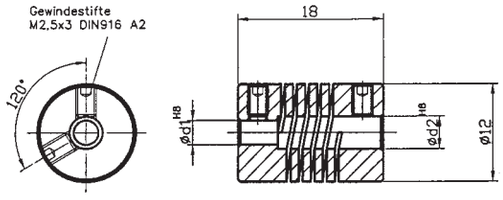
Order no.	Bore Ø d_1 / d_2
WKAS10150202	2 / 2
WKAS10150203	2 / 3
WKAS10150204	2 / 4
WKAS10150205	2 / 5
WKAS10150303	3 / 3
WKAS10150305	3 / 5



Type WKAS1015 _ _ _ _

including 4 set screws DIN 916, black-oxide finished

Order no.	Bore Ø d_1 / d_2
WKAS12180303	3 / 3
WKAS12180304	3 / 4
WKAS12180404	4 / 4



Type WKAS1218 _ _ _ _

Technical data

Type		WKAS1015 _ _ _ _	WKAS1218 _ _ _ _
Max. speed	min^{-1}	8,000	8,000
Max. torque	Ncm	15	25
Max. shaft misalignment			
radial	mm	±0.15	±0.15
axial	mm	±0.2	±0.25
angular	deg.	±2	±2.5
Torsional stiffness	Nm/rad	2.2	2.8
Radial stiffness	N/mm	22	28
Moment of inertia	gcm^2	0.34	0.83
Max. screw torque	Ncm	15	35
Weight approx.	g	2.4	4
Material:	Aluminium, chromated		

Edition 2011 | Subject to misprints, dimensional and design changes.

Helical couplings

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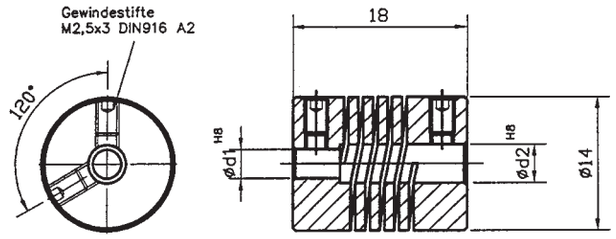
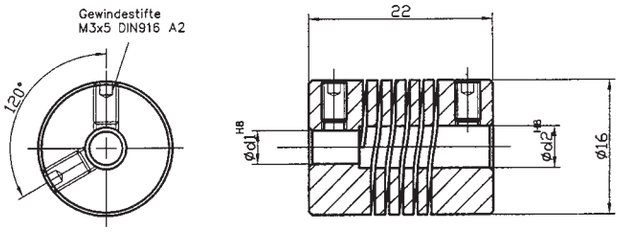
including 4 set screws DIN 916, black-oxide finished



Type WKAS1418 _ _ _ _

Order no.	Bore Ø d_1 / d_2
WKAS14180303	3 / 3
WKAS14180304	3 / 4
WKAS14180404	4 / 4

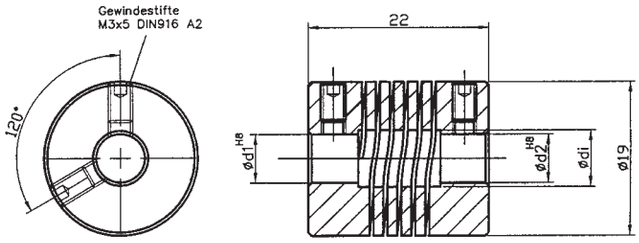
including 4 set screws DIN 916, black-oxide finished



Type WKAS1622 _ _ _ _

Order no.	Bore Ø d_1 / d_2
WKAS16220303	3 / 3
WKAS16220404	4 / 4
WKAS16220405	4 / 5
WKAS16220505	5 / 5

including 4 set screws DIN 916, black-oxide finished



Type WKAS1922 _ _ _ _

Order no.	Bore Ø d_1 / d_2
WKAS19220406	4 / 6
WKAS19220505	5 / 5
WKAS19220606	6 / 6

di· relieved shaft section

Technical data

Type		WKAS1418 _ _ _ _	WKAS1622 _ _ _ _	WKAS1922 _ _ _ _
Max. speed	min^{-1}	8,000	8,000	8,000
Max. torque	Ncm	35	40	60
Max. shaft misalignment				
radial	mm	±0.2	±0.2	±0.25
axial	mm	±0.3	±0.3	±0.4
angular	deg.	±2.5	±3	±3.5
Torsional stiffness	Nm/rad	4.5	7.5	9
Radial stiffness	N/mm	32	34	40
Moment of inertia	gcm^2	1.6	3.2	6.7
Max. screw torque	Ncm	35	50	50
Weight approx.	g	6	9.5	13
Material:	Aluminium, chromated			

