

## Jam Nut Sockets

The correct application of torque is essential to most connector applications where Jam Nut receptacle connectors are used. The sealing components (usually an "O" ring) must be compressed, but not to the point of damage. Another consideration when tightening Jam Nuts is the thread strength. This is extremely important in the various types of aluminum and composite connectors.



DMC Jam Nut Socket tools have been developed specially for the installation of Jam Nut receptacle connectors. They are available in a versatile composite construction which is an excellent choice for OEM assembly areas due to their light weight, and the non-marking surfaces, a durable machined aluminum series and the traditional "General Purpose" formed steel socket for non-torque specific applications.

### COMPOSITE JAM NUT SOCKETS

A unique process was developed to mold this composite material which contains a higher percentage of fiber glass than is customarily used in conventional molding technology. This makes them as light and as strong as possible. The material will not scratch plating, or damage the finish on cabinets, panels or bulkheads when properly used.



### ALUMINUM JAM NUT SOCKETS

When a metal socket is required, the anodized aluminum series jam nut sockets are a good choice. They are machined to the same configuration as the composite jam nut sockets with the square hold drive for torquing.



### STEEL JAM NUT SOCKETS

Also available are formed Steel Jam Nut sockets. These are plated for corrosion resistance, and have drive holes to accommodate a metal rod, or similar, drive tool.



Jam Nut Sockets are ideal for torquing jam nuts on panels where several connectors are crowded together and in other tight spaces.

We also recommend that you consider DMC Safe-T-Cable™ to secure Jam Nut receptacles where lock wire holes are provided.

TYPICAL JAM NUT SOCKET PART NUMBER BREAKDOWN			
BT - J -	XXX	XX	X
Basic P/N	Size Designator (see chart below)	Material: Blank = Composite AL = Aluminum S = Steel	Special Configuration: Blank = Standard 1Thru X = Non-Standard

To find the correct jam nut socket for your application, measure across the flats of the jam nut you are working with. Next, find the size range in the lower table. Listed beside it will be the socket you need.

COMPOSITE OR METAL JAM NUT SOCKETS				
DMC Part Number	Fits Jam Nut Size: Inches	Fits Jam Nut Size: Millimeters	Square Drive	Outside Diameter Reference
<a href="#">BT-J-117</a>	.608 to .628	15.41 to 15.95	1/4	.914
<a href="#">BT-J-118*</a>	.628 to .649	15.95 to 16.48	1/4	.955
<a href="#">BT-J-120</a>	.671 to .693	17.04 to 17.60	1/4	.010
<a href="#">BT-J-121</a>	.693 to .717	17.60 to 18.21	1/4	1.04
<a href="#">BT-J-122</a>	.717 to .741	18.21 to 18.82	1/4	1.07
<a href="#">BT-J-123</a>	.741 to .765	18.82 to 19.43	1/4	1.10
<a href="#">BT-J-124</a>	.765 to .791	19.43 to 20.09	1/4	1.13
<a href="#">BT-J-125</a>	.791 to .818	20.09 to 20.77	1/4	1.16
<a href="#">BT-J-126</a>	.818 to .845	20.77 to 21.46	1/4	1.19
<a href="#">BT-J-127</a>	.845 to .873	21.46 to 22.17	1/4	1.22
<a href="#">BT-J-128</a>	.873 to .902	22.17 to 22.91	1/4	1.26
<a href="#">BT-J-129</a>	.902 to .933	22.91 to 23.69	1/4	1.29
<a href="#">BT-J-130</a>	.933 to .964	23.69 to 24.48	3/8	1.33
<a href="#">BT-J-131</a>	.964 to .996	24.48 to 25.29	3/8	1.36
<a href="#">BT-J-132</a>	.996 to 1.030	25.29 to 26.16	3/8	1.41
<a href="#">BT-J-133</a>	1.030 to 1.064	26.16 to 27.02	3/8	1.45
<a href="#">BT-J-134</a>	1.064 to 1.100	27.02 to 27.94	3/8	1.51
<a href="#">BT-J-135</a>	1.100 to 1.137	27.94 to 28.87	3/8	1.55
<a href="#">BT-J-136</a>	1.137 to 1.175	28.87 to 29.84	3/8	1.59
<a href="#">BT-J-137</a>	1.175 to 1.214	29.84 to 30.83	3/8	1.63
<a href="#">BT-J-138</a>	1.214 to 1.255	30.83 to 31.87	3/8	1.69
<a href="#">BT-J-139</a>	1.255 to 1.297	31.87 to 32.94	3/8	1.73
<a href="#">BT-J-140</a>	1.297 to 1.340	32.94 to 34.03	3/8	1.78
<a href="#">BT-J-141</a>	1.340 to 1.385	34.03 to 35.17	3/8	1.84
<a href="#">BT-J-142</a>	1.385 to 1.432	35.17 to 36.37	3/8	1.89
<a href="#">BT-J-143</a>	1.432 to 1.480	36.37 to 37.59	3/8	1.95
<a href="#">BT-J-144</a>	1.480 to 1.529	37.59 to 38.83	3/8	2.00
<a href="#">BT-J-145</a>	1.529 to 1.580	38.83 to 40.13	3/8	2.06
<a href="#">BT-J-146</a>	1.580 to 1.633	40.13 to 41.47	3/8	2.12

