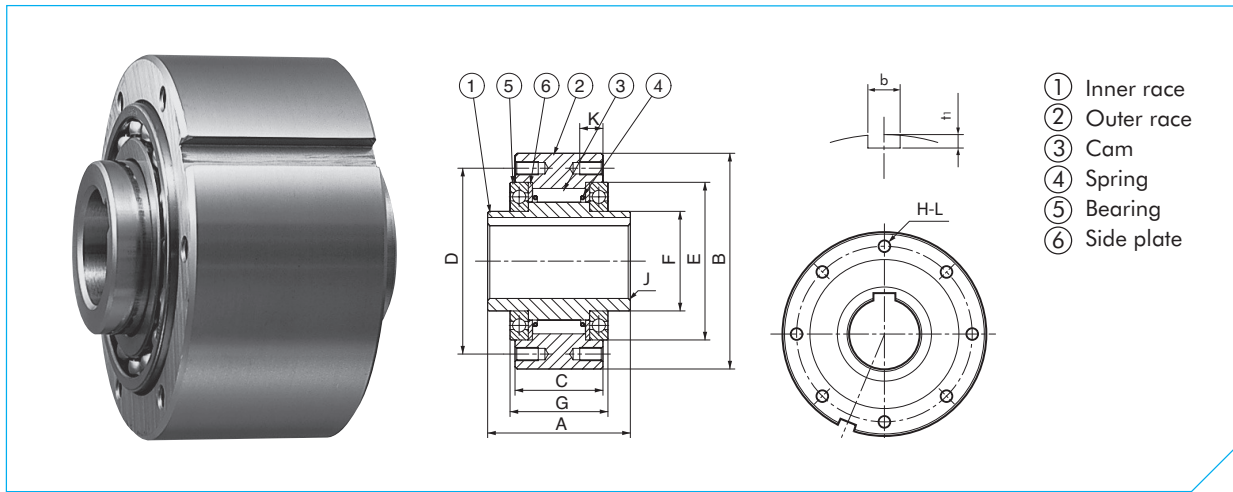


MZEU-K SERIES CAM CLUTCH



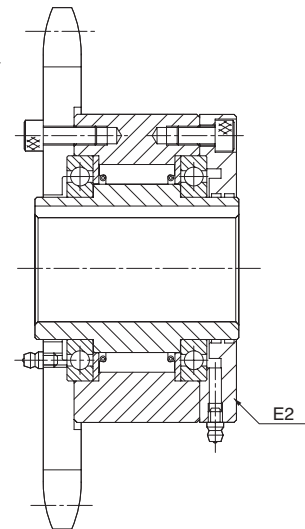
MZEU-K

Dimensions in mm

Model	Torque Capacity Nm	Max. Overrunning Speed		Drag Torque Nm	Bore Size H7	Inner Race Keyway	A	B h7	C	D	E	F	G	H-L	K	J	Outer Race Keyway		Approx. Mass kg/pc
		Inner Race r/min	Outer Race r/min														b P10	t _i	
MZEU12-K	60	2000	1000	0.20	12	4 x 1.8	42	62	20	51	42	20	27	3 - ϕ 5.5	-	0.8	4 x 2.5	0.5	
MZEU15-K	100	1800	900	0.20	15	5 x 2.3	52	68	28	56	47	25	32	3 - M5	8	0.8	5 x 3.0	0.8	
MZEU20-K	245	1600	700	0.29	20	6 x 2.8	57	75	34	64	55	30	39	4 - M5	8	0.8	6 x 3.5	1.2	
MZEU25-K	425	1600	600	0.33	25	8 x 3.3	60	90	35	78	68	40	40	4 - M6	10	0.8	8 x 4.0	1.8	
MZEU30-K	735	1500	500	0.39	30	8 x 3.3	68	100	43	87	75	45	48	6 - M6	10	1.0	8 x 4.0	2.6	
MZEU35-K	1015	1400	300	0.49	35	10 x 3.3	74	110	45	96	80	50	51	6 - M6	12	1.0	10 x 5.0	3.2	
MZEU40-K	1350	1400	300	0.59	40	12 x 3.3	86	125	53	108	90	55	59	6 - M8	14	1.3	12 x 5.0	4.8	
MZEU45-K	1620	1400	300	0.69	45	14 x 3.8	86	130	53	112	95	60	59	8 - M8	14	1.3	14 x 5.5	6.2	
MZEU50-K	2070	1300	250	0.79	50	14 x 3.8	94	150	64	132	110	70	72	8 - M8	14	1.3	14 x 5.5	8.2	
MZEU55-K	2400	1300	250	0.88	55	16 x 4.3	104	160	66	138	115	75	72	8 - M10	16	1.5	16 x 6.0	9.5	
MZEU60-K	2950	1200	250	0.98	60	18 x 4.4	114	170	78	150	125	80	89	10 - M10	16	1.5	18 x 7.0	12.3	
MZEU70-K	4210	1100	250	1.27	70	20 x 4.9	134	190	95	165	140	90	108	10 - M10	16	1.8	20 x 7.5	18.1	
MZEU80-K	5170	800	200	1.38	80	22 x 5.4	144	210	100	185	160	105	108	10 - M10	16	1.8	22 x 9.0	23.1	
MZEU90-K	12000	450	150	4.70	90	25 x 5.4	158	230	115	206	180	120	125	10 - M12	20	2.0	25 x 9.0	28.1	
MZEU100-K	17600	400	130	5.39	100	28 x 6.4	182	270	120	240	210	140	131	10 - M16	24	2.0	28 x 10.0	46.3	
MZEU130-K	24500	320	110	6.76	130	32 x 7.4	212	310	152	278	240	160	168	12 - M16	24	2.5	32 x 11.0	70.2	
MZEU150-K	33800	240	80	8.13	150	36 x 8.4	246	400	180	360	310	200	194	12 - M20	32	2.5	36 x 12.0	146.3	

