

# Union Gear & SPROCKET CORP.

By,



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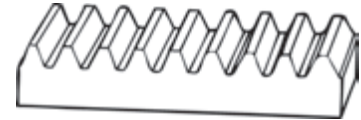


Modifications to all parts listed are  
available upon request



## STEEL RACKS

TEETH CUT 14 1/2° INVOLUTE FORM



IN ORDERING, STATE CATALOG NUMBER AND LENGTH ONLY

CAT. NO.	PITCH	FACE	THICKNESS	WEIGHT LBS. PER FOOT
R-20*	20	3/8"	3/8"	.40
R-16	16	1/2"	1/2"	.83
LR-12	12	3/4"	1/2"	1.13
R-12	12	3/4"	3/4"	1.78
LR-10	10	1"	5/8"	1.90
R-10	10	1"	1"	3.20
LR-8	8	1 1/4"	3/4"	2.75
R-8	8	1 1/4"	1 1/4"	4.80
LR-6	6	1 1/2"	1"	4.23
R-6	6	1 1/2"	1 1/2"	6.88
R-5	5	1 3/4"	1 1/4"	7.83

\*Maximum Lengths 4 feet.

## STEEL RACKS

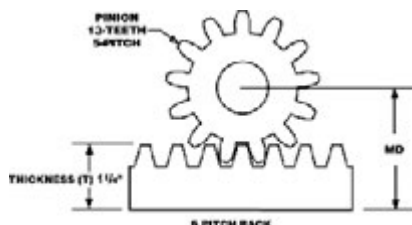
TEETH CUT 20° INVOLUTE FORM



IN ORDERING, STATE CATALOG NUMBER AND LENGTH ONLY

CAT. NO.	PITCH	FACE	THICKNESS	WEIGHT LBS. PER FOOT
TR-12	12	3/4"	3/4"	1.78
TR-10	10	1"	1"	3.20
TR-8	8	1 1/4"	1 1/4"	4.80
TR-6	6	1 1/2"	1 1/2"	6.8
TR-5	5	1 3/4"	1 1/4"	7.83

14 1/2° and 20° pressure angle steel racks are cut in 4 and 6 foot lengths at regular list prices.  
 Odd lengths will be charged at the next longer standard lengths.



$$MD = \left( \frac{\text{No. Teeth in Pinion} - 2}{\text{Diametral Pitch} \times 2} \right) + \text{Thickness (T)}$$

Example:

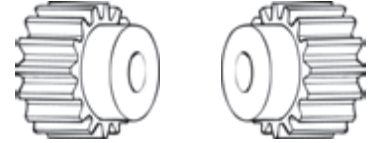
$$MD = \left( \frac{13-2}{5 \times 2} \right) + 1.250$$

$$MD = 2.350''$$

GEARS FOR 14 1/2° PRESSURE ANGLE RACKS ARE LISTED ON PAGES 4 TO 17.  
 GEARS FOR 20° PRESSURE ANGLE RACKS ARE LISTED ON PAGE 3.

# STEEL GEAR

## CUT 20° PRESSURE ANGLE INVOLUTE TOOTH FORM



DESIGNED TO RUN WITH 20° STEEL RACK OR GEARS OF SAME PRESSURE ANGLE

CAT. NO.	TEETH	Pitch Diam.	HOLE	HUB DIA.	HUB PROJ.	* MD	WT. IN LBS.
<b>3/4" FACE</b>		<b>12 PITCH – 20° PA.</b>				<b>3/4" FACE</b>	
12THG-12	12	1.000"	1/2"	3/4"	1/2"	1.166"	.09
12THG-15	15	1.250"	5/8"	1"	"	1.291"	.22
12THG-16	16	1.333"	"	1 1/16"	"	1.333"	.25
12THG-18	18	1.500"	"	1 1/4"	"	1.416"	.38
12THG-20	20	1.666"	"	1 7/16"	"	1.500"	.53
12THG-21	21	1.750"	"	1 1/2"	"	1.541"	.59
12THG-24	24	2.000"	"	1 3/4"	"	1.666"	.84
12THG-30	30	2.500"	"	2 1/4"	5/8"	1.916"	1.6
<b>1" FACE</b>		<b>10 PITCH – 20° PA.</b>				<b>1" FACE</b>	
10THG-12	12	1.200"	5/8"	15/16"	5/8"	1.500"	.25
10THG-14	14	1.400"	"	1 1/8"	"	1.600"	.44
10THG-15	15	1.500"	3/4"	1 7/32"	"	1.650"	.47
10THG-16	16	1.600"	"	1 5/16"	"	1.700"	.56
10THG-18	18	1.800"	"	1 17/32"	"	1.800"	.81
10THG-20	20	2.000"	"	1 23/32"	"	1.900"	1.1
10THG-24	24	2.400"	"	2 1/8"	"	2.100"	1.7
10THG-25	25	2.500"	"	2 7/32"	"	2.150"	1.8
<b>1 1/4" FACE</b>		<b>8 PITCH – 20° PA.</b>				<b>1 1/4" FACE</b>	
8THG-12	12	1.500"	3/4"	1 1/8"	3/4"	1.875"	.56
8THG-14	14	1.750"	"	1 3/8"	"	2.000"	.84
8THG-15	15	1.875"	7/8"	1 1/2"	"	2.062"	.94
8THG-16	16	2.000"	"	1 5/8"	"	2.125"	1.1
8THG-18	18	2.250"	"	1 7/8"	"	2.250"	1.6
8THG-20	20	2.500"	"	2 1/8"	"	2.375"	2.0
8THG-22	22	2.750"	"	2 3/8"	"	2.500"	2.6
8THG-24	24	3.000"	"	2 1/2"	"	2.625"	2.9
<b>1 1/2" FACE</b>		<b>6 PITCH – 20° PA.</b>				<b>1 1/2" FACE</b>	
6THG-12	12	2.000"	1"	1 1/2"	7/8"	2.333"	1.2
6THG-14	14	2.333"	"	1 13/16"	"	2.500"	1.8
6THG-15	15	2.500"	"	2"	"	2.583"	2.3
6THG-16	16	2.666"	"	2 3/16"	"	2.666"	2.7
6THG-18	18	3.000"	"	2 1/2"	"	2.833"	3.6
6THG-20	20	3.333"	"	2 7/8"	"	3.000"	4.7
6THG-21	21	3.500"	"	3"	"	3.083"	5.1
6THG-24	24	4.000"	"	3 1/2"	"	3.333"	5.7
<b>1 3/4" FACE</b>		<b>5 PITCH – 20° PA.</b>				<b>1 3/4" FACE</b>	
5THG-12	12	2.400"	1"	1 13/16"	7/8"	2.250"	2.0
5THG-14	14	2.800"	"	2 1/4"	"	2.450"	3.5
5THG-15	15	3.000"	"	2 7/16"	"	2.550"	4.0
5THG-16	16	3.200"	"	2 5/8"	"	2.650"	5.0
5THG-18	18	3.600"	"	3"	"	2.850"	6.5
5THG-20	20	4.000"	"	3 3/8"	"	3.050"	7.5
5THG-22	22	4.400"	"	3 3/4"	"	3.250"	9.3

\*MD is based on gears mated with 20° steel rack shown on page 2

# 20-PITCH SPUR TYPE CHANGE GEARS

## 14 1/2° INVOLUTE TOOTH FORM ALL 3/8" FACE



STYLE "K"  
5/8" Hole with  
2 Keyways  
1/8" x 1/16" at 180°



**UNION  
GEAR  
EXCLUSIVE**

STYLE "P"  
1/2" Hole  
No Keyway

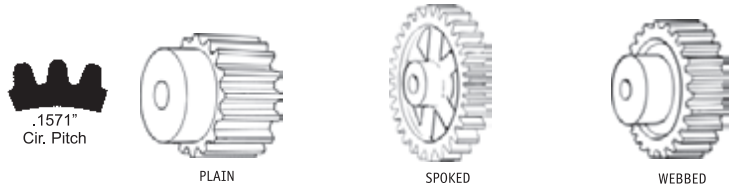
### STATE CATALOG NUMBER AND STYLE WANTED

STEEL, PLAIN, NO HUBS				STEEL, PLAIN, NO HUBS				STEEL AND CAST IRON			
CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.
CG-2020	20	1.000"	.06	CG-2051	51	2.550"	.38	CG-2085	85	4.250"	.80
CG-2021	21	1.050"	.06	CG-2052	52	2.600"	.42	CG-2086	86	4.300"	.82
CG-2022	22	1.100"	.07	CG-2053	53	2.650"	.46	CG-2087	87	4.350"	.84
CG-2023	23	1.150"	.08	CG-2054	54	2.700"	.50	CG-2088	88	4.400"	.86
CG-2024	24	1.200"	.09	CG-2055	55	2.750"	.52	CG-2089	89	4.450"	.88
CG-2025	25	1.250"	.10	CG-2056	56	2.800"	.54	CG-2090	90	4.500"	.90
CG-2026	26	1.300"	.11	CG-2057	57	2.850"	.56	CG-2091	91	4.550"	.93
CG-2027	27	1.350"	.12	CG-2058	58	2.900"	.58	CG-2092	92	4.600"	.96
CG-2028	28	1.400"	.13	CG-2059	59	2.950"	.60	CG-2093	93	4.650"	.98
CG-2029	29	1.450"	.14	CG-2060	60	3.000"	.62	CG-2094	94	4.700"	1.00
CG-2030	30	1.500"	.16	CG-2061	61	3.050"	.64	CG-2095	95	4.750"	1.04
CG-2031	31	1.550"	.17	CG-2062	62	3.100"	.66	CG-2096	96	4.800"	1.06
CG-2032	32	1.600"	.19	CG-2063	63	3.150"	.68	CG-2097	97	4.850"	1.10
CG-2033	33	1.650"	.20	CG-2064	64	3.200"	.70	CG-2098	98	4.900"	1.12
CG-2034	34	1.700"	.22	CG-2065	65	3.250"	.72	CG-2099	99	4.950"	1.15
CG-2035	35	1.750"	.24	CG-2066	66	3.300"	.74	CG-20100	100	5.000"	1.18
CG-2036	36	1.800"	.26	CG-2067	67	3.350"	.75	CG-20101	101	5.050"	1.20
CG-2037	37	1.850"	.28	CG-2068	68	3.400"	.76	CG-20102	102	5.100"	1.25
CG-2038	38	1.900"	.30	CG-2069	69	3.450"	.77	CG-20103	103	5.150"	1.25
CG-2039	39	1.950"	.32	CG-2070	70	3.500"	.78	CG-20104	104	5.200"	1.25
CG-2040	40	2.000"	.34	CG-2071	71	3.550"	.79	CG-20105	105	5.250"	1.25
CG-2041	41	2.050"	.36	CG-2072	72	3.600"	.80	CG-20106	106	5.300"	1.25
CG-2042	42	2.100"	.38	CG-2073	73	3.650"	.82	CG-20107	107	5.350"	1.25
CG-2043	43	2.150"	.40	CG-2074	74	3.700"	.84	CG-20108	108	5.400"	1.25
CG-2044	44	2.200"	.42	CG-2075	75	3.750"	.85	CG-20109	109	5.450"	1.25
CG-2045	45	2.250"	.44	CG-2076	76	3.800"	.87	CG-20110	110	5.500"	1.30
CG-2046	46	2.300"	.48	CG-2077	77	3.850"	.87	CG-20111	111	5.550"	1.30
CG-2047	47	2.350"	.50	CG-2078	78	3.900"	.88	CG-20112	112	5.600"	1.30
CG-2048	48	2.400"	.52	CG-2079	79	3.950"	.88	CG-20113*	113	5.650"	1.30
CG-2049	49	2.450"	.54	CG-2080	80	4.000"	.88	CG-20114*	114	5.700"	1.30
CG-2050	50	2.500"	.56	CG-2081	81	4.050"	.90	CG-20115*	115	5.750"	1.40
				CG-2082	82	4.100"	.92	CG-20116*	116	5.800"	1.40
				CG-2083	83	4.150"	.94	CG-20117*	117	5.850"	1.40
				CG-2084	84	4.200"	.96	CG-20118*	118	5.900"	1.50
								CG-20119*	119	5.950"	1.50
								CG-20120*	120	6.000"	1.60

\* CAST IRON CONSTRUCTION

## 20-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 3/8" FACE - HUB ONE SIDE



### "HG" SERIES – STEEL

SPUR GEARS-HUB ONE SIDE							
CAT. NO.	TEETH	PITCH	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
20HG-12	12	.600"	5/16"	15/32"	3/8"	PLAIN	.03
20HG-13	13	.650"	"	1/2"	"	"	.04
20HG-14	14	.700"	"	9/16"	"	"	.05
20HG-15	15	.750"	3/8"	39/64"	"	"	.05
20HG-16	16	.800"	"	21/32"	"	"	.07
20HG-18	18	.900"	"	3/4"	"	"	.09
20HG-20	20	1.000"	"	55/64"	"	"	.12
20HG-22	22	1.100"	"	31/32"	"	"	.15
20HG-24	24	1.200"	"	1 1/16"	"	"	.19
20HG-25	25	1.250"	"	1 7/64"	"	"	.21
20HG-28	28	1.400"	"	1 17/64"	"	"	.27
20HG-30	30	1.500"	"	1 23/64"	"	"	.32
20HG-32	32	1.600"	"	1 7/16"	1/2"	"	.40
20HG-35	35	1.750"	"	1 9/16"	"	"	.50
20HG-36	36	1.800"	"	1 5/8"	"	"	.54
20HG-40	40	2.000"	"	1 13/16"	"	"	.70

### "G" SERIES – CAST IRON

SPUR GEARS-HUB ONE SIDE							
CAT. NO.	TEETH	PITCH	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
20HG-48	48	2.400"	3/8"	2"	1/2"	PLAIN	.81
20HG-50	50	2.500"	"	"	"	"	.88
20HG-60	60	3.000"	"	"	"	"	.94
20HG-64	64	3.200"	"	"	"	"	.94
20HG-70	70	3.500"	"	"	"	"	1.00
20HG-72	72	3.600"	"	"	"	"	1.20
20HG-80	80	4.000"	1/2"	"	"	"	1.30
20HG-84	84	4.200"	"	"	"	"	1.40
20HG-90	90	4.500"	"	"	"	"	1.50
20HG-96	96	4.800"	"	"	"	"	1.80
20HG-100	100	5.000"	"	"	"	"	2.00
20G-112	112	5.600"	"	1 1/2"	"	SPOKE	1.30
20G-120	120	6.000"	"	"	"	"	1.50
20G-140	140	7.000"	"	"	"	"	1.80
20G-144	144	7.200"	"	"	"	"	1.80
20G-160	160	8.000"	"	"	5/8"	"	2.10
20G-180	180	9.000"	"	"	"	"	2.50
20G-200	200	10.000"	"	1 3/4"	"	"	2.70

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 3/4" FACE



**UNION GEAR EXCLUSIVE**

CAT. NO.	TEETH	PITCH	HOLE	WT. IN LBS.
20LG-12	12	.600"	5/16"	.06
20LG-13	13	.650"	"	.07
20LG-14	14	.700"	"	.08
20LG-15	15	.750"	3/8"	.09
20LG-16	16	.800"	"	.11
20LG-17	17	.850"	"	.13
20LG-18	18	.900"	"	.15

