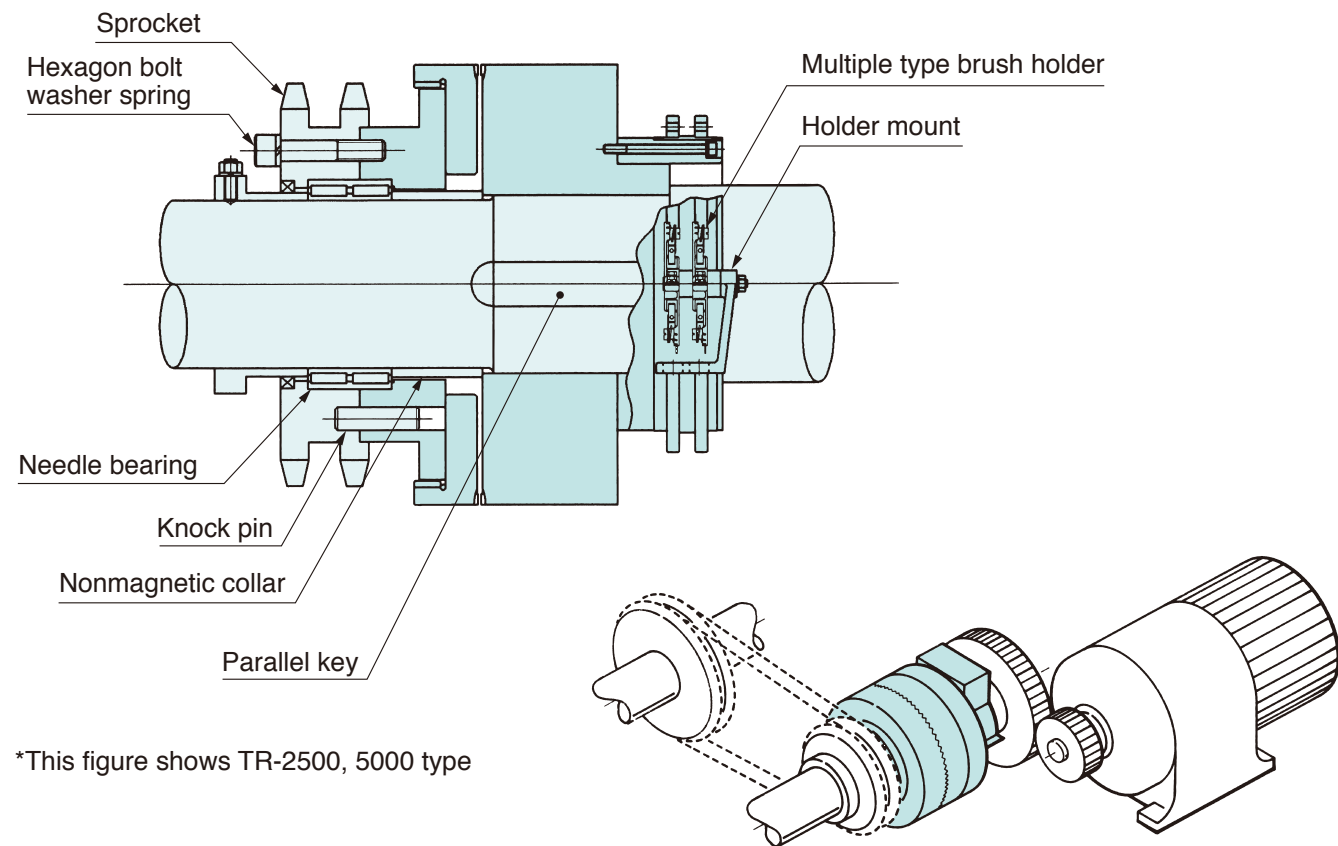


TR



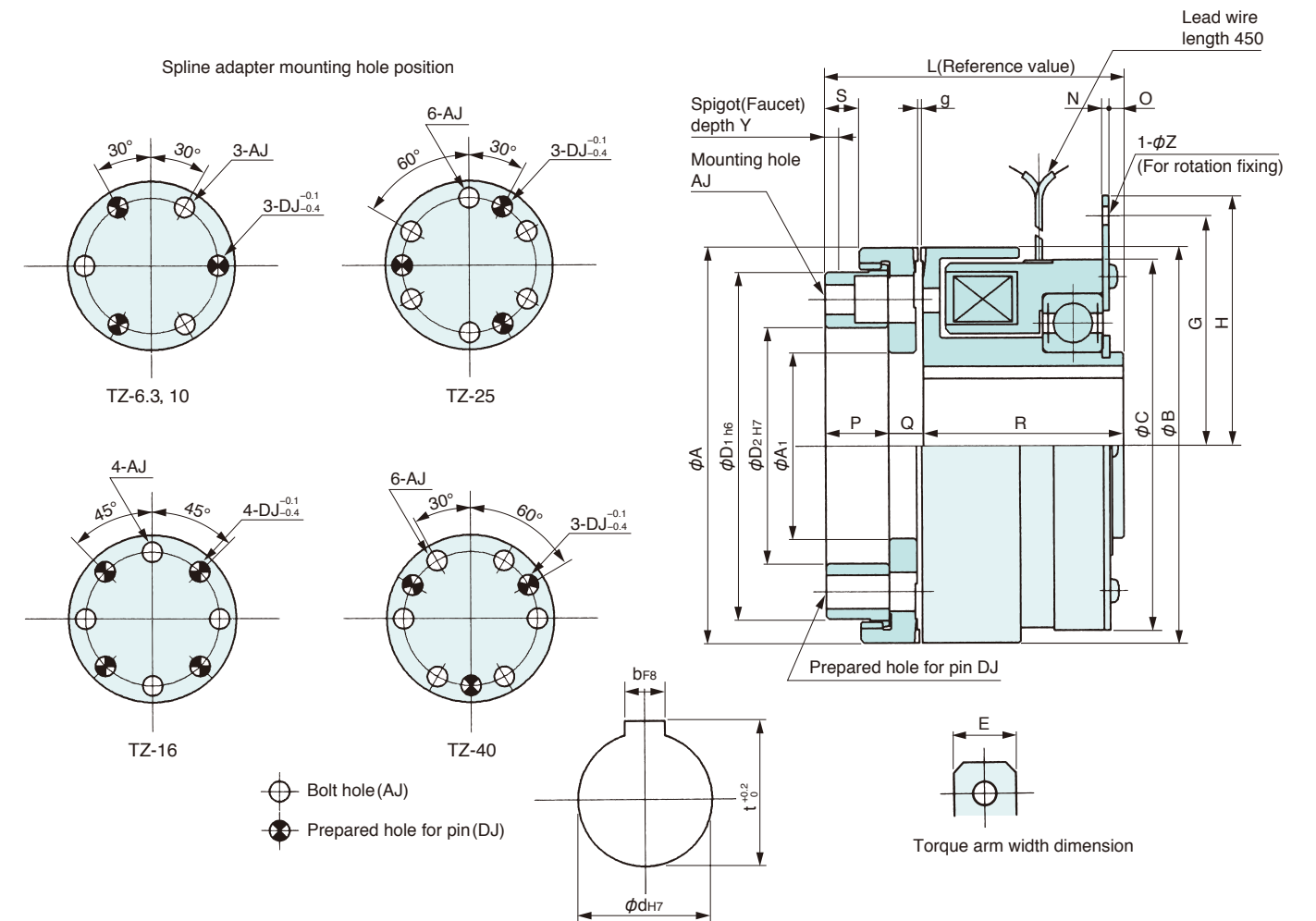
*This figure shows TR-2500, 5000 type

Build-to-order product

Ball Bearing Attachment Clutch

TZ-6.3, 10, 16, 25, 40

Model	Rated torque(Nm)	Rated voltage(DC-V)	Power consumption at75°C(W)	Mass(kg)
TZ-6.3	63	24	24	1.5
TZ-10	100	24	24	2.1
TZ-16	160	24	30	3.3
TZ-25	250	24	45	4.8
TZ-40	400	24	50	8.5



