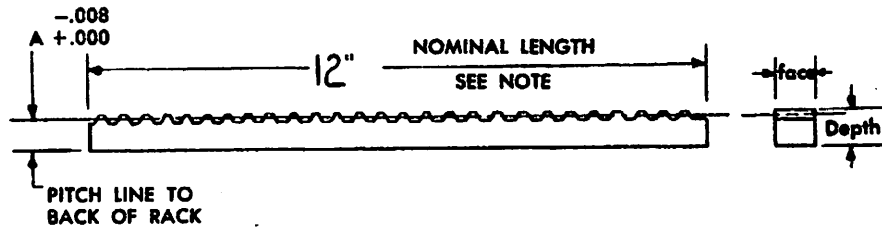


Gears

Gear Racks

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.



14½° PRESSURE ANGLE						
PART NO.	PITCH	CIRCULAR PITCH	TEETH	'A'	FACE	DEPTH
N1247-1"	16	.1963	62	1/4"	5/16"	5/16"
N1247-2	24	.1309	92	13/64	1/4	1/4
N1247-3	32	.0982	123	3/16	3/16	3/16
N1247-4	48	.0654	184	7/64	1/8	1/8

16 pitch racks are recessed 3/32" deep on both sides, allowing a 1/8"-wide rib down the center of rack. Cross ribs at 2" intervals will permit easy drilling and fastening.

Note: 12" length is a nominal size. Racks are molded in proper lengths to permit end to end butting without interruption of tooth spacing. Unlimited, continuous lengths of rack are thus possible.

Nylomatic

Fallsington, Pennsylvania

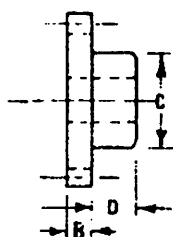
Gears

16 Pitch Spur Gears

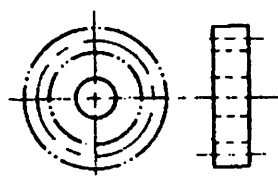
- Standard material is Dupont #101 Nylon, natural color.
- Prices subject to change without notice.

16 Pitch

 Actual
 Tooth Size



STYLE H



STYLE NH

14½° PRESSURE ANGLE								
PART NO	P.A	TEETH	HOLE A	P.D	STYLE	HUB		FACE B
						DIA. C.	PROJ D	
N5793	14½	12	1/4	.750	H	7/16	.028	.225
N5626	14½	20	1/2	1.25	H	7/8	1/2	.300
N6171	14½	30	63/64	1.875	H	1 19/32	1/2	.875
N1004-1	14½	36	3/8	2.25	H	3/4	3/8	.320
N1109*	14½	42	13/32	2.625	H	1 5/8	1/4	.625
N1143A	14½	42	55/64	2.625	H	1 3/8	1/4	5/8

20° PRESSURE ANGLE								
N5896	20	12	.192	.750	NH	—	—	.095
N6589	14½	16	1/4	1.000	H	3/4	5/16	.375
N6693	20	30	1/4	1.875	H	1	19/64	.379
N6817	20	30	.257 D	1.875	H	1	1/8	.379
N6209	20	30	.367	1.875	H	1	1/2	.379
N1166	20	34	.365	2.12	H	1	.510	.375
N1165	20	76	1/2	4.75	H	7/8	1/4**	3/8
N1126	20	80	1/2	5.00	H	7/8	1/4**	3/8

* Has a .126 wide keyway

□ Available only in glass filled Delrin Mat.

** Has a 1/4" extension each side

□ Has recessing

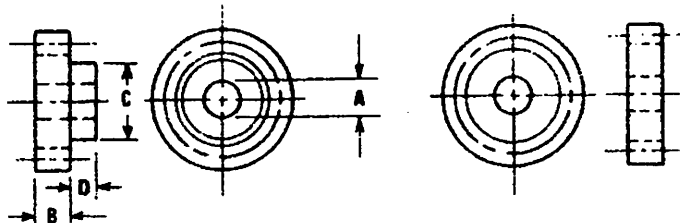
Nylomatic

Gears

24 Pitch Spur Gears

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.