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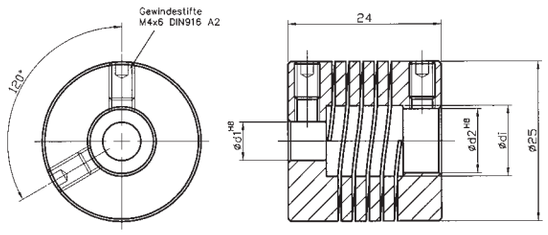
including 4 set screws DIN 916, black-oxide finished

Order no.	Bore Ø d_1 / d_2
WKAS25240606	6 / 6
WKAS25240608	6 / 8
WKAS25240610	6 / 10
WKAS25240808	8 / 8
WKAS25241010	10 / 10
WKAS25241212	12 / 12

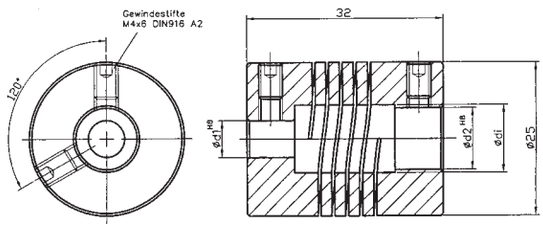


di· relieved helical section

Type WKAS2524 _ _ _ _

including 4 set screws DIN 916, black-oxide finished

Order no.	Bore Ø d_1 / d_2
WKAS25320606	6 / 6
WKAS25320608	6 / 8
WKAS25320610	6 / 10
WKAS25320808	8 / 8
WKAS25320810	8 / 10
WKAS25321010	10 / 10
WKAS25321012	10 / 12



di· relieved helical section

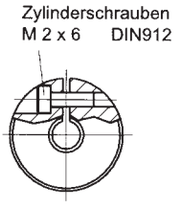
Type WKAS2532 _ _ _ _

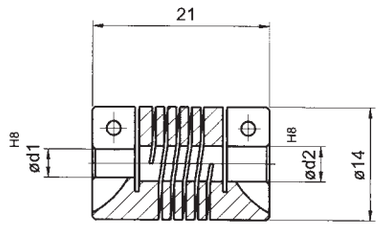
Technical data

Type		WKAS2524 _ _ _ _	WKAS2532 _ _ _ _
Max. speed	min^{-1}	8,000	8,000
Max. torque	Ncm	100	100
Max. shaft misalignment			
radial	mm	±0.3	±0.3
axial	mm	±0.5	±0.5
angular	deg.	±4	±4
Torsional stiffness	Nm/rad	20	18
Radial stiffness	N/mm	60	50
Moment of inertia	gcm^2	22.2	30
Max. screw torque	Ncm	120	120
Weight approx.	g	26	35
Material:	Aluminium, chromated		

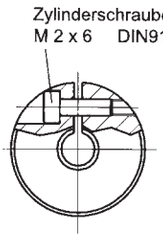
Helical couplings with clamping flange

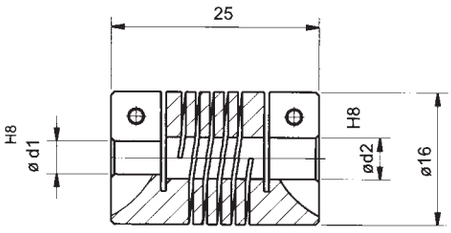
Aluminium





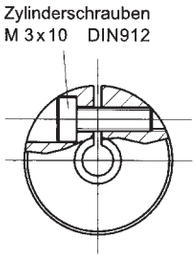
Order no.	Bore Ø d_1 / d_2
WKAK14210202	2 / 2
WKAK14210203	2 / 3
WKAK14210303	3 / 3
WKAK14210304	3 / 4
WKAK14210404	4 / 4

