

GTM Series Gearbox Ordering Method

Example:	G	T	M	1	8	0	-	N	N	1	-	0	0	5	A	-	N	N	0	9
----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

1. Gearbox Model

1.1 High-precision in-line planetary gear reducer = GTM

2. Output Flange Size

2.1 GTM Series (mm) = 060, 075, 100, 140, 180, 240

3. Output Shaft Direction/Orientation

3.1 Solid Shaft (standard) = NN

4. Number of Stages

4.1 GTM Single-Stage Ratio: 4, 5, 7, 10 = 1

4.2 GTM Two-Stage Ratio: 20, 50 = 2

5. Reduction Ratio

5.1 Example 5:1 = 005

6. Keyway/Backlash Options

6.1 Shaft w/keyway; Standard backlash = A

6.2 Smooth shaft; Standard backlash = B

6.3 Shaft w/keyway; Reduced backlash = C

6.4 Smooth shaft; Reduced backlash = D

7. Motor Designation

7.1 Bosch Rexroth Motors

7.2 Third Party Motors

GTMZ Series Gearbox Ordering Method

Example:	G	T	M	Z	1	8	0	-	N	N	1	-	0	0	5	A	-	N	N	0	9
----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

1. Gearbox Model

1.1 High-precision in-line planetary gear reducer = GTMZ

2. Output Flange Size

2.1 GTMZ Series (mm) = 060, 075, 100, 140, 180, 240

3. Output Shaft Direction/Orientation

3.1 Solid Shaft (standard) = NN

4. Number of Stages

4.1 GTMZ Single-Stage Ratio: 3, 4, 5, 7, 10 = 1

4.2 GTMZ Two-Stage Ratio: 20, 25, 35, 40, 50, 70, 100 = 2

5. Reduction Ratio

5.1 Example 5:1 = 005

6. Keyway/Backlash Options

6.1 Shaft w/keyway; Standard backlash = A

6.2 Smooth shaft; Standard backlash = B

6.3 Shaft w/keyway; Reduced backlash = C

6.4 Smooth shaft; Reduced backlash = D

7. Motor Designation

7.1 Bosch Rexroth Motors

7.2 Third Party Motors

GTMG Series Gearbox Ordering Method

Example:	G	T	M	G	1	8	0	-	N	N	1	-	0	0	5	A	-	N	N	0	9
----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

1. Gearbox Model

1.1 High-precision in-line planetary gear reducer = GTMG

2. Output Flange Size

2.1 GTMG Series (mm) = 140, 180

3. Output Shaft Direction/Orientation

3.1 Solid Shaft (standard) = NN
Coupling Style Output = CS

4. Number of Stages

4.1 GTMG Single-Stage Ratio: 3, 4, 5, 7, 10 = 1
4.2 GTMG Two-Stage Ratio: 16, 20, 28, 40, 50, 70, 100 = 2

5. Reduction Ratio

5.1 Example 5:1 = 005

6. Keyway/Backlash Options

6.1 Shaft w/keyway; Standard backlash = A
6.2 Smooth shaft; Standard backlash = B
6.3 Shaft w/keyway; Reduced backlash = C
6.4 Smooth shaft; Reduced backlash = D

7. Motor Designation

7.1 Bosch Rexroth Motors
7.2 Third Party Motors

7.1 Bosch Rexroth Motors

Motor		Gearbox					
		GTM060	GTM075	GTM100	GTM140	GTM180	GTM240
MSK	030	NN02					
	040	NN03	NN03				
	050		NN20	NN20	NN20		
	060		NN21	NN21	NN21	(NN21)	
	061		(NN05)	(NN05)			
	070			NN16	NN16	NN16	
	071			NN16	NN16	NN16	
	076		(NN06)	(NN06)	(NN06)	(NN06)	
	100			(NN09)	NN09	NN09	
101				NN19	NN19		
MKE	037	NN13					
	047	NN14	NN14				
	098		(NN06)	NN06	NN06	(NN06)	
	118			(NN09)	NN09	NN09	
MAD	100			(NN09)	NN09	NN09	
	130					NN11	NN11
	160						NN12
	180						
	225						
MAF	100				(NN08)	NN08	
	130					NN11	NN11
	160						
	180						
	225						
MHD	041	NN03	NN03	NN03			
	071		NN05	NN05	NN05		
	090		(NN06)	NN06	NN06	(NN06)	
	093			NN16	NN16	NN16	
	095			NN16	NN16	NN16	
	112			(NN09)	NN09	NN09	
	115				NN19	NN19	
	131					NN15	NN15
MKD	025	NN02					
	041	NN03	NN03	NN03			
	071		NN05	NN05	NN05		
	090		(NN06)	NN06	NN06	(NN06)	
	112			(NN09)	NN09	NN09	
2AD / ADP	104			(NN09)	NN09	NN09	
	134					NN11	NN11
	164						NN12
	184						
	200						
	225						
	280						
KSD	061						
	071						
	076						
MHP	041	NN03	NN03				
	071		NN05	NN05	NN05		
	090		(NN06)	NN06	NN06	(NN06)	
	093			NN16	NN16	NN16	
	095			(NN16)	(NN16)	(NN16)	
	112			(NN09)	NN09	NN09	
	115				NN19	NN19	

NNxx: only single stage available (NNXX): additional mounting option

Sample: GTM140-NN1-010A-**NN20** = MSK050 Motor

The combinations described are general suggestions. The final selection should be based on the specific application.

7.2 Third Party Motors

Shaft Diameter (mm)	Type-Code	Shaft Diameter (in)	Type-Code
3	03	1/8	IA
4	04	3/16	IB
5	05	1/4	IC
6	06	5/16	ID
7	07	3/8	IE
8	08	1/2	IF
9	09	5/8	IG
10	10	3/4	IH
11	11	7/8	II
12	12	1 1/8	IJ
14	14	1 3/8	IK
16	16	1 5/8	IL
19	19	1 7/8	IM
22	22	2 1/8	IN
24	24	2 3/8	IO
28	28	2 7/8	IP
32	32	TBD	IQ
etc.	etc.	etc.	etc.

Sample:

Use "28" for 28 mm, etc.

GTM140-NN1-010A-**28**BB = 28 mm shaft and "GTM140-BB" flange

Use "J" for 1 1/8" (I = "Imperial" or "Inch), etc.

GTM140-NN1-010A-**J**BB = 1 1/8" shaft and "GTM140-BB" flange