COMPOSITE OR METAL JAM NUT SOCKETS				
DMC Part Number	Fits Jam Nut Size: Inches	Fits Jam Nut Size: Millimeters	Square Drive	Outside Diameter Reference
<a href="#">BT-J-147</a>	1.633 to 1.688	41.47 to 42.87	3/8	2.19
<a href="#">BT-J-148</a>	1.688 to 1.745	42.87 to 44.32	3/8	2.25
<a href="#">BT-J-149</a>	1.745 to 1.803	44.32 to 45.79	3/8	2.32
<a href="#">BT-J-150</a>	1.803 to 1.864	45.79 to 47.34	3/8	2.39
<a href="#">BT-J-151</a>	1.864 to 1.926	47.34 to 48.92	3/8	2.46
<a href="#">BT-J-152</a>	1.926 to 1.991	48.92 to 50.57	3/8	2.54
<a href="#">BT-J-153</a>	1.991 to 2.057	50.57 to 52.24	3/8	2.61
<a href="#">BT-J-154</a>	2.057 to 2.126	52.24 to 54.00	3/8	2.69
<a href="#">BT-J-155</a>	2.126 to 2.197	54.00 to 55.80	3/8	2.78
<a href="#">BT-J-156</a>	2.197 to 2.271	55.80 to 57.68	3/8	2.87
<a href="#">BT-J-157</a>	2.271 to 2.347	57.68 to 59.61	3/8	2.95
<a href="#">BT-J-158</a>	2.347 to 2.426	59.61 to 61.62	3/8	3.04
<a href="#">BT-J-159*</a>	2.426 to 2.507	61.62 to 63.67	3/8	3.14
<a href="#">BT-J-160*</a>	2.507 to 2.591	63.67 to 65.81	3/8	3.24
<a href="#">BT-J-161</a>	2.591 to 2.678	65.81 to 68.02	3/8	3.34
<a href="#">BT-J-162</a>	2.678 to 2.769	68.02 to 70.33	3/8	3.44
<a href="#">BT-J-163</a>	2.769 to 2.860	70.33 to 72.64	3/8	3.54
<a href="#">BT-J-164</a>	2.860 to 2.956	72.64 to 75.08	3/8	3.66
<a href="#">BT-J-165</a>	2.956 to 3.055	75.08 to 77.59	3/8	3.77
<a href="#">BT-J-166</a>	3.055 to 3.157	77.59 to 80.18	3/8	3.89
<a href="#">BT-J-170*</a>	3.457 to 3.557	87.81 to 90.35	3/8	4.38

\* Not available in composite material

## GENERAL PURPOSE JAM NUT SOCKETS

Formed Stainless Steel Jam Nut sockets are great for non-torque specific jam nut applications. They are plated for corrosion resistance, and have drive holes to accommodate a metal rod drive tool (P/N DW75).



