

## DYWIDAG Wind Energy Anchor Bolts



# DYWIDAG Wind Energy Anchor Bolts



DSI is a global market leader in the development, production and supply of post-tensioning and geotechnical systems as well as concrete accessories for the construction industry.

You should expect the highest quality and exceptional service with DYWIDAG Anchor Bolts for Wind Turbine Foundations.

DYWIDAG Anchor Bolts meet ASTM A722 in sizes 1-1/4", 1-3/8", 1-3/4" and 2-1/2" GR. 150 and ASTM A615 in #10 & #11 GR. 75 rolled in our facility in exact length tailored to each project.

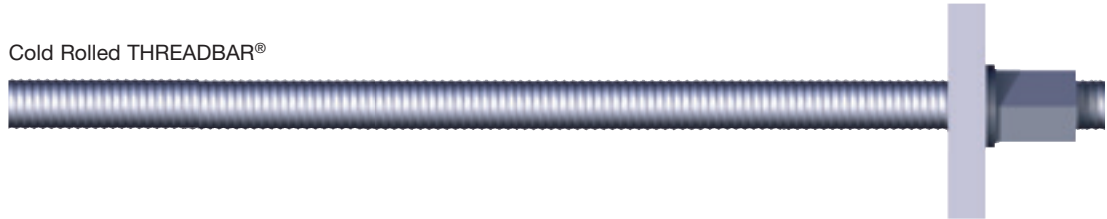
Available with the bolts are heavy hex nuts that have been developed to carry 100% of the ultimate nominal strength of the bar conforming to ASTM A194 GRADE 2H.

Other accessories include ASTM F436 hardened flat washers and PVC to ASTM D1784 manufactured to ASTM D2241 SDR 21 thickness cut to length.



## Technical Details

Cold Rolled THREADBAR®



### DYWIDAG Cold Rolled Prestressing Steel Bar ASTM A722 (Grade 150)

Bar Designation		Minimum Ultimate Stress (fu)		Minimum Ultimate Strength (fu · As)		Nominal Cross Section Area (As)		Nominal Weight		Max Bar Diameter	
[in]	[mm]	[ksi]	[Mpa]	[kips]	[kN]	[in²]	[mm²]	[lbs/ft]	[kg/m]	[in]	[mm]
1-1/4	32	150	1,034	187.5	834	1.25	806	4.39	6.54	1.412	36
1-3/8	36	150	1,034	237.0	1,054	1.58	1,019	5.56	8.27	1.573	40
1-3/4	46	150	1,034	387.0	1,721	2.58	1,664	9.10	13.54	2.00	51
2-1/2	65	150	1,034	780.0	3,470	5.20	3,355	17.71	26.36	2.71	69

NOTE: Maximum allowable temporary test tension is 80% of ultimate strength.

### DYWIDAG Cold Rolled Reinforcing Steel Bar ASTM A615 (Grade 75)

Bar Designation		Minimum Yield Stress (fy)		Minimum Yield Strength (fy · As)		Nominal Cross Section Area (As)		Nominal Weight		Max Bar Diameter	
[in]	[mm]	[ksi]	[Mpa]	[kips]	[kN]	[in²]	[mm²]	[lbs/ft]	[kg/m]	[in]	[mm]
#10	32	75	517	95.3	424	1.27	819	4.30	6.40	1.375	35
#11	36	75	517	117.0	520	1.56	1006	5.313	7.907	1.502	38

NOTE: Maximum allowable temporary test tension is 90% of the yield strength.

## Bar Accessory Properties

### DYWIDAG Flat Washers

Part Number	Bar Size	Inside Diameter		Outside Diameter		Thickness		Weight	
		[in]	[mm]	[in]	[mm]	[in]	[mm]	[lbs]	[kg]
B10U93100	#10, 1-¼"	1.375	34.925	2.5	63.50	0.156	3.970	0.16	0.073
B11U93100	#11, 1-⅜"	1.625	41.275	3	76.20	0.156	3.970	0.23	0.104
B46E93100	1-¾"	2.125	53.975	3.75	95.25	0.156	3.970	0.49	0.222
B65E93100	2-½"	2.875	73.025	5	127.00	0.29	7.366	1.2	0.544

### DYWIDAG Hex Nuts

Part Number	Hex		Length		Weight	
	[in]	[mm]	[in]	[mm]	[lbs]	[kg]
<b>GRADE 75</b>						
B10X20510	1.844	46.838	2.187	55.550	1	0.454
B11X20510	2.03	51.562	2.406	61.112	1.33	0.603
<b>GRADE 150</b>						
B32Y20510	1.969	50.013	2.5	63.500	1.6	0.726
B36Y20510	2.154	54.712	2.75	69.850	2.02	0.916
B46E20610	3	76.200	3.375	85.725	4.64	2.105
B66E20710	3.875	98.425	5	127.000	15	6.804

### PVC Sleeve

Bar Size	Outside Diameter		Wall Thickness	
	[in]	[mm]	[in]	[mm]
#10, 1-¼"	1.66	42.164	0.079	2.007
#11, 1-⅜"	1.9	48.260	0.09	2.286
1-¾"	2.375	60.325	0.113	2.870
2-½"	3.5	88.900	0.167	4.242



Cold Rolled THREADBAR® with Hexnut

**DYWIDAG-Systems  
International USA Inc.**  
320 Marmon Drive  
Bolingbrook, IL 60440  
USA  
Phone (630) 739 1100  
Fax (630) 739 5517  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

2154 South Street  
Long Beach, CA 90805  
USA  
Phone (562) 531 6161  
Fax (562) 531 3266  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

1314 Central Ave South,  
Suite 100  
Kent, WA 98032  
USA  
Phone (253) 859 9995  
Fax (253) 859 9119  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

2400 Hwy 287 N.  
Suite 106  
Mansfield, TX 76063  
USA  
Phone (817) 473 6161  
Fax (817) 473 1453  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

1263 Newark Road  
Toughkenamon, PA 19374  
USA  
Phone (610) 268 2221  
Fax (610) 268 3053  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

5139 South Royal Atlanta Drive  
Tucker, GA 30084  
USA  
Phone (770) 491 3790  
Fax (770) 938 1219  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

1591 E. Atlantic Blvd #200  
Pompano Beach, FL 33060  
USA  
Phone (954) 532 1326  
Fax (954) 532 1330  
E-Mail [dsiamerica@dsiamerica.com](mailto:dsiamerica@dsiamerica.com)

**DYWIDAG-Systems  
International Canada Ltd.**  
Eastern Division  
37 Cardico Drive  
Gormley, ON L0H 1G0  
Canada  
Phone (905) 888 8988  
Fax (905) 888 8987  
E-Mail [ecd@dsiamerica.com](mailto:ecd@dsiamerica.com)

Quebec Office  
C.P. 412  
St. Bruno  
Quebec, QC, J3V 5G8  
Canada  
Phone (450) 653 0935  
Fax (450) 653 0977  
E-Mail [ecd@dsiamerica.com](mailto:ecd@dsiamerica.com)

Western Division  
19433 - 96th Avenue, Suite 103  
Surrey, BC V4N 4C4  
Canada  
Phone (604) 888 8818  
Fax (604