CAT. NO.	TEETH	PITCH	HOLE	WT. IN LBS.
20LG-19	19	.950"	3/8"	.17
20LG-20	20	1.000"	"	.19
20LG-21	21	1.050"	"	.21
20LG-22	22	1.100"	"	.23
20LG-23	23	1.150"	"	.27
20LG-24	24	1.200"	"	.29
20LG-25	25	1.250"	"	.32

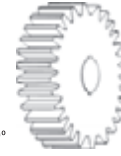
# SPUR 16-PITCH TYPE CHANGE GEARS

14 1/2° INVOLUTE TOOTH FORM ALL 1/2" FACE



.1963"  
Cir. Pitch

STYLE "K"  
3/4" Hole with  
2 Keyways  
3/16" x 3/32" at 180°



## STATE CATALOG NUMBER AND STYLE WANTED

STEEL, PLAIN, NO HUBS				STEEL, PLAIN, NO HUBS				CAST IRON			
CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.
CG-1620	20	1.250"	.06	CG-1655	55	3.437"	1.30	CG-1689	89	5.562"	1.88
CG-1621	21	1.312"	.08	CG-1656	56	3.500"	1.30	CG-1690	90	5.625"	1.95
CG-1622	22	1.375"	.10	CG-1657	57	3.562"	1.40	CG-1691	91	5.687"	2.00
CG-1623	23	1.437"	.12	CG-1658	58	3.625"	1.50	CG-1692	92	5.750"	2.04
CG-1624	24	1.500"	.14	CG-1659	59	3.687"	1.50	CG-1693	93	5.812"	2.08
CG-1625	25	1.562"	.16	CG-1660	60	3.750"	1.60	CG-1694	94	5.875"	2.12
CG-1626	26	1.625"	.19	CG-1661	61	3.812"	1.60	CG-1695	95	5.937"	2.15
CG-1627	27	1.687"	.21	CG-1662	62	3.875"	1.80	CG-1696	96	6.000"	2.18
CG-1628	28	1.750"	.23	CG-1663	63	3.937"	1.80	CG-1697	97	6.062"	2.21
CG-1629	29	1.812"	.25	CG-1664	64	4.000"	1.80	CG-1698	98	6.125"	2.25
CG-1630	30	1.875"	.29	CG-1665	65	4.062"	2.00	CG-1699	99	6.187"	2.31
CG-1631	31	1.937"	.33	CG-1666	66	4.125"	2.00	CG-16100	100	6.250"	2.35
CG-1632	32	2.000"	.36	CG-1667	67	4.187"	2.00	CG-16101	101	6.312"	2.39
CG-1633	33	2.062"	.38	CG-1668	68	4.250"	2.10	CG-16102	102	6.375"	2.43
CG-1634	34	2.125"	.38	CG-1669	69	4.312"	2.10	CG-16103	103	6.437"	2.46
CG-1635	35	2.187"	.44	CG-1670	70	4.375"	2.30	CG-16104	104	6.500"	2.49
CG-1636	36	2.250"	.44	CG-1671	71	4.437"	2.30	CG-16105	105	6.562"	2.52
CG-1637	37	2.312"	.50	CG-1672	72	4.500"	2.50	CG-16106	106	6.625"	2.56
CG-1638	38	2.375"	.50	CG-1673	73	4.562"	2.50	CG-16107	107	6.687"	2.62
CG-1639	39	2.437"	.56	CG-1674	74	4.625"	2.50	CG-16108	108	6.750"	2.66
CG-1640	40	2.500"	.56	CG-1675	75	4.687"	2.50	CG-16109	109	6.812"	2.70
CG-1641	41	2.562"	.63	CG-1676	76	4.750"	2.70	CG-16110	110	6.875"	2.74
CG-1642	42	2.625"	.68	CG-1677	77	4.812"	2.80	CG-16111	111	6.937"	2.78
CG-1643	43	2.687"	.75	CG-1678	78	4.875"	2.80	CG-16112	112	7.000"	2.81
CG-1644	44	2.750"	.75	CG-1679	79	4.937"	2.80	CG-16113	113	7.062"	2.84
CG-1645	45	2.812"	.75	CG-1680	80	5.000"	3.00	CG-16114	114	7.125"	2.87
CG-1646	46	2.875"	.81	CG-1681	81	5.062"	3.00	CG-16115	115	7.187"	2.91
CG-1647	47	2.937"	.81	CG-1682	82	5.125"	3.00	CG-16116	116	7.250"	2.97
CG-1648	48	3.000"	.94	CG-1683	83	5.187"	3.20	CG-16117	117	7.312"	3.00
CG-1649	49	3.062"	.94	CG-1684	84	5.250"	3.30	CG-16118	118	7.375"	3.04
CG-1650	50	3.125"	1.00	CG-1685	85	5.312"	3.30	CG-16119	119	7.437"	3.08
CG-1651	51	3.187"	1.00	CG-1686	86	5.375"	3.30	CG-16120	120	7.500"	3.12
CG-1652	52	3.250"	1.00	CG-1687	87	5.437"	3.50	CG-16121	121	7.562"	3.15
CG-1653	53	3.312"	1.10	CG-1688	88	5.500"	3.50	CG-16122	122	7.625"	3.18
CG-1654	54	3.375"	1.10					CG-16123	123	7.687"	3.21
								CG-16124	124	7.750"	3.24
								CG-16125	125	7.812"	3.28
								CG-16126	126	7.875"	3.34
								CG-16127	127	7.937"	3.38
								CG-16128	128	8.000"	3.42
								CG-16129	129	8.062"	3.50

NOTE: STYLE P IS A UNION GEAR EXCLUSIVE –  
 CONVENIENT FOR REBORE, HUB WELDING, SPECIAL ALTER APPLICATION.

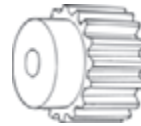


## 16-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 1/2" FACE - HUB ONE SIDE



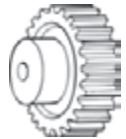
.1963"  
Cir. Pitch



PLAIN



SPOKED



WEBBED

### "HG" SERIES – STEEL

### "G" SERIES – CAST IRON

SPUR GEARS – HUB ONE SIDE								SPUR GEARS – HUB ONE SIDE							
CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
16HG-12	12	.750"	3/8"	9/16"	7/16"	PLAIN	.02	16HG-40	40	2.500"	1/2"	2"	1/2"	PLAIN	1.0
16HG-13	13	.8125"	"	5/8"	"	"	.04	16HG-48	48	3.000"	"	"	"	"	1.3
16HG-14	14	.875"	"	11/16"	"	"	.05	16HG-54	54	3.375"	"	"	"	"	1.6
16HG-15	15	.9375"	1/2"	3/4"	"	"	.06	16HG-56	56	3.500"	"	"	"	"	1.7
16HG-16	16	1.000"	"	13/16"	"	"	.07	16HG-60	60	3.750"	"	"	5/8"	"	1.8
16HG-18	18	1.125"	"	15/16"	"	"	.09	16HG-64	64	4.000"	5/8"	"	"	"	1.9
16HG-20	20	1.250"	"	1 1/16"	"	"	.16	16HG-72	72	4.500"	"	"	"	"	2.3
16HG-22	22	1.375"	"	1 3/16"	"	"	.25	16HG-80	80	5.000"	"	"	"	"	2.6
16HG-24	24	1.500"	"	1 5/16"	"	"	.31	16G-96	96	6.000"	"	1 3/4"	"	SPOKE	2.4
16HG-26	26	1.625"	"	1 7/16"	"	"	.44	16G-112	112	7.000"	"	"	"	"	2.9
16HG-28	28	1.750"	"	1 9/16"	1/2"	"	.53	16G-128	128	8.000"	"	"	"	"	3.1
16HG-30	30	1.875"	"	1 5/8"	"	"	.62	16G-144	144	9.000"	"	"	3/4"	"	4.1
16HG-32	32	2.000"	"	1 3/4"	"	"	.72	16G-160	160	10.000"	"	"	"	"	4.6
16HG-36	36	2.250"	"	2"	"	"	.94	16G-192	192	12.000"	"	2 1/4"	"	"	5.9

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 1" FACE



.1963"  
Cir. Pitch



**UNION  
GEAR  
EXCLUSIVE**

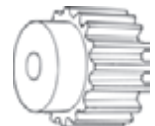
CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
16LG-12	12	.750"	3/8"	.09	16LG-18	18	1.125"	1/2"	.22
16LG-13	13	.8125"	"	.11	16LG-19	19	1.187"	"	.26
16LG-14	14	.875"	"	.14	16LG-20	20	1.250"	"	.29
16LG-15	15	.9375"	1/2"	.14	16LG-21	21	1.312"	"	.33
16LG-16	16	1.000"	"	.17	16LG-23	23	1.437"	"	.40
16LG-17	17	1.062"	"	.19	16LG-25	25	1.562"	"	.49

## NON-METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 1/2" FACE - HUB ONE SIDE



.1963"  
Cir. Pitch



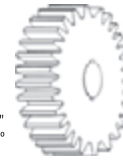
CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	WT. IN LBS.
HF-1616	16	1.000"	3/8"	13/16"	1/2"	.010
HF-1618	18	1.125"	"	15/16"	"	.015
HF-1620	20	1.250"	"	1 1/16"	"	.020
HF-1622	22	1.375"	"	1 3/16"	"	.030
HF-1624	24	1.500"	1/2"	1 5/16"	"	.030
HF-1632	32	2.000"	"	1 13/16"	"	.060

# 12-PITCH SPUR TYPE CHANGE GEARS

## 14 1/2° INVOLUTE TOOTH FORM ALL 3/4" FACE



STYLE "K"  
 1" Hole with  
 Two 1/4" x 1/8"  
 Keyways at 180°



**UNION  
 GEAR  
 EXCLUSIVE**

STYLE "P"  
 3/4" Hole  
 No Keyway

### STATE CATALOG NUMBER AND STYLE WANTED

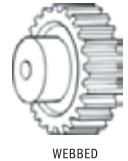
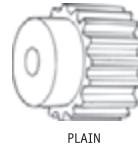
STEEL, PLAIN, NO HUBS				STEEL AND CAST IRON				CAST IRON			
CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.
CG-1220	20	1.666"	.25	CG-1253	53	4.416"	3.20	CG-1289	89	7.416"	4.56
CG-1221	21	1.750"	.30	CG-1254	54	4.500"	3.30	CG-1290	90	7.500"	4.63
CG-1222	22	1.833"	.35	CG-1255	55	4.583"	3.40	CG-1291	91	7.583"	4.69
CG-1223	23	1.916"	.40	CG-1256	56	4.666"	3.50	CG-1292	92	7.666"	4.75
CG-1224	24	2.000"	.45	CG-1257	57	4.750"	3.70	CG-1293	93	7.750"	4.87
CG-1225	25	2.083"	.50	CG-1258	58	4.833"	3.80	CG-1294	94	7.833"	5.00
CG-1226	26	2.166"	.57	CG-1259	59	4.916"	3.80	CG-1295	95	7.916"	5.12
CG-1227	27	2.250"	.64	CG-1260	60	5.000"	4.00	CG-1296	96	8.000"	5.25
CG-1228	28	2.333"	.72	CG-1261	61	5.083"	4.20	CG-1297	97	8.083"	5.37
CG-1229	29	2.416"	.80	CG-1262	62	5.166"	4.30	CG-1298	98	8.166"	5.50
CG-1230	30	2.500"	.87	CG-1263	63	5.250"	4.50	CG-1299	99	8.250"	5.60
CG-1231	31	2.583"	.95	CG-1264	64	5.333"	4.50	CG-12100	100	8.333"	5.72
CG-1232	32	2.666"	1.03	CG-1265	65	5.416"	4.90	CG-12101	101	8.416"	5.85
CG-1233	33	2.750"	1.11	CG-1266	66	5.500"	5.00	CG-12102	102	8.500"	5.97
CG-1234	34	2.833"	1.19	CG-1267 *	67	5.583"	2.90	CG-12103	103	8.583"	6.10
CG-1235	35	2.916"	1.25	CG-1268 *	68	5.666"	2.95	CG-12104	104	8.666"	6.20
CG-1236	36	3.000"	1.31	CG-1269 *	69	5.750"	3.00	CG-12105	105	8.750"	6.32
CG-1237	37	3.083"	1.40	CG-1270 *	70	5.833"	3.03	CG-12106	106	8.833"	6.45
CG-1238	38	3.166"	1.50	CG-1271 *	71	5.916"	3.07	CG-12107	107	8.916"	6.57
CG-1239	39	3.250"	1.60	CG-1272 *	72	6.000"	3.10	CG-12108	108	9.000"	6.70
CG-1240	40	3.333"	1.60	CG-1273 *	73	6.083"	3.14	CG-12109	109	9.083"	6.80
CG-1241	41	3.416"	1.80	CG-1274 *	74	6.166"	3.17	CG-12110	110	9.166"	6.92
CG-1242	42	3.500"	1.80	CG-1275 *	75	6.250"	3.20	CG-12111	111	9.250"	7.04
CG-1243	43	3.583"	2.00	CG-1276 *	76	6.333"	3.24	CG-12112	112	9.333"	7.17
CG-1244	44	3.666"	2.10	CG-1277 *	77	6.416"	3.27	CG-12113	113	9.416"	7.29
CG-1245	45	3.750"	2.10	CG-1278 *	78	6.500"	3.30	CG-12114	114	9.500"	7.42
CG-1246	46	3.833"	2.30	CG-1279 *	79	6.583"	3.33	CG-12115	115	9.583"	7.52
CG-1247	47	3.916"	2.40	CG-1280 *	80	6.666"	3.37	CG-12116	116	9.666"	7.64
CG-1248	48	4.000"	2.60	CG-1281 *	81	6.750"	3.40	CG-12117	117	9.750"	7.77
CG-1249	49	4.083"	2.80	CG-1282 *	82	6.833"	3.43	CG-12118	118	9.833"	7.89
CG-1250	50	4.166"	2.80	CG-1283 *	83	6.916"	3.47	CG-12119	119	9.916"	8.02
CG-1251	51	4.250"	2.80	CG-1284 *	84	7.000"	3.50	CG-12120	120	10.000"	8.12
CG-1252	52	4.333"	3.00	CG-1285 *	85	7.083"	3.75				
				CG-1286 *	86	7.166"	4.00				
				CG-1287 *	87	7.250"	4.25				
				CG-1288 *	88	7.333"	4.50				