Unit: mm

Model	Diameter direction									Shaft direction										Attachment			Shaft hole		
	A	A1	B	C	D1	D2	E	H	G	L	N	O	P	Q	R	S	Y	Z	g	P.C.D	AJ	DJ	d	b	t
TZ-6.3	76.2	38.1	76.2	76	64	42	16	60	54	66	1.8	2.2	11.2	7.8	47	5.3	2.5	5.5	0.3 ^{+0.1} ₀	53.74	φ5.5hole, φ9 ℓ: 6.5	6	25	7	28
TZ-10	85.9	40	85.9	86	73	50	16	64	58	74	1.8	3.15	12.7	7.8	53.5	6.7	3	5.5	0.3 ^{+0.1} ₀	62.48	φ5.5hole, φ9 ℓ: 6.5	6	30	7	33
TZ-16	98.6	45.2	98.6	98	86	58	16	69	63	82	1.8	2.7	15.7	9.3	57	9.4	4	5.5	0.4 ^{+0.1} ₀	72.90	φ6.5hole, φ11 ℓ: 7.5	8	35	10	38.5
TZ-25	117.4	55	117.4	110	103	70	16	74	68	89.1	1.8	4.2	19.0	10.4	59.7	10.4	4	5.5	0.4 ^{+0.1} ₀	86.86	φ8.8hole, φ14 ℓ: 10	10	40	12	43.5
TZ-40	137.7	64.3	137.7	133	118	84	16	79	73	109.9	1.8	6.2	22.4	12.5	75	13.9	4	5.5	0.4 ^{+0.1} ₀	101.60	φ9hole, φ14 ℓ: 10	10	50	15	55