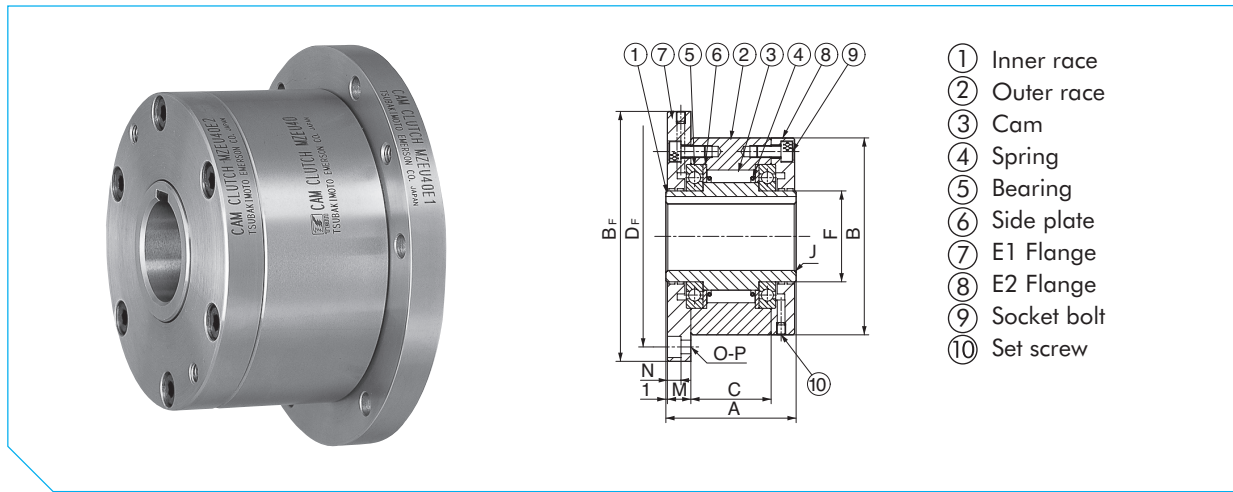
Installation and Usage

- The sizes MZEU12-K up to MZEU 80-K are supplied pre-greased ex-works and do not need any further lubrication except some light maintenance as shown on page 24, to ensure an appropriate function of the lateral roller bearings.
- The ambient temperature range is -40°C to +40°C. For higher range temperatures please consult Tsubaki.
- The sizes MZEU90-K up to MZEU 150-K require oil lubrication.
- We recommend a shaft tolerance of h7 with a standard key. Our keyways are standardized according to DIN 6885.1.
- We recommend applying tolerance H7 or H8 to re-work sprockets, pulley, gears or other parts to be fitted. Before installation of the clutch, it's recommended to clean both ends of the outer race and contact surface of the flange(s), torque arm, cover or fitted part.
- For the sizes MZEU90-K up to MZEU150-K, apply seal adhesive (supplied with each optional part) to prevent oil leakage.
- Before assembly of the optional or fitted part(s) check the rotation direction of the clutch, indicated by an arrow on the inner race side surface. When installing sprocket, gear, pulley or other items to the clutch, always use bolts to assemble them.
- Size and quantity are mentioned under H-L in the above mentioned table.
- By installing any type of optional or fitted part in the opposite way the clutch's direction of rotation can be changed.
- Fix a grease nipple to each optional or fitted part.
- When mounting the clutch onto the shaft, apply pressure to the inner race, but **never** to the outer race.
- For high speed indexing applications (over 50 cycle/min) strong springs are recommendable and can be supplied accordingly.



Installation example 1

MZEU-K SERIES CAM CLUTCH



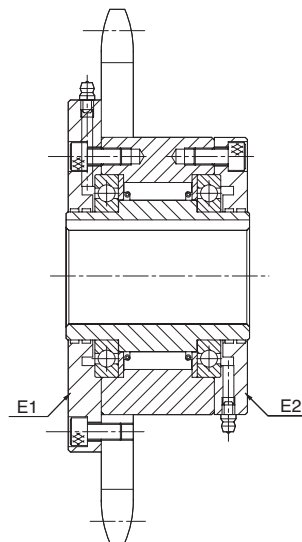
E1 Flange + E2 Flange

Dimensions in mm

Model	Bore Size H7	Inner Race Keyway	A	B h7	B _F	C	D _F	F	J	M	N	O-P	Approx. Mass kg/pc
MZEU12-K E1+E2	12	4 x 1.8	42	62	85	20	72	20	1	10	5.7	3 - ø5.5	1.1
MZEU15-K E1+E2	15	5 x 2.3	52	68	92	28	78	25	0.8	11.0	5.7	3 - ø5.5	1.5
MZEU20-K E1+E2	20	6 x 2.8	57	75	98	34	85	30	0.8	10.5	5.7	4 - ø5.5	1.9
MZEU25-K E1+E2	25	8 x 3.3	60	90	118	35	104	40	0.8	11.5	6.8	4 - ø6.6	2.9
MZEU30-K E1+E2	30	8 x 3.3	68	100	128	43	114	45	1.0	11.5	6.8	6 - ø6.6	4.0
MZEU35-K E1+E2	35	10 x 3.3	74	110	140	45	124	50	1.0	13.5	6.8	6 - ø6.6	5.2
MZEU40-K E1+E2	40	12 x 3.3	86	125	160	53	142	55	1.3	15.5	9.0	6 - ø9.0	7.9
MZEU45-K E1+E2	45	14 x 3.8	86	130	165	53	146	60	1.3	15.5	9.0	8 - ø9.0	9.3
MZEU50-K E1+E2	50	14 x 3.8	94	150	185	64	166	70	1.3	14.0	9.0	8 - ø9.0	11.7
MZEU55-K E1+E2	55	16 x 4.3	104	160	204	66	182	75	1.5	18.0	11.0	8 - ø11.0	15.3
MZEU60-K E1+E2	60	18 x 4.4	114	170	214	78	192	80	1.5	17.0	11.0	10 - ø11.0	17.7
MZEU70-K E1+E2	70	20 x 4.9	134	190	234	95	212	90	1.8	18.5	11.0	10 - ø11.0	25.5
MZEU80-K E1+E2	80	22 x 5.4	144	210	254	100	232	105	1.8	21.0	11.0	10 - ø11.0	33.2
MZEU90-K E1+E2	90	25 x 5.4	158	230	278	115	254	120	2.0	20.5	13.0	10 - ø14.0	38.3
MZEU100-K E1+E2	100	28 x 6.4	182	270	335	120	305	140	2.0	30.0	17.5	10 - ø18.0	68.8
MZEU130-K E1+E2	130	32 x 7.4	212	310	380	152	345	160	2.5	29.0	17.5	12 - ø18.0	98.2
MZEU150-K E1+E2	150	36 x 8.4	246	400	485	180	445	200	2.5	32.0	21.5	12 - ø22.0	198.2

