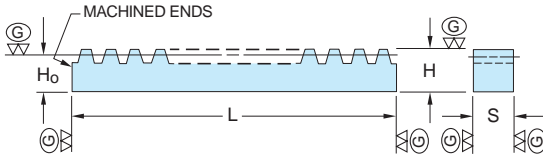
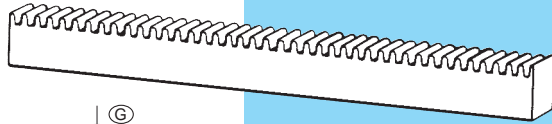


■ ISO CLASS 5

■ 20° PRESSURE ANGLE

■ GROUND TEETH



MATERIAL: AISI 1045 Steel
HARDNESS: HRC 27... 32

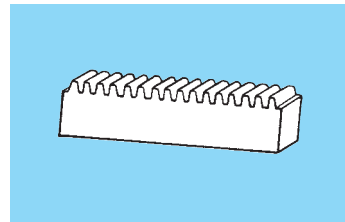
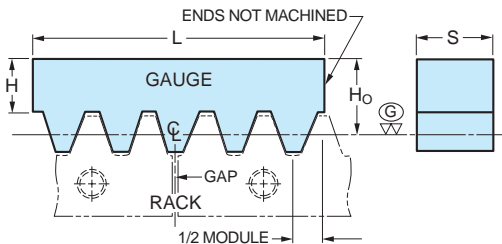
Catalog Number	Module	No. of Usable Teeth	S Face Width h8	H Height h8	H ₀ Pitch Distance	L Stock Length mm
S18C05M128P0812G	0.5	128			11.5	
S18C08M080P0812G	0.8	80	8	12	11.2	201.06
S18C10M096P1015G	1	96	10	15	14	301.59
S18C15M064P1520G	1.5	64	15	20	18.5	

See index for ground spur gears.

■ ISO CLASS 5

■ 20° PRESSURE ANGLE

■ GROUND TEETH



MATERIAL: AISI 1045 Steel
HARDNESS: HRC 27... 32

Catalog Number	Module	1/2 Module		No. of Teeth	S Face Width h8	H Height h8	H ₀ Pitch Distance	L Stock Length approx.
		Dim.	Tolerance					
S18C05MGAGE-G	0.5	0.785	-0.02, -0.08	29			11.5	45.3
S18C08MGAGE-G	0.8	1.256	-0.03, -0.12	18	8	12	11.2	44.9
S18C10MGAGE-G	1	1.57	-0.03, -0.12	14	10	15	14	43.6
S18C15MGAGE-G	1.5	2.356	-0.04, -0.16	9	15	20	18.5	41.9

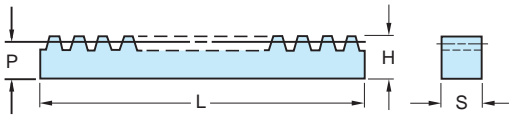
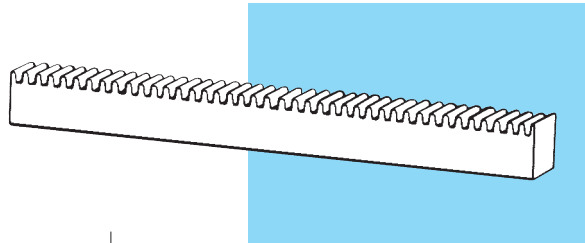
Tolerance h8: 8 & 10 mm -0.022
12 & 15 mm -0.027
20 mm -0.033

See index for ground spur gears.



■ ISO CLASS 8

■ 20° PRESSURE ANGLE



QUALITY CLASS

Catalog Number	Module	Material	S Face Width	H Height mm	P Pitch Height	L Length mm
A 1C12MY04A075	0.4	Steel	4.8	9.5	9.13	75
A 1C12MY04A150						150
A 1C12MY04A300						300
A 1B12MY04A075		Brass	4.8	9.5	9.13	75
A 1B12MY04A150						150
A 1B12MY04A300						300
A 1C12MY04B075		Steel	4.8	4.8	4.34	75
A 1C12MY04B150						150
A 1C12MY04B300						300
A 1B12MY04B075		Brass	4.8	4.8	4.34	75
A 1B12MY04B150						150
A 1B12MY04B300						300
A 1P12MY04C075	Nylon	6.3	6.3	5.94	75	
A 1P12MY04C150					150	
A 1P12MY04C300					300	
A 1C12MY05A075	0.5	Steel	4.8	9.5	9.03	75
A 1C12MY05A150						150
A 1C12MY05A300						300
A 1B12MY05A075		Brass	4.8	9.5	9.03	75
A 1B12MY05A150						150
A 1B12MY05A300						300
A 1C12MY05B075		Steel	4.8	4.8	4.26	75
A 1C12MY05B150						150
A 1C12MY05B300						300
A 1B12MY05B075		Brass	4.8	4.8	4.26	75
A 1B12MY05B150						150
A 1B12MY05B300						300
A 1P12MY05C075	Nylon	6.3	6.3	5.85	75	
A 1P12MY05C150					150	
A 1P12MY05C300					300	

