

JAW COUPLING

DESCRIPTION



Description

The JAW Couplings are a reliable claw type with flexible lobes. The flexible element compesate for radial, axial and angular misalignment.

- ① Absorb dynamic shocks and vibrations
- ② No lubrication
- ③ Much smaller and lighter compared to transmitting torque.

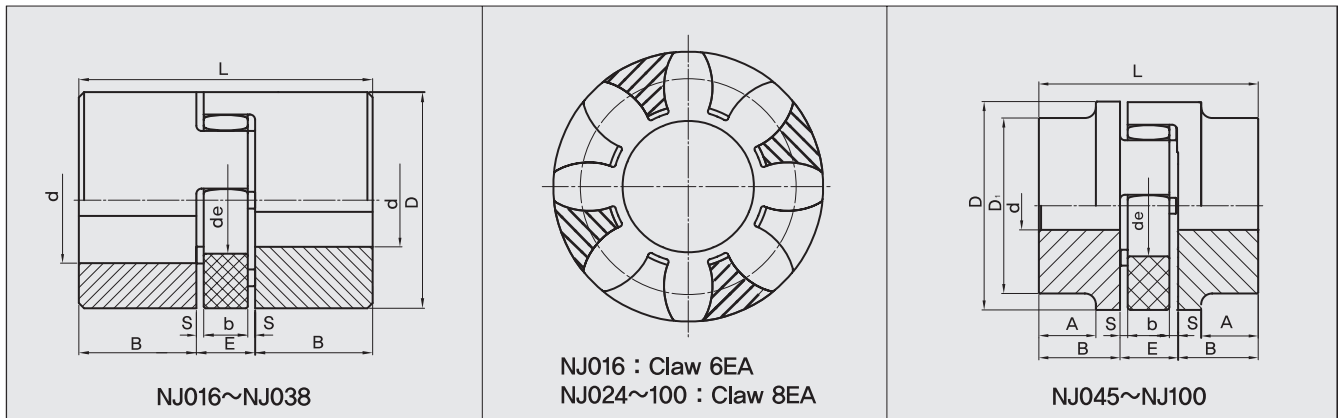
Selection

- ① Select service factor F_1 from page 43.
- ② Caculte the operating torque T , refer to below
Operating torque(T)=
Transmiting torque(T_0) \times service factor(F_1)

$$T_0(\text{N}\cdot\text{m}) = 9550 \times \frac{\text{kw}}{\text{rpm}}$$

- ③ Select a coupling size from the following tables.
 - Find the nearert exceeding rating torque.
 - Check the required maximum speed.
 - Check the maximum bore.
- ④ Consult NARA when the coupling was mounted on special condition. (Ambient Temperature over 40°C, consult NARA)