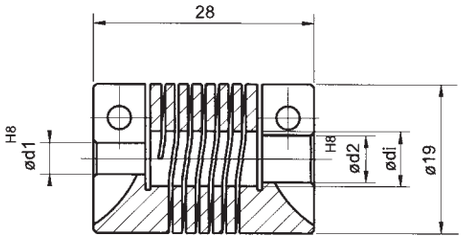




Order no.	Bore Ø d_1 / d_2
WKAK16250303	3 / 3
WKAK16250305	3 / 5
WKAK16250404	4 / 4
WKAK16250505	5 / 5

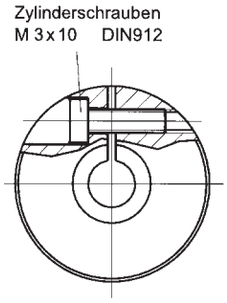
di· helical section relieved

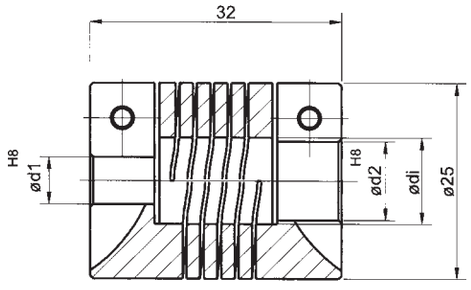




Order no.	Bore Ø d_1 / d_2
WKAK19280404	4 / 4
WKAK19280406	4 / 6
WKAK19280505	5 / 5
WKAK19280506	5 / 6
WKAK19280606	6 / 6

di· helical section relieved





Order no.	Bore Ø d_1 / d_2
WKAK25320606	6 / 6
WKAK25320608	6 / 8
WKAK25320610	6 / 10
WKAK25320808	8 / 8
WKAK25320810	8 / 10
WKAK25321010	10 / 10
WKAK25321012	10 / 12

di· helical section relieved

Technical data

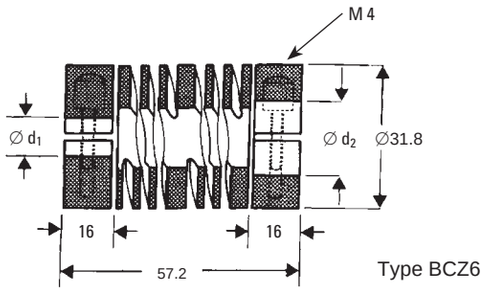
Type		WKAK1421 _ _ _ _	WKAK1625 _ _ _ _	WKAK1928 _ _ _ _	WKAK2532 _ _ _ _
Max. speed	min^{-1}	6,000	6,000	6,000	6,000
Max. torque	Ncm	50	60	80	120
Max. shaft misalignment					
radial	mm	±0.2	±0.2	±0.25	±0.35
axial	mm	±0.25	±0.3	±0.4	±0.5
angular	deg.	±3	±3.5	±4	±4
Torsional stiffness	Nm/rad	4.5	5.5	8	16
Radial stiffness	N/mm	22	30	36	45
Moment of inertia	gcm^2	1.9	3.8	8.7	29
Max. screw torque Ncm		50	50	80	100
Weight approx.	g	6.5	10	16	34
Material:		Aluminium, chromated			

Helical couplings with clamping flange

Aluminium

Order no.	Ø d_1 H7*		Ø d_2 H7*	
	min	max	min	max
BCZ6	8	16	10	16

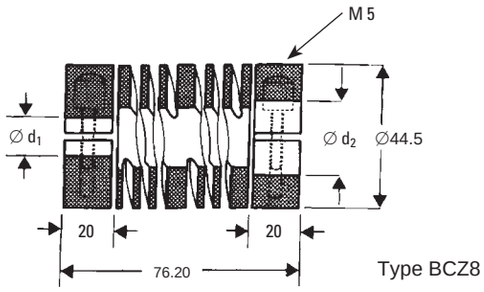
*to customer specification
[Please state when ordering]



Type BCZ6

Order no.	Ø d_1 H7*		Ø d_2 H7*	
	min	max	min	max
BCZ8	9	22	14	22

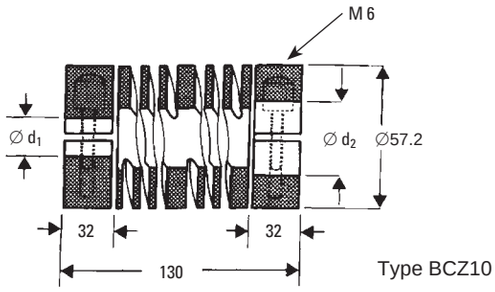
*to customer specification
[Please state when ordering]



