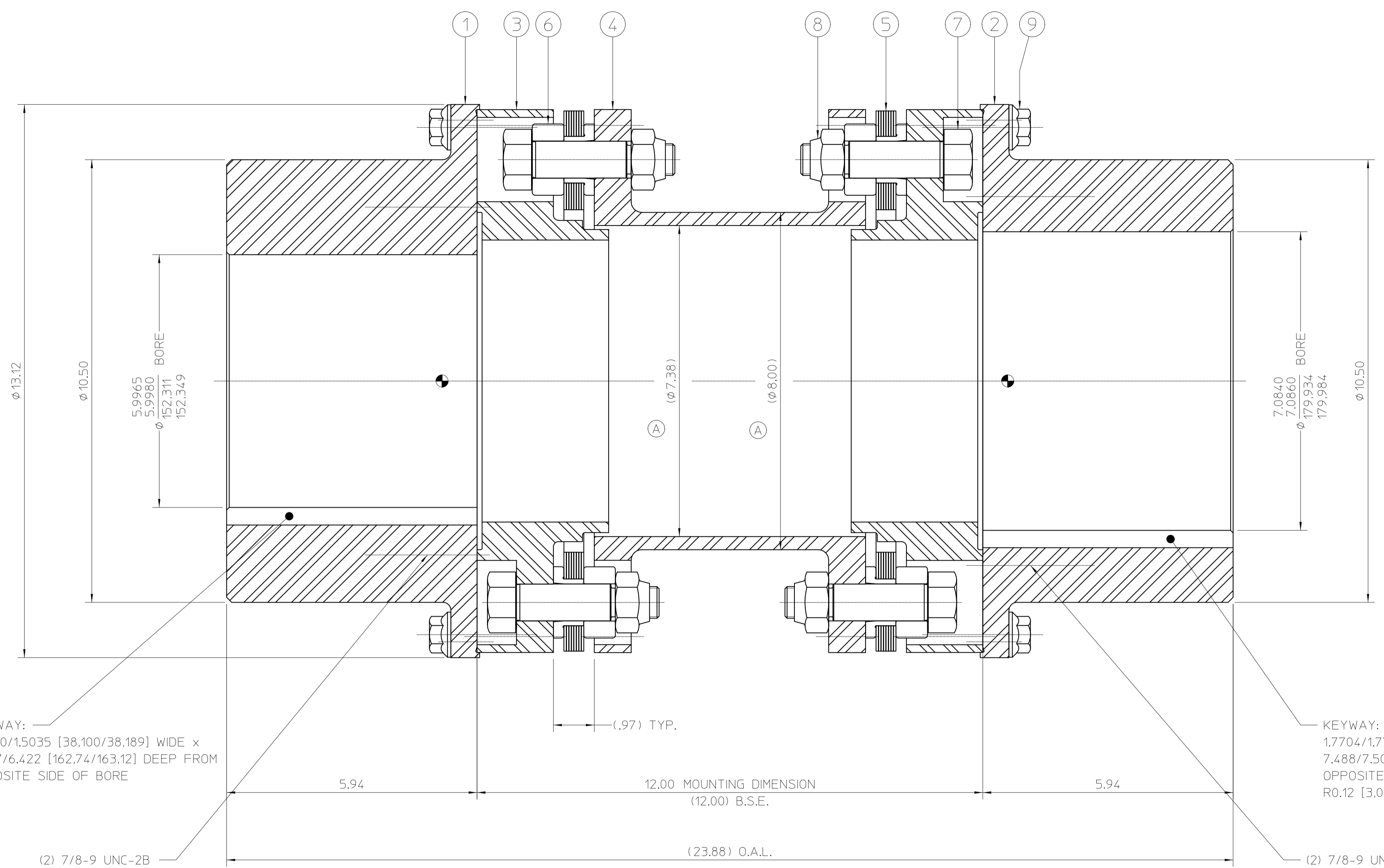


A	3-8-10	EC100308A

DRIVER END
GEARBOX BULL GEAR

DRIVEN END
GENERATOR



KEYWAY:
1.5000/1.5035 [38,100/38,189] WIDE x
6.407/6.422 [162,74/163,12] DEEP FROM
OPPOSITE SIDE OF BORE

KEYWAY:
1.7704/1.7729 [44,969/45,031] WIDE x
7.488/7.503 [190,20/190,58] DEEP FROM
OPPOSITE SIDE OF BORE WITH
R0.12 [3,05] IN CORNERS

