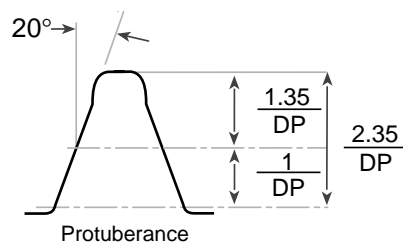
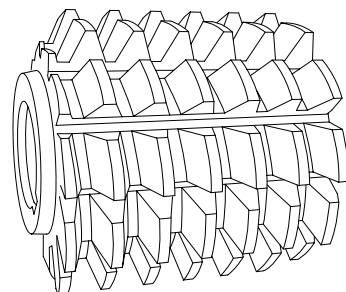


HPG20 SERIES DP, 20° PA

Diam. Pitch	O.D.	Length	Bore	Whole Depth	Specify Class A, B, C, D
1	11	15	2-1/2	2.35	HPG20-100
1-1/4	9	12	2	1.880	HPG20-125
1-1/2	8	10	2	1.5667	HPG20-150
1-3/4	7-1/4	8-1/2	2	1.3429	HPG20-175
2	6	8	1-1/2	1.175	HPG20-200
2-1/2	5	6	1-1/2	.940	HPG20-250
3	4-1/2	5	1-1/4	.7833	HPG20-300
3-1/2	4-1/4	4-3/4	1-1/4	.6714	HPG20-350
4	4	4	1-1/4	.5875	HPG20-400
4-1/2	3-1/2	3-1/2	1-1/4	.5222	HPG20-450
5	3-1/2	3-1/2	1-1/4	.470	HPG20-500
6	3-1/2	3-1/2	1-1/4	.3917	HPG20-600
6-1/2	3	3	1-1/4	.3615	HPG20-650
7	3	3	1-1/4	.3357	HPG20-700
8	3	3	1-1/4	.2938	HPG20-800
9	3	3	1-1/4	.2611	HPG20-900
10	1-7/8	1-7/8	3/4	.235	HPG20-010S
10	3	3	1-1/4	.235	HPG20-010
12	1-7/8	1-7/8	3/4	.1958	HPG20-012S
12	2-3/4	2-3/4	1-1/4	.1958	HPG20-012
14	1-7/8	1-7/8	3/4	.1679	HPG20-014S
14	2-1/2	2-1/2	1-1/4	.1679	HPG20-014
16	1-7/8	1-7/8	3/4	.1469	HPG20-016S
16	2-1/2	2-1/2	1-1/4	.1469	HPG20-016
18	1-7/8	1-7/8	3/4	.1306	HPG20-018S
18	2-1/2	2	1-1/4	.1306	HPG20-018
20	2-1/2	2	3/4	.1220	HPG20-020S
20	2-1/2	2	1-1/4	.1220	HPG20-020
24	2-1/2	2	3/4	.1020	HPG20-024S
24	2-1/2	2	1-1/4	.1020	HPG20-024

Pregrind, Single Thread Right Hand Non-Chamfering



For left hand hob, inquire on HPGL20 Series.

20° PRESSURE ANGLE PREGRIND HOB TOOTH DESIGN (thousands of an inch)

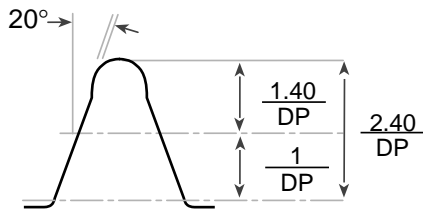
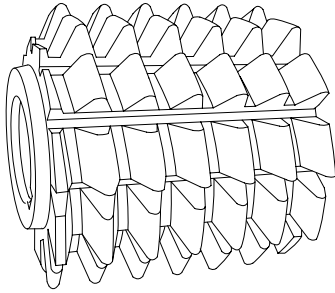
NDP	Thin	Prot.
2	14-18	7.5-10.5
2.5	13-16	7-9
3	12-15	6.5-8.5
3.5	12-14	6.5-8
4	12-14	6.5-8
4.5	11-13	5.7-7.5
5	10-12	5.5-7
6	10-12	5.5-7
7	10-12	5.5-6.8
8	10-11	5.5-6.2
9	10-11	5-6
10	10-11	5-6
11	10-11	5-6
12	10-11	5-6
13	9-10	4.5-5.5
14	9-10	4.5-5.5
16	8-9	4-5
18	7-8	3.5-4.5
20-23	6-7	3-4
24-31	5-6	2.5-3.5
32-48	5-6	2.5-3.5

