GEAR MEASURING WIRES DIAMETRAL PITCH

"XX" Tolerance

Wires sold is pairs only.

Normal	Enlarged Pinions	Enlarged Pinions	Enlarged Pinions	Enlarged Pinions
Diametral	1.92	1.728	1.68	1.44
Pitch	DP	DP	DP	DP
1 1011				
1	1.92000"	1.72800"	1.68000"	1.44000"
1-1/2	1.28000"	1.15200"	1.12000"	.96000"
2	.96000"	.86400"	.84000"	.72000"
2-1/2	.76800"	.69120"	.67200"	.57600"
3	.64000"	.57600"	.56000"	.48000"
3-1/2	.54857"	.49371"	.48000"	.41143"
4	.48000"	.43200"	.42000"	.36000"
4-1/2	.42667"	.38400"	.37333"	.32000"
5	.38000"	.34560"	.33600"	.28800"
6	.32000"	.28800"	.28000"	.24000"
7	.27429"	.24686"	.24000"	.20571"
8	.24000"	.21600"	.21000"	.18000"
9	.21333"	.19200"	.18667"	.16000"
10	.19200"	.17280"	.16800"	.14400"
11	.17455"	.15709"	.15273"	.13091"
12	.16000"	.14400"	.14000"	.12000"
14	.13714"	.12343"	.12000"	.10286"
16	.12000"	.10800"	.10500"	.09000"
18	.10667"	.09600"	.09333"	.08000"
20	.09600"	.08640"	.08400"	.07200"
22	.08727"	.07855"	.07363"	.06545"
24	.08000"	.07200"	.07000"	.06000"
28	.06857"	.06171"	.06000"	.05143"
32	.06000"	.05400"	.05250"	.04500"
36	.05333"	.04800"	.04667"	.04000"
40	.04800"	.04320"	.04200"	.03600"
48	.04000"	.03600"	.03500"	.03000"
56	.03429"	.03086"	.03000"	.02571"
64	.03000"	.02700"	.02625"	.02250"
72	.02667"	.02400"	.02333"	.02000"
80	.02400"	.02160"	.02100"	.01800"
96	.02000"	.01800"	.01750"	.01500"
100	.01920"	.01728"	.01680"	.01440"
120	.01600"	.01440"	.01400"	.01200"

GEAR MEASURING WIRE SETS

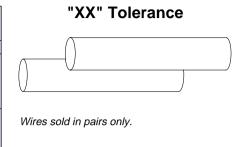
"XX" Tolerance

Series	Gear Measuring Wire Sets
GWS-1728-18	Set includes 1 pair each of 18 sizes from 1.728/DP Series: 3, 4, 5, 6, 8, 9, 10, 12, 14, 16, 18, 20, 24, 32, 36, 40, 48 & 64
GWS-144-18	Set includes 1 pair each of 18 sizes from 1.44/DP Series: 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 24, 32, 36, 40, 48 & 64
GWS-168-15	Set includes 1 pair each of 15 sizes from 1.68/DP Alternate Series: 4, 5, 6, 7, 8, 10, 12, 14, 16, 20, 24, 28, 32, 48 & 56
GWS-192-15	Set includes 1 pair each of 15 sizes from 1.92/DP Series: 1, 2, 2-1/2, 3, 4, 5, 6, 8, 10, 12, 14, 16, 20, 24 & 32

Clear plastic containers for gear wires are also available in sizes 1/2", 3/4", 1" OD (all 2-1/2" length). Please inquire.

GEAR MEASURING WIRES 30°, 37-1/2° & 45° INVOLUTE SPLINE

Spline Pitch	1.92 DP	1.728 DP	Spline Pitch	1.92 DP	1.728 DP	
WIRE SIZES IN INCHES			WIRE SIZES IN INCHES			
3/6	.64000"	.57600"	12/24	.16000"	.14400"	
4/8	.48000"	.43200"	16/32	.12000"	.10800"	
5/10	.38000"	.34560"	20/40	.09600"	.08640"	
6/12	.32000"	.28800"	24/48	.08000"	.07200"	
8/16	.24000"	.21600"	32/64	.06000"	.05400"	
10/20	.19200"	.17280"	40/80	.04800"	.04320"	
12/24	.16000"	.14400"	48/96	.04000"	.03600"	



GEAR MEASURING WIRES 36 & 48 SERRATION

36 SERRATION			48 SERRATION			
Nominal			Nominal			
Dia.	Internal	External	Dia.	Internal	External	
WIRE	SIZES IN INCH	IES	WIRE SIZES IN INCHES			
1/8	.00650"	.00796"	3/4	.03025"	.03558"	
3/16	.00967"	.01194"	7/8	.03529"	.04150"	
1/4	.01290"	.01592"	1	.04033"	.04743"	
5/16	.01613"	.01990"	1-1/8	.04538"	.05336"	
3/8	.01935"	.02388"	1-1/4	.05042"	.05929"	
1/2	.02580"	.03184"	1-3/8	.05546"	.06522"	
5/8	.03225"	.03980"	1-1/2	.06050"	.07115"	
			1-3/4	.07058"	.08301"	
			2	.08067"	.09487"	
			2-1/4	.09075"	.10673"	
			2-1/2	.10083"	.11858"	
			2-3/4	.11092"	.13044"	
			3	.12100"	.14230"	

"XX" Tolerance



Wires sold in pairs only.