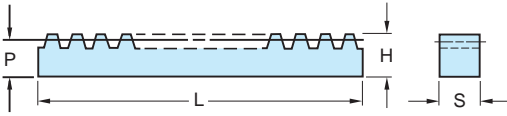
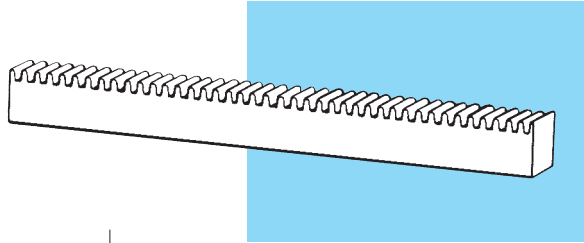


■ ISO CLASS 8

■ 20° PRESSURE ANGLE

1

GEARS



QUALITY CLASS

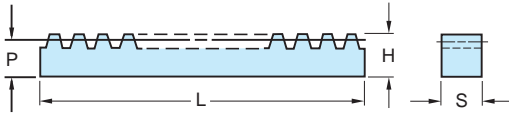
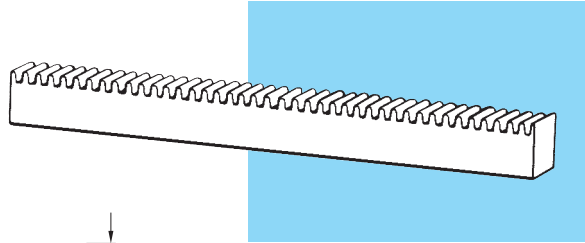
Catalog Number	Module	Material	S Face Width	H Height mm	P Pitch Height	L Length mm
A 1C12MY08A075	0.8	Steel	6.3	12.7	11.90	75
A 1C12MY08A150						150
A 1C12MY08A300						300
A 1B12MY08A075		Brass	6.3	12.7	11.90	75
A 1B12MY08A150						150
A 1B12MY08A300						300
A 1C12MY08B075		Steel	6.3	6.3	5.56	75
A 1C12MY08B150						150
A 1C12MY08B300						300
A 1B12MY08B075		Brass	6.3	6.3	5.56	75
A 1B12MY08B150						150
A 1B12MY08B300						300
A 1P12MY08B075	Nylon	6.3	6.3	5.56	75	
A 1P12MY08B150					150	
A 1P12MY08B300					300	
A 1C12MY10B150	1	Steel	7.9	15.9	14.88	150
A 1C12MY10B300						300
A 1C12MY10B600						600
A 1B12MY10B150		Brass	7.9	15.9	14.88	150
A 1B12MY10B300						300
A 1B12MY10B600						600
A 1C12MY10C150		Steel	7.9	7.9	6.94	150
A 1C12MY10C300						300
A 1C12MY10C600						600
A 1B12MY10C150		Brass	7.9	7.9	6.94	150
A 1B12MY10C300						300
A 1B12MY10C600						600
A 1P12MY10A150	Nylon	9.5	9.5	8.53	150	
A 1P12MY10A300					300	
A 1P12MY10A600					600	