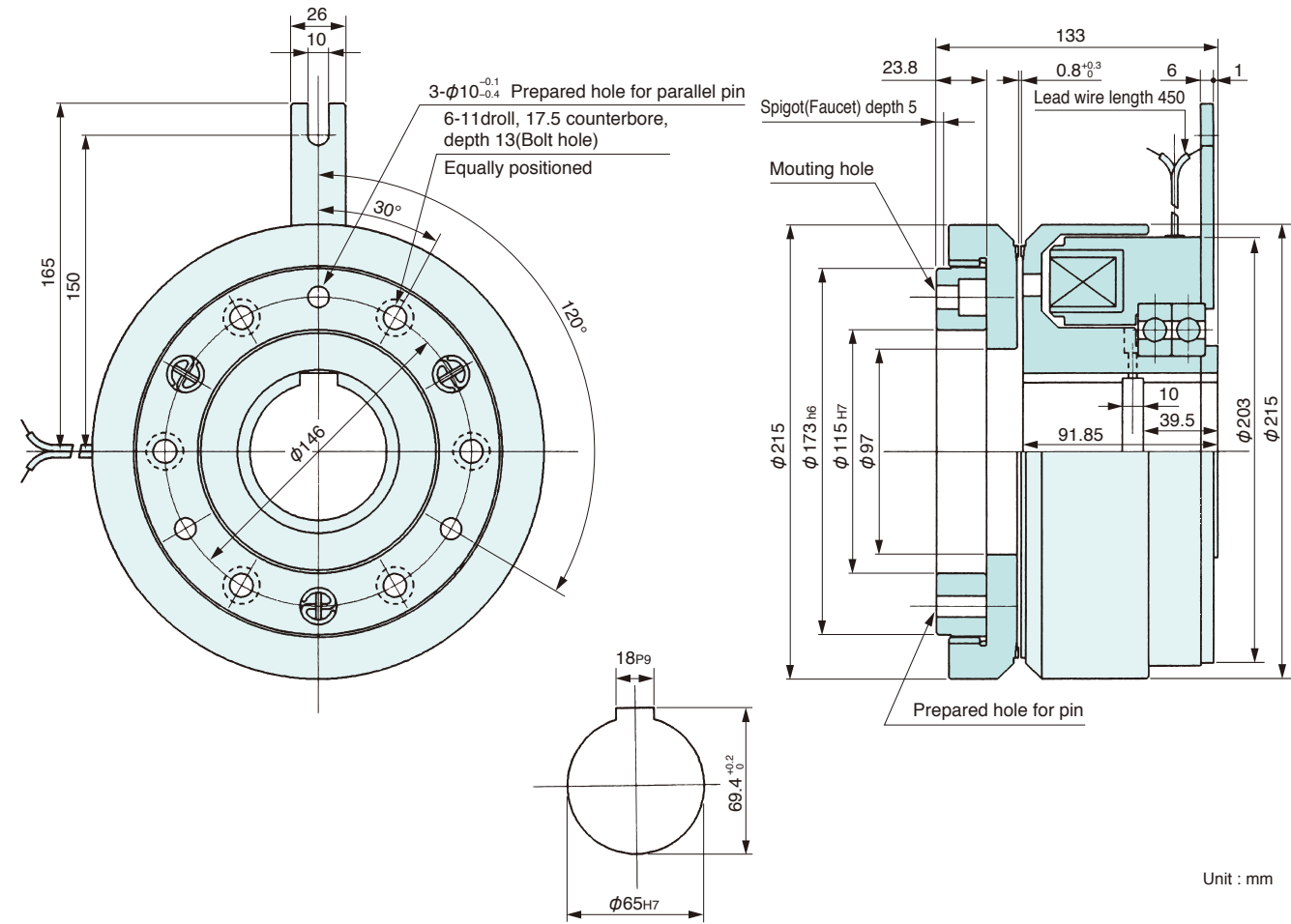
Ball Bearing Attachment Clutch

Build-to-order product

TZ-160

Model	Rated torque(Nm)	Rated voltage(DC-V)	Power consumption at75°C(W)	Mass(kg)
TZ-160	1600	24	80	18

Note: TZ-160 is for wet usage. (Shaft core lubrication)
Please contact us for dry usage.