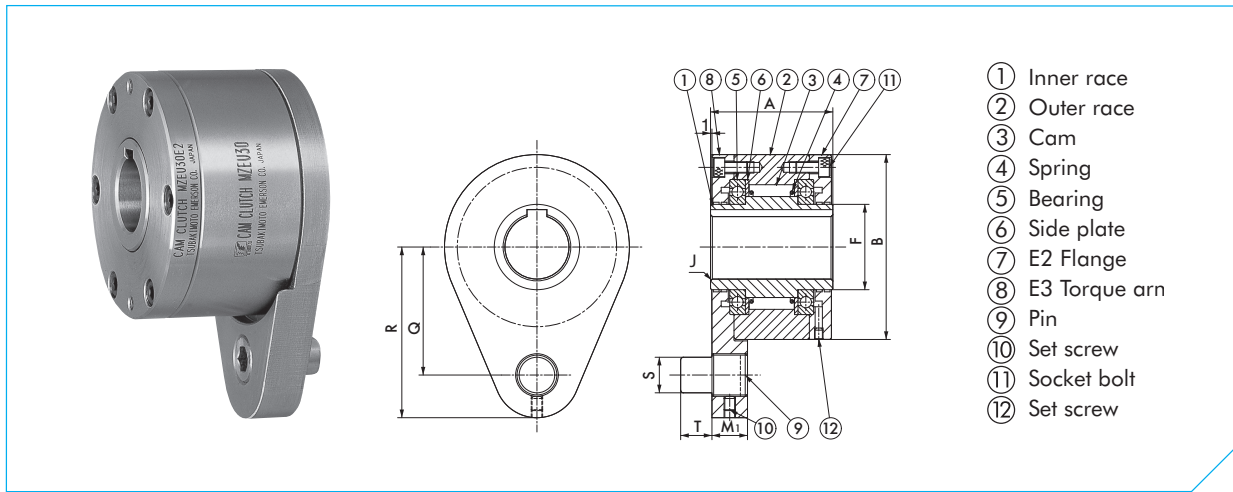
Installation and Usage

1. The Cam Clutch is delivered as a combination of a basic type clutch, an E1 flange and an E2 flange, each one packed and supplied as an individual part set.
Each flange set comes with a complete flange kit, containing a number of bolts, a grease nipple, a locker set screw and a seal plug.
2. Check the direction of rotation before assembling, then mount both flanges making use of the flange kits.
3. Before mounting the sizes MZEU90-K to MZEU150-K apply the sealing adhesive, which comes along with the part sets, between body (outer race surface) and the optional part, to prevent leakage of oil during operation.
4. When installing sprocket, gear, pulley or other items to the clutch, always use bolts to assemble them. Size and quantity are mentioned under H-L, page 17. Lengths and shape are determined by the thickness of the fitted part.
5. When installing any type of optional or fitted part in the opposite way the direction of the clutch's rotation can be changed.
6. For high speed indexing applications (over 50 cycle/min) strong springs are recommended and can be supplied accordingly.



Installation example 2

MZEU-K SERIES CAM CLUTCH



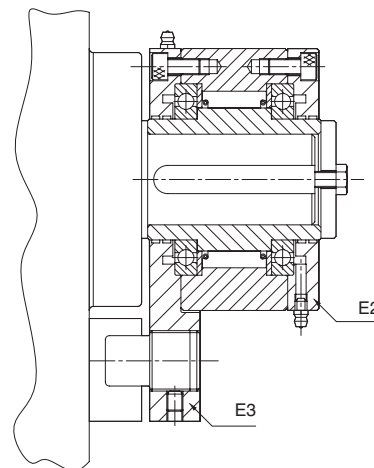
E2 Flange + E3 Torque Arm

Dimensions in mm

Model	Bore Size H7	Inner Race Keyway	A	B h7	F	J	M ₁	Q	R	S	T	Approx. Mass kg/pc
MZEU12-K E2+E3	12	4 x 1.8	42	62	20	0.8	13.5	44	59	10	10	1.0
MZEU15-K E2+E3	15	5 x 2.3	52	68	25	0.8	13.5	47	62	10	10	1.4
MZEU20-K E2+E3	20	6 x 2.8	57	75	30	0.8	15.0	54	72	12	11	1.8
MZEU25-K E2+E3	25	8 x 3.3	60	90	40	0.8	19.0	62	84	16	14	2.7
MZEU30-K E2+E3	30	8 x 3.3	68	100	45	1.0	19.0	68	92	16	14	4.1
MZEU35-K E2+E3	35	10 x 3.3	74	110	50	1.0	22.0	76	102	20	18	5.1
MZEU40-K E2+E3	40	12 x 3.3	86	125	55	1.3	22.0	85	112	20	18	7.4
MZEU45-K E2+E3	45	14 x 3.8	86	130	60	1.3	25.0	90	120	25	22	9.1
MZEU50-K E2+E3	50	14 x 3.8	94	150	70	1.3	25.0	102	135	25	22	11.6
MZEU55-K E2+E3	55	16 x 4.3	104	160	75	1.5	30.0	108	142	32	25	14.6
MZEU60-K E2+E3	60	18 x 4.4	114	170	80	1.5	30.0	112	145	32	25	17.0
MZEU70-K E2+E3	70	20 x 4.9	134	190	90	1.8	35.0	135	175	38	30	25.4
MZEU80-K E2+E3	80	22 x 5.4	144	210	105	1.8	35.0	145	185	38	30	32.6
MZEU90-K E2+E3	90	25 x 5.4	158	230	120	2.0	45.0	155	205	50	40	38.9
MZEU100-K E2+E3	100	28 x 6.4	182	270	140	2.0	45.0	180	230	50	40	65.2
MZEU130-K E2+E3	130	32 x 7.4	212	310	160	2.5	60.0	205	268	68	55	97.3
MZEU150-K E2+E3	150	36 x 8.4	246	400	200	2.5	60.0	255	325	68	55	191.4