GEAR WIRE TOLERANCE

_	ia. ove	To and Include	xxx	ASH Standard XX	х	Y	Z
.01	-	.825"	.00001"	.00002"	.00004"	.00007"	.00010"
.82		1.510"	.000015"	.00003"	.00006"	.00004"	.00012"
.15		2.510"	.00002"	.00004"	.00008"	.00012"	.00010"

METRIC MODULE "XX" Tolerance



METRIC EQUIVALENTS						
mm	mm size		size			
1.00 <i>mm</i>	.03937"	3.25 mm	.12795"			
1.20 <i>mm</i>	.04724"	3.50 mm	.13780"			
1.25 mm	.04921"	3.75 mm	.14764"			
1.30 <i>mm</i>	.05118"	4.00 <i>mm</i>	.15748"			
1.50 mm	.05906"	4.25 mm	.16732"			
1.75 mm	.06889"	4.50 mm	.17717"			
2.00 mm	.07874"	5.00 mm	.19685"			
2.25 mm	.08858"	5.25 mm	.20669"			
2.50 mm	.09843"	6.00 <i>mm</i>	.23622"			
2.75 mm	.10827"	7.00 <i>mm</i>	.27559"			
3.00 mm	.11811"	8.00 <i>mm</i>	.31496"			

12

14

16

18

20

Normal Module Pitch	Enlarged Pinions 1.92 DP	External Gears 1.728 DP	Alternate Series 1.68 DP	Internal Gears 1.44 DP
	WI	RE SIZES IN INCI	HES	
0.5	.03780"	.03402"	.03307"	.02835"
0.6	.04535"	.04082"	.03969"	.03402"
0.7	.05291"	.04762"	.04630"	.03969"
.075	.05669"	.05102"	.04960"	.04252"
0.8	.06047"	.05443"	.05291"	.04535"
1.0	.07559"	.06803"	.06614"	.05669"
1.25	.09449"	.08504"	.08268"	.07087"
1.50	.11339"	.10205"	.09921"	.08504"
1.75	.13228"	.11906"	.11575"	.09921"
2.0	.15118"	.13606"	.13228"	.11339"
2.25	.17008"	.15307"	.14882"	.12756"
2.5	.18898"	.17008"	.16535"	.14173"
3.0	.22677"	.20409"	.19843"	.17008"
3.5	.26457"	.23811"	.23150"	.19843"
4.0	.30236"	.27213"	.26457"	.22677"
4.5	.34016"	.30614"	.29764"	.25512"
5	.37795"	.34016"	.33071"	.28346"
6	.45354"	.40819"	.39685"	.34016"
7	.52913"	.47622"	.46299"	.39685"
8	.60472"	.54425"	.52913"	.45354"
9	.68031"	.61228"	.59528"	.51024"
10	.75591"	.68031"	.66142"	.56693"
11	.83150"	.74835"	.72756"	.62362"

GEAR MEASURING WIRES

GEAR MEASURING WIRES CIRCULAR PITCH

.81638"

.95244"

1.08850"

1.22457"

1.36063"

.79370"

.92598"

1.05827"

1.19055"

1.32283"

.68031"

.79370"

.90709"

1.02047"

1.13386"

.90709"

1.05827"

1.20945"

1.36063"

1.51181"



CIRCULAR PITCH "XX" Tolerance

Wires sold in pairs only.

	Normal Circular Pitch	Enlarged Pinions 1.92 DP	External Gears <u>1.728</u> DP	Alternate Series 1.68 DP	Internal Gears 1.44 DP
		WI	RE SIZES IN INCH	IES	
	1/8	.07639"	.06875"	.06684"	.05730"
	1/4	.15279"	.13750"	.13369"	.11450"
	3/8	.22918"	.20626"	.20053"	.17189"
	1/2	.30558"	.27501"	.26738"	.22918"
	5/8	.38197"	.34377"	.33422"	.28648"
	3/4	.45837"	.41252"	.40107"	.34377"
	7/8	.53476"	.48128"	.46791"	.40107"
	1	.61116"	.55003"	.53476"	.45837"
	1-1/4	.76394"	.68754"	.66845"	.57296"
	1-1/2	.91673"	.82505"	.80214"	.68755"
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