METRIC

Racks – Mod. 0.3, 0.5, 0.75, 0.8 & 1

- ISO CLASS 8
- 20° PRESSURE ANGLE
- BRASS, STAINLESS STEEL & STEEL



QUALITY CLASS

1 GEARS

Catalog Number	Module	Material	S Face Width	H Height	P Pitch Height	L Length mm	
A 1B12MYK03200	0.3	Brass	3	8	7.7	200	
A 1B12MYK05200	0.5	Brass	3	8	7.5	200	
A 1B12MYKW05200			8	8	7.5	200	
A 1B12MYK05500			8	10	9.5	505	
A 1X12MYK05200		Stainless Steel	3	10	9.5	200	
A 1X12MYKW05200			8	8	7.5	200	
A 1X12MYK05500			8	10	9.5	505	
A 1B12MYKH7200	0.75	Brass	3	8	7.25	200	
A 1B12MYKH7500			3	10	9.25	505	
A 1B12MYKWH7200			8	8	7.25	200	
A 1B12MYKWH7500			8	10	9.25	505	
A 1X12MYKH7200		Stainless Steel	3	10	9.25	200	
A 1X12MYKWH7200			8	8	7.25	200	
A 1X12MYKH7500			8	10	9.25	505	
A 1B12MYK08500		0.8	Brass	5	10	9.2	505
A 1B12MYK08200				7	7	6.2	200
A 1B12MYKW08500	7			10	9.2	505	
A 1X12MYK08500	Stainless Steel		5	10	9.2	505	
A 1X12MYK08200			7	7	6.2	200	
A 1X12MYKW08500			7	10	9.2	505	
A 1C12MYK10300	1	Steel		10	9	300	
A 1C12MYK10500			10	10	9	500	
A 1C12MYK101000				15	14	1021	
A 1X12MYK10500		Stainless Steel	8			500	
A 1X12MYK10300			10	10	9	300	
A 1X12MYKW10500			10			500	



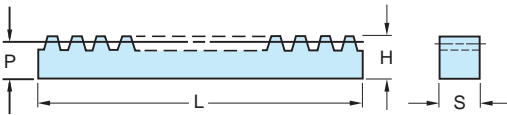
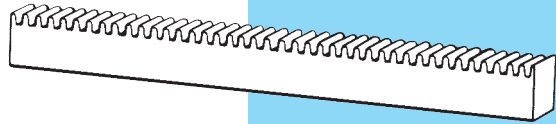
■ ISO CLASS 8

■ 20° PRESSURE ANGLE

■ STEEL & STAINLESS STEEL

1

GEARS



QUALITY CLASS

Catalog Number	Module	Material	S Face Width	H Height	P Pitch Height	L Length mm
A 1C12MYK15300	1.5	Steel	16	16	14.5	300
A 1C12MYKW15500						500
A 1C12MYK151000		Stainless Steel	16	16	14.5	1008.5
A 1C12MYK15500						500
A 1X12MYK15300	2	Steel	20	20	18	300
A 1X12MYK15500						500
A 1X12MYK151000		St. Steel	14	20	18	1005.3
A 1C12MYK20300	500					
A 1C12MYK20500	1005.3					
A 1C12MYKW201000	2.5	Steel	25	25	22.5	300
A 1C12MYK201000						500
A 1X12MYK201000		Steel	18	25	22.5	1005.3
A 1C12MYK25300	1005.3					
A 1C12MYK25500	3	Steel	30	30	27	300
A 1C12MYKW251000						500
A 1C12MYK251000		Steel	22	30	27	1008.5
A 1C12MYK30300	1008.5					
A 1C12MYK30500	1008.5					
A 1C12MYKW301000						1008.5
A 1C12MYK301000						1008.5

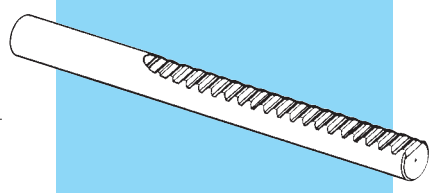
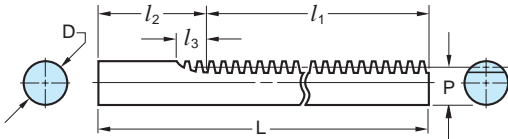
Did You Know?

... That SUPER-PLAST® plastic gears reinforced with metal inserts are available from stock exclusively from SDP?

■ ISO CLASS 9

■ 20° PRESSURE ANGLE

■ STAINLESS STEEL



MATERIAL: 304 Stainless Steel

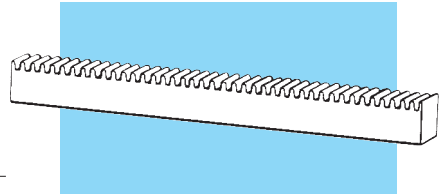
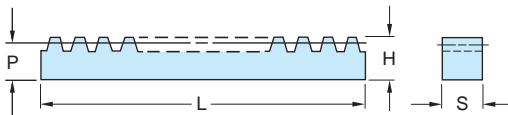
Catalog Number	Module	D h7 -0.015	P Pitch Height	l_1	l_2 Ref.	l_3	L Length mm ± 1
S181YYM0508200	0.5		7.5	149	53	10.7	
S181YYM0758200	0.75	8	7.25	148	54	13	202
S181YYM0808200	0.8		7.2	148	54	13.4	
S181YYM100A300	1	10	9	238	67	15	305



