

NUTS, BOLTS & WASHERS

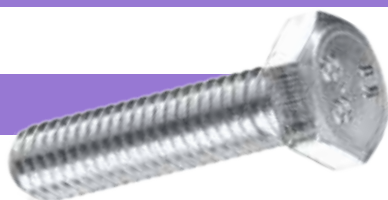
Hexagonal Bolts



Code	Dimensions	Wrench Size
NBW1158	M6 x 50mm	10mm
NBW1160	M6 x 60mm	10mm
NBW1162	M6 x 70mm	10mm
NBW1164	M6 x 80mm	10mm
NBW1166	M6 x 100mm	10mm
NBW1040	M8 x 25mm	13mm
NBW1041	M8 x 30mm	13mm
NBW1043	M8 x 40mm	13mm
NBW1167	M8 x 50mm	13mm
NBW1168	M8 x 55mm	13mm
NBW1169	M8 x 60mm	13mm
NBW1170	M8 x 65mm	13mm
NBW1171	M8 x 70mm	13mm
NBW1172	M8 x 75mm	13mm
NBW1173	M8 x 80mm	13mm
NBW1174	M8 x 90mm	13mm
NBW1175	M8 x 100mm	13mm
NBW1176	M10 x 50mm	17mm
NBW1177	M10 x 55mm	17mm
NBW1178	M10 x 60mm	17mm
NBW1179	M10 x 65mm	17mm
NBW1180	M10 x 70mm	17mm
NBW1181	M10 x 75mm	17mm
NBW1182	M10 x 80mm	17mm
NBW1183	M10 x 90mm	17mm
NBW1184	M10 x 100mm	17mm
NBW1185	M10 x 110mm	17mm
NBW1186	M10 x 120mm	17mm
NBW1187	M10 x 130mm	17mm
NBW1188	M10 x 140mm	17mm
NBW1189	M10 x 150mm	17mm
NBW1190	M12 x 50mm	19mm
NBW1192	M12 x 60mm	19mm
NBW1193	M12 x 65mm	19mm
NBW1194	M12 x 70mm	19mm
NBW1195	M12 x 75mm	19mm
NBW1196	M12 x 80mm	19mm
NBW1197	M12 x 90mm	19mm
NBW1198	M12 x 100mm	19mm
NBW1199	M12 x 110mm	19mm
NBW1200	M12 x 120mm	19mm
NBW1201	M12 x 130mm	19mm
NBW1202	M12 x 140mm	19mm
NBW1203	M12 x 150mm	19mm
NBW1204	M12 x 160mm	19mm
NBW1206	M12 x 180mm	19mm
NBW1208	M12 x 200mm	19mm
NBW1209	M16 x 50mm	24mm
NBW1210	M16 x 55mm	24mm
NBW1211	M16 x 60mm	24mm
NBW1212	M16 x 65mm	24mm

Code	Dimension	Wrench Size
NBW1213	M16 x 70mm	24mm
NBW1214	M16 x 75mm	24mm
NBW1215	M16 x 80mm	24mm
NBW1216	M16 x 90mm	24mm
NBW1217	M16 x 100mm	24mm
NBW1218	M16 x 110mm	24mm
NBW1219	M16 x 120mm	24mm
NBW1220	M16 x 130mm	24mm
NBW1221	M16 x 140mm	24mm
NBW1222	M16 x 150mm	24mm
NBW1223	M16 x 160mm	24mm
NBW1225	M16 x 180mm	24mm
NBW1226	M16 x 200mm	24mm
NBW1231	M20 x 60mm	30mm
NBW1232	M20 x 65mm	30mm
NBW1233	M20 x 70mm	30mm
NBW1234	M20 x 75mm	30mm
NBW1235	M20 x 80mm	30mm
NBW1236	M20 x 90mm	30mm
NBW1237	M20 x 100mm	30mm
NBW1238	M20 x 110mm	30mm
NBW1239	M20 x 120mm	30mm
NBW1240	M20 x 130mm	30mm
NBW1241	M20 x 140mm	30mm
NBW1242	M20 x 150mm	30mm
NBW1243	M20 x 160mm	30mm
NBW1245	M20 x 180mm	30mm
NBW1247	M20 x 200mm	30mm
NBW1254	M24 x 70mm	36mm
NBW1255	M24 x 75mm	36mm
NBW1256	M24 x 80mm	36mm
NBW1257	M24 x 90mm	36mm
NBW1258	M24 x 100mm	36mm
NBW1259	M24 x 110mm	36mm
NBW1260	M24 x 120mm	36mm
NBW1261	M24 x 130mm	36mm
NBW1262	M24 x 140mm	36mm
NBW1263	M24 x 150mm	36mm
NBW1264	M24 x 160mm	36mm
NBW1266	M24 x 180mm	36mm
NBW1267	M24 x 200mm	36mm
NBW6617	M24 x 210mm	36mm
NBW1273	M30 x 80mm	46mm
NBW1274	M30 x 90mm	46mm
NBW1275	M30 x 100mm	46mm
NBW1276	M30 x 110mm	46mm
NBW1277	M30 x 120mm	46mm
NBW1278	M30 x 130mm	46mm
NBW1279	M30 x 140mm	46mm
NBW1280	M30 x 150mm	46mm
NBW1281	M30 x 160mm	46mm
NBW1282	M30 x 180mm	46mm
NBW1283	M30 x 200mm	46mm