24 Pitch



STYLE H

STYLE NH

14½° PRESSURE ANGLE							
PART NO	TEETH	P. D.	HOLE A	STYLE	FACE B	HUB DIA. C	PROJ. D
N6004	12	500	250 x 192(D)	H	.256	.398	.188
N5828-12	12	500	1/4	H	.318	.370	1/4
N5602-1	15	.625	1/4	NH	.220	—	—
*N7410A	15	.625	1/4	H	.219	7/16	3/16
N2045-1	18	.75	250 x 192(D)	H	1/4	1/2	3/16
N2045-2	18	.75	1/4	H	1/4	1/2	3/16
N2045-3	18	.75	1/4	H	1/4	.442	7/16
N2045-4	18	.75	1/4	H	1/4	1/2	.095
N2045-5	18	.75	1/4	H	1/4	1/2	1/4
N5851	18	.75	250 x 215(D)	H	1/4	.493	1/4
N240	21	.875	.307 x .323(D)	H	1/4	5/8	5/16
N297	24	1.00	1/4	H	1/4	5/8	3/16
N5515	24	1.00	1/4	H	1/4	5/8	3/8
N417	27	1.125	3/4	H	.183	.628	.006
N6290	36	1.500	1/4	NH	.093	—	—
N5425	40	1.667	1/8	H	.047	1/2	1/8
N1044	84	3.50	3/8	H	.325	.850	.230
20° PRESSURE ANGLE							
N6530	18	.75	.304	H	1/4	1/2	1/8
N6724	21	.875	1/8	H	1/4	1/2	.310
N5774	24	1.00	1/4	NH	3/8	—	—
N5827	28	1.167	3/8	H	1/16	7/16	1/4
N6856	34	1.417	1/2	NH	.405	—	—
N6274	36	1.50	1/4	H	1/8	3/8	1/16
N5775	36	1.50	3/10	H	3/8	.738	1/4

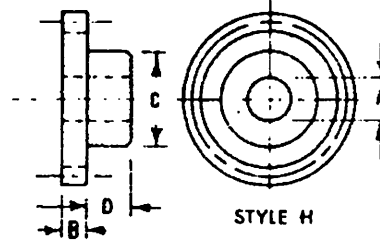
* Also has thru hub .096 wide x 5/32 deep.

Nylomatic

Gears

32 Pitch Spur Gears-with Hubs

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.



14½ PRESSURE ANGLE							
PART NO.	TEETH	P.D.	HOLE A	STYLE	FACE B	HUB	
						DIA. C	PROJ. D.
N32-12H	12	.375	1/8	H	3/16	1/4	3/16
N6098	12	.375	3/16	H	3/16	.279	.188
N32-14H	14	.438	1/8	H	3/16	5/16	1/4
N32-16H	16	.500	3/16	H	3/16	3/8	1/4
N5331	16	.500	1/4	H	3/16	.406	1/4
N5484	18	.563	1/4	H	3/16	.462	1/4
N32-18H	18	.563	3/16	H	3/16	3/8	1/4
N5015-2	20	.625	1/4	H	.180	.487	.290
N32-20H	20	.625	3/16	H	3/16	1/2	1/4
N5828-20	20	.615	1/4	H	3/8	.488	3/16
N5554	20	.625	5/16	H	11/32	.525	5/32
N6978	20	.625	5/16	H	.218	1/2	1/4
N5490-3	22	.688	1/4	H	.188	9/16	1/4
N32-24H	24	.750	3/16	H	3/16	5/8	1/4
N5486-26	26	.813	1/4	H	1/4	.563	1/4
N5489-G	26	.813	5/16	H	1/4	.563	1/4
N32-28H	28	.875	3/16	H	3/16	5/8	1/4
N2075	32	1.000	3/16	H	.260	.312	.312
N32-32H	32	1.000	1/4	H	3/16	5/8	1/4
N6298A	32	1.000	1/4	H	5/16	5/8	1/4
N6874	32	1.000	.441	H	.440	.687	1/4
N32-36H	36	1.125	1/4	H	3/16	5/8	1/4
N5486-38	38	1.188	1/4	H	1/4	.563	1/4
N1010G	40	1.250	5/16	H	1/4	.563	1/4
N32-40H	40	1.250	1/4	H	3/16	5/8	1/4
N5880	40	1.250	5/16	H	1/2	.620	1/8
N32-44H	44	1.375	1/4	H	3/16	5/8	1/4
N6960	44	1.375	5/16	H	3/16	39/64	.047
N32-48H	48	1.500	1/4	H	3/16	5/8	1/4
N32-52H	52	1.625	1/4	H	3/16	5/8	1/4
N5829	52	1.625	1/4	H	3/8	.504	3/16
N7003	52	1.625	7/16	H	1/2	.880	3/8
N5444	62	1.938	1/4	H	.139	.625	.490
N32-62H	62	1.938	1/4	H	.198	5/8	3/8
N6187 / 8183	62	1.938	3/8	H	1/4	.614	3/8
Hub has a .102 dia. cross hole							
20 PRESSURE ANGLE							
N6557	19	.594	1/4	H	.160	.734	.094
N6825A	24	.750	1/8	H	1/8	.19	.025
N6877	44	1.375	3/8	H	3/16	1-1/16	5/16
N6875	44	1.375	.579	H	3/16	1-1/16	5/16
N6876	62	1.938	1/4	H	3/16	3/4	5/16
N1220	72	2.250	.379K	H	3/16	11/16	5/16