\* CAST IRON CONSTRUCTION



## 12-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 3/4" FACE - HUB ONE SIDE



### "HG" SERIES-STEEL

### "G" SERIES-CAST IRON

SPUR GEARS -HUB ONE SIDE								SPUR GEARS -HUB ONE SIDE							
CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
12HG-12	12	1.000"	1/2"	3/4"	1/2"	PLAIN	.09	12G-72	72	6.00"	3/4"	2"	3/4"	SPOKE	4.0
12HG-14	14	1.166"	"	15/16"	"	"	.19	12G-84	84	7.00"	"	"	"	"	4.8
12HG-15	15	1.250"	5/8"	1"	"	"	.22	12G-90	90	7.50"	"	2 1/4"	"	"	5.4
12HG-16	16	1.333"	"	1 1/16"	"	"	.25	12G-96	96	8.00"	"	"	"	"	5.9
12HG-18	18	1.500"	"	1 1/4"	"	"	.38	12G-108	108	9.00"	"	"	"	"	6.6
12HG-20	20	1.666"	"	1 7/16"	"	"	.53	12G-112	112	9.33"	"	"	"	"	6.8
12HG-21	21	1.750"	"	1 1/2"	"	"	.59	12G-120	120	10.00"	7/8"	"	"	"	7.4
12HG-22	22	1.833"	"	1 9/16"	"	"	.69	12G-144	144	12.00"	"	2 1/2"	1"	"	9.7
12HG-24	24	2.0"	"	1 3/4"	"	"	.84	12G-168	168	14.00"	"	"	"	"	11.0
12HG-30	30	2.5"	"	2 1/4"	5/8"	"	1.6	12G-180	180	15.00"	"	"	"	"	12.0
12HG-32	32	2.666"	"	"	"	"	1.9	12G-192	192	16.00"	"	"	"	"	13.0
12HG-36	36	3.0"	"	2 1/2"	"	"	2.4								
12HG-40	40	3.333"	"	"	"	"	2.5								
12HG-42	42	3.5"	"	"	3/4"	"	2.6								
12HG-48	48	4.0"	3/4"	"	"	"	3.4								
12HG-54	54	4.50"	"	"	"	"	4.1								
12HG-56	56	4.66"	"	"	"	"	4.4								
12HG-60	60	5.00"	"	"	"	"	4.4								
12HG-64	64	5.33"	"	"	"	"	4.8								

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 1 3/8" FACE



**UNION GEAR EXCLUSIVE**

12 D.P. IN STOCK

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
12LG-12	12	1.000"	1/2"	.18	12LG-18	18	1.500"	5/8"	.50
12LG-13	13	1.083"	"	.25	12LG-19	19	1.583"	"	.59
12LG-14	14	1.166"	5/8"	.25	12LG-20	20	1.666"	3/4"	.65
12LG-15	15	1.250"	"	.31	12LG-21	21	1.750"	"	.75
12LG-16	16	1.333"	"	.38	12LG-22	22	1.833"	"	.81
12LG-17	17	1.416"	"	.43	12LG-24	24	2.000"	"	1.00

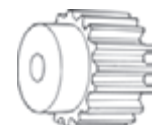
## NON-METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM



Plain - 1" face - no hub

3/4" face - hub one side



12 D.P.

CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	WT. IN LBS.
F-1215	15	1.250"	5/8"	1/8" X 1/16"	.02	HF-1215	15	1.250"	1/2"	1"	1/2"	.03
F-1216	16	1.333"	"	"	.03	HF-1216	16	1.333"	"	1 3/32"	"	.03
F-1217	17	1.417"	"	"	.03	HF-1218	18	1.500"	"	1 1/4"	"	.04
F-1218	18	1.500"	"	"	.03	HF-1220	20	1.666"	"	1 7/16"	"	.04
F-1219	19	1.583"	"	"	.04	HF-1221	21	1.750"	"	1 1/2"	"	.05
F-1220	20	1.666"	"	"	.05	HF-1222	22	1.833"	"	1 9/16"	"	.05
F-1221	21	1.750"	"	"	.06	HF-1224	24	2.000"	5/8"	1 3/4"	"	.06
F-1224	24	2.000"	"	"	.09	HF-1230	30	2.500"	"	2 1/4"	"	.09
F-1230	30	2.500"	"	"	.19							
F-1236	36	3.000"	"	"	.31							

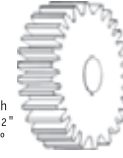
# 10-PITCH SPUR TYPE CHANGE GEARS

14 1/2° INVOLUTE TOOTH FORM ALL 1" FACE



.3142"  
Cir. Pitch

STYLE "K"  
1 1/4" Hole with  
Two 5/16" x 5/32"  
Keyways at 180°



## STATE CATALOG NUMBER AND STYLE WANTED

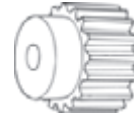
STEEL, PLAIN, NO HUBS				STEEL				CAST IRON			
CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	WT. IN LBS.
CG-1020	20	2.000"	.56	CG-1040	40	4.000"	3.00	CG-1068	68	6.800"	6.25
CG-1021	21	2.100"	.69	CG-1041	41	4.100"	3.40	CG-1069	69	6.900"	6.40
CG-1022	22	2.200"	.84	CG-1042	42	4.200"	3.50	CG-1070	70	7.000"	6.56
CG-1023	23	2.300"	.94	CG-1043	43	4.300"	3.60	CG-1071	71	7.100"	6.60
CG-1024	24	2.400"	1.03	CG-1044	44	4.400"	3.80	CG-1072	72	7.200"	6.70
CG-1025	25	2.500"	1.13	CG-1045	45	4.500"	4.10	CG-1073	73	7.300"	6.80
CG-1026	26	2.600"	1.23	CG-1046	46	4.600"	4.10	CG-1074	74	7.400"	6.90
CG-1027	27	2.700"	1.31	CG-1047	47	4.700"	4.50	CG-1075	75	7.500"	7.00
CG-1028	28	2.800"	1.50	CG-1048	48	4.800"	4.70	CG-1076	76	7.600"	7.10
CG-1029	29	2.900"	1.70	CG-1049	49	4.900"	4.90	CG-1077	77	7.700"	7.20
CG-1030	30	3.000"	1.90	CG-1050	50	5.000"	5.60	CG-1078	78	7.800"	7.30
CG-1031	31	3.100"	1.80	CG-1051	51	5.100"	5.70	CG-1079	79	7.900"	7.40
CG-1032	32	3.200"	1.80	CG-1052	52	5.200"	6.00	CG-1080	80	8.000"	7.50
CG-1033	33	3.300"	1.90	CG-1053	53	5.300"	6.10	CG-1081	81	8.100"	7.60
CG-1034	34	3.400"	2.10	CG-1054	54	5.400"	6.60	CG-1082	82	8.200"	7.70
CG-1035	35	3.500"	2.30	<b>CAST IRON</b>				CG-1083	83	8.300"	7.80
CG-1036	36	3.600"	2.40					CG-1084	84	8.400"	7.90
CG-1037	37	3.700"	2.60	<b>CAT. NO.</b>	<b>TEETH</b>	<b>PITCH DIAM.</b>	<b>WT. IN LBS.</b>	CG-1085	85	8.500"	8.00
CG-1038	38	3.800"	2.70	CG-1055	55	5.500"	4.30	CG-1086	86	8.600"	8.10
CG-1039	39	3.900"	2.90	CG-1056	56	5.600"	4.50	CG-1087	87	8.700"	8.20
				CG-1057	57	5.700"	4.58	CG-1088	88	8.800"	8.30
				CG-1058	58	5.800"	4.66	CG-1089	89	8.900"	8.40
				CG-1059	59	5.900"	4.74	CG-1090	90	9.000"	8.50
				CG-1060	60	6.000"	5.00	CG-1091	91	9.100"	8.60
				CG-1061	61	6.100"	5.15	CG-1092	92	9.200"	8.70
				CG-1062	62	6.200"	5.30	CG-1093	93	9.300"	8.80
				CG-1063	63	6.300"	5.45	CG-1094	94	9.400"	8.90
				CG-1064	64	6.400"	5.60	CG-1095	95	9.500"	9.00
				CG-1065	65	6.500"	5.75	CG-1096	96	9.600"	9.10
				CG-1066	66	6.600"	5.90	CG-1097	97	9.700"	9.20
				CG-1067	67	6.700"	6.10	CG-1098	98	9.800"	9.30
								CG-1099	99	9.900"	9.40
								CG-10100	100	10.000"	9.50

## 10-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 1" FACE - HUB ONE SIDE



.3142"  
Cir. Pitch



PLAIN



SPOKED



WEBBED

### "HG" SERIES-STEEL

### "G" SERIES-CAST IRON

SPUR GEARS - HUB ONE SIDE								SPUR GEARS - HUB ONE SIDE							
CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
10HG-12	12	1.2"	5/8"	15/16"	5/8"	PLAIN	.25	10G-55	55	5.5"	7/8"	2 1/4"	7/8"	WEB	5.0
10HG-14	14	1.4"	"	1 1/8"	"	"	.44	10G-60	60	6.0"	"	2 1/2"	"	"	5.8
10HG-15	15	1.5"	3/4"	1 7/32"	"	"	.47	10G-64	64	6.4"	"	"	"	SPOKE	6.6
10HG-16	16	1.6"	"	1 5/16"	"	"	.56	10G-70	70	7.0"	"	"	"	"	7.4
10HG-18	18	1.8"	"	1 17/32"	"	"	.81	10G-72	72	7.2"	"	"	"	"	7.6
10HG-20	20	2.0"	"	1 23/32"	"	"	1.1	10G-80	80	8.0"	"	"	"	"	8.4
10HG-24	24	2.4"	"	2 1/8"	"	"	1.7	10G-80	80	8.0"	"	"	"	"	8.4
10HG-25	25	2.5"	"	2 7/32"	"	"	1.8	10G-90	90	9.0"	"	"	"	"	9.4
10HG-28	28	2.8"	"	2 1/2"	7/8"	"	2.6	10G-96	96	9.6"	1"	"	"	"	9.8
10HG-30	30	3.0"	"	2 5/8"	"	"	3.0	10G-100	100	10.0"	"	"	"	"	10.0
10HG-35	35	3.5"	"	"	"	"	3.8	10G-110	110	11.0"	"	2 3/4"	1"	"	12.0
10HG-36	36	3.6"	"	"	"	"	3.8	10G-120	120	12.0"	"	"	"	"	13.0
10HG-40	40	4.0"	7/8"	"	"	"	4.5	10G-140	140	14.0"	"	"	"	"	15.0
10HG-42	42	4.2"	"	"	"	"	4.9	10G-160	160	16.0"	"	"	"	"	18.0
10HG-45	45	4.5"	"	"	"	"	5.6	10G-180	180	18.0"	"	3"	"	"	22.0
10HG-48	48	4.8"	"	"	"	"	6.7	10G-200	200	20.0"	"	"	"	"	24.0
10HG-50	50	5.0"	"	"	"	"	7.3								
10HG-54	54	5.4"	"	"	"	"	8.0								

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 1 3/4" FACE



10 D.P.

**UNION GEAR EXCLUSIVE**

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
10LG-12	12	1.2"	5/8"	.34	10LG-18	18	1.8"	3/4"	1.0
10LG-13	13	1.3"	"	.44	10LG-19	19	1.9"	"	1.1
10LG-14	14	1.4"	3/4"	.50	10LG-20	20	2.0"	"	1.3
10LG-15	15	1.5"	"	.60	10LG-21	21	2.1"	"	1.4
10LG-16	16	1.6"	"	.75	10LG-22	22	2.2"	"	1.5
10LG-17	17	1.7"	"	.88	10LG-25	25	2.5"	"	2.1

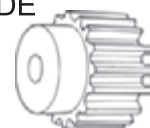
## NON-METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM - 1 1/4" FACE - NO HUB 1" FACE - HUB ONE SIDE



1 1/4" face - no hub

1" face - hub one side



10 D.P.

CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	WT. IN LBS.
F-1015	15	1.5"	3/4"	3/16" X 3/32"	.06	HF-1015	15	1.5"	5/8"	1 3/16"	5/8"	.03
F-1016	16	1.6"	"	"	.06	HF-1016	16	1.6"	"	1 5/16"	"	.03
F-1017	17	1.7"	"	"	.09							
F-1018	18	1.8"	"	"	.09	HF-1018	18	1.8"	"	1 1/2"	"	.06
F-1019	19	1.9"	"	"	.12							
F-1020	20	2.0"	"	"	.14	HF-1020	20	2.0"	3/4"	1 11/16"	"	.12
F-1022	22	2.2"	"	"	.19							
F-1025	25	2.5"	"	"	.25	HF-1025	25	2.5"	"	2 3/16"	"	.25
F-1030	30	3.0"	"	"	.38							
F-1035	35	3.5"	"	"	.53	HF-1030	30	3.0"	"	2 11/16"	"	.43

# 8-PITCH SPUR TYPE CHANGE GEARS

## 14 1/2° INVOLUTE TOOTH FORM ALL 1 1/4" FACE



STYLE "K"  
1 3/8" Hole with  
Two 3/8" x 3/16"  
Keyways at 180°



**UNION  
GEAR  
EXCLUSIVE**

STYLE "P"  
1" Hole  
No Keyway

### STATE CATALOG NUMBER AND STYLE WANTED

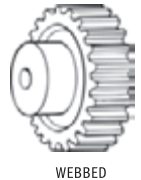
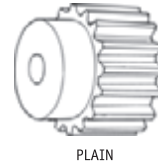
STEEL, PLAIN, NO HUBS				CAST IRON				CAST IRON			
CAT. NO.	TEETH	PITCH DIAM.	LBS.	CAT. NO.	TEETH	PITCH DIAM.	LBS.	CAT. NO.	TEETH	PITCH DIAM.	LBS.
CG-820	20	2.500"	1.31	CG-843	43	5.375"	5.60	CG-871	71	8.875"	13.8
CG-821	21	2.625"	1.48	CG-844	44	5.500"	5.80	CG-872	72	9.000"	13.9
CG-822	22	2.750"	1.65	CG-845	45	5.625"	6.00	CG-873	73	9.125"	13.9
CG-823	23	2.875"	1.82	CG-846	46	5.750"	6.10	CG-874	74	9.250"	14.0
CG-824	24	3.000"	2.00	CG-847	47	5.875"	6.20	CG-875	75	9.375"	14.2
CG-825	25	3.125"	2.00	CG-848	48	6.000"	6.30	CG-876	76	9.500"	14.8
CG-826	26	3.250"	2.30	CG-849	49	6.125"	6.40	CG-877	77	9.625"	14.8
CG-827	27	3.375"	2.50	CG-850	50	6.250"	6.50	CG-878	78	9.750"	15.1
CG-828	28	3.500"	2.70	CG-851	51	6.375"	6.74	CG-879	79	9.875"	15.2
CG-829	29	3.625"	2.80	CG-852	52	6.500"	6.93	CG-880	80	10.000"	15.5
CG-830	30	3.750"	3.30	CG-853	53	6.625"	7.12	CG-881	81	10.125"	16.0
CG-831	31	3.875"	3.60	CG-854	54	6.750"	7.31	CG-882	82	10.250"	16.0
CG-832	32	4.000"	3.80	CG-855	55	6.875"	7.50	CG-883	83	10.375"	16.6
CG-833	33	4.125"	4.00	CG-856	56	7.000"	7.69	CG-884	84	10.500"	17.2
CG-834	34	4.250"	4.30	CG-857	57	7.125"	7.88	CG-885	85	10.625"	17.8
CG-835	35	4.375"	4.60	CG-858	58	7.250"	8.00	CG-886	86	10.750"	18.1
CG-836	36	4.500"	4.90	CG-859	59	7.375"	8.19	CG-887	87	10.875"	18.7
CG-837	37	4.625"	5.30	CG-860	60	7.500"	8.38	CG-888	88	11.000"	19.0
CG-838	38	4.750"	5.60	CG-861	61	7.625"	8.91	CG-889	89	11.125"	19.1
CG-839	39	4.875"	5.90	CG-862	62	7.750"	9.44	CG-890	90	11.250"	19.9
CG-840	40	5.000"	6.30	CG-863	63	7.875"	9.97	CG-891	91	11.375"	20.6
CG-841	41	5.125"	7.30	CG-864	64	8.000"	10.5	CG-892	92	11.500"	21.0
CG-842	42	5.250"	7.30	CG-865	65	8.125"	12.3	CG-893	93	11.625"	21.2
				CG-866	66	8.250"	12.4	CG-894	94	11.750"	21.4
				CG-867	67	8.375"	13.0	CG-895	95	11.875"	22.0
				CG-868	68	8.500"	13.0	CG-896	96	12.000"	22.7
				CG-869	69	8.625"	13.0	CG-897	97	12.125"	23.3
				CG-870	70	8.750"	13.3	CG-898	98	12.250"	26.0
								CG-899	99	12.375"	26.3
								CG-8100	100	12.500"	26.6