■ 20° PRESSURE ANGLE

■ MOLDED

■ MACHINED

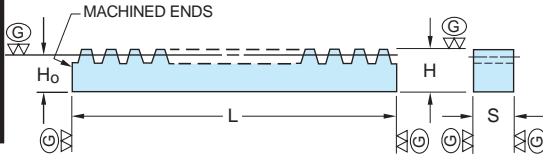
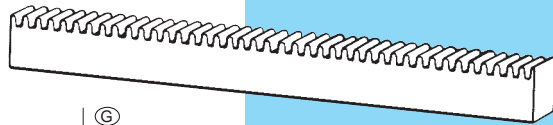


Catalog Number	Module	Material	S Face Width	H Height mm	P Pitch Height	L Length mm	
A 1M12MYZ0525	0.5	Acetal (Molded)	4	4.5	4	250	
A 1M12MYZ0525A				6	5.5		
A 1M12MYZ0725	6		6.7	6			
A 1M12MYZ1025	1		9	8	250		
A 1M12MYZ1225	1.25		10	9.75			
A 1M12MYZ1525	1.5		12	12	10.5		
A 1M12MYZ2025	2		15.4	11	9	250	
A 1M12MYZ3025	3		19.4	15	12		
A 1M12MYH10500	1		Nylon (machined)	10	12	11	500
A 1M12MYH15500	1.5			15	20	18.5	
A 1M12MYH201000	2	20		25	23		
A 1M12MYH251000	2.5	25		30	27.5	1000	
A 1M12MYH301000	3	30		35	32		

■ ISO CLASS 5

■ 20° PRESSURE ANGLE

■ GROUND TEETH



MATERIAL: AISI 1045 Steel
HARDNESS: HRC 27... 32

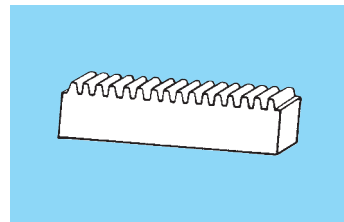
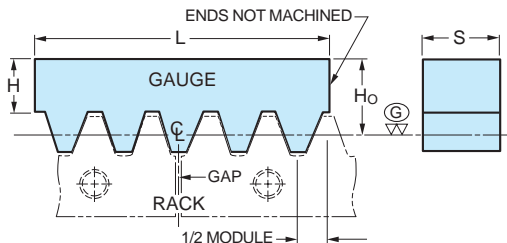
Catalog Number	Circular Pitch	No. of Usable Teeth	S Face Width h8	H Height h8	H ₀ Pitch Distance	L Stock Length mm
S18CCPM020P100G	2	100	8	12	11.364	200
S18CCPM050P060G	5	60	15	20	18.409	300

See index for ground circular pitch spur gears.

■ ISO CLASS 5

■ 20° PRESSURE ANGLE

■ GROUND TEETH



MATERIAL: AISI 1045 Steel
HARDNESS: HRC 27... 32

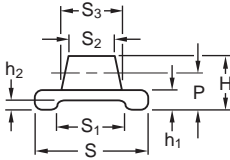
Catalog Number	Circular Pitch	1/2 Module		No. of Teeth	S Face Width h8	H Height h8	H ₀ Pitch Distance	L Stock Length mm
		Dim.	Tolerance					
S18CCPM020GAGE-G	2	1	-0.02, -0.08	23	8	12	11.364	45.7
S18CCPM050GAGE-G	5	2.5	-0.04, -0.16	8	15	20	18.409	39.4

Tolerance h8:
8 mm -0.022
12 & 15 mm -0.027
20 mm -0.033

See index for ground circular pitch spur gears.

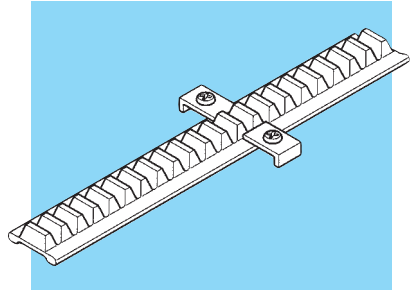


■ 20° PRESSURE ANGLE



Resistant to:

- Weak Acids & Alkalis
- Oil, Grease, Gasoline
- Alcohol, Ketones



Rack Clamps Shown Are Optional.
See Below.