Nylomatic

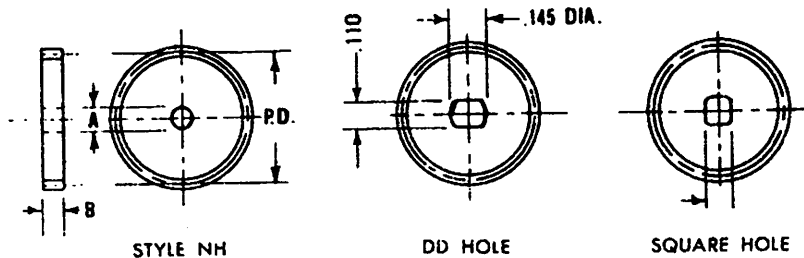
Gears

48 Pitch Spur Gears-Plain

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.

48 Pitch

Actual
Tooth Size



14½° PRESSURE ANGLE

PART NO.	TEETH	P.D.	HOLE A	STYLE	FACE B
N48-12	12	.250	3/32	NH	1/8
N6642	12	.250	1/8	NH	1/8
N48-14	14	.292	3/32	NH	1/8
N48-16	16	.333	1/8	NH	1/8
N6510	16	.333	1/8	NH	1/8
N48-18	18	.375	1/8	NH	1/8
N338	18	.375	1/8	NH	.100
N48-20	20	.417	1/8	NH	1/8
N363-2	20	.417	.145 Dia. x .110 DD	NH	.112
N48-24	24	.500	1/8	NH	1/8
N48-28	28	.583	1/8	NH	1/8
N48-32	32	.667	1/8	NH	1/8
N6511	32	.667	1/4	NH	1/8
N6641	36	.750	3/16	NH	1/8
N48-36	36	.750	3/16	NH	1/8
N6011-36	36	.750	.315 Square	NH	.157
N6496	37	.771	1/8	NH	.215
N6011-40	40	.833	.204	NH	3/16
N48-40	40	.833	3/16	NH	1/8
N363-1	44	.917	3/16 Square	NH	.112
N48-48	48	1.000	3/16	NH	1/8
N48-56	56	1.167	3/16	NH	1/8
N48-60	60	1.250	1/4	NH	1/8
N5715	60	1.250	1/4	NH	5/16
N48-64	64	1.333	1/4	NH	1/8
N48-72	72	1.500	1/4	NH	1/8
N48-80	80	1.667	1/4	NH	1/8
20° PRESSURE ANGLE					
N6560	36	.750	1/4	NH	.385

Nylomatic

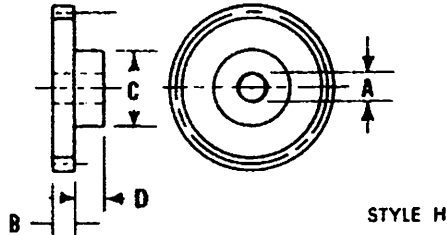
Gears

48 Pitch Spur Gears-with Hubs

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.