**Made to Order  
Custom Gear  
Service**

**ALL CHANGE GEARS LISTED IN THIS CATALOG FROM 20 D.P. TO 8 D.P. ARE GENERATED WITH A 14 1/2° PRESSURE ANGLE INVOLUTE TOOTH FORM AND WILL RUN WITH ANY OTHER SPUR TYPE GEAR OF THE SAME DIAMETRAL PITCH AND PRESSURE ANGLE.**

## 8-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 1 1/4" FACE - HUB ONE SIDE



"HG" SERIES -STEEL

SPUR GEARS-HUB ONE SIDE

"G" SERIES CAST IRON

CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
8HG-12	12	1.500"	3/4"	1 1/8"	3/4"	PLAIN	.56	8G-44	44	5.500"	1"	2 1/2"	1"	WEB	6.8
8HG-14	14	1.750"	"	1 3/8"	"	"	.84	8G-48	48	6.000"	"	2 3/4"	"	"	8.2
8HG-15	15	1.875"	7/8"	1 1/2"	"	"	.94	8G-52	52	6.500"	"	"	"	"	8.9
8HG-16	16	2.000"	"	1 5/8"	"	"	1.1	8G-54	54	6.750"	"	"	"	"	9.4
8HG-18	18	2.250"	"	1 7/8"	"	"	1.6	8G-56	56	7.000"	"	"	"	"	9.7
8HG-20	20	2.500"	"	2 1/8"	"	"	2.0	8G-64	64	8.000"	"	"	"	SPOKE	11.0
8HG-22	22	2.750"	"	2 3/8"	"	"	2.6	8G-72	72	9.000"	"	3"	1 1/8"	"	13.0
8HG-24	24	3.000"	"	2 5/8"	1"	"	3.5	8G-80	80	10.000"	1 1/8"	"	"	"	15.0
8HG-28	28	3.500"	"	"	"	"	4.4	8G-84	84	10.500"	"	"	"	"	15.5
8HG-30	30	3.750"	1"	2 3/4"	"	"	5.1	8G-88	88	11.000"	"	"	"	"	16.0
8HG-32	32	4.000"	"	2 7/8"	"	"	5.7	8G-92	92	11.500"	"	"	"	"	17.0
8HG-36	36	4.500"	"	3"	"	"	7.0	8G-96	96	12.000"	"	3 1/4"	"	"	18.0
8HG-40	40	5.000"	"	"	"	"	8.7	8G-112	112	14.000"	"	"	"	"	21.0
8HG-42	42	5.250"	"	"	"	"	9.8	8G-128	128	16.000"	"	"	"	"	24.0
								8G-144	144	18.000"	"	3 1/2"	1 1/4"	"	29.0
								8G-160	160	20.000"	"	"	"	"	33.0

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 2" FACE



UNION GEAR EXCLUSIVE

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
8LG-12	12	1.500"	3/4"	.65	8LG-18	18	2.250"	7/8"	1.8
8LG-13	13	1.625"	"	.87	8LG-19	19	2.375"	"	2.0
8LG-14	14	1.750"	7/8"	.94	8LG-20	20	2.500"	1"	2.2
8LG-15	15	1.875"	"	1.2	8LG-21	21	2.625"	"	2.5
8LG-16	16	2.000"	"	1.4	8LG-22	22	2.750"	"	2.8
8LG-17	17	2.125"	"	1.6	8LG-24	24	3.000"	"	3.5

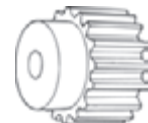
## NON-METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM



Plain - 1 1/2" face - no hub

1 1/4" face - hub one side



8 D.P.

CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	WT. IN LBS.
F-815	15	1.875"	3/4"	3/16" X 3/32"	.15	HF-816	16	2.000"	3/4"	1 5/8"	3/4"	.15
F-816	16	2.000"	"	"	.17							
F-817	17	2.125"	1"	1/4" X 1/8"	.19	HF-818	18	2.250"	"	1 7/8"	"	.25
F-818	18	2.250"	"	"	.22							
F-819	19	2.375"	"	"	.25							
F-820	20	2.500"	"	"	.28	HF-820	20	2.500"	7/8"	2 1/8"	"	.30
F-821	21	2.625"	"	"	.31							
F-822	22	2.750"	"	"	.37							
F-824	24	3.000"	"	"	.43	HF-824	24	3.000"	"	2 5/8"	"	.50
F-825	25	3.125"	"	"	.47							
F-828	28	3.500"	"	"	.62							
F-830	30	3.750"	"	"	.75	HF-828	28	3.500"	"	3 1/8"	"	.70

## 6-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 1 1/2" FACE - HUB ONE SIDE



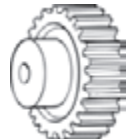
.5236" Cir. Pitch



PLAIN



SPOKED



WEBBED

"HG" SERIES -STEEL

SPUR GEARS-HUB ONE SIDE

"G" SERIES-CAST IRON

CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
6HG-12	12	2.000"	1"	1 1/2"	7/8"	PLAIN	1.2	6G-32	32	5.333"	1 1/8"	2 3/4"	1"	WEB	8.9
6HG-14	14	2.333"	"	1 13/16"	"	"	1.8	6G-33	33	5.500"	"	3"	"	"	9.7
6HG-15	15	2.500"	"	2"	"	"	2.3	6G-36	36	6.000"	"	"	"	"	10.0
6HG-16	16	2.666"	"	2 3/16"	"	"	2.7	6G-40	40	6.666"	"	"	"	"	10.7
6HG-18	18	3.000"	"	2 1/2"	"	"	3.6	6G-42	42	7.000"	"	"	"	"	11.0
6HG-20	20	3.333"	"	2 7/8"	"	"	4.7	6G-48	48	8.000"	"	"	"	SPOKE	13.0
6HG-21	21	3.500"	"	3"	"	"	5.1	6G-54	54	9.000"	"	3 1/4"	1 1/4"	"	15.0
6HG-24	24	4.000"	1 1/8"	"	1"	"	6.6	6G-60	60	10.000"	1 1/4"	"	"	"	18.0
6HG-27	27	4.500"	"	"	"	"	8.0	6G-64	64	10.666"	"	"	"	"	20.0
6HG-30	30	5.000"	"	3 1/8"	"	"	9.8	6G-66	66	11.000"	"	"	"	"	21.0
								6G-72	72	12.000"	"	3 1/2"	"	"	24.0
								6G-84	84	14.000"	"	"	"	"	28.0
								6G-96	96	16.000"	"	"	"	"	32.0
								6G-108	108	18.000"	"	3 3/4"	1 1/2"	"	37.0
								6G-120	120	20.000"	"	"	"	"	42.0
								6G-132	132	22.000"	"	"	"	"	46.0
								6G-144	144	24.000"	"	4"	"	"	52.0

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN 2 1/2" FACE - NO HUB



**UNION GEAR EXCLUSIVE**

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
6LG-12	12	2.000"	1"	1.5	6LG-18	18	3.000"	1"	4.3
6LG-13	13	2.166"	"	1.9	6LG-19	19	3.166"	"	4.8
6LG-14	14	2.333"	"	2.3	6LG-20	20	3.333"	"	5.4
6LG-15	15	2.500"	"	2.8	6LG-21	21	3.500"	"	6.4
6LG-16	16	2.666"	"	3.3	6LG-22	22	3.666"	"	7.4
6LG-17	17	2.833"	"	3.8	6LG-24	24	4.000"	"	8.3

## NON-METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM

.5236" Cir. Pitch



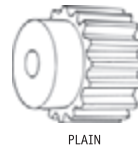
Plain - 1 3/4" face - no hub

CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.
F-614	14	2.333"	1"	1/4" X 1/8"	.25	F-619	19	3.166"	1 1/8"	1/4" x 1/8"	.57
F-615	15	2.500"	"	"	.34	F-620	20	3.333"	"	"	.62
F-616	16	2.666"	"	"	.38	F-621	21	3.500"	"	"	.69
F-617	17	2.833"	"	"	.43	F-622	22	3.666"	"	"	.78
F-618	18	3.000"	1 1/8"	"	.50	F-624	24	4.000"	"	"	.93



## 5-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 1 3/4" FACE - HUB ONE SIDE



"HG" SERIES -STEEL

SPUR GEARS-HUB ONE SIDE

"G" SERIES-CAST IRON

CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
* 5HG-11	11	2.40"	1"	1 13/16"	7/8"	PLAIN	2.0	5G-28	28	5.60"	1"	3 3/8"	1 1/4"	WEB	13.0
								5G-30	30	6.00"	"	"	"	"	14.0
5HG-12	12	2.40"	"	"	"	"	2.0	5G-35	35	7.00"	1 3/16"	"	"	"	15.0
								5G-40	40	8.00"	"	3 1/4"	"	"	18.0
5HG-14	14	2.80"	"	2 1/4"	"	"	3.5	5G-45	45	9.00"	"	3 1/2"	"	"	22.0
								5G-50	50	10.00"	"	"	"	"	24.0
5HG-15	15	3.00"	"	2 7/16"	"	"	4.0	5G-55	55	11.00"	"	"	"	SPOKE	26.0
								5G-60	60	12.00"	"	3 3/4"	"	"	29.0
5HG-16	16	3.20"	"	2 5/8"	"	"	5.0	5G-65	65	13.00"	"	"	"	"	32.0
								5G-70	70	14.00"	"	"	"	"	35.0
5HG-18	18	3.60"	"	3"	"	"	6.5	5G-75	75	15.00"	"	"	"	"	38.0
								5G-80	80	16.00"	"	4"	"	"	40.0
5HG-20	20	4.00"	"	3 3/8"	"	"	7.5	5G-90	90	18.00"	"	"	1 1/2"	"	46.0
								5G-96	96	19.20"	"	"	"	"	48.0
5HG-24	24	4.80"	"	"	1 1/4"	"	11.1	5G-100	100	20.00"	"	"	"	"	50.0
								5G-110	110	22.00"	"	4 1/4"	"	"	58.0
5HG-25	25	5.00"	"	"	"	"	12.1	5G-120	120	24.00"	"	"	"	"	65.0

\* SPECIAL PITCH DIAMETER WITH PYRAMID TOOTH FORM

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 2 3/4" FACE



**UNION GEAR EXCLUSIVE**

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
5LG-12	12	2.40"	1 1/8"	2.5	5LG-17	17	3.40"	1 1/4"	6.8
5LG-13	13	2.60"	"	3.1	5LG-18	18	3.60"	"	7.1
5LG-14	14	2.80"	"	3.7	5LG-19	19	3.80"	"	7.6
5LG-15	15	3.00"	"	4.4	5LG-20	20	4.00"	"	8.5
5LG-16	16	3.20"	1 1/4"	5.0	5LG-24	24	4.80"	"	12.8

## NON - METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM



Plain - 2" face - no hub

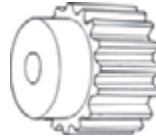
CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.
F-514	14	2.80"	1 1/8"	1/4" X 1/8"	.43	F-518	18	3.60"	1 1/8"	1/4" X 1/8"	.87
F-515	15	3.00"	"	"	.56	F-519	19	3.80"	1 1/4"	"	.91
F-516	16	3.20"	"	"	.65	F-520	20	4.00"	"	"	1.03
F-517	17	3.40"	"	"	.75	F-521	21	4.20"	"	"	1.15

## 4-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 2" FACE - HUB ONE SIDE



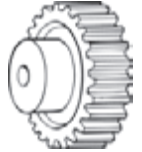
.7854" Pitch



PLAIN



SPOKED



WEBBED

### "HG" SERIES -STEEL

### SPUR GEARS-HUB ONE SIDE

### "G" SERIES-CAST IRON

CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
* 4HG-11	11	3.00"	1 1/8"	2 5/16"	7/8"	PLAIN	4.0	4G-24	24	6.00"	1 1/8"	3 1/2"	1 1/2"	WEB	17.0
								4G-28	28	7.00"	1 1/4"	"	"	"	19.5
4HG-12	12	3.00"	"	"	"	"	4.0	4G-32	32	8.00"	"	"	"	"	22.0
								4G-36	36	9.00"	"	3 3/4"	"	"	27.0
4HG-14	14	3.50"	"	2 3/4"	"	"	6.0	4G-40	40	10.00"	"	"	"	"	30.0
								4G-44	44	11.00"	"	"	"	SPOKE	31.0
4HG-15	15	3.75"	"	3"	"	"	7.0	4G-48	48	12.00"	"	4"	"	"	35.0
								4G-54	54	13.50"	"	"	"	"	39.0
4HG-16	16	4.00"	"	3 1/4"	"	"	8.0	4G-56	56	14.00"	"	"	"	"	42.0
								4G-60	60	15.00"	"	"	"	"	45.0
4HG-18	18	4.50"	"	3 3/4"	"	"	11.0	4G-64	64	16.00"	"	"	"	"	48.0
								4G-72	72	18.00"	"	4 1/4"	"	"	57.0
4HG-20	20	5.00"	"	4 1/4"	"	"	13.0	4G-80	80	20.00"	1 3/8"	"	"	"	62.0
								4G-88	88	22.00"	"	"	1 3/4"	"	70.0
4HG-22	22	5.50"	"	4 3/4"	"	"	16.0	4G-96	96	24.00"	"	4 1/2"	"	"	80.0

\* SPECIAL PITCH DIAMETER WITH PYRAMID TOOTH FORM

## STEEL LONG FACE PINIONS

**UNION GEAR EXCLUSIVE - IN STOCK**

14 1/2° INVOLUTE TOOTH FORM PLAIN - WITHOUT HUBS - ALL 3" FACE



.7854" Pitch



**UNION GEAR EXCLUSIVE**

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
4LG-12	12	3.00"	1 1/4"	4.7	4LG-18	18	4.50"	1 3/8"	11.9
4LG-13	13	3.25"	"	5.7	4LG-19	19	4.75"	"	13.3
4LG-14	14	3.50"	"	6.8	4LG-20	20	5.00"	"	15.0
4LG-15	15	3.75"	"	8.0	4LG-21	21	5.25"	"	16.7
4LG-16	16	4.00"	"	9.3	4LG-22	22	5.50"	"	18.4
4LG-17	17	4.25"	"	10.6	4LG-24	24	6.00"	"	22.3