GENERAL PURPOSE JAM NUT SOCKETS				
DMC Part Number	Fits Jam Nut Size: Inches	Amphenol BCO Part Number	Hex Ref. Dim: Inches	Equivalent Composite
<a href="#">CS8</a>	.755 to .763	11-6266-3	3/4"	N/A
<a href="#">CS10</a>	.880 to .888	11-6266-5	7/8"	<a href="#">BT-J-128</a>
<a href="#">CS12</a>	1.068 to 1.077	11-6266-8	1 1/16"	<a href="#">BT-J-134</a>
<a href="#">CS14</a>	1.194 to 1.204	11-6266-10	1 3/16"	<a href="#">BT-J-137</a>
<a href="#">CS16</a>	1.320 to 1.331	11-6266-12	1 5/16"	<a href="#">BT-J-140</a>
<a href="#">CS18</a>	1.446 to 1.457	11-6266-14	1 7/16"	<a href="#">BT-J-143</a>
<a href="#">CS20</a>	1.571 to 1.580	11-6266-16	1 9/16"	<a href="#">BT-J-145</a>

GENERAL PURPOSE JAM NUT SOCKETS				
DMC Part Number	Fits Jam Nut Size: Inches	Amphenol BCO Part Number	Hex Ref. Dim: Inches	Equivalent Composite
<a href="#">CS22</a>	1.696 to 1.708	11-6266-18	1 11/16"	<a href="#">BT-J-148</a>
<a href="#">CS24</a>	1.822 to 1.835	11-6266-20	1 13/16"	<a href="#">BT-J-150</a>
<a href="#">CS22-1</a>	2.011 to 2.025	11-6266-23	2"	<a href="#">BT-J-153</a>
<a href="#">CS24-1</a>	2.137 to 2.151	11-6266-25	2 1/8"	<a href="#">BT-J-155</a>
<a href="#">CS32</a>	2.640 to 2.687	11-6266-33	2 5/8"	<a href="#">BT-J-161</a> & <a href="#">BT-J-162</a>
<a href="#">DMC1554</a>	Set Includes All 12 Sockets Listed Above And <a href="#">DW75</a> Drive Rod.			

## ADJUSTABLE JAM NUT WRENCH

The [JR700](#) adjustable jam nut wrench is a versatile tool for maintenance and low volume production. The rugged all steel construction makes this tool a good choice for heavy-duty applications.

The tool may be adjusted to accommodate hex nuts from .75 inch to 3.25 inch (across flat) dimensions. The maximum working depth is 1.0 inch. This range accommodates most common connectors.



A standard 3/8 inch drive torque tool may be used in conjunction with this tool to limit the possibility of overtightening. If torque values require close tolerance accuracy, direct reading sockets are recommended.

TORQUE CONVERSION CHART FOR <a href="#">JR700</a> TOOL USED WITH BT-ST-300D									
Diameter of Part Being Tightened	DESIRED TORQUE VALUE (in-lbs)								
	40	60	80	100	120	140	160	180	200
0.50"	22	33	45	56	67	78	89	100	111
0.75"	23	34	45	56	68	79	90	101	113
1.00"	23	34	45	57	68	80	91	102	114
1.50"	23	35	47	58	70	82	93	105	116
1.75"	24	35	47	59	71	83	94	106	118
2.00"	24	36	48	60	72	84	95	107	119
2.25"	24	36	48	60	73	85	97	109	121
2.50"	24	37	49	61	73	86	98	110	122
2.75"	25	37	50	62	74	87	99	111	124
3.00"	25	38	50	63	75	88	100	113	125
3.25"	25	38	51	63	76	89	101	114	127