Hexagonal Set Screws



Code	Dimensions	Wrench Size
NBW1024	M6 x 20mm	10mm
NBW1025	M6 x 25mm	10mm
NBW1026	M6 x 30mm	10mm
NBW1027	M6 x 35mm	10mm
NBW1028	M6 x 40mm	10mm
NBW1029	M6 x 45mm	10mm
NBW1030	M6 x 50mm	10mm
NBW1039	M8 x 20mm	13mm
NBW1040	M8 x 25mm	13mm
NBW1041	M8 x 30mm	13mm
NBW1042	M8 x 35mm	13mm
NBW1043	M8 x 40mm	13mm
NBW1044	M8 x 45mm	13mm
NBW1045	M8 x 50mm	13mm
NBW1047	M8 x 60mm	13mm
NBW1056	M10 x 20mm	17mm
NBW1057	M10 x 25mm	17mm
NBW1058	M10 x 30mm	17mm
NBW1059	M10 x 35mm	17mm
NBW1060	M10 x 40mm	17mm
NBW1061	M10 x 45mm	17mm
NBW1062	M10 x 50mm	17mm
NBW1063	M10 x 55mm	17mm
NBW1064	M10 x 60mm	17mm
NBW1065	M10 x 65mm	17mm
NBW1072	M12 x 20mm	19mm
NBW1073	M12 x 25mm	19mm
NBW1074	M12 x 30mm	19mm
NBW1075	M12 x 35mm	19mm
NBW1076	M12 x 40mm	19mm
NBW1077	M12 x 45mm	19mm
NBW1078	M12 x 50mm	19mm
NBW1079	M12 x 55mm	19mm
NBW1080	M12 x 60mm	19mm
NBW1082	M12 x 70mm	19mm
NBW1093	M16 x 30mm	24mm
NBW1094	M16 x 35mm	24mm
NBW1095	M16 x 40mm	24mm
NBW1096	M16 x 45mm	24mm
NBW1097	M16 x 50mm	24mm
NBW1098	M16 x 55mm	24mm
NBW1099	M16 x 60mm	24mm
NBW1100	M16 x 65mm	24mm
NBW1101	M16 x 70mm	24mm
NBW1114	M20 x 40mm	30mm
NBW1115	M20 x 45mm	30mm
NBW1116	M20 x 50mm	30mm
NBW1117	M20 x 55mm	30mm
NBW1118	M20 x 60mm	30mm
NBW1119	M20 x 65mm	30mm

Code	Dimensions	Wrench Size
NBW1120	M20 x 70mm	30mm
NBW1121	M20 x 80mm	30mm
NBW1122	M20 x 90mm	30mm
NBW1132	M24 x 50mm	36mm
NBW1133	M24 x 55mm	36mm
NBW1134	M24 x 60mm	36mm
NBW1135	M24 x 65mm	36mm
NBW1136	M24 x 70mm	36mm
NBW1138	M24 x 80mm	36mm
NBW1139	M24 x 90mm	36mm
NBW1140	M24 x 100mm	36mm
NBW1142	M30 x 60mm	46mm
NBW1143	M30 x 70mm	46mm
NBW1145	M30 x 80mm	46mm
NBW1146	M30 x 90mm	46mm
NBW1147	M30 x 100mm	46mm

Bolt Technical Details

All bolts listed are bright zinc plated, with a high tensile strength rating of 8.8.

However, stainless steel, self colour, galvanised, and UNC imperial measurements are also available upon request.

Grade	Nominal Range (mm)	Proof Load [MPa]	Min. Yield Strength [MPa]	Min. Tensile Strength [MPa]
8.8	≥16mm	580	640	800
	<17mm	600	660	830

Tensile Strength: The maximum load in tension (pulling apart) which the material can withstand before breaking or fracturing.

Yield Strength: The load at which a material exhibits a specific permanent deformation.

Proof Load: An axial tensile load which the product must withstand without evidence of any permanent set.

$$1 \text{ MPa} = 1 \text{ N/mm}^2 = 145 \text{ pounds/inch}^2$$

NUTS, BOLTS & WASHERS

Full Nuts

DIN 934, Grade 8.8 HT



Code	Size
NBW2004	M6
NBW2005	M8
NBW2006	M10
NBW2007	M12
NBW2008	M16
NBW2009	M20
NBW2010	M24
NBW2144	M27
NBW2011	M30
NBW2145	M33
NBW2012	M36

Form A Washers

DIN 125A/BS4320



Code	Size
NBW3004	M6
NBW3005	M8
NBW3006	M10
NBW3007	M12
NBW3008	M16
NBW3009	M20
NBW3010	M24
NBW3209	M27
NBW3011	M30
NBW3210	M33
NBW3012	M36

Wedge Nuts



Code	Size
WN06	M6
WN08	M8
WN10	M10
WN12	M12

Penny Washers



Code	Dimensions
NBW3014	M6 x 20mm
NBW3088	M6 x 25mm
NBW3091	M6 x 30mm
NBW3015	M8 x 25mm
NBW3089	M8 x 30mm
NBW3016	M10 x 30mm
NBW3188	M10 x 40mm
NBW3189	M10 x 50mm
NBW3017	M12 x 40mm
NBW3142	M12 x 50mm

Locking Nuts



Code	Size
NBW2027	M8
NBW2028	M10
NBW2029	M12
NBW2030	M16
NBW2031	M20

Spring Washers

DIN 7980, Type A



Code	Size
NBW3124	M6
NBW3125	M8
NBW3126	M10
NBW3127	M12
NBW3151	M16

Rubber Rawl Nuts



Code	Size
NBW0650	M6
NBW0850	M8
NBW1055	M10
NBW01270	M12

All of our products in this range come bright zinc plated as standard. Galvanised, self colour and stainless steel versions are available upon request.