Pregrind hobs with chamfering right hand or left hand and pregrind full fillet hobs in stock. Please call for quotation.

Premium Steel
PM M45 & M42 In Stock!!

HPGR20 SERIES DP, 20° PA

**Full Fillet, Pregrind
Protuberance
Single Thread, Right Hand
Non-Chamfering**



Protuberance and Radius
20DP & finer WD = 2.4/DP + .002

**Premium Steel
PM M45 & M42 In Stock!!**

Diam. Pitch	O.D.	Length	Bore	Whole Depth	Specify Class A, B, C, D
1	11-1/4	15	2-1/2	2.40	HPGR20-100
1-1/4	9-1/4	12	2	1.920	HPGR20-125
1-1/2	8-1/4	10	2	1.600	HPGR20-150
1-3/4	7-1/2	8-1/2	2	1.3714	HPGR20-175
2	6-1/4	8	1-1/2	1.200	HPGR20-200
2-1/2	5 1/4	6	1-1/2	.960	HPGR20-250
3	4-1/2	5	1-1/4	.800	HPGR20-300
3-1/2	4-1/4	4-3/4	1-1/4	.6857	HPGR20-350
4	4	4	1-1/	.600	HPGR20-400
4-1/2	3-1/2	3-1/2	1-1/4	.5333	HPGR20-450
5	3-1/2	3-1/2	1-1/4	.480	HPGR20-500
6	3-1/2	3-1/2	1-1/4	.400	HPGR20-600
7	3	3	1-1/4	.3429	HPGR20-700
8	3	3	1-1/4	.300	HPGR20-800
9	3	3	1-1/4	.2667	HPGR20-900
10	1-7/8	1-7/8	3/4	.240	HPGR20-010S
10	3	3	1-1/4	.240	HPGR20-010
11	2-3/4	2-3/4	1-1/4	.2182	HPGR20-011
12	1-7/8	1-7/8	3/4	.200	HPGR20-012S
12	2-3/4	2-3/4	1-1/4	.200	HPGR20-012
14	1-7/8	1-7/8	3/4	.1714	HPGR20-014S
14	2-1/2	2-1/2	1-1/4	.1714	HPGR20-014
16	1-7/8	1-7/8	3/4	.150	HPGR20-016S
16	2-1/2	2-1/2	1-1/4	.150	HPGR20-016
18	1-7/8	1-7/8	3/4	.1333	HPGR20-018S
18	2-1/2	2	1-1/4	.1333	HPGR20-018
20	1-7/8	1-1/2	3/4	.122	HPGR20-020S
20	2-1/2	2	1-1/4	.122	HPGR20-020
24	1-7/8	1-1/2	3/4	.102	HPGR20-024S
24	2 1/2	2	1-1/4	.102	HPGR20-024
28	1-7/8	1-1/2	3/4	.0877	HPGR20-028S
32	1-7/8	1-1/2	3/4	.077	HPGR20-032S
40	1-7/8	1-1/2	3/4	.062	HPGR20-040S
48	1-7/8	1-1/2	3/4	.052	HPGR20-048S

**Pregrind
Cut Down Size**

CHPGR20 SERIES

Same as HPGR20 Series, except cut down size. Please phone for a quotation.

**Pregrind
Full Fillet Left Hand**

HPGRL20 SERIES

Same as HPGR20 Series, except left hand. Please phone for a quotation.

**Pregrind
Full Fillet Chamfering**

HPGRC20 SERIES

Same as HPGR20 Series, except chamfering. Please phone for a quotation.