48 Pitch

Actual
Tooth Size



14½° PRESSURE ANGLE

PART NO.	TEETH	P.D.	HOLE A	STYLE	FACE B	HUB DIA. C	PROJ. D
N48-12H	12	.250	3/32	H	1/8	3/16	3/16
N48-14H	14	.292	3/32	H	1/8	1/4	3/16
N48-16H	16	.333	1/8	H	1/8	1/4	3/16
N48-18H	18	.375	1/8	H	1/8	5/16	3/16
N48-20H	20	.417	1/8	H	1/8	3/8	1/4
N6819	20	.417	3/16	H	3/16	11/32	1/8
N48-24H	24	.500	1/8	H	1/8	3/8	1/4
N6848	24	.500	1/4	H	.280	.406	.030
N48-28H	28	.583	1/8	H	1/8	1/2	1/4
N48-32H	32	.667	1/8	H	1/8	1/2	1/4
N6820	32	.667	3/16	H	1/8	1/2	1/4
N48-36H	36	.750	3/16	H	1/8	5/8	1/4
N335	40	.833	1/8	H	.115	3/8	3/16
N48-40H	40	.833	3/16	H	1/8	5/8	1/4
N6565	40	.833	1/4 'D'	H	1/8	5/8	1/4
*ND10	40	.833	3/8	H	5/16	9/16	1/4
N2145	42	.875	1/4	H	1/8	.44	1/4
N6576	44	.917	1/8	H	1/8	.28	.131
N48-48H	48	1.00	3/16	H	1/8	5/8	1/4
N48-56H	56	1.167	3/16	H	1/8	5/8	1/4
**N5615	60	1.250	1/4	H	1/8	1	1/4
N48-60H	60	1.250	1/4	H	1/8	5/8	1/4
N48-64H	64	1.333	1/4	H	1/8	5/8	1/4
N48-72H	72	1.500	1/4	H	1/8	5/8	1/4
N48-80H	80	1.667	1/4	H	1/8	5/8	1/4
N5617	96	2.000	1/4	H	1/8	1	1/4

*also has a 9/16d x .063 L. hub on other side

** Has a hub 1.2 x 1.4 Projection on opposite side of gear.

20° PRESSURE ANGLE

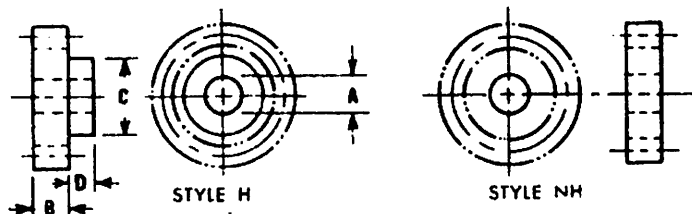
PART NO.	TEETH	P.D.	HOLE A	STYLE	FACE B	HUB DIA. C	PROJ. D
N2127	30	.625	1/8	H	.055	.25	.148
N6559	36	.750	1/2	H	.450	11/16	.100
N5691	42	.875	1/4	H	.125	.437	.065

Nylomatic

Gears

Miscellaneous Gears 14½° and 20° P.A.

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.



