MJ type

- Set screw style
- Zero backlash
- Maximum lateral misalignment: 0.8 7 mm
- Inner diameter: 2 30 mm
- Maximum transmittable torque: 0.06 37.5 Nm
- Size 50 and 57 with key ways standard (JIS B1301 1996)



- A coupling consists of two hubs and one torque disc.

Service Factors

Select a size of coupling where the maximum transmittable torque* exceeds the

"Maximum application torque × Service factor."

Load	Service factors			
Uniform, steady state	1			
Non-uniform, periodical, stop/start, reversing	2			
Shock	3			
Heavy shock, repeated impulsive, reversing	4			
Servomotor	2.5 - 3.0			

Specifications of MJ type

м				Coupling size of MJ-										
	CI-1			6	9	13	19	19L	25	33	41	50	57	
Maximum transmittable torque* Hard Grade Content of the second s		Blank disc	- Nm	0.06	0.21	0.5	1.7	1.7	4	10	17	30	37.5	
		Thro' disc (TB)		-	-	-	-	-	-	10	17	30	37.5	
Torsional	Static stregth	Blank disc	• Nm •	0.7	2	4	10	10	13	59	62	89	117	
		Thro' disc (TB)		-	-	-	-	-	-	59	62	89	117	
stiffness	Contra constant	Blank disc	Nm/rad.	10	30	65	115	115	205	166	185	570	575	
	Spring constant	Thro' disc (TB)		-	-	-	-	-	-	107	241	235	624	
Maximum compres	ssive load	·	N	13	25	52	120	120	170	200	550	600	660	
Electrical isolation	ectrical isolation between shafts			3.8	4.1	4.5	6.8	6.8	7.7	8.1	11.4	13.8	16.2	
Moment of inertia	ent of inertia (Values apply with maximum bores)			6	18	26	67	59	252	1,133	3,177	7,550	12,410	
	Angular		0	• 1										
Misalignment	Lateral			0.8	1.3	1.6	2.4	2.4	3	3.8	5	6	7	
	Axial			0.1			0.2			0.3 0		.4		
Clearance between hub and torque disc**		mm	0.05		0.1		0.15		0.2					
Mass (Values appl	y with maximum bores)		kg×10 ⁻³	2.5	4	11	12	15	31	79 127 209		209	347	
Outer diameter		D	mm	6.4	9.5	12.7	19.1	19.1	25.4	33.3	41.3	50.0	57.0	
Overall length	Overall length L1		mm	12.7	12.7	15.9	22.0	26.0	28.4	48.0	50.8	59.7	77.8	
Mounting length*** (shaft depth, bore depth)		L2	mm	3.8	3.8	4.3	6.3	9.4	8.6	15.0	18.1	20.8	28.8	
Distance	from hub end to screw	L3	mm	2.3	2.3	2.3	2.7	3.6	3.5	5.0	5.8	7.0	8.0	
Set screws***	Size		M3			M	4	М6						
Services	Recommended tightening torque		Nm	0.7			1.7			6.0				
Inner diameter	Metric (min - max)	B1, B2	mm	2-3	3-5	3-6	4-8	3-8	6-12	8-20	8-20	10-25	12-30	
(see tbl below)	Inch (min - max)	B1, B2	in	1/8	1/8-3/16	1/8-1/4	3/16-5/16	3/16-5/16	1/4-3/8	3/8-1/2	3/8-1/2	-	-	
Blank disc				standard										
Thro' disc		Thro' disc (TB)		-	-	-	r	make to order			standard			

** Please make clearance of 0.05 - 0.2 mm between torque disc and hubs respectively. The clearance absorbs axial misalignment and thermal expansion of shaft.

*** Shafts must not penetrate beyond L2 when installation.

**** Steel screws are standard, stainless steel screws are option.

Bores for MJ type

Tunor diameter		Coupling size of MJ-										
Inne	6	9	13	19	19L	25	33	41	50	57		
Solid hub		HS										
B1, B2	Metric [mm]	2	•									
(+0.03/ 0 [mm])		2.5	•									
		3	•	•	•		0					
		4		•	•	•	0					
		4.5		•	•	•	0					
		5		•	•	•	0					
		6			•	•	0	•				
		7				•	0	•				
		8				•	0	٠	0	0		
		9						•	0	0		
		9.5						•	0	0		
		10						•	0	0	0	
		11						•	0	0	0	
		12						•	0	0	0	0
		13							0	0	0	0
		14							0	0	0	0
		15								0	0	0
		16								0	0	0
		17								0	0	0
		18								0	0	0
		19								0	0	0
		20								0	0	0
		22									0	0
		24									0	0
		25									0	0
		28										0
		30										0
	Inch [in]	1/8	•	•	•							
		3/16		•	•	•	0					
		1/4			•	•		•				
		5/16				•	0	•				
		3/8						•	0	0		
		1/2							0	0		

■HS: Solid hubs

• Blind hubs

OThrough hubs

Ordering Example

Туре	-	Coupling size -		Inner diameter, small	×	Inner diameter, large		
МЈ	-	25	-	8	×	12		

CAUTION!

MJ type couplings hold the shafts with attached set screws. The shafts are pressed against the inner wall of bores with the cup points of set screws. This installation mechanism may cause burrs on the shafts. Shafts may not be able to be removed from the hubs when dismounting due to the burrs. See examples below to avoid the problem. We recommend MCJ type with clamp style to solve this problem.

Example 1

Make "D-cuts" at the position where the cup points of set screws sit. Stabilize the cup points on "D-cuts." Advantage: shafts do not slip in a rotational manner easily

Disadvantage: shafts can slip axially



Example 2

Make a step on the shaft. Stabilize the cup points of set screws on the step.

Advantage: shafts do not slip axially easily

Disadvantage: shafts can slip in a rotational manner



Please note that clearance between the shaft and the hub can cause misalignment with either method.