## NON - METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM

Plain - 2 1/4" face - no hub



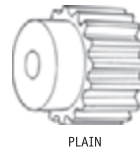
.7854" Pitch



CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.
F-412	12	3.00"	1 1/4"	1/4" X 1/8"	.6	F-417	17	4.25"	1 3/8"	3/8" x 3/16"	1.3
F-413	13	3.25"	"	"	.7	F-418	18	4.50"	1 5/8"	"	1.4
F-414	14	3.50"	"	"	.8	F-419	19	4.75"	"	"	1.6
F-415	15	3.75"	1 3/8"	3/8" X 3/16"	.9	F-420	20	5.00"	"	"	1.8
F-416	16	4.00"	"	"	1.1	F-421	21	5.25"	"	"	2.0

## 3-PITCH SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM 3" FACE



STEEL SPUR GEARS- PLAIN, NO HUB								CAST IRON SPUR GEARS- HUB ONE SIDE							
CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIAM.	HUB PROJ.	STYLE	WT. IN LBS.
3G-12	12	4.000"	1 5/16"	NONE	NONE	PLAIN	9.0	3G-24	24	8.00"	1 7/16"	4 1/2"	1 1/4"	WEB	41.0
								3G-30	30	10.00"	"	5"	"	"	52.0
3G-14	14	4.666"	"	"	"	"	13.0	3G-36	36	12.00"	"	5 1/4"	1 3/4"	"	71.0
								3G-48	48	16.00"	"	"	"	SPOKE	95.0
3G-15	15	5.000"	"	"	"	"	15.0	3G-54	54	18.00"	"	"	"	"	105.0
								3G-60	60	20.00"	"	"	"	"	119.0
3G-16	16	5.333"	"	"	"	"	18.0	3G-72	72	24.00"	1 11/16"	5 1/2"	"	"	150.0
								3G-84	84	28.00"	"	5 3/4"	"	"	176.0
3G-18	18	6.000"	"	"	"	"	22.0	3G-90	90	30.00"	"	"	"	"	185.0
								3G-96	96	32.00"	2"	"	"	"	196.0
3G-20	20	6.666"	"	"	"	"	27.0	3G-108	108	36.00"	"	"	"	"	227.0
								3G-120	120	40.00"	"	6"	"	"	259.0

## STEEL LONG FACE PINIONS

14 1/2° INVOLUTE TOOTH FORM PLAIN WITHOUT HUBS - ALL 4" FACE

UNION GEAR EXCLUSIVE



UNION GEAR EXCLUSIVE

CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	WT. IN LBS.
3LG-12	12	4.000"	1 3/4"	11.0	3LG-16	16	5.333"	1 15/16"	21.3
3LG-13	13	4.333"	"	13.7	3LG-17	17	5.666"	"	24.5
3LG-14	14	4.666"	"	16.2	3LG-18	18	6.000"	"	27.8
3LG-15	15	5.000"	1 15/16 "	18.5	3LG-19	19	6.333"	"	31.2

## NON - METALLIC SPUR GEARS

14 1/2° INVOLUTE TOOTH FORM



Plain - 3 1/4" face - no hub

CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.	TEETH	PITCH DIAM.	HOLE	KEYWAY	WT. IN LBS.
F-312	12	4.000"	1 5/8"	3/8" X 3/16"	1.6	F-316	16	5.333"	1 5/8"	3/8" x 3/16"	3.1
F-313	13	4.333"	"	"	1.9	F-317	17	5.666"	"	"	3.5
F-314	14	4.666"	"	"	2.2	F-318	18	6.000"	"	"	3.9
F-315	15	5.000"	"	"	2.7	F-319	19	6.333"	"	"	4.4

# STEEL MITER GEARS

## IN STOCK



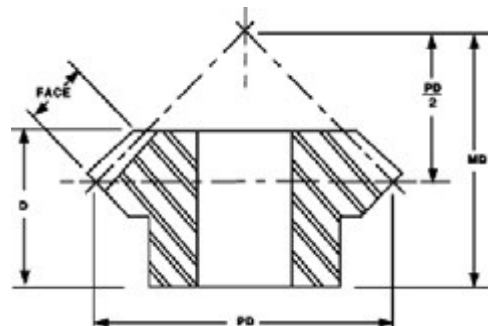
### NATURAL STATE 20° INVOLUTE TOOTH FORM

### 20° INVOLUTE TOOTH MITER GEARS WILL NOT RUN WITH 14-1/2°

### HARDENED TEETH 20° INVOLUTE TOOTH FORM

CAT. NO.	PITCH	NO. TEETH	PITCH DIAM.	FACE	HOLE	HUB DIAM.	D DIM.	MD DIM.	LBS.	CAT. NO.	PITCH	NO. TEETH	PITCH DIAM.	FACE	HOLE	HUB DIAM.	D DIM.	MD DIM.	LBS.
SMT-1616	16	16	1"	.22"	3/8"	3/4"	3/4"	1 1/16"	.03	HSMT-1616	16	16	1"	.22"	3/8"	3/4"	3/4"	1 1/16"	.03
SMT-1414	14	14	1"	.19"	7/16"	7/8"	47/64"	1 1/16"	.03	HSMT-1414	14	14	1"	.19"	7/16"	7/8"	47/64"	1 1/16"	.03
SMT-1620	16	20	1 1/4"	.27"	7/16"	1"	27/32"	1 1/4"	.13	HSMT-1620	16	20	1 1/4"	.27"	7/16"	1"	27/32"	1 1/4"	.13
SMT-1215-A	12	15	1 1/4"	.27"	3/8"	1"	55/64"	1 1/4"	.13	HSMT-1215-A	12	15	1 1/4"	.27"	3/8"	1"	55/64"	1 1/4"	.13
SMT-1215-B	12	15	1 1/4"	.27"	1/2"	1"	55/64"	1 1/4"	.13	HSMT-1215-B	12	15	1 1/4"	.27"	1/2"	1"	55/64"	1 1/4"	.13
SMT-1624	16	24	1 1/2"	.31"	1/2"	1"	7/8"	1 3/8"	.16	HSMT-1624	16	24	1 1/2"	.31"	1/2"	1"	7/8"	1 3/8"	.16
SMT-1218-A	12	18	1 1/2"	.32"	1/2"	1 1/4"	1 1/64"	1 1/2"	.25	HSMT-1218-A	12	18	1 1/2"	.32"	1/2"	1 1/4"	1 1/64"	1 1/2"	.25
SMT-1218-B	12	18	1 1/2"	.32"	5/8"	1 1/4"	1 1/64"	1 1/2"	.25	HSMT-1218-B	12	18	1 1/2"	.32"	5/8"	1 1/4"	1 1/64"	1 1/2"	.25
SMT-1221-A	12	21	1 3/4"	.39"	1/2"	1 3/8"	1 3/16"	1 3/4"	.41	HSMT-1221-A	12	21	1 3/4"	.39"	1/2"	1 3/8"	1 3/16"	1 3/4"	.41
SMT-1221-B	12	21	1 3/4"	.39"	5/8"	1 3/8"	1 3/16"	1 3/4"	.41	HSMT-1221B	12	21	1 3/4"	.39"	5/8"	1 3/8"	1 3/16"	1 3/4"	.41
SMT-1224	12	24	2"	.43"	1/2"	1 5/16"	1 7/32"	1 7/8"	.47	HSMT-1224	12	24	2"	.43"	1/2"	1 5/16"	1 7/32"	1 7/8"	.47
SMT-1020-A	10	20	2"	.44"	1/2"	1 5/8"	1 23/64"	2"	.66	HSMT-1020-A	10	20	2"	.44"	1/2"	1 5/8"	1 23/64"	2"	.66
SMT-1020-B	10	20	2"	.44"	5/8"	1 5/8"	1 23/64"	2"	.66	HSMT-1020-B	10	20	2"	.44"	5/8"	1 5/8"	1 23/64"	2"	.66
SMT-1020-C	10	20	2"	.44"	3/4"	1 5/8"	1 23/64"	2"	.66	HSMT-1020-C	10	20	2"	.44"	3/4"	1 5/8"	1 23/64"	2"	.66
SMT-1230	12	30	2 1/2"	.54"	5/8"	1 5/8"	1 31/64"	2 5/16"	1.2	HSMT-1230	12	30	2 1/2"	.54"	5/8"	1 5/8"	1 31/64"	2 5/16"	1.2
SMT-1025-A	10	25	2 1/2"	.55"	3/4"	2"	1 5/8"	2 7/16"	1.3	HSMT-1025-A	10	25	2 1/2"	.55"	3/4"	2"	1 5/8"	2 7/16"	1.3
SMT-1025-B	10	25	2 1/2"	.55"	7/8"	2"	1 5/8"	2 7/16"	1.3	HSMT-1025-B	10	25	2 1/2"	.55"	7/8"	2"	1 5/8"	2 7/16"	1.3
SMT-1025-C	10	25	2 1/2"	.55"	1"	2"	1 5/8"	2 7/16"	1.3	HSMT-1025-C	10	25	2 1/2"	.55"	1"	2"	1 5/8"	2 7/16"	1.3
SMT-824-A	8	24	3"	.64"	3/4"	2 1/4"	1 37/64"	2 9/16"	1.8	HSMT-824-A	8	24	3"	.64"	3/4"	2 1/4"	1 37/64"	2 9/16"	1.8
SMT-824-B	8	24	3"	.64"	1"	2 1/2"	1 49/64"	2 3/4"	1.8	HSMT-824-B	8	24	3"	.64"	1"	2 1/2"	1 49/64"	2 3/4"	1.8
SMT-824-C	8	24	3"	.64"	1 1/4"	2 1/2"	1 49/64"	2 3/4"	1.8	HSMT-824-C	8	24	3"	.64"	1 1/4"	2 1/2"	1 49/64"	2 3/4"	1.8
SMT-828-A	8	28	3 1/2"	.75"	1"	2 1/2"	2 3/32"	3 1/4"	2.7	HSMT-828-A	8	28	3 1/2"	.75"	1"	2 1/2"	2 3/32"	3 1/4"	2.7
SMT-828-B	8	28	3 1/2"	.75"	1 1/4"	2 1/2"	2 3/32"	3 1/4"	2.7	HSMT-828-B	8	28	3 1/2"	.75"	1 1/4"	2 1/2"	2 3/32"	3 1/4"	2.7
SMT-832	8	32	4"	.84"	1"	3"	2 9/32"	3 5/8"	4.5	HSMT-832	8	32	4"	.84"	1"	3"	2 9/32"	3 5/8"	4.5
SMT-624-A	6	24	4"	.86"	1 1/4"	3"	2 5/16"	3 5/8"	4.1	HSMT-624-A	6	24	4"	.86"	1 1/4"	3"	2 5/16"	3 5/8"	4.1
SMT-624-B	6	24	4"	.86"	1 1/2"	3"	2 5/16"	3 5/8"	4.1	HSMT-624-B	6	24	4"	.86"	1 1/2"	3"	2 5/16"	3 5/8"	4.1
SMT-525	5	25	5"	1.10"	1 1/4"	3 1/2"	3"	4 5/8"	8.8	HSMT-525	5	25	5"	1.10"	1 1/4"	3 1/2"	3"	4 5/8"	8.8
SMT-424	4	24	6"	1.33"	1 1/2"	4"	3 9/16"	5 1/2"	14.0	HSMT-424	4	24	6"	1.33"	1 1/2"	4"	3 9/16"	5 1/2"	14.0

**SMT** - Gears are not hardened  
**HSMT** - Gears are stocked with teeth area hardened.  
 (No keyways or set screws.)



## STEEL MITER GEARS

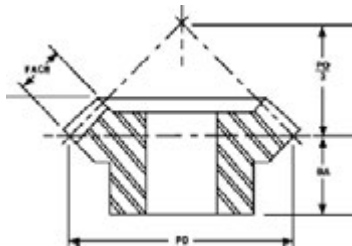
### 14 1/2° INVOLUTE TOOTH FORM



**UNION  
GEAR  
EXCLUSIVE**

CAT. NO.	PITCH	NO. TEETH	PITCH DIAM.	FACE	HOLE	HUB DIAM.	BA DIM.	WT. IN LBS.
SM-1616	16	16	1"	1/4"	3/8"	3/4"	9/16"	.03
SM-1414	14	14	1"	9/32"	7/16"	7/8"	9/16"	.03
SM-1620	16	20	1 1/4"	5/16"	7/16"	1"	5/8"	.13
SM-1215-A	12	15	1 1/4"	3/8"	3/8"	1"	3/8"	.13
SM-1215-B	12	15	1 1/4"	3/8"	1/2"	1"	5/8"	.13
SM-1624	16	24	1 1/2"	3/8"	1/2"	1"	5/8"	.16
SM-1218-A	12	18	1 1/2"	7/16"	1/2"	1 1/4"	3/4"	.17
SM-1218-B	12	18	1 1/2"	7/16"	3/8"	1 1/4"	3/4"	.25
SM-1221-A	12	21	1 3/4"	7/16"	1/2"	1 3/8"	7/8"	.41
SM-1221-B	12	21	1 3/4"	7/16"	5/8"	1 3/8"	7/8"	.41
SM-1224	12	24	2"	1/2"	1/2"	1 5/16"	7/8"	.47
SM-1020-A	10	20	2"	9/16"	1/2"	1 5/8"	1"	.66
SM-1020-B	10	20	2"	9/16"	5/8"	1 5/8"	1"	.66
SM-1020-C	10	20	2"	9/16"	3/4"	1 5/8"	1"	.66
SM-1230	12	30	2 1/2"	5/8"	5/8"	1 5/8"	1 1/16"	1.2
SM-1025-A	10	25	2 1/2"	11/16"	3/4"	2"	1 3/16"	1.3
SM-1025-B	10	25	2 1/2"	11/16"	7/8"	2"	1 3/16"	1.3
SM-1025-C	10	25	2 1/2"	11/16"	1"	2"	1 3/16"	1.3
SM-824-A	8	24	3"	3/4"	3/4"	2 1/4"	1 1/16"	1.8
SM-824-B	8	24	3"	3/4"	1/2"	2 1/2"	1 1/4"	1.8
SM-824-C	8	24	3"	3/4"	1/4"	1 1/2"	1 1/4"	1.8
SM-828-A	8	28	3 1/2"	7/8"	1/2"	2 1/2"	1 1/2"	2.7
SM-828-B	8	28	3 1/2"	7/8"	1 1/4"	2 1/2"	1 1/2"	2.7
SM832	8	32	4"	15/16"	1"	3"	1 5/8"	4.5
SM-624-A	6	24	4"	1 1/16"	1 1/4"	3"	1 5/8"	4.1
SM-624-B	6	24	4"	1 1/16"	1 1/2"	3"	1 5/8"	4.1
SM-525	5	25	5"	1 3/8"	1 1/4"	3 1/2"	2 1/8"	8.8
SM-424	4	24	6"	1 5/8"	1 1/2"	4"	2 1/2"	14.0

DISCONTINUED



### 14 1/2° INVOLUTE TOOTH MITER GEARS

WILL NOT RUN WITH 20° MITERS

MD DIMENSION SAME AS 20° MITERS

## HARDENED TOOTH GEARS

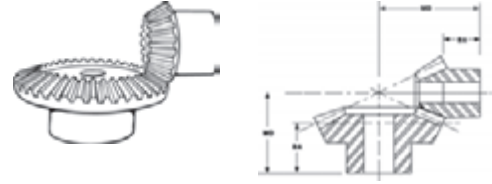
HSMT-K, AK AND BK HAVE KEYWAY AND SET SCREW. FINISHED BORE MITER GEARS

20° INVOLUTE TOOTH MITER GEARS WILL NOT RUN WITH 14 1/2° MITERS.