DIMENSIONS

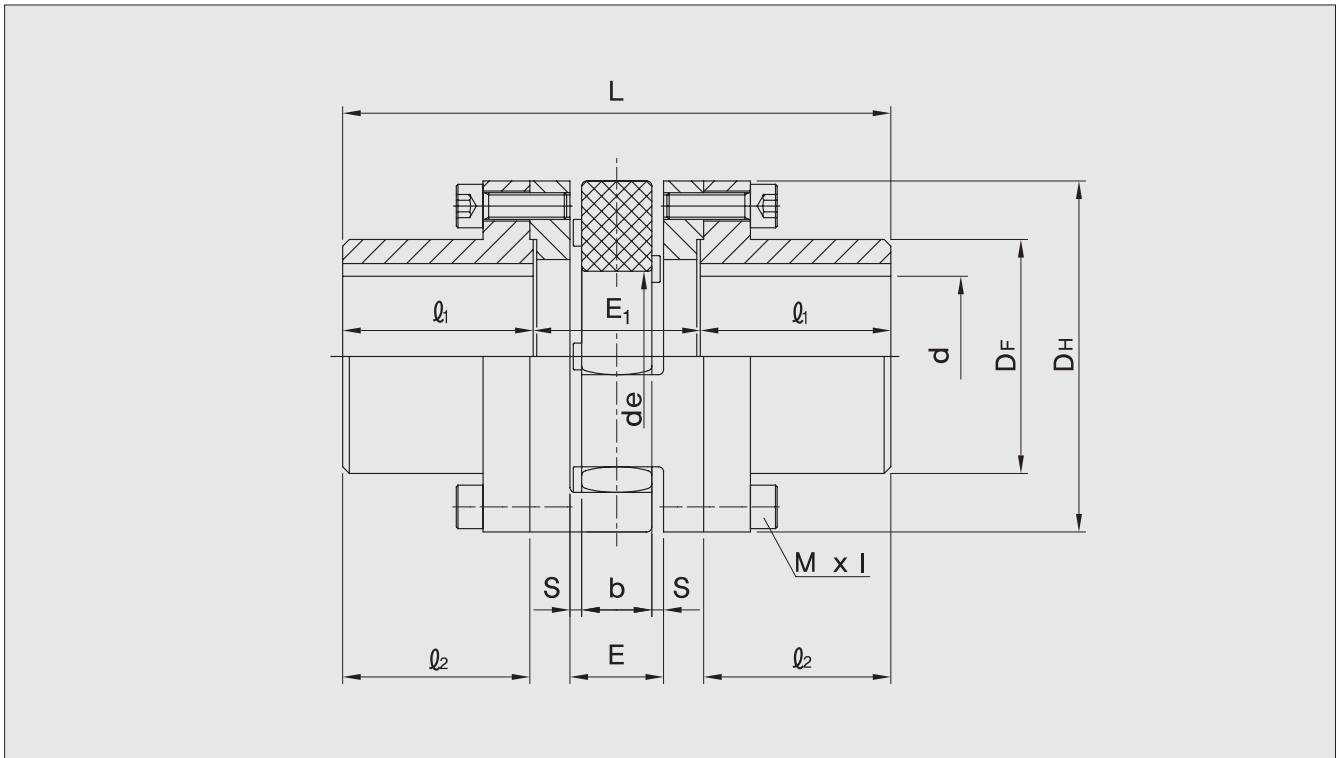


Size	Rating torque (N·m)	Max. speed (rpm)	Bore (mm)		Dimensions(mm)									Mass (kg)	J (kg·m ²)
			dmin	dmax	D	D ₁	L	S	b	E	A	B	de		
NJ016	7,5	5,000	6	16	30	—	35	1,5	10	13	—	11	11	0,1	0,00025
NJ024	10	5,000	7	24	40	—	66	2,0	12	16	—	25	16	0,5	0,000125
NJ028	35	5,000	9	28	55	—	78	2,0	14	18	—	30	24	1,0	0,000475
NJ038	95	4,000	11	38	65	—	90	2,5	15	20	—	35	30	1,6	0,00113
NJ045	190	4,000	13	45	80	70	104	3,0	18	24	29	40	37	2,8	0,00298
NJ055	265	4,000	19	55	95	80	116	3,0	20	26	34	45	45	4,5	0,00678
NJ060	310	3,600	22	60	105	90	128	3,5	21	28	40	50	51	6,0	0,011
NJ075	625	3,600	30	75	135	120	175	4,5	26	35	55	70	67	15	0,045
NJ090	1280	3,000	40	90	160	140	200	5,0	30	40	63	80	82	24	0,101
NJ100	2400	2,000	50	100	200	160	225	5,5	34	45	70	90	104	39	0,244

1. Mass & J are the values in case of solid shaft, (GD² = 4J)

DETACHABLE JAW COUPLING

DIMENSIONS



Size	Rating torque (N·m)	Max. speed (rpm)	Bore (mm)		Dimensions(mm)										Mass (kg)	J (kg·m ²)	
			dmin	dmax	D _H	D _F	l ₁	S	b	E	l ₂	E ₁	L	d _e			M x I
NJS028	34,3	5,000	9	24	55	36	30,5	2	14	18	30	33	94	24	M5 x 15	1,04	0,000335
NJS038	98	4,000	11	28	65	42	35,5	2,5	15	20	35	39	110	30	M6 x 20	1,68	0,000805
NJS045	186,2	4,000	13	38	80	52	45,5	3	18	24	45	43	134	37	M8 x 20	2,9	0,00194
NJS055	264,6	4,000	19	42	95	62	51	3	20	26	50	48	150	45	M8 x 25	4,7	0,00475
NJS060	303,8	3,600	22	48	105	70	57	3,5	21	28	56	50	164	51	M8 x 25	6	0,008
NJS075	421,4	3,600	30	65	135	94	76	4,5	26	35	75	65	217	67	M10 x 30	13,3	0,027
NJS090	970,2	3,000	40	75	160	108	86,5	5	30	40	85	75	248	82	M12 x 40	21,6	0,062
NJS100	2,401	2,000	50	100	200	142	101,5	5,5	34	45	100	82	285	104	M16 x 40	38,8	0,171

1. Mass & J are the values in case of solid shaft. (GD² = 4J)