14½° PRESSURE ANGLE								
PART NO.	PITCH	TEETH	HOLE A	P.D.	STYLE	HUB DIA C	PROJ. D	FACE B
*N5013	12	16	5/8	1.333	H	7/8	9/32	.487
N6910	12	16	3/8	1.333	NH	—	—	.200
N5017	12	18	1/4	1.500	NH	—	—	.404
N1183	12	24	43/64	2.000	NH	—	—	1/4
**N1142	12	30	.610	2.500	H	1"	5/8	.615
N1116-1	20	24	.315	1.20	H	.860	5/16	3/8
N1116-2	20	24	1/2	1.20	H	.860	5/16	3/8
N1040	28	71	.610	2.536	NH	—	—	1/4
N1040H	28	71	5/8	2.536	H	1.250	.370	1/4
N308	56	36	3/32	.643	H	5/16	1/16	1/8
N330	64	32	.099 dia. x .084 A.F.	.496	NH	—	—	.085
N337	64	32	3/32	.496	H	.17	.046	.050
N205	64	60	1/8	.938	H	1.2	1.8	1/8
20° PRESSURE ANGLE								
N5453	10	12	.480	1.2	NH	—	—	1.072
N6610	12	16	.600	1.333	NH	—	—	13/16
N1191	12	26	1.312	2.166	NH	—	—	13/16
N6992	20	18	.491	.900	NH	—	—	5/16
N6204	20	20	.215	1.000	H	.423	1/2	1/4
N6995	20	22	.367	1.100	NH	—	—	5/16
N6203	20	24	3/8	1.200	H	5/8	1/2	1/4
N1029A	20	25	.314	1.250	H	7/16	3/16	3/16
N6333	20	30	7/8	1.500	NH	—	—	3/8
N6176	20	30	1/2	1.500	H	5/8	1.8	3/16
N6555	32	34	.244	1.062	H	.532	.185	1/8
N5138	40	35	3/16	.875	NH	—	—	1/8
N6275	36	9	1/8	.250	H	.187	.015	1/8
N7002	64	16	3/32	.250	NH	—	—	1/8
N6416	64	48	.185	.750	NH	—	—	.180

* Has Counterbore.

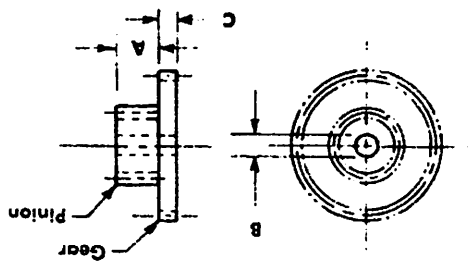
** Has Keyway.

Nylomatic

Gears

32 Pitch Combination Gears

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.



32 Pitch
Actual
Tooth Size

PINION												GEAR											
PART NO	PITCH	TEETH	P.D.	FACE A	HOLE B	P.A.	PITCH	TEETH	P.D.	FACE C	P.A.												
N318	32	8	.24	.203	1/8	14 1/2	32	34	1.063	1.58	14 1/2												
N217	32	8	.24	.260	1/8	14 1/2	48	60	1.25	1/8	14 1/2												
N6824	32	10	5/16	.196	1/8	20	32	38	1.188	.114	20												
N6570	32	10	.313	.343	1/8	20	48	74	1.542	3/16	20												
N2104	32	12	.375	1/4	3/16	14 1/2	32	28	.875	1/8	14 1/2												
N6258	32	15	.469	5/16	5/16	20	32	64	2.000	1/4	20												
N6471-1	32	16	.500	3/16	1/4	14 1/2	32	20	.625	3/16	14 1/2												
N6512-1	32	16	.500	3/16	1/4	14 1/2	32	22	.687	3/16	14 1/2												
N6471-2	32	16	.500	3/16	1/4	14 1/2	32	24	.750	3/16	14 1/2												
N6512-2	32	16	.500	3/16	1/4	14 1/2	32	26	.812	3/16	14 1/2												
N6471-3	32	16	.500	3/16	1/4	14 1/2	32	28	.875	3/16	14 1/2												
NC-7467	32	16	.500	3/16	1/4	14 1/2	32	30	.937	3/16	14 1/2												
N1182-1	32	16	.500	3/16	1/4	14 1/2	32	36	1.125	3/16	14 1/2												
N32-16-40	32	16	.500	180	1/4	14 1/2	32	40	1.46	3/16	14 1/2												
N1182-2	32	16	.500	3/16	1/4	14 1/2	32	44	1.375	3/16	14 1/2												
N1182-3	32	16	.500	3/16	1/4	14 1/2	32	48	1.500	3/16	14 1/2												
NS445	32	18	.562	310	180	14 1/2	48	48	1.00	.16	14 1/2												
N6318	32	32	1.000	3/16	1/4	14 1/2	32	48	1.500	3/16	14 1/2												

*Available with either a .025 hub or a .350 x .06 counterbore.
 *Has 1/2 O.D. x .194 high w/key slot .088 wide x .125 deep.
 **P. dia. .004 U.L.L.
 ***Has a .620 hub opp. gear face w/.235 proj.