Working Temperature: 100°C (212°F)

Intermittent Use: 149°C (300°F)

MATERIAL: Acetal - Blue

Catalog Number	Mod.	Stock* Length mm	S	S ₁	S ₂	S ₃	h ₁	P	H	h ₂	Minimum Bend Radius	
											Int. (R _i)	Ext. (R _e)
A 1M12MYHF082000	0.8	2000 (78.7)	8 (.31)	3.7 (.15)	3 (.12)	3.8 (.15)	1.5 (.06)	2.5 (.098)	3.3 (.130)	0.7 (.03)	75 (3.0)	75 (3.0)
A 1M12MYHF102000	1		10 (.39)	4.9 (.19)	4 (.16)	5 (.20)	2 (.08)	3.3 (.130)	4.3 (.169)	0.9 (.04)	85 (3.3)	125 (4.9)
A 1M12MYHF152000	1.5		12 (.47)	8 (.31)	5 (.20)	6.5 (.26)	2.3 (.09)	4.2 (.165)	5.7 (.224)	1 (.04)	100 (3.9)	150 (5.9)
A 1M12MYHF202000	2		15 (.59)	10.1 (.40)	6 (.24)	8 (.31)	2.5 (.10)	5 (.197)	7 (.276)	1.1 (.04)	125 (4.9)	175 (6.9)

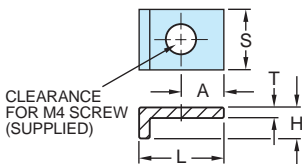
*Longer lengths up to 50 meters available on special request.

Dimensions in () are inch.

NOTE: To use the molded flexible rack with a 20 tooth pinion, the radius of curvature for an external or internal arc must be greater than 150 mm.



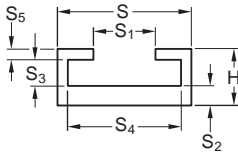
MATERIAL: Steel - Plated



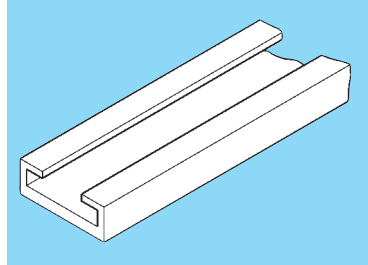
Catalog Number	For Rack Mod.	L	S	A	H	T
A 1C12MHC1	0.8	10.2	8 (.32)	4.5	2.7	1.2
	1	(.40)		(.18)	(.11)	(.047)
A 1C12MHC2	1.5	11.4	8 (.32)	5.6	3.9	1.4
	2	(.45)		(.22)	(.15)	(.055)



■ ALUMINUM



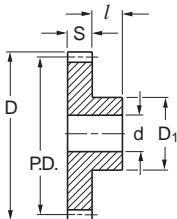
■ PLASTIC



Guide rail standard lengths are 1000 mm (39.37") long.
Dimensions in () are inch.

Catalog Number	For Rack Module	S	S ₁	H	S ₂	S ₃	S ₄	S ₅
• ALUMINUM		MATERIAL: Extruded Aluminum						
A 1A12MHR081000	0.8	10.3 (.406)	4.5 (.18)	4.8 (.19)	1.8 (.070)	1.8 (.070)	8.4 (.330)	1 (.036) Ref.
A 1A12MHR101000	1	12.3 (.484)	5.7 (.22)	5.2 (.20)	1.8 (.070)	2.4 (.094)	10.4 (.410)	
A 1A12MHR151000	1.5	14.3 (.563)	7.2 (.28)	5.4 (.21)	1.8 (.070)	2.7 (.106)	12.4 (.487)	
A 1A12MHR201000	2	17.3 (.681)	8.9 (.35)	6.1 (.24)	2.3 (.092)	2.9 (.113)	15.4 (.605)	
• PLASTIC		MATERIAL: Extruded Flexible Nylon						
A 1M12MHR081000	0.8	11 (.43)	4 (.16)	5.1 (.20)	1.5 (.06)	2.1 (.083)	8 (.313)	1.5 (.06)
A 1M12MHR101000	1	13.1 (.52)	5.3 (.21)	5.3 (.21)	1.5 (.06)	2.3 (.090)	9.8 (.387)	1.9 (.07)
A 1M12MHR151000	1.5	16.1 (.64)	7 (.28)	7.1 (.28)	1.9 (.07)	3.2 (.125)	12.3 (.484)	
A 1M12MHR201000	2	20.6 (.81)	8 (.31)	7.1 (.28)	1.9 (.07)	3.6 (.140)	16.8 (.660)	

NOTE: Longer lengths in nylon available on request.



MATERIAL: Acetal

Catalog Number	Module	No. of Teeth	P.D.	D	d Bore	S Face Width	D ₁ Hub Dia.	l Hub Proj.
A 1M 2MYHF08032	0.8	32	25.6	27.2	6	4	12	5
A 1M 2MYHF10032	1		32	34	6	5	14	6
A 1M 2MYHF15024	1.5	24	36	39	8	6	18.3	11
A 1M 2MYHF20024	2		48	52	10	8	24.5	12