CAT. NO.	HOLE	KEYWAY	S.S.
HSMT-1616-K	3/8	3/32 X 3/64	10-32
HSMT-1414-K	7/16	1/8 X 1/16	10-32
HSMT-1620-K	7/16	1/8 X 1/16	10-32
HSMT-1215-AK	3/8	3/16 X 3/64	10-32
HSMT-1215-BK	1/2	1/8 X 1/16	10-32
HSMT-1624-K	1/2	1/8 X 1/16	10-32
HSMT-1218-AK	1/2	1/8 X 1/16	10-32
HSMT-1218-BK	5/8	3/16 X 3/32	1/4-20
HSMT-1221-AK	1/2	1/8 X 1/16	10-32
HSMT-1221-BK	5/8	3/16 X 3/32	1/4-20
HSMT-1224-K	1/2	1/8 X 1/16	10-32

# BEVEL GEARS

STEEL (SB) • CAST IRON (CB)



CAT. NO.	PITCH	PRESSURE ANGLE	TEETH	PITCH DIAM.	FACE	HOLE	HUB DIAM.	BA	MD	WT. IN LBS.
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## RATIO-1 1/2 TO 1

SB-1624	16	20°	24	1 1/2"	.250"	1/2"	1 1/8"	11/16"	1 3/16"	.19
SB-1616X24			16	1"	.250"	3/8"	13/16"	1/2"	1 1/4"	.09
SB-1227	12	20°	27	2 1/4"	.410"	1/2"	1 1/2"	1"	1 3/4"	.75
SB-1218X27			18	1 1/2"	.410"	1/2"	1 1/4"	3/4"	1 7/8"	.40
SB-1030	10	20°	30	3"	.570"	3/4"	2 1/2"	1 1/4"	2 1/4"	2.1
SB-1020X30			20	2"	.570"	3/4"	1 3/4"	1"	2 1/2"	1.0

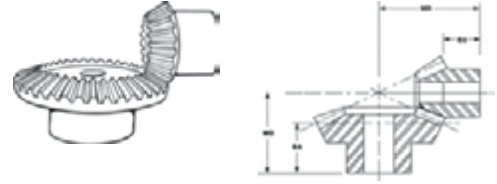
## RATIO-2 TO 1

SB-1632	16	20°	32	2"	.350"	1/2"	1 1/8"	11/16"	1 3/16"	.31
SB-1616X32			16	1"	.350"	3/8"	13/16"	1/2"	1 1/2"	.09
SB-1428	14	20°	28	2"	.350"	1/2"	1 5/8"	7/8"	1 3/8"	.56
SB-1414X28			14	1"	.350"	1/2"	13/16"	5/8"	1 5/8"	.06
SB-1236	12	20°	36	3"	.530"	5/8"	2 1/8"	1 1/8"	1 7/8"	1.4
SB-1218X36			18	1 1/2"	.530"	1/2"	1 5/16"	7/8"	2 3/8"	.40
CB-1248	12	20°	48	4"	.590"	5/8"	1 7/8"	1"	2"	1.8
SB-1224X48			24	2"	.590"	1/2"	1 1/2"	7/8"	2 7/8"	.72
SB-1040	10	20°	40	4"	.710"	7/8"	3"	1 1/2"	2 1/2"	3.8
SB-1020X40			20	2"	.710"	3/4"	1 3/4"	1 1/8"	3 1/8"	1.0
CB-1050	10	20°	50	5"	.700"	3/4"	2 1/4"	1 3/8"	2 5/8"	3.0
SB-1025X50			25	2 1/2"	.700"	3/4"	2"	7/8"	3 3/8"	1.5
SB-840	8	20°	40	5"	.820"	1"	3"	1 5/8"	2 7/8"	5.3
CB-840			"	"	.820"	"	"	"	"	4.6
SB-820X40			20	2 1/2"	.820"	7/8"	2 1/8"	1 1/2"	4"	1.8
SB-636	6	20°	36	6"	1.06"	1 1/8"	3 1/4"	2"	3 1/2"	8.9
CB-636			"	"	1.06"	"	"	"	"	7.7
SB-618X36			18	3"	1.06"	1"	2 1/2"	1 3/4"	4 3/4"	3.2
CB-648	6	20°	48	8"	1.17"	1 1/8"	3 1/2"	1 7/16"	3 7/16"	11.0
SB-624X48			24	4"	1.17"	1"	3"	1 7/16"	5 7/16"	5.6
CB-432	4	20°	32	8"	1.40"	1 1/8"	3 3/4"	2 1/4"	4 1/4"	15.0
SB-416X32			16	4"	1.40"	1 1/8"	3 1/4"	2"	6"	7.0
CB-330	3	20°	30	10"	2.00"	1 1/4"	5"	3"	5 1/2"	34.0
SB-315X30			15	5"	2.00"	1 1/8"	3 3/4"	2 1/4"	7 1/4"	12.5



# BEVEL GEARS

STEEL (SB) • CAST IRON (CB)



CAT. NO.	PITCH	PRESSURE ANGLE	TEETH	PITCH DIAM.	FACE	HOLE	HUB DIAM.	BA	MD	WT. IN LBS.
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## RATIO-3 TO 1

CB-1648	16	20°	48	3"	.420"	5/8"	1 1/2"	13/16"	1 5/16"	.69
SB-1616X48			16	1"	.420"	7/16"	7/8"	1/2"	2"	.09
CB-1254	12	20°	54	4 1/2"	.600"	5/8"	2 1/8"	1"	1 3/4"	2.2
SB-1218X54			18	1 1/2"	.600"	1/2"	1 1/4"	3/4"	3"	.40
CB-1060	10	20°	60	6"	.780"	7/8"	3"	1 3/4"	2 3/4"	5.8
SB-1020X60			20	2"	.780"	3/4"	1 3/4"	1 3/8"	4 3/8"	1.0
CB-848	8	20°	48	6"	.840"	7/8"	3"	1 3/8"	2 3/8"	5.4
SB-816X48			16	2"	.840"	3/4"	1 3/4"	1 1/4"	4 1/4"	1.2
CB-645	6	20°	45	7 1/2"	1.070"	1 1/8"	3 1/4"	1 3/4"	3"	9.0
SB-615X45			15	2 1/2"	1.070"	7/8"	2 1/8"	1 1/2"	5 1/4"	2.5
CB-545	5	20°	45	9"	1.375"	1 1/4"	3 3/4"	2 1/4"	3 3/4"	15.0
SB-515X45			15	3"	1.375"	1"	2 5/8"	1 3/8"	5 7/8"	3.2
CB-442	4	20°	42	10 1/2"	1.500"	1 1/8"	3 3/4"	2 1/4"	4"	24.0
SB-414X42			14	3 1/2"	1.500"	1 1/8"	3 1/4"	2"	7 1/4"	5.8

## RATIO-4 TO 1

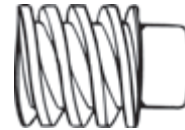
CB-1664	16	20°	64	4"	.480"	5/8"	1 3/4"	7/8"	1 3/8"	1.2
SB-1616X64			16	1"	.480"	1/2"	13/16"	1/2"	2 1/2"	.09
CB-1272	12	20°	72	6"	.600"	3/4"	2 1/4"	1 1/4"	2"	3.9
SB-1218X72			18	1 1/2"	.600"	1/2"	1 1/4"	3/4"	3 3/4"	.40
CB-864	8	20°	64	8"	.840"	1"	3 1/4"	1 3/4"	2 3/4"	9.1
SB-816X64			16	2"	.840"	7/8"	1 3/4"	1 1/4"	5 1/4"	1.2
CB-660	6	20°	60	10"	1.250"	1 1/8"	3 1/2"	2"	3 1/4"	15.0
SB-615X60			15	2 1/2"	1.250"	1"	2 1/4"	1 3/4"	6 3/4"	2.6

## RATIO-6 TO 1

CB-1090	10	20°	90	9"	.875"	1"	2 3/4"	1 3/4"	2 1/2"	8.8
SB-1015			15	1 1/2"	.875"	5/8"	1 5/16"	1"	5 1/2"	.63

## 16-PITCH WORM GEARS

14 1/2° INVOLUTE FORM RIGHT AND LEFT HAND



RIGHT HAND SINGLE



RIGHT HAND DOUBLE

### WORMS

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	SPECIFICATIONS									
			STATE	PITCH DIAM.	FACE	HOLE			HUB. DIA.	HUB. PROJ.	PIN HOLE IN HUB	WT. IN LBS.
						SIN.	DBLE.	QUAD.				
WH-16S	WH-16D	WH-16Q	HARD	5/8"	1"	5/16"	5/16"	5/16"	.46"	1/4"	NO.35 (.110)	.07
W-16S	W-16D	W-16Q	SOFT	5/8"	1"	1/4"	1/4"	1/4"	.46"	1/4"	NONE	.08

## BRONZE WORM GEARS



LEFT  
HAND



RIGHT  
HAND

WORMS SPECIFIED AS HARD, HAVE THREADS POLISHED

WHEN ORDERING  
STATE CATALOGUE NUMBER AND HAND

NO. THREADS	LEAD	THREAD ANGLE
Single	.1963"	5° 43'
Double	.3927"	11° 19'
Quad.	.7854"	21° 48'

### 5/16" FACE

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	SPECIFICATIONS										
			TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.	
										SIN.	DBLE.	QUAD.	
BWG-1620S	BWG-1620D	BWG-1620Q	20	1.250"	1/4"	5/8"	5/16"	.9375"	20:1	10:1	5:1	.13	
BWG-1630S	BWG-1630D	BWG-1630Q	30	1.875"	5/16"	3/4"	3/8"	1.250"	30:1	15:1	7.5:1	.25	
BWG-1640S	BWG-1640D	BWG-1640Q	40	2.500"	5/16"	3/4"	3/8"	1.5625"	40:1	20:1	10:1	.30	
BWG-1650S	BWG-1650D	BWG-1650Q	50	3.125"	3/8"	7/8"	7/16"	1.875"	50:1	25:1	12.5:1	.45	

We offer the most complete line of worms and worm gears in the nation. Our range is from 16 DP to 3 DP.

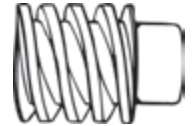
It includes not only the standard tooth sizes you expect to find, but also many of the odd sizes that other gear manufacturers have discontinued. On top of that, they are all available in bronze and cast iron, and our worms are offered in the soft state or heat treated and ground.

# 12-PITCH WORMS AND WORM GEARS

## 14 1/2° INVOLUTE FORM RIGHT AND LEFT HAND



LEFT HAND SINGLE



RIGHT HAND SINGLE

### WORMS

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	STATE	PITCH DIAM.	FACE	HOLE			HUB. DIA.	HUB. PROJ.	KEYWAY	WT. IN LBS.
						SIN.	DBLE.	QUAD.				
WH-12S	WH-12D	WH-12Q	HARD	1"	1 1/8"	1/2"	5/8"	5/8"	NONE	NONE	1/8" X 1/16"	.13
WS-12S	WS-12D	WS-12Q	SOFT	1"	1 1/8"	"	"	"	"	"	1/8" X 1/16"	.13
W-12S	W-12D	W-12Q	SOFT	1"	1 1/8"	"	1/2"	1/2"	3/4"	3/8"	NONE	.16

## WORM GEARS



LEFT  
HAND



RIGHT  
HAND

WORMS SPECIFIED AS HARD, HAVE THREADS AND ENDS GROUND.

WHEN ORDERING STATE CATALOG NUMBER AND HAND

NO. THREADS	LEAD	THREAD ANGLE
Single	.2618"	4° 46'
Double	.5236"	9° 28'
Quad.	1.0472"	18° 26'

1/2" FACE

### CAST IRON WORM GEARS

1/2" FACE

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
CWG-1218S	CWG-1218D	CWG-1218Q	18	1.500"	1/2"	1 1/4"	5/8"	1.250"	18:1	9:1	4.5:1	.28
CWG-1220S	CWG-1220D	CWG-1220Q	20	1.666"	"	"	"	1.3333"	20:1	10:1	5:1	.31
CWG-1224S	CWG-1224D	CWG-1224Q	24	2.000"	"	"	"	1.500"	24:1	12:1	6:1	.44
CWG-1230S	CWG-1230D	CWG-1230Q	30	2.500"	"	1 1/2"	"	1.750"	30:1	15:1	7.5:1	.78
CWG-1236S	CWG-1236D	CWG-1236Q	36	3.000"	"	"	"	2.000"	36:1	18:1	9:1	.97
CWG-1240S	CWG-1240D	CWG-1240Q	40	3.333"	5/8"	1 3/4"	3/4"	2.1666"	40:1	20:1	10:1	1.4
CWG-1248S	CWG-1248D	CWG-1248Q	48	4.000"	"	2"	"	2.500"	48:1	24:1	12:1	1.8
CWG-1250S	CWG-1250D	CWG-1250Q	50	4.166"	"	"	"	2.5833"	50:1	25:1	12.5:1	1.8
CWG-1260S	CWG-1260D	CWG-1260Q	60	5.000"	"	"	"	3.000"	60:1	30:1	15:1	2.3
CWG-1272S	CWG-1272D	CWG-1272Q	72	6.000"	"	"	"	3.500"	72:1	36:1	18:1	3.0
CWG-1280S	CWG-1280D	CWG-1280Q	80	6.666"	"	"	"	3.8333"	80:1	40:1	20:1	3.5
CWG-1296S	CWG-1296D	CWG-1296Q	96	8.000"	3/4"	2 1/4"	"	4.500"	96:1	48:1	24:1	5.2
CWG-12100S	CWG-12100D	CWG-12100Q	100	8.333"	"	"	"	4.6666"	100:1	50:1	25:1	5.3