Type BCZ8

Order no.	Ø d_1 H7*		Ø d_2 H7*	
	min	max	min	max
BCZ10	10	30	20	30

*to customer specification
[Please state when ordering]



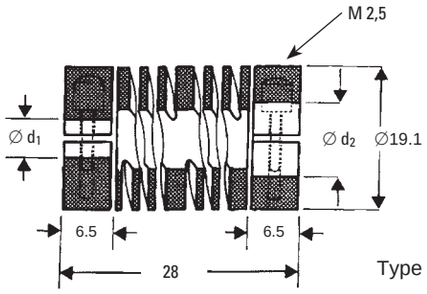
Type BCZ10

Technical data

Type		BCZ6	BCZ8	BCZ10
Max. speed	min^{-1}	5000	5000	5000
Max. torque	Nm	15	30	55
Max. radial misalignment	mm	±0.5	±0.8	±0.95
Max. angular error	deg.	±7.0	±7.0	±7.0
Max. axial misalignment	mm			
Torsional spring constant	Nm/rad			
Radial stiffness	N/mm			
Moment of inertia	g cm^2			
Weight approx. [min/max]	g	89/100	230/262	665/745
Material:	Aluminium			

Helical couplings with clamping flange

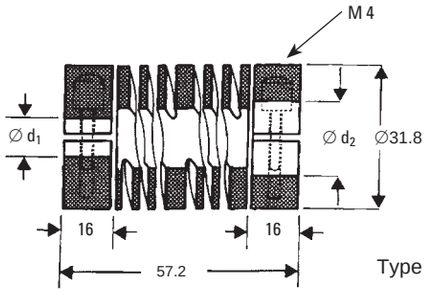
Stainless steel



Type HCZ4

Order no.	Ø d_1^{H7*}		Ø d_2^{H7*}	
	min	max	min	max
HCZ4	4.76	10	6.35	10

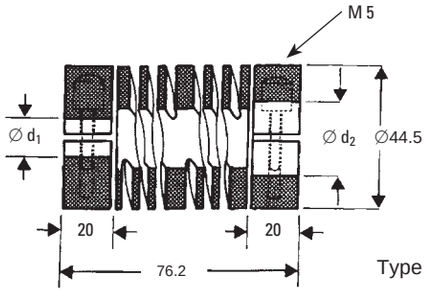
*to customer specification
[Please state when ordering]



Type HCZ6

Order no.	Ø d_1^{H7*}		Ø d_2^{H7*}	
	min	max	min	max
HCZ6	6	16	10	16

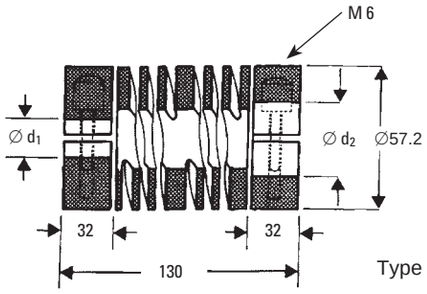
*to customer specification
[Please state when ordering]



Type HCZ8

Order no.	Ø d_1^{H7*}		Ø d_2^{H7*}	
	min	max	min	max
HCZ8	9	22	14	22

*to customer specification
[Please state when ordering]



Type HCZ10

Order no.	Ø d_1^{H7*}		Ø d_2^{H7*}	
	min	max	min	max
HCZ10	10	30	20	30

*to customer specification
[Please state when ordering]

Technical data

Type		HCZ4	HCZ6	HCZ8	HCZ10
Max. speed	min^{-1}	5000	5000	5000	5000
Max. torque	Nm	8	25	48	102
Max. radial misalignment	mm	±0.25	±0.5	±0.8	±0.95
Max. angular error	deg.	±7.0	±7.0	±7.0	±7.0
Max. axial misalignment	mm				
Torsional spring constant	Nm/rad				
Radial stiffness	N/mm				
Moment of inertia	g cm^2				
Weight approx. [min/max]	g	41/46	250/280	631/725	1875/2105
Material:	stainless steel 1.4305				