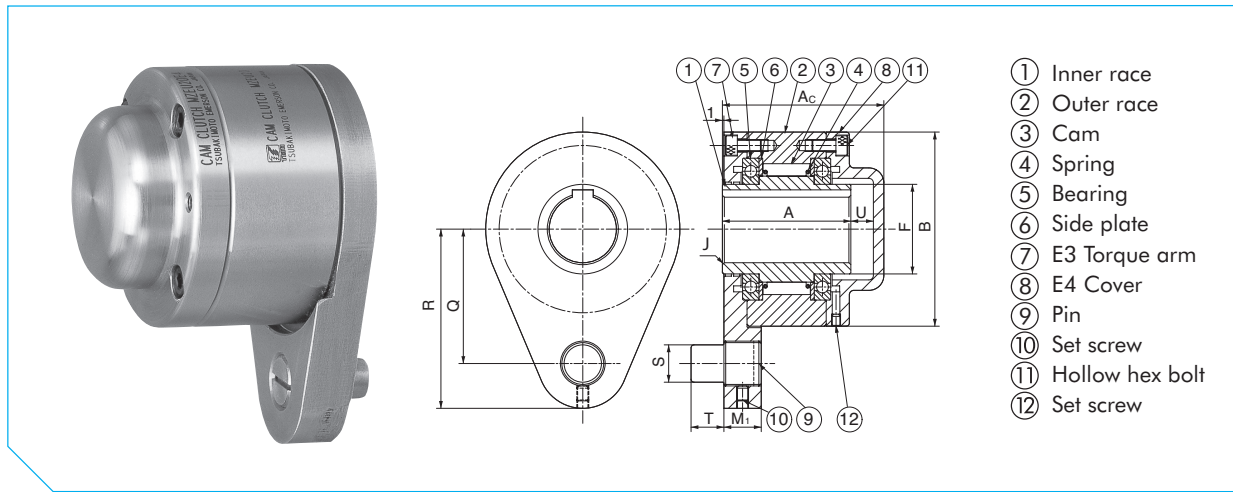
Installation and Usage

1. The Cam Clutch is delivered as a combination of a basic type clutch, an E3 torque arm and an E2 flange, each one packed and supplied as an individual part set. The flange set comes with a complete mounting kit, containing a number of bolts, a grease nipple, a locker set screw and a seal plug. The torque arm comes with an extra pin and set screw.
2. Check the direction of rotation before assembling, then mount both optional parts making use of the flange kits.
3. Before mounting the sizes MZEU90-K to MZEU150-K apply the sealing adhesive, included with the part sets, between body (outer race surface) and the optional part, to prevent leakage of oil during operation.
4. When installing the optional parts in the opposite way the direction of the clutch's rotation can be changed.



Installation example 3

MZEU-K SERIES CAM CLUTCH



E3 Torque Arm + E4 Cover

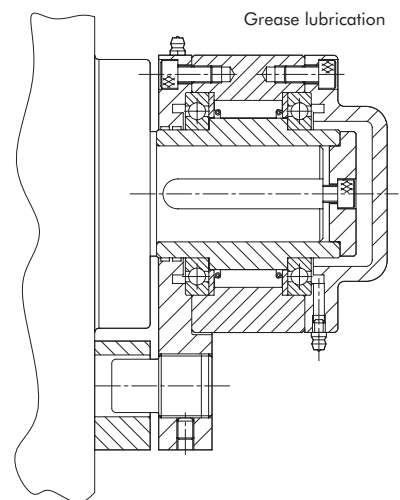
Dimensions in mm

Model	Bore Size H7	Inner Race Keyway	A	Ac	B h7	F	J	Mi	Q	R	S	T	U	Approx. Mass kg/pc
MZEU12-K E3+E4	12	4 x 1.8	42	53	62	20	0.8	13.5	44	59	10	10	6	1.0
MZEU15-K E3+E4	15	5 x 2.3	52	68	68	25	0.8	13.5	47	62	10	10	10	1.5
MZEU20-K E3+E4	20	6 x 2.8	57	73	75	30	0.8	15.0	54	72	12	11	10	2.0
MZEU25-K E3+E4	25	8 x 3.3	60	76	90	40	0.8	19.0	62	84	16	14	10	2.9
MZEU30-K E3+E4	30	8 x 3.3	68	84	100	45	1.0	19.0	68	92	16	14	10	4.3
MZEU35-K E3+E4	35	10 x 3.3	74	92	110	50	1.0	22.0	76	102	20	18	12	5.3
MZEU40-K E3+E4	40	12 x 3.3	86	105	125	55	1.3	22.0	85	112	20	18	12	7.8
MZEU45-K E3+E4	45	14 x 3.8	86	108	130	60	1.3	25.0	90	120	25	22	15	9.6
MZEU50-K E3+E4	50	14 x 3.8	94	113	150	70	1.3	25.0	102	135	25	22	12	12.1
MZEU55-K E3+E4	55	16 x 4.3	104	126	160	75	1.5	30.0	108	142	32	25	15	15.2
MZEU60-K E3+E4	60	18 x 4.4	114	137	170	80	1.5	30.0	112	145	32	25	15	17.7
MZEU70-K E3+E4	70	20 x 4.9	134	164.5	190	90	1.8	35.0	135	175	38	30	22.5	26.5
MZEU80-K E3+E4	80	22 x 5.4	144	168	210	105	1.8	35.0	145	185	38	30	16	33.6
MZEU90-K E3+E4	90	25 x 5.4	158	192	230	120	2.0	45.0	155	205	50	40	27	39.0
MZEU100-K E3+E4	100	28 x 6.4	182	217	270	140	2.0	45.0	180	230	50	40	28	67.4
MZEU130-K E3+E4	130	32 x 7.4	212	250	310	160	2.5	60.0	205	268	68	55	30	100.2
MZEU150-K E3+E4	150	36 x 8.4	246	286	400	200	2.5	60.0	255	325	68	55	32	194.8