1/2" FACE

### BRONZE WORM GEARS

1/2" FACE

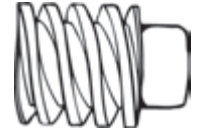
SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	Teeth	Pitch Diam.	Hole	Hub. Dia.	Hub. Proj.	Center Dist.	Ratios			Wt. in Lbs.
									Sin.	Dble.	Quad.	
BWG-1218S	BWG-1218D	BWG-1218Q	18	1.500"	1/2"	1 1/4"	5/8"	1.250"	18:1	9:1	4.5:1	.34
BWG-1220S	BWG-1220D	BWG-1220Q	20	1.666"	"	"	"	1.3333"	20:1	10:1	5:1	.37
BWG-1224S	BWG-1224D	BWG-1224Q	24	2.000"	"	"	"	1.500"	24:1	12:1	6:1	.53
BWG-1230S	BWG-1230D	BWG-1230Q	30	2.500"	"	1 1/2"	"	1.750"	30:1	15:1	7.5:1	.93
BWG-1236S	BWG-1236D	BWG-1236Q	36	3.000"	"	"	"	2.000"	36:1	18:1	9:1	1.2
BWG-1240S	BWG-1240D	BWG-1240Q	40	3.333"	5/8"	1 3/4"	3/4"	2.1666"	40:1	20:1	10:1	1.7
BWG-1248S	BWG-1248D	BWG-1248Q	48	4.000"	"	2"	"	2.500"	48:1	24:1	12:1	2.2
BWG-1250S	BWG-1250D	BWG-1250Q	50	4.166"	"	"	"	2.5833"	50:1	25:1	12.5:1	2.2
BWG-1260S	BWG-1260D	BWG-1260Q	60	5.000"	"	"	"	3.000"	60:1	30:1	15:1	2.7
BWG-1272S	BWG-1272D	BWG-1272Q	72	6.000"	"	"	"	3.500"	72:1	36:1	18:1	3.6
BWG-1280S	BWG-1280D	BWG-1280Q	80	6.666"	"	"	"	3.8333"	80:1	40:1	20:1	4.2
BWG-1296S	BWG-1296D	BWG-1296Q	96	8.000"	3/4"	2 1/4"	"	4.500"	96:1	48:1	24:1	6.3
BWG-12100S	BWG-12100D	BWG-12100Q	100	8.333"	"	"	"	4.6666"	100:1	50:1	25:1	6.4

# 10-PITCH WORMS AND WORM GEARS

## 14 1/2° INVOLUTE FORM RIGHT AND LEFT HAND



LEFT HAND DOUBLE



RIGHT HAND DOUBLE

### WORMS

SINGLE CAT. NO.	DOUBLE CAT.NO.	QUAD. CAT.NO.	SPECIFICATIONS									
			STATE	PITCH DIAM.	FACE	HOLE			HUB. DIA.	HUB. PROJ.	PIN HOLE IN HUB	WT. IN LBS.
						SIN.	DBLE.	QUAD.				
WH-10S	WH-10D	WH-10Q	HARD	1 1/4"	1 3/8"	5/8"	3/4"	3/4"	NONE	NONE	3/16" X 3/32"	.25
WS-10S	WS-10D	WS-10Q	SOFT	1 1/4"	1 3/8"	5/8"	3/4"	3/4"	"	"	3/16" X 3/32"	.25
W-10S	W-10D	W-10Q	SOFT	1 1/4"	1 3/8"	5/8"	5/8"	5/8"	1"	1/2"	NONE	.28

## WORM GEARS



LEFT  
HAND



RIGHT  
HAND

WORM SPECIFIED AS HARD, HAVE THREADS AND ENDS GROUND.

WHEN ORDERING STATE CATALOG NUMBER AND HAND

NO. THREADS	LEAD	THREAD ANGLE
Single	.3142"	4° 34'
Double	.6283"	9° 5'
Quad.	1.2566"	17° 45'

5/8" FACE

### CAST IRON WORM GEARS

5/8" FACE

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	SPECIFICATIONS									
			TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
CWG-1020S	CWG-1020D	CWG-1020Q	20	2.000"	1/2"	1 5/8"	3/4"	1.625"	20:1	10:1	5:1	.75
CWG-1030S	CWG-1030D	CWG-1030Q	30	3.000"	5/8"	1 3/4"	"	2.125"	30:1	15:1	7.5:1	1.4
CWG-1040S	CWG-1040D	CWG-1040Q	40	4.000"	"	2 1/4"	"	2.625"	40:1	20:1	10:1	1.8
CWG-1050S	CWG-1050D	CWG-1050Q	50	5.000"	3/4"	"	1"	3.125"	50:1	25:1	12.5:1	3.3
CWG-1060S	CWG-1060D	CWG-1060Q	60	6.000"	"	2 1/2"	"	3.625"	60:1	30:1	15:1	4.2
CWG-1080S	CWG-1080D	CWG-1080Q	80	8.000"	"	"	"	4.625"	80:1	40:1	20:1	6.6
CWG-10100S	CWG-10100D	CWG-10100Q	100	10.000"	"	"	"	5.625"	100:1	50:1	25:1	7.8

5/8" FACE

### BRONZE WORM GEARS

5/8" FACE

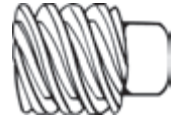
SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	SPECIFICATIONS									
			TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
BWG-1020S	BWG-1020D	BWG-1020Q	20	2.000"	1/2"	1 5/8"	3/4"	1.625"	20:1	10:1	5:1	.90
BWG-1030S	BWG-1030D	BWG-1030Q	30	3.000"	5/8"	1 3/4"	"	2.125"	30:1	15:1	7.5:1	1.7
BWG-1040S	BWG-1040D	BWG-1040Q	40	4.000"	"	2 1/4"	"	2.625"	40:1	20:1	10:1	2.2
BWG-1050S	BWG-1050D	BWG-1050Q	50	5.000"	3/4"	"	1"	3.125"	50:1	25:1	12.5:1	4.0
BWG-1060S	BWG-1060D	BWG-1060Q	60	6.000"	"	2 1/2"	"	3.625"	60:1	30:1	15:1	5.1
BWG-1080S	BWG-1080D	BWG-1080Q	80	8.000"	"	"	"	4.625"	80:1	40:1	20:1	8.0
BWG-10100S	BWG-10100D	BWG-10100Q	100	10.000"	"	"	"	5.625"	100:1	50:1	25:1	9.4

## 8-PITCH WORMS AND WORM GEARS

### 14 1/2° INVOLUTE FORM RIGHT AND LEFT HAND



LEFT HAND QUAD.



RIGHT HAND QUAD.

### WORMS

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	STATE	PITCH DIAM.	FACE	SPECIFICATIONS						
						HOLE			HUB. DIA.	HUB. PROJ.	KEYWAY	WT. IN LBS.
						SIN.	DBLE.	QUAD.				
WH-8S	WH-8D	WH-8Q	HARD	1 1/2"	1 3/4"	3/4"	7/8"	7/8"	NONE	NONE	3/16" X 3/32"	.50
WS-8S	WS-8D	WS-8Q	SOFT	1 1/2"	1 3/4"	3/4"	7/8"	7/8"	"	"	3/16" X 3/32"	.50
W-8S	W-8D	W-8Q	SOFT	1 1/2"	1 3/4"	3/4"	3/4"	3/4"	1 3/16"	5/8"	NONE	.70

## WORM GEARS



LEFT  
HAND



RIGHT  
HAND

WORMS SPECIFIED AS HARD, HAVE THREADS  
AND ENDS GROUND.

WHEN ORDERING STATE CATALOG NUMBER AND HAND.

NO. THREADS	LEAD	THREAD ANGLE
Single	.3927"	4° 46'
Double	.7854"	9° 28'
Quad.	1.5708"	18° 26'

### 3/4" FACE CAST IRON WORM GEARS 3/4" FACE

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
									CWG-820S	CWG-820D	CWG-820Q	
CWG-824S	CWG-824D	CWG-824Q	24	3.000"	"	"	"	2.250"	24:1	12:1	6:1	1.6
CWG-830S	CWG-830D	CWG-830Q	30	3.750"	"	2 1/4"	"	2.625"	30:1	15:1	7.5:1	2.5
CWG-832S	CWG-832D	CWG-832Q	32	4.000"	"	"	"	2.750"	32:1	16:1	8:1	2.7
CWG-840S	CWG-840D	CWG-840Q	40	5.000"	1"	2 1/2"	7/8"	3.250"	40:1	20:1	10:1	3.3
CWG-848S	CWG-848D	CWG-848Q	48	6.000"	"	2 3/4"	"	3.750"	48:1	24:1	12:1	4.8
CWG-850S	CWG-850D	CWG-850Q	50	6.250"	"	"	1"	3.875"	50:1	25:1	12.5:1	5.3
CWG-860S	CWG-860D	CWG-860Q	60	7.500"	"	"	"	4.500"	60:1	30:1	15:1	6.6
CWG-864S	CWG-864D	CWG-864Q	64	8.000"	"	"	"	4.750"	64:1	32:1	16:1	7.5
CWG-880S	CWG-880D	CWG-880Q	80	10.000"	"	3"	"	5.750"	80:1	40:1	20:1	9.5
CWG-896S	CWG-896D	CWG-896Q	96	12.000"	"	"	"	6.750"	96:1	48:1	24:1	12.5
CWG-8100S	CWG-8100D	CWG-8100Q	100	12.500"	"	3 1/4"	"	7.000"	100:1	50:1	25:1	14.0

### 3/4" FACE BRONZE WORM GEARS 3/4" FACE

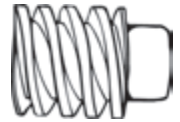
SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
									BWG-820S	BWG-820D	BWG-820Q	
BWG-824S	BWG-824D	BWG-824Q	24	3.000"	"	"	"	2.250"	24:1	12:1	6:1	1.9
BWG-830S	BWG-830D	BWG-830Q	30	3.750"	"	2 1/4"	"	2.625"	30:1	15:1	7.5:1	3.0
BWG-832S	BWG-832D	BWG-832Q	32	4.000"	"	"	"	2.750"	32:1	16:1	8:1	3.2
BWG-840S	BWG-840D	BWG-840Q	40	5.000"	1"	2 1/2"	7/8"	3.250"	40:1	20:1	10:1	4.0
BWG-848S	BWG-848D	BWG-848Q	48	6.000"	"	2 3/4"	1"	3.750"	48:1	24:1	12:1	5.8
BWG-850S	BWG-850D	BWG-850Q	50	6.250"	"	"	"	3.875"	50:1	25:1	12.5:1	6.4
BWG-860S	BWG-860D	BWG-860Q	60	7.500"	"	"	"	4.500"	60:1	30:1	15:1	7.9
BWG-864S	BWG-864D	BWG-864Q	64	8.000"	"	"	"	4.750"	64:1	32:1	16:1	9.0
BWG-880S	BWG-880D	BWG-880Q	80	10.000"	"	3"	"	5.750"	80:1	40:1	20:1	11.5
BWG-896S	BWG-896D	BWG-896Q	96	12.000"	"	"	"	6.750"	96:1	48:1	24:1	15.1
BWG-8100S	BWG-8100D	BWG-8100Q	100	12.500"	"	3 1/4"	"	7.000"	100:1	50:1	25:1	16.9

## 6-PITCH WORMS AND WORM GEARS

### 14 1/2° INVOLUTE FORM RIGHT AND LEFT HAND



LEFT HAND SINGLE



RIGHT HAND DOUBLE

### WORMS

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	STATE	PITCH DIAM.	FACE	SPECIFICATIONS							WT. IN LBS.	
						HOLE			HUB. DIA.	HUB. PROJ.	KEYWAY			
						SIN.	DBLE.	QUAD.			SIN.	DBLE.		QUAD.
WH-6S	WH-6D	WH-6Q	HARD	2"	2 1/2"	7/8"	1"	1"	NONE	NONE	3/16"	1/4"	1/4"	1.5
WS-6S	WS-6D	WS-6Q	SOFT	2"	2 1/2"	7/8"	1"	1"	"	"	3/16"	1/4"	1/4"	1.5
W-6S	W-6D	W-6Q	SOFT	2"	2 1/2"	7/8"	7/8"	7/8"	1 9/16"	3/4"	NONE			2.0

## WORM GEARS



LEFT  
HAND



RIGHT  
HAND

WORMS SPECIFIED AS HARD, HAVE THREADS  
AND ENDS GROUND.

WHEN ORDERING STATE CATALOG NUMBER AND HAND

NO. THREADS	LEAD	THREAD ANGLE
Single	.5236"	4° 46'
Double	1.0472"	9° 28'
Quad.	2.0944"	18° 26'

### 1" FACE

### CAST IRON WORM GEARS

### 1" FACE

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
									CWG-620S	CWG-620D	CWG-620Q	
CWG-624S	CWG-624D	CWG-624Q	24	4.000"	"	"	"	3.000"	24:1	12:1	6:1	4.4
CWG-630S	CWG-630D	CWG-630Q	30	5.000"	7/8"	"	"	3.500"	30:1	15:1	7.5:1	5.4
CWG-636S	CWG-636D	CWG-636Q	36	6.000"	1"	3"	"	4.000"	36:1	18:1	9:1	7.2
CWG-640S	CWG-640D	CWG-640Q	40	6.666"	"	"	"	4.3333"	40:1	20:1	10:1	8.3
CWG-648S	CWG-648D	CWG-648Q	48	8.000"	1 1/4"	"	"	5.000"	48:1	24:1	12:1	10.4
CWG-650S	CWG-650D	CWG-650Q	50	8.333"	"	"	"	5.1666"	50:1	25:1	12.5:1	9.3
CWG-660S	CWG-660D	CWG-660Q	60	10.000"	"	3 1/2"	1 1/4"	6.000"	60:1	30:1	15:1	13.5
CWG-672S	CWG-672D	CWG-672Q	72	12.000"	"	"	"	7.000"	72:1	36:1	18:1	18.0
CWG-680S	CWG-680D	CWG-680Q	80	13.333"	"	"	"	7.6666"	80:1	40:1	20:1	21.5
CWG-696S	CWG-696D	CWG-696Q1	96	16.000"	"	"	"	9.000"	96:1	48:1	24:1	28.5
CWG-6100S	CWG-6100D	CWG-6100Q	100	16.666"	"	"	"	9.3333"	100:1	50:1	25:1	31.0

### 1" FACE

### BRONZE WORM GEARS

### 1" FACE

SINGLE CAT. NO.	DOUBLE CAT. NO.	QUAD. CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB. DIA.	HUB. PROJ.	CENTER DIST.	RATIOS			WT. IN LBS.
									SIN.	DBLE.	QUAD.	
									BWG-620S	BWG-620D	BWG-620Q	
BWG-624S	BWG-624D	BWG-624Q	24	4.000"	"	"	"	3.000"	24:1	12:1	6:1	5.3
BWG-630S	BWG-630D	BWG-630Q	30	5.000"	7/8"	"	"	3.500"	30:1	15:1	7.5:1	6.5
BWG-636S	BWG-636D	BWG-636Q	36	6.000"	1"	3"	"	4.000"	36:1	18:1	9:1	8.7
BWG-640S	BWG-640D	BWG-640Q	40	6.666"	"	"	"	4.3333"	40:1	20:1	10:1	10.0
BWG-648S	BWG-648D	BWG-648Q	48	8.000"	1 1/4"	"	"	5.000"	48:1	24:1	12:1	12.6
BWG-650S	BWG-650D	BWG-650Q	50	8.333"	"	"	"	5.1666"	50:1	25:1	12.5:1	11.3
BWG-660S	BWG-660D	BWG-660Q	60	10.000"	"	3 1/4"	1 1/4"	6.000"	60:1	30:1	15:1	16.3
BWG-672S	BWG-672D	BWG-672Q	72	12.000"	"	"	"	7.000"	72:1	36:1	18:1	21.8
BWG-680S	BWG-680D	BWG-680Q	80	13.333"	"	3 1/2"	"	7.6666"	80:1	40:1	20:1	26.0
BWG-696S	BWG-696D	BWG-696Q	96	16.000"	"	"	"	9.000"	96:1	48:1	24:1	34.5
BWG-6100S	BWG-6100D	BWG-6100Q	100	16.666"	"	"	"	9.3333"	100:1	50:1	25:1	37.5



## 4-PITCH WORMS AND WORM GEARS

14 1/2° INVOLUTE FORM SINGLE RIGHT AND LEFT HAND



LEFT  
HAND  
SINGLE



RIGHT  
HAND  
SINGLE

THREAD ANGLE 4° 46'  
LEAD .7854"

### WORMS

CAT. NO.	STATE	PITCH DIAM.	FACE	HOLE	HUB DIA.	HUB PROJ.	KEYWAY	WT. IN LBS.
WH-4S	HARD	3"	3 1/2"	1 1/4"	NONE	NONE	5/16" X 5/32"	5.6
WS-4S	SOFT	"	"	"	"	"	"	"

WORMS SPECIFIED AS HARD HAVE THREADS AND ENDS GROUND.