Nylomatic

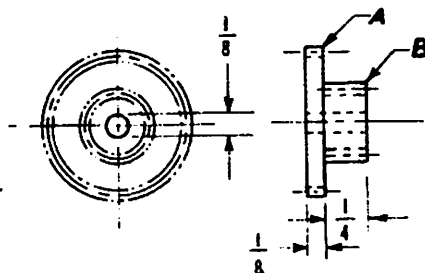
Gears

48 Pitch Combination Gears

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.

48 Pitch


Actual
Tooth Size



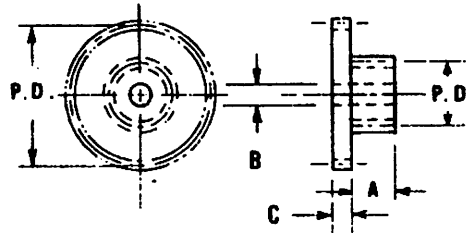
14½° PRESSURE ANGLE		
PART NO.	PINION TEETH (B)	GEAR TEETH (A)
N48-12-36	12	36
N48-12-40	12	40
N48-12-48	12	48
N48-12-56	12	56
N48-12-60	12	60
*N48-12-64	12	64
N48-12-72	12	72
N48-12-80	12	80
N48-14-36	14	36
N48-14-40	14	40
N48-14-48	14	48
N48-14-56	14	56
N48-14-60	14	60
N48-14-64	14	64
N48-14-72	14	72
N48-14-80	14	80
N48-16-36	16	36
N48-16-40	16	40
N48-16-48	16	48
N48-16-56	16	56
N48-16-60	16	60
N48-16-64	16	64
N48-16-72	16	72
N48-16-80	16	80

Nylomatic

Gears

Miscellaneous Combination Gears

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.



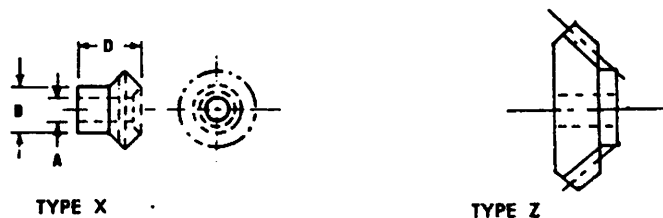
PART NO.	PINION						GEAR				
	PITCH	TEETH	P.D.	FACE A	HOLE B	P.A.	PITCH	TEETH	P.D.	FACE C	P.A.
N5602-2	24	12	.50	1/4	.255*	14½°	24	30	1.25	.225	14½°
N5999	24	12	.500	.218	1/4	14½°	32	36	1.125	1/8	14½°
N5721	24	14	.583	.550	1/4	20°	24	24	1.00	.375	20°
N6102	24	15	.625	.359	1/4	20°	24	36	1.50	3/16	14½°
N6444	48	9	.187	.160	3/32	14½°	48	40	.833	1/16	14½°
N5370	48	10	.208	.156	3/32	14½°	48	40	.833	.094	14½°
N6531	48	12	.250	.218	1/8	14½°	48	36	.750	1/8	14½°
N5157	48	12	.25	.140	1/8	14½°	48	40	.833	.100	14½°
N5744	48	16	.333	1/4	1/8	14½°	48	60	1.25	1/8	14½°
N5717	48	18	.375	.563	1/8	14½°	48	54	1.125	1/8	14½°
N5702	48	20	.417	3/16	1/4	14½°	48	60	1.25	1/8	14½°
N5726	48	20	.417	3/16	1/4	14½°	48	80	1.667	1/8	14½°
N6234	48	30	.625	1/8	1/4	14½°	48	48	1.00	1/8	14½°
N6251	48	35	.729	3/32	.220	20°	48	80	1.667	1/16	20°
N6961	64	40	.625	.469	1/4	20°	32	40	1.250	3/16	14½°

* Counterbored hole (.375 x .1 dp.)

Nylomatic

Miter Gears-90° and Gear Clusters

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.