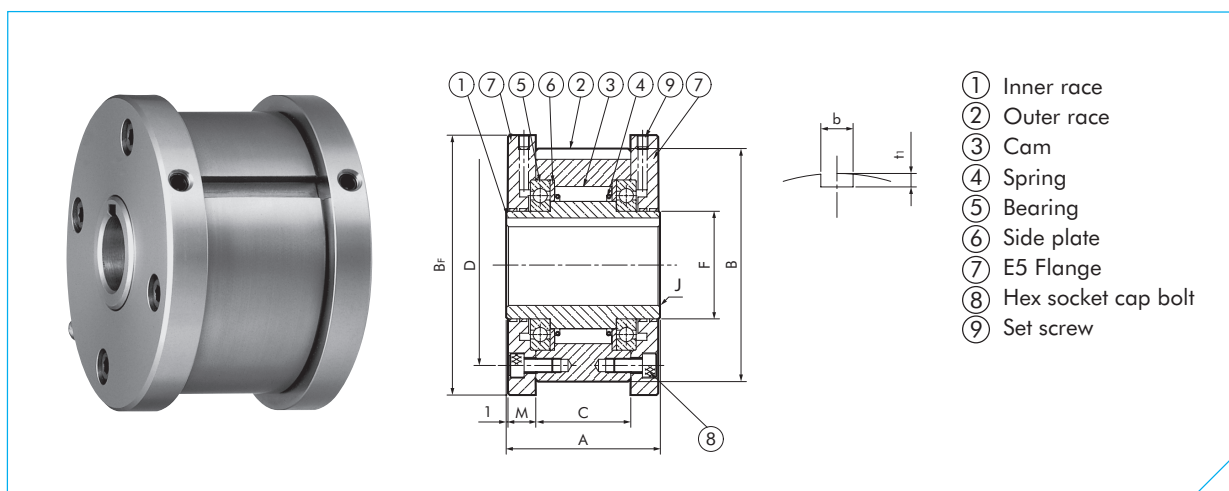
Installation and Usage

1. This version of the MZEU-K Cam Clutch comes as a combination of a basic type clutch, an E3 torque arm and an E4 cover, each one packed and supplied as an individual part set. Each part set is delivered with a flange kit consisting of bolts, grease nipple, locker set screw and seal plug. The E3 kit comes with an extra pin and set screw.
2. Check the direction of rotation before assembling, then mount both flanges making use of the flange kit.
3. Before mounting the sizes MZEU90-K to MZEU150-K apply the sealing adhesive, included with the part sets, between body (outer race surface) and the optional part, to prevent leakage of oil during operation.
4. For the sizes MZEU12-K up to MZEU80-K assemble the shaft end plate onto the shaft before closing with the E4 cover. Refer to installation example 4.
5. Before mounting the E4 cover on Model MZEU90-K up to MZEU150-K, packing should be fitted between the end surface of the inner race and the surface of the end plate, using sealing, washer and bolt(s). Refer to installation example 4.
6. When installing the optional parts in the opposite way the direction of the clutch's rotation can be changed.

Installation example 4



MZEU-K SERIES CAM CLUTCH



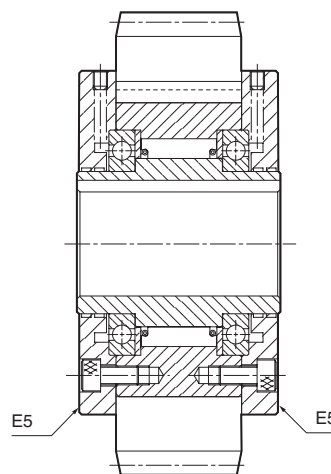
E5 Flange + E5 Flange

Model	Bore Size H7	Inner Race Keyway	A	B h7	Bt	C	D	F	J	M	Outer Race Keyway		Approx. Mass kg/pc
											b P10	ti	
MZEU12-K E5+E5	12	4 x 1.8	42	62	70	20	51	20	0.8	10.0	4 x 2.5		0.5
MZEU15-K E5+E5	15	5 x 2.3	52	68	76	28	56	25	0.8	11.0	5 x 3.0		0.8
MZEU20-K E5+E5	20	6 x 2.8	57	75	84	34	64	30	0.8	10.5	6 x 3.5		1.2
MZEU25-K E5+E5	25	8 x 3.3	60	90	99	35	78	40	0.8	11.5	8 x 4.0		1.8
MZEU30-K E5+E5	30	8 x 3.3	68	100	109	43	87	45	1.0	11.5	8 x 4.0		2.6
MZEU35-K E5+E5	35	10 x 3.3	74	110	119	45	96	50	1.0	13.5	10 x 5.0		3.2
MZEU40-K E5+E5	40	12 x 3.3	86	125	135	53	108	55	1.3	15.5	12 x 5.0		4.8
MZEU45-K E5+E5	45	14 x 3.8	86	130	140	53	112	60	1.3	15.5	14 x 5.5		6.2
MZEU50-K E5+E5	50	14 x 3.8	94	150	160	64	132	70	1.3	14.0	14 x 5.5		8.2
MZEU55-K E5+E5	55	16 x 4.3	104	160	170	66	138	75	1.5	18.0	16 x 6.0		9.5
MZEU60-K E5+E5	60	18 x 4.4	114	170	182	78	150	80	1.5	17.0	18 x 7.0		12.3
MZEU70-K E5+E5	70	20 x 4.9	134	190	202	95	165	90	1.8	18.5	20 x 7.5		18.1
MZEU80-K E5+E5	80	22 x 5.4	144	210	222	100	185	105	1.8	21.0	22 x 9.0		23.1
MZEU90-K E5+E5*	90	25 x 5.4	158	230	242	115	206	120	2.0	20.5	25 x 9.0		28.1
MZEU100-K E5+E5*	100	28 x 6.4	182	270	282	120	240	140	2.0	30.0	28 x 10.0		46.3
MZEU130-K E5+E5*	130	32 x 7.4	212	310	322	152	278	160	2.5	29.0	32 x 11.0		70.2
MZEU150-K E5+E5*	150	36 x 8.4	246	400	412	180	360	200	2.5	32.0	36 x 12.0		146.3

* = Non-stock item

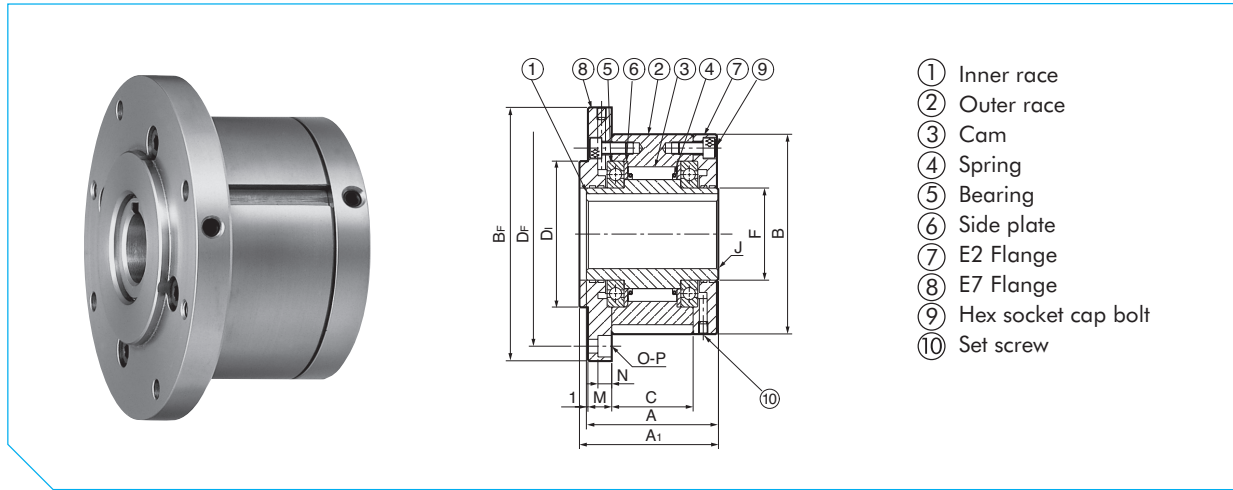
Installation and Usage

1. This version of the MZEU-K Cam Clutch comes as a combination of a basic type clutch, and two E5 flanges, each one packed and supplied as an individual part set. Each part set comes with a complete flange kit, containing a number of bolts, a grease nipple, a locker set screw and a seal plug.
2. Check the direction of rotation before assembling, then mount both flanges making use of the flange kit.
3. Before mounting the sizes MZEU90-K to MZEU150-K apply the sealing adhesive, which comes along with the part sets, between body (outer race surface) and the optional part, to prevent leakage of oil during operation.
4. Insert the Cam Clutch into the appropriate unit (gear, sprocket, pulley etc.). We recommend a tolerance of H7 for the bore size. Fix the key and close the unit with the second E5 flange, making use of the flange kit.
5. MZEU-K clutches with E5 and E5 flanges can be used in both rotation directions.
6. For high speed indexing applications (over 50 cycle/min) strong springs are recommended and can be supplied accordingly.



Installation example 5

MZEU-K SERIES CAM CLUTCH



E2 Flange + E7 Flange

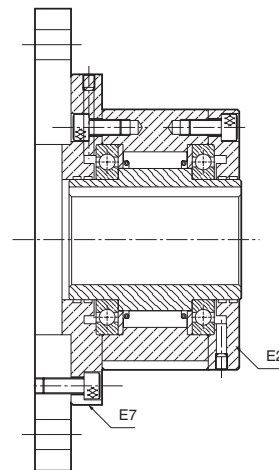
Dimensions in mm

Model	Bore Size H7	Inner Race Keyway	A	A1	B h7	Bf	C	D1 h7	Df	F	J	M	N	O-P	Approx. Mass kg/pc
MZEU12-K E2+E7	12	4 x 1.8	42	44	62	85	20	42	72	20	0.8	10.0	5.7	3 - ø5.5	0.5
MZEU15-K E2+E7	15	5 x 2.3	52	54	68	92	28	47	78	25	0.8	11.0	5.7	3 - ø5.5	0.8
MZEU20-K E2+E7	20	6 x 2.8	57	59	75	98	34	55	85	30	0.8	10.5	5.7	4 - ø5.5	1.2
MZEU25-K E2+E7	25	8 x 3.3	60	62	90	118	35	68	104	40	0.8	11.5	6.8	4 - ø6.6	1.8
MZEU30-K E2+E7	30	8 x 3.3	68	70	100	128	43	75	114	45	1.0	11.5	6.8	6 - ø6.6	2.6
MZEU35-K E2+E7	35	10 x 3.3	74	76	110	140	45	80	124	50	1.0	13.0	6.8	6 - ø6.6	3.2
MZEU40-K E2+E7	40	12 x 3.3	86	88	125	160	53	90	142	55	1.3	15.0	9.0	6 - ø9.0	4.8
MZEU45-K E2+E7	45	14 x 3.8	86	88	130	165	53	95	146	60	1.3	15.0	9.0	8 - ø9.0	6.2
MZEU50-K E2+E7	50	14 x 3.8	94	96	150	185	64	110	166	70	1.3	13.0	9.0	8 - ø9.0	8.2
MZEU55-K E2+E7	55	16 x 4.3	104	106	160	204	66	115	182	75	1.5	17.0	11.0	8 - ø11.0	9.5
MZEU60-K E2+E7	60	18 x 4.4	114	116	170	214	78	125	192	80	1.5	16.0	11.0	10 - ø11.0	12.3
MZEU70-K E2+E7	70	20 x 4.9	134	136	190	234	95	140	212	90	1.8	17.5	11.0	10 - ø11.0	18.1
MZEU80-K E2+E7	80	22 x 5.4	144	146	210	254	100	160	232	105	1.8	20.0	11.0	10 - ø11.0	23.1
MZEU90-K E2+E7*	90	25 x 5.4	158	160	230	278	115	180	254	120	2.0	19.0	13.0	10 - ø14.0	28.1
MZEU100-K E2+E7*	100	28 x 6.4	182	184	270	335	120	210	305	140	2.0	28.0	17.5	10 - ø18.0	46.3
MZEU130-K E2+E7*	130	32 x 7.4	212	214	310	380	152	240	345	160	2.5	27.0	17.5	12 - ø18.0	70.2
MZEU150-K E2+E7*	150	36 x 8.4	246	248	400	485	180	310	445	200	2.5	30.0	21.5	12 - ø22.0	146.3

* = Non-stock item

Installation and Usage

1. This version of the MZEU-K Cam Clutch comes as a combination of a basic type clutch, an E2 flange and an E7 flange, each one packed and supplied as an individual part set.
2. Each flange set come with a complete mounting kit, containing a number of bolts, a grease nipple, a locker set screw and a seal plug.
3. Check the direction of rotation before assembling, then mount both flanges making use of the flange kit.
4. Before mounting the sizes MZEU90-K to MZEU150-K apply the sealing adhesive, which comes along with the part sets, between body (outer race surface) and the optional part, to prevent leakage of oil during operation.
5. Always use bolts for installing a sprocket, a gear, pulley or other options to the clutch. Size and quantity of the bolts needed are mentioned under H-L on page 17. Length and shape of the bolts is determined by the thickness of the fitted part.
6. When installing any type of optional or fitted part in the opposite way the direction of the clutch's rotation can be changed.
7. For high speed indexing applications (over 50 cycle/min) strong springs are recommended and can be supplied accordingly.

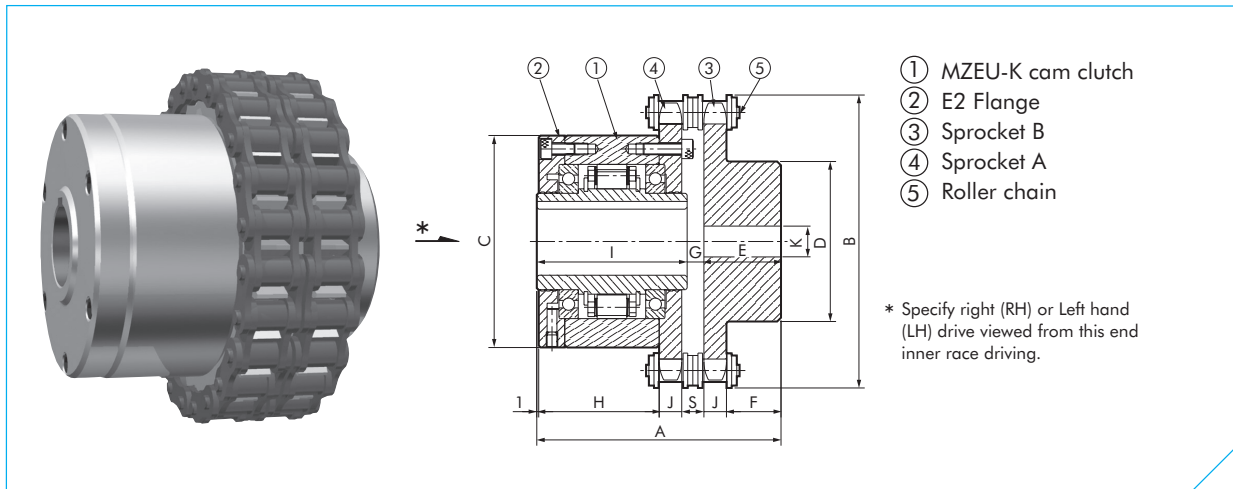


Installation example 6

Note:

Do not apply a large overhung load to the outer race by using E7 flange to keep the centerline between the inner and outer race.