REF ONLY:
SHAFT = ϕ 6.0005/5.9995 [152,412/152,388]
RESULTING FIT = 0.0040/0.0015 [0,102/0,038]

REF ONLY:
SHAFT = ϕ 7.089/7.088 [180,061/180,035]
RESULTING FIT = 0.0050/0.0020 [0,127/0,051]

TORSIONAL DATA (CALC.)

- WT.
TOTAL COUPLING = 360 lbs.
DRIVER END HUB = 105 lbs.
DRIVEN END HUB = 86.6 lbs.
CENTER MEMBER ASSY. = 163 lbs.
- WR²
TOTAL COUPLING = 8254 lbs.-in.²
DRIVER END HUB = 2068 lbs.-in.²
DRIVEN END HUB = 1863 lbs.-in.²
Kt = 18.1 x 10⁶ in.-lbs./radain
(INCLUDES 1/3 SHAFT PENETRATION FACTOR IN EACH HUB)
- CENTERLINE OF GRAVITY
DRIVER END = 190 lbs. AT 0.83 in. FROM SHAFT END TOWARDS EQUIPMENT
DRIVEN END = 170 lbs. AT 0.59 in. FROM SHAFT END TOWARDS EQUIPMENT

OPERATING DATA

- POWER = 3240 hp [2416 kW]
SPEED = 1500 rpm
TORQUE = 136,134 in.-lbs.
204,201 in.-lbs. (INCLUDES 150 SERVICE FACTOR)

COUPLING TORQUE DATA

- MAXIMUM CONTINUOUS = 246,400 in.-lbs.
PEAK OVERLOAD = 492,800 in.-lbs.
CALCULATED SERVICE FACTOR = 1.81

CAUTION NOTE

FLEX JOINT LOCKNUTS (ITEM 8; DWG. 16512) HAVE BEEN FACTORY TIGHTENED AND ARE NOT TO BE DISTURB WHEN ASSEMBLING OR DISASSEMBLING ON EQUIPMENT.

NOTES

- A) COUPLING DYNAMICALLY BALANCED PER SPEC. NO. 71630. (REF. COMPONENT BALANCE (4W/N) AND ASSEMBLY CHECK BALANCE (40W/N))
B) SPARE FLG. HEX HD. CAPSCREWS WEIGH BALANCED TO THE SAME BASE WEIGHT VALUES AS THOSE INSTALLED IN COUPLING.
- COUPLING FURNISHED WITH 316 STAINLESS STEEL BUSHED DISC PACKS.
- COUPLING HUBS, ADAPTERS, CENTER MEMBER AND HARDWARE FURNISHED ZINC PLATED.
- CERTIFICATE OF CONFORMANCE REQUIRED.

9	FLG. HEX HD. CAPSCREWS	32	65676-05	
8	LOCKNUTS	16	16512	SEE CAUTION NOTE
7	BOLTS	16	10918	
6	WASHERS	16	65675-01	
5	BUSHED DISC PACKS	2	65689	
4	CENTER MEMBER	1	65739-03	
3	ADAPTERS	2	65729	
2	HUB (DRIVEN)	1	71628	
1	HUB (DRIVER)	1	71627	

PARTS LIST

LOW SPEED COUPLING

GEOTHERMAL DEVELOPMENT ASSOCIATES
EBURRU 2.5 MW GEOTHERMAL POWER PROJECT, KENYA

CAD GENERATED DRAWING
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INCH mm OR [mm]	DR. MCH	2-1-10	SECTIONAL ASSEMBLY SPECIAL 500 SERIES 71-8 COUPLING	DRAWING NO.	71626
	DSGN.			PROPOSAL NO.	
	CHK.			ORDER NO.	05985T002
	SCALE	0.625 : 1			

71626