TYPE X

TYPE Z

20° PRESSURE ANGLE								
PART NO.	P.D.	PITCH	TEETH	HOLE A	MOUNTING DIMEN. HUB DIA.			
					TYPE	DISTANCE	D	B
N6093-1	.500	32	16	.095	Z	.344	.192	.250
N6093-2	.500	32	16	.158	X	.813	.678	.250
N7555	.5	32	16	.156	X	.525	.356	.408
N5346	.60	20	12	D ¼ x .195	X	.67	.460	.520
N5613	1.0	24	24	DD ⅝ x .25	X	1.125	.781	.688
N1048	2.200	10	22	.995	X	1.99	1.310	1.510

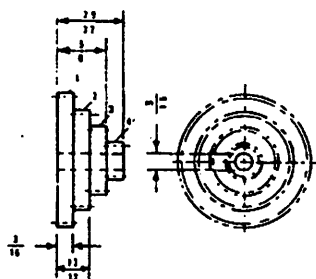


FIG. A

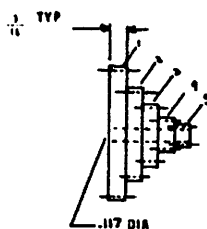


FIG. 8

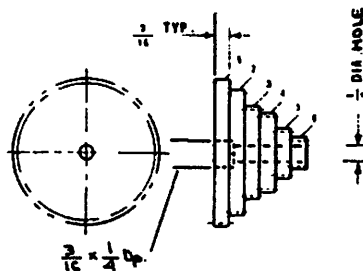


FIG. C

14½° PRESSURE ANGLE								
PART NO.	FIGURE	PITCH	NUMBER OF TEETH					
			1	2	3	4	5	6
N5762	A	32	48	36	18	12	—	—
N5698	B	48	60	48	36	24	12	—
N5699	C	48	48	40	32	24	16	12

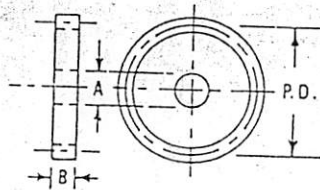
Nylomatic.

Gears

32 Pitch Spur Gears — PLAIN

- Standard material is Dupont #101 Nylon.
- Prices subject to change without notice.

32 Pitch



14½° PRESSURE ANGLE				
PART NO.	TEETH	P.D.	HOLE A	FACE B
N32-12	12	.375	.125	3/16
N32-14	14	.438	.125	3/16
N6097	14	.438	.127	3/16
N6548	14	.438	.188 sq.	3/16
N6692	14	.438	.187	3/16
N32-16	16	.500	.190	3/16
N32-18	18	.563	.190	3/16
N5521	18	.563	.283	.071
N32-20	20	.625	.190	3/16
N32-24	24	.750	.190	3/16
N5594	24	.750	.252	.177
N32-28	28	.875	.190	3/16
ND11	28	.875	.187	.187
N32-32	32	1.000	.250	3/16
N32-36	36	1.125	.250	3/16
N5832	36	1.125	.313	.362
N32-38	38	1.188	.250	3/16
N32-40	40	1.250	.250	3/16
N32-44	44	1.375	.250	3/16
N32-48	48	1.500	.250	3/16
N2096	48	1.500	.500	3/16
N32-52	52	1.625	.250	3/16
N5404	56	1.750	.624	.192
N32-56	56	1.750	.250	.194
N32-62	62	1.938	.250	.198
N6186	62	1.938	.927	.250
20° PRESSURE ANGLE				
N1189	59	1.844	.621	.239

12A

TO GET	HAVING	RULE	FORMULA
Outside Diameter	THE PITCH DIAMETER AND THE NUMBER OF TEETH	DIVIDE THE NUMBER OF TEETH PLUS 2 BY THE QUOTIENT OF NUMBER OF TEETH DIVIDED BY THE PITCH DIAMETER	$OD = \frac{N + 2}{\frac{N}{PD}}$
The diametral pitch	THE PITCH DIAMETER AND THE NUMBER OF TEETH	DIVIDE NUMBER OF TEETH BY PITCH DIAMETER	$DP = \frac{N}{PD}$

7