Don't you have any trouble and problem with Standard Master gear?

- Interference, Undercut, Worse measuring results

Sophisticated theoretic design enables the master gear '**Ms + GC**' type to keep up "Backlash, High-tooth, Profile shifted gear - addendum modification" and "Interference into fillet surface and bottom land " can be cleared. Furthermore,

The price is also lowered!

The latest master gear is **Multi-"Ms + GC**" for Gear rolling tester





High accuracy • Wider applicable measuring range • Keeping away from Interference into fillet surface and bottom land Price is also exciting!

Multi – "Ms + GC" Master Gear's Features

Master Gear ideally should be prepared respectively for each gear to be measured. Higher accuracy with more severe measurements requires each specific master gear. Made-to-order Master Gear will need over 30days for manufacturing and cost a few thousands US dollars. Speedy production of gears is always requiring quick delivery of Master Gear for inspection. Ready made Master Gear (standard master gear) limits applicable measuring range Simple and common gears will be measured with ready made master gears Backlash, addendum modification, Base tangent length (Tooth thickness), High-tooth, etc will not accept ready made Master Gears with standard gear specification. Ready made - Master gear is specified on standard gear. It means Tooth thickness is same as tooth space which is 1/2 of one pitch Addendum and dedendum is equal to module-mm and bottom clearance is 25% of module-mm On the other hand, Tooth thickness of any gear is always thinner than tooth space, which is essential for rotation of gears This concept is "Backlash" Due to backlash (Thinner tooth thickness), during double flank rolling test, teeth tips of both master gear and work gear get over " True involute form diameter" which is effective tooth flank length Measuring of unnecessary tooth flank will make worse measuring results Further more, extreme intruding will make interference into fillet surface and bottom land. Muli-"Ms+GC"-Master Gear will make clear above troubles For excessive gear specification, which can not covered with 'Ms+GC'-Master Gear, Custom-made Master gear will be necessary for the special .







Dimension

Under Code of AGMA 2000-A88 Grade : 3A

Module	No. of teeth	P.C.D.	
0.4	60	24.0	
0.5	76	38.0	
0.6	64	38.4	
0.7	54	37.8	
0.8	48	38.4	
0.9	42	37.8	
1.0	38	38.0	
1.25	30	37.5	
1.5	24	36.0	

Under Code of ISO 1328-2

[pressure angle 20 Bore dia. : 12.7mm Tooth width : 10mm Material : S45C]

JIS B1751-M00 [pressure angle 20 Bore dia.: 12.7mm Tooth width : 12.7mm Material : SUJ]

Module	P.C.D.	Module	P.C.D.	
0.1	30.0	0.15	25.5	
0.2	38.0	0.25	38.0	
0.3	38.4	0.35	38.5	
0.4	38.4	0.45	38.25	
0.5	38.0	0.55	38.5	
0.6	38.4	0.65	38.35	
0.7	38.5	0.75	38.25	
0.8	38.4	0.85	38.25	
0.9	37.8	0.95	38.0	
1.0	38.0	1.25	40.0	
1.5	51.0			

Accuracy of 'Ms + GC' Master Gears : H&G type

Ms-I /S[within Fi" : 5.5 μ mm] · **Ms-I /OO** [within Fi" : 7 μ mm] · **Ms-I /OO** [within Fi" : 8.0 μ mm]

GC-I: [within Fi": 9μ mm] · **GC-I**[within Fi": 10.5μ mm] · **GC-II**[within Fi": 12μ mm]

Work gears can be measured					Grades of Multi-"Ms + GC" Master Gears					
Features and specific gear data : Backlash and Interference					Accuracy of work gear	Very high	High	Ordinary +	Ordinary	
Tooth thickness	1/2xPitchx88%	High-	Addendum : m x 1.25	Addendum- modification	Coefficient : -0.25	Q - Type	Ms—I/S	Ms-1/00 &0	GC–I	GC−II/ II
	1/2xPitchx76%	tooth	Addendum : m x 1.50		Coefficient : -0.50	Н - Туре	Ms – I / S	Ms- I /00&0	GC–I	GC−II/Ⅲ
Under Code of AGMA 2000-A88 Grade & JIS B1751										

2 models of 'Ms + GC' master gears and 2 types of Q & H sizes cover wider applicable measuring range, inclusive of "Backlash, High-tooth, Profile shifted gear - addendum modification" and "Interference into fillet surface and bottom land " can be cleared.

Multi – "Ms + GC" Master Gear can be delivered promptly from stock



We are ready to supply every kind of master gears upon your requests, please send us your specific gear [drawings] for measuring with rolling tester We are also a manufacturer of Gear rolling tester [Double flank] Please contact us for inspection of gears.

T-MAX

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