### 1 1/2" FACE

### CAST IRON WORM GEARS

### 1 1/2" FACE

CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIA.	HUB PROJ.	CENTER DIST.	RATIO	WT. IN LBS.
CWG-420S	20	5"	1"	3"	1 1/4"	4.000"	20:1	9.0
CWG-424S	24	6"	"	"	"	4.500"	24:1	11.0
CWG-432S	32	8"	1 1/4"	3 1/2"	"	5.500"	32:1	17.5
CWG-440S	40	10"	"	"	"	6.500"	40:1	21.0
CWG-448S	48	12"	1 1/2"	4"	"	7.500"	48:1	28.5
CWG-464S	64	16"	"	4 1/2"	"	9.500"	64:1	47.0

### 1 1/2" FACE

### BRONZE WORM GEARS

### 1 1/2" FACE

BWG-420S	20	5"	1"	3"	1 1/4"	4.000"	20:1	10.9
BWG-424S	24	6"	"	"	"	4.500"	24:1	13.3
BWG-432S	32	8"	1 1/4"	3 1/2"	"	5.500"	32:1	21.2

## 3-PITCH WORMS AND WORM GEARS

14 1/2° INVOLUTE FORM SINGLE RIGHT AND LEFT HAND

THREAD ANGLE 4° 46'  
LEAD 1.0472

### WORMS

CAT. NO.	STATE	PITCH DIAM.	FACE	HOLE	HUB DIA.	HUB PROJ.	KEYWAY	WT. IN LBS.
WH-3S	HARD	4"	4"	1 1/2"	NONE	NONE	3/8" X 3/16"	11.5
WS-3S	SOFT	"	"	"	"	"	"	11.5

WORMS SPECIFIED AS HARD HAVE THREADS AND ENDS GROUND.

### 2" FACE

### CAST IRON WORM GEARS

### 2" FACE

CAT. NO.	TEETH	PITCH DIAM.	HOLE	HUB DIA.	HUB PROJ.	CENTER DIST.	RATIO	WT. IN LBS.
CWG-318S	18	6"	1"	3 1/2"	1 1/2"	5.000"	18:1	17.5
CWG-324S	24	8"	1 1/2"	4"	"	6.000"	24:1	25.0
CWG-330S	30	10"	"	"	"	7.000"	30:1	33.0
CWG-336S	36	12"	"	"	"	8.000"	36:1	39.0
CWG-348S	48	16"	"	4 1/2"	"	10.000"	48:1	63.0
CWG-354S	54	18"	"	"	"	11.000"	54:1	73.0

### 2" FACE

### BRONZE WORM GEARS

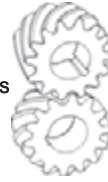
### 2" FACE

BWG-318S	18	6"	1"	3 1/2"	1 1/2"	5.000"	18:1	21.2
BWG-324S	24	8"	1 1/2"	4"	"	6.000"	24:1	30.2
BWG-330S	30	10"	"	"	"	7.000"	30:1	39.9

# HELICAL GEARS

## 45° HELIX ANGLE STEEL HARDENED RIGHT AND LEFT HAND

OPPOSITE  
HANDS SHAFTS  
PARALLEL

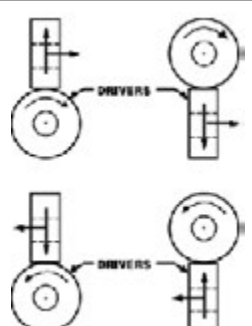


SAME HANDS  
SHAFTS AT  
RIGHT ANGLE

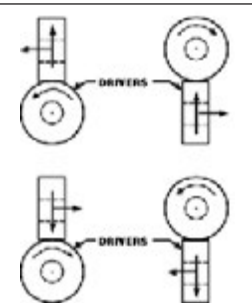


WHEN ORDERING, STATE CATALOG NUMBER AND HAND

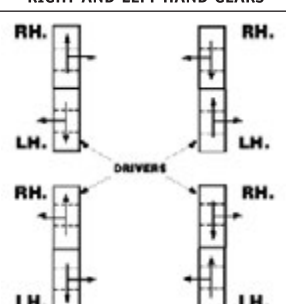
### 16-PITCH, 1/2" FACE - 22.63 NORMAL PITCH - 14-1/2° NOR. P.A.

CAT. NO.		TEETH	PITCH DIAM.	OUTSIDE DIAM.	HOLE	KEYWAY	WT. IN LBS.	DIRECTION OF ROTATION AND THRUST RIGHT HAND GEARS
R.H.	L.H.							
16HE-12R	16HE-12L	12	.750"	.838"	3/8"	1/16" X 1/32"	.06	
16HE-16R	16HE-16L	16	1.000"	1.088"	1/2"	1/8" X 1/16"	.10	
16HE-20R	16HE-20L	20	1.250"	1.338"	1/2"	1/8" X 1/16"	.15	
16HE-24R	16HE-24L	24	1.500"	1.588"	1/2"	1/8" X 1/16"	.20	
16HE-32R	16HE-32L	32	2.000"	2.088"	1/2"	1/8" X 1/16"	.40	
16HE-40R	16HE-40L	40	2.500"	2.588"	1/2"	1/8" X 1/16"	.60	
16HE-48R	16HE-48L	48	3.000"	3.088"	1/2"	1/8" X 1/16"	1.00	
<small>12 Tooth Gears are hardened all over                      16 to 48 Tooth Gears have teeth only hardened</small>								

### 12-PITCH, 3/4" FACE - 16.97 NORMAL PITCH - 14-1/2° NOR. P.A.

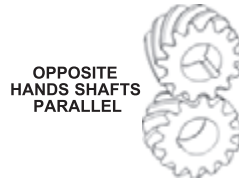
CAT. NO.		TEETH	PITCH DIAM.	OUTSIDE DIAM.	HOLE	KEYWAY	WT. IN LBS.	DIRECTION OF ROTATION AND THRUST LEFT HAND GEARS
R.H.	L.H.							
12HE-8R	12HE-8L	8	.666"	.783"	5/16"	1/16" X 1/32"	.05	
12HE-10R	12HE-10L	10	.833"	.950"	7/16"	1/8" X 1/16"	.07	
12HE-12R	12HE-12L	12	1.000"	1.117"	5/8"	"	.13	
12HE-15R	12HE-15L	15	1.250"	1.367"	"	"	.18	
12HE-18R	12HE-18L	18	1.500"	1.617"	"	"	.30	
12HE-24R	12HE-24L	24	2.000"	2.117"	"	"	.60	
12HE-30R	12HE-30L	30	2.500"	2.617"	"	"	.90	
12HE-36R	12HE-36L	36	3.000"	3.117"	"	"	1.40	
<small>8, 10 &amp; 12 Tooth Gears are hardened all over                      15 to 36 Tooth Gears have teeth only hardened</small>								

### 10-PITCH, 7/8" FACE - 14.14 NORMAL PITCH - 14-1/2° NOR. P.A.

CAT. NO.		TEETH	PITCH DIAM.	OUTSIDE DIAM.	HOLE	KEYWAY	WT. IN LBS.	DIRECTION OF ROTATION AND THRUST RIGHT AND LEFT HAND GEARS
R.H.	L.H.							
10HE-8R	10HE-8L	8	.800"	.941"	3/8"	1/16" X 1/32"	.10	
10HE-10R	10HE-10L	10	1.000"	1.141"	1/2"	1/8" X 1/16"	.13	
10HE-12R	10HE-12L	12	1.200"	1.341"	5/8"	"	.20	
10HE-15R	10HE-15L	15	1.500"	1.641"	3/4"	3/16" X 3/32"	.30	
10HE-20R	10HE-20L	20	2.000"	2.141"	"	"	.60	
10HE-25R	10HE-25L	25	2.500"	2.641"	"	"	1.00	
10HE-30R	10HE-30L	30	3.000"	3.141"	"	"	1.50	
10HE-40R	10HE-40L	40	4.000"	4.141"	"	"	2.90	
<small>8, 10 &amp; 12 Tooth Gears are hardened all over                      15 to 36 Tooth Gears have teeth only hardened</small>								

# HELICAL GEARS

## 45° HELIX ANGLE RIGHT AND LEFT HAND



OPPOSITE  
HANDS SHAFTS  
PARALLEL



SAME HANDS  
SHAFTS AT  
RIGHT ANGLE

WHEN ORDERING, STATE CATALOG NUMBER AND HAND

### 8-PITCH – 11.31 NORMAL PITCH – 14-1/2° NOR. P.A.

**STEEL – TEETH HARDENED**  
**1" FACE WITHOUT HUB**

**BRONZE & STEEL – TEETH HARDENED**  
**3/4" FACE WITH HUB**

CAT. NO.		PITCH TEETH	OUTSIDE DIAM.	DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.		O.D.	TEETH	PITCH DIAM.	OUTSIDE DIAM.	HOLE	HUB		KEYWAY	WT. IN LBS.
R.H.	L.H.							STEEL R.H.&L.H.	BRONZE R.H.&L.H.						DIA.	PROJ.		
8HE-8R	8HE-8L	8	1.000"	1.176"	1/2"	1/8" X 1/16"	.20	8SHE-8	8BHE-8	1.176	8	1.000"	1.176"	1/2"	3/4"	1/2"	1/8" X 1/16"	.20
8HE-10R	8HE-10L	10	1.250"	1.426"	5/8"	1/8" X 1/16"	.25	8SHE-10	8BHE-10	1.426	10	1.250"	1.426"	5/8"	1"	1/2"	1/8" X 1/16"	.25
8HE-12R	8HE-12L	12	1.500"	1.676"	3/4"	3/16" X 3/32"	.35	8SHE-12	8BHE-12	1.676	12	1.500"	1.676"	3/4"	1-1/4"	1/2"	3/16" X 3/32"	.40
8HE-16R	8HE-16L	16	2.000"	2.176"	7/8"	3/16" X 3/32"	.70	8SHE-16	8BHE-16	2.176	16	2.000"	2.176"	1"	1-5/8"	1/2"	1/4" X 1/8"	.80
8HE-20R	8HE-20L	20	2.500"	2.676"	7/8"	3/16" X 3/32"	1.10	8SHE-20	8BHE-20	2.676	20	2.500"	2.676"	1"	2"	1/2"	1/4" X 1/8"	1.00
8HE-24R	8HE-24L	24	3.000"	3.176"	7/8"	3/16" X 3/32"	1.70	8SHE-24	8BHE-24	3.176	24	3.000"	3.176"	1"	2"	1/2"	1/4" X 1/8"	1.80
8HE-32R	8HE-32L	32	4.000"	4.176"	7/8"	3/16" X 3/32"	3.25	8SHE-32	8BHE-32	4.176	32	4.000"	4.176"	1"	2"	1/2"	1/4" X 1/8"	2.40
								8SHE-40	8BHE-40	5.176	40	5.000"	5.176"	1"	2"	1/2"	1/4" X 1/8"	3.50
								8SHE-48	8BHE-48	6.176	48	6.000"	6.176"	1"	2-1/4"	1/2"	1/4" X 1/8"	5.50

### 6-PITCH – 8.48 NORMAL PITCH – 14-1/2° NOR. P.A.

**STEEL – TEETH HARDENED**  
**1-1/4" FACE WITHOUT HUB**

**BRONZE & STEEL – TEETH HARDENED**  
**1" FACE WITH HUB**

CAT. NO.		PITCH TEETH	OUTSIDE DIAM.	DIAM.	HOLE	KEYWAY	WT. IN LBS.	CAT. NO.		O.D.	TEETH	PITCH DIAM.	OUTSIDE DIAM.	HOLE	HUB		KEYWAY	WT. IN LBS.
R.H.	L.H.							STEEL R.H.&L.H.	BRONZE R.H.&L.H.						DIA.	PROJ.		
6HE-8R	6HE-8L	8	1.333"	1.568"	5/8"	1/8" X 1/16"	.25	6SHE-8	6BHE-8	1.568	8	1.333"	1.568"	5/8"	1"	3/4"	1/8" X 1/16"	.40
6HE-10R	6HE-10L	10	1.666"	1.901"	3/4"	3/16" X 3/32"	.50	6SHE-9	6BHE-9	1.735	9	1.500"	1.735"	3/4"	1-3/16"	3/4"	3/16" X 3/32"	.50
6HE-12R	6HE-12L	12	2.000"	2.235"	1"	1/4" X 1/8"	.75	6SHE-10	6BHE-10	1.901	10	1.666"	1.901"	3/4"	1-3/8"	3/4"	3/16" X 3/32"	.70
6HE-15R	6HE-15L	15	2.500"	2.735"	1"	1/4" X 1/8"	1.40	6SHE-12	6BHE-12	2.235	12	2.000"	2.235"	1"	1-5/8"	3/4"	1/4" X 1/8"	1.00
6HE-18R	6HE-18L	18	3.000"	3.235"	1"	1/4" X 1/8"	2.20	6SHE-1R	6BHE-15	2.735	15	2.500"	2.735"	1-1/4"	2"	3/4"	5/16" X 5/32"	1.40
6HE-24R	6HE-24L	24	4.000"	4.235"	1"	1/4" X 1/8"	4.00	6SHE-18	6BHE-18	3.235	18	3.000"	3.235"	1-1/4"	2-1/4"	3/4"	5/16" X 5/32"	2.30
								6SHE-20	6BHE-20	3.568	20	3.333"	3.568"	1-1/4"	2-1/2"	3/4"	5/16" X 5/32"	3.00
								6SHE-24	6BHE-24	4.235	24	4.000"	4.235"	1-1/4"	2-1/2"	3/4"	5/16" X 5/32"	4.00
								6SHE-30	6BHE-30	5.235	30	5.000"	5.235"	1-1/4"	2-1/2"	3/4"	5/16" X 5/32"	5.00
								6SHE-36	6BHE-36	6.235	36	6.000"	6.235"	1-1/4"	2-1/2"	3/4"	5/16" X 5/32"	6.80

All steel gears have teeth only hardened

Bronze and Steel Hardened, Helical Gears WITH HUB have a setscrew in the Hub at 90° to the keyway.