



## CARBON BAR & CHROME PLATED TOLERANCES

### CHROME PLATED BAR STRAIGHTNESS TOLERANCES

SIZE RANGE (IN.)	LENGTH (FT.)	MAXIMUM CURVATURE (IN.)
Under 0.625"	Less than 15'	0.188" in any 10 ft. portion of total length
Under 0.625"	15' and over	0.313" in any 10 ft. portion of total length
0.625" and larger	Less than 15'	0.125" in any 10 ft. portion of total length
0.625" and larger	15' and over	0.188" in any 10 ft. portion of total length

### CHROME PLATED BAR DIAMETER TOLERANCES

SIZE RANGE (IN.)	PLUS	MINUS
0.500" to 2.499"	0.000"	0.0015"
2.500" to 3.000"	0.000"	0.002"
3.001" to 4.000"	0.000"	0.003"
4.001" to 6.000"	0.000"	0.004"
6.001" to 8.000"	0.000"	0.005"
8.001" to 10.000"	0.000"	0.006"

**Hardness of Chrome Plate:** RC 68-72

**Surface Finish:** RMS 16 maximum (.406mm)

**Plate Thickness:** 0.0005" minimum

**Induction Hardened Case Depth:** .050" minimum (1.27mm) effective case depth unless otherwise specified. (On full-length bars, maximum of 1.5" (38.10mm) from either end is neither hardened nor plated).

**Induction Hardened Surface Hardness:** RC 50 minimum

### METRIC SIZES

SIZE	WT/FT.	SIZE	WT/FT.	SIZE	WT/FT.	SIZE	WT/FT.
12mm (.472")	.59	32mm (1.259")	4.24	60mm (2.362")	14.87	100mm (3.937")	41.38
15mm (.590")	1.06	33mm (1.299")	4.51	63mm (2.480")	16.42	105mm (4.133")	45.552
17mm (.669")	1.19	35mm (1.377")	5.06	65mm (2.559")	17.48	110mm (4.331")	50.022
18mm (.708")	1.34	36mm (1.417")	5.34*	70mm (2.756")	20.25	120mm (4.724")	59.582
20mm (.787")	1.65	40mm (1.575")	6.62	75mm (2.952")	23.23	130mm (5.118")	69.962
22mm (.866")	2.02	45mm (1.771")	8.37	80mm (3.150")	26.49	140mm (5.511")	80.992
25mm (.984")	2.59	48mm (1.889")	10.03	85mm (3.346")	29.98	150mm (5.906")	93.100
28mm (1.102")	3.23	50mm (1.965")	10.35	90mm (3.543")	33.52	160mm (6.299")	105.942
30mm (1.181")	3.72	55mm (2.165")	12.56	95mm (3.740")	37.65	170mm (6.693")	119.606
						180mm (7.087")	134.100
						190mm (7.480")	149.390