MZEU-K SERIES CAM CLUTCH



Coupling

Dimensions in mm

Model	Torque Capacity Nm	Max. Overrunning Speed		Drag Torque Nm	Bore Size H7	Inner Race Keyway	Bore Diameter Range K		A	B	C h7	D	E	F	G	H	I	J	L	S
		Inner Race r/min	Outer Race r/min				min.	max.												
MZEU12-K-C	60	2000	1000	0.20	12	4×1.8	14	45	70.6	93	62	67	25	17.8	3.6	30.0	42	7.2	1	7.4
MZEU15-K-C	100	1800	900	0.20	15	5×2.3	14	50	79.6	101	68	75	25	17.8	2.6	39.0	52	7.2	1	7.4
MZEU20-K-C	245	1600	700	0.29	20	6×2.8	14	42	85.1	109	75	63	25	17.8	3.1	44.5	57	7.2	1	7.4
MZEU25-K-C	425	1600	600	0.33	25	8×3.3	18	47	93.9	127	90	73	28	19.3	5.9	46.5	60	8.7	1	9.7
MZEU30-K-C	735	1500	500	0.39	30	8×3.3	18	47	101.9	137	100	73	28	19.3	5.9	54.5	68	8.7	1	9.7
MZEU35-K-C	1015	1400	300	0.49	35	10×3.3	18	55	122.7	152	110	83	40	28.3	8.7	58.5	74	11.7	1	11.5
MZEU40-K-C	1350	1400	300	0.59	40	12×3.3	20	55	132.7	164	125	83	40	28.3	6.7	68.5	86	11.7	1	11.5
MZEU45-K-C	1620	1400	300	0.69	45	14×3.8	20	55	132.7	176	130	83	40	28.3	6.7	68.5	86	11.7	1	11.5
MZEU50-K-C	2070	1300	250	0.79	50	14×3.8	20	55	142.2	200	150	83	40	28.3	8.2	78.0	94	11.7	1	11.5
MZEU55-K-C	2400	1300	250	0.88	55	16×4.3	30	75	159.8	219	160	107	45	30.4	10.8	84.0	104	14.6	1	15.2
MZEU60-K-C	2950	1200	250	0.98	60	18×4.4	30	75	170.8	235	170	107	45	30.4	11.8	95.0	114	14.6	1	15.2
MZEU70-K-C	4210	1100	250	1.27	70	20×4.9	30	75	189.3	251	190	107	45	30.4	10.3	113.5	134	14.6	1	15.2
MZEU80-K-C	5170	800	200	1.38	80	22×5.4	30	75	196.8	267	210	107	45	30.4	7.8	121.0	144	14.6	1	15.2

Installation and Usage

1. MZEU-K C series Cam Clutch couplings make use of MZEU-K series Cam Clutch and CR type couplings without cover.
2. Mount the Cam Clutch part loosely onto the highspeed shaft.
3. Accurately align both sprockets by checking with a straight edge on the teeth of both sprockets.
4. Check whether the clearance (S) between both sprockets is correct, then wrap the chain around the sprockets and close it properly with the connecting link.
5. Specify right hand (RH) or left hand (LH) as inner race overrunning direction from the view of cam clutch side(*) when ordering. See the above drawing.
6. The same lubrication as for Tsubaki roller chain is necessary for the coupling chain.
7. Ensure that the closed side of the spring clip is situated in the same direction as the rotation of the outer race.

MZEU-K SERIES CAM CLUTCH

Lubrication and Maintenance of MZEU-K Series

The basic models MZEU12-K to MZEU80-K are pre-greased and require no further lubrication. However, the lateral bearings need to be greased periodically. See the tables below for the recommended grease and frequency. The operational temperature range is -40°C to +40°C.

For higher range temperatures please consult Tsubaki. The basic models MZEU90-K to MZEU150-K and optional parts such as flanges, torque arm or cover need to be lubricated with oil at scheduled maintenance. See the tables below for the recommended oil and frequency.

Recommended grease for Cam Clutches MZEU12-K to MZEU80-K

Oil Company	Ambient Temperature	
	-5°C to +40°C	-40°C to +40°C
Esso	-	Beacon 325
Mobil	-	Mobil Temp SHC 100
Shell	Alvania Grease S2	Alvania Grease RA
BP	Energrease LS2	Energrease LT2
Total	Multis 2	Aerogrease 22

Note: Do not use grease containing EP additives when selecting any other brand or make.

Recommended oil for Cam Clutches MZEU90-K to MZEU150-K

Oil Company	Ambient Temperature	
	-10°C to +30°C	+30°C to +50°C
Esso	Teresso 32, Essolub D-3 10W, ATF Dexron	Essolub D-3 30
Mobil	ATF 220, Delvac 1310, DTE Oil light	
Shell	Dexron II, Rimulla CT Oil 10W, Shell Clavus Oil 17, Rotella S Oil 10W	Rimulla CT Oil 20W/20, 30 Rotella S Oil 20W/20, 30
BP	BP Energol THB32	
Total	Harmony 32	-

Note: Do not use oil containing EP additives when selecting any other brand or make.

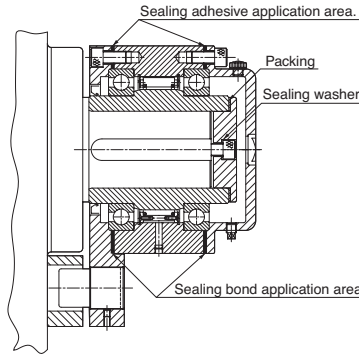
Instructions for Lubrication of MZEU90-K to MZEU150-K

1. Apply a suitable amount of oil before use.
2. As a general rule, the amount of lubricant should be level with the center of the shaft for overrunning or backstopping.
3. The E2 flange has three plugs. The E4 cover has a large plug for adding oil and two small plugs for checking and draining.
4. Place the plugs, so that one is at the top and one is at the bottom. The center one should be level with the center of the shaft.
5. Pour oil into the clutch until it overflows from check plug. After a few minutes, pour in more oil and check that it overflows again.

Maintenance

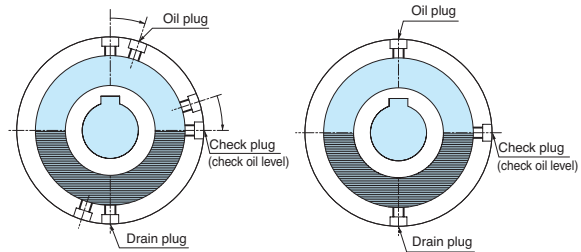
Model	Lubricant	Maintenance
MZEU12-K to MZEU80-K	Grease	Every 3 months by the grease nipple on the flange, the torque arm and/or cover.
MZEU90-K to MZEU150-K	Oil	Replace the oil 10 hours after the first installation. Then refresh the oil every 3 months. For dirty environments we recommend refreshment every month.

Oil lubrication



MZEU90-K to MZEU150-K

Oil level



MZEU90-K to MZEU100-K

MZEU130-K to MZEU150-K