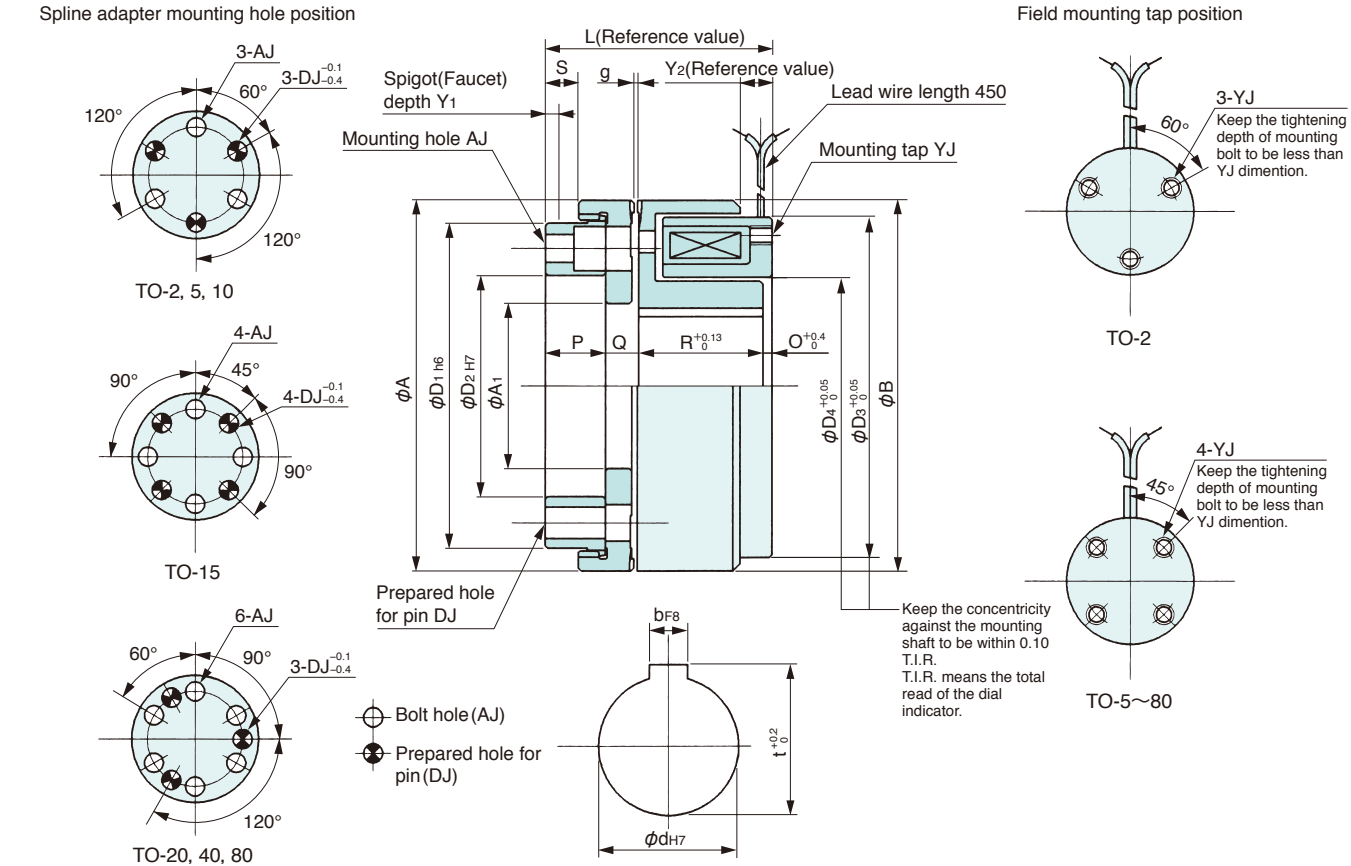


Unit : mm

Static Coil Clutch

TO-2, 5, 10, 15, 20, 40, 80

Model	Rated torque(Nm)	Rated voltage(DC-V)	Power consumption at75°C(W)	Mass(kg)
TO-2	20	24	13	0.60
TO-5	50	24	20	1.0
TO-10	100	24	34	1.8
TO-15	150	24	34	2.7
TO-20	200	24	50	4.2
TO-40	400	24	70	7.2
TO-80	800	24	79	12



Unit: mm

Model	Diameter direction							Shaft direction									Attachment						Shaft hole		
																	AJ		DJ		YJ				
	A	A1	B	D1	D2	D3	D4	L	O	P	Q	R	S	Y1	Y2	g	P.C.D	Bolt hole	P.C.D	Prepared hole for pin	P.C.D	Tap	d	b	t
TO-2	50.8	15.9	50.8	44	25	46.56	23.04	40.3	2	8.6	6.1	23.6	4.5	2	4.6	0.2 ^{+0.1} ₀	35	φ3.4hole, φ6.5 ℓ:4	35	4	38.1	M3×4.5	12	4	13.5
TO-5	76.2	38.1	76.2	64	42	71.37	42.82	49.3	2.5	11.2	7.99	27.61	5.3	3	6.1	0.3 ^{+0.2} ₀	53.74	φ5.5hole, φ9 ℓ:6.5	53.74	6	63.5	M4×5	24	7	27
TO-10	85.9	40	85.9	73	50	79.32	48.39	55.9	2.5	12.7	7.95	32.75	6.6	3	6.6	0.3 ^{+0.2} ₀	62.48	φ5.5hole, φ9 ℓ:6.5	62.48	6	71.42	M4×5	28	7	31
TO-15	98.6	45.2	98.6	86	58	91.24	55.52	63.0	2.5	15.7	9.75	35.05	9.4	4	6.6	0.4 ^{+0.3} ₀	72.9	φ6.5hole, φ11 ℓ:7.5	72.9	8	84.12	M5×6	37	10	40.5
TO-20	117.4	55	117.4	103	70	108.71	66.85	71.4	2.5	19	10.78	39.12	10.4	5	9.9	0.4 ^{+0.3} ₀	86.86	φ8.8hole, φ14 ℓ:10	86.86	10	95.25	M6×6	44	12	47.5
TO-40	137.7	64.3	137.7	118	84	128.55	79.35	86.9	2.5	22.4	12.85	49.15	13.8	6	9.9	0.4 ^{+0.3} ₀	101.6	φ8.8hole, φ14 ℓ:10	101.6	10	114.3	M6×8	57	15	62
TO-80	162.6	79.3	162.6	144	104	152.35	99.01	104.1	3.8	28.4	14.19	57.71	16.8	8	10.4	0.5 ^{+0.3} ₀	124.46	φ11hole, φ17.5 ℓ:13	124.46	13	133.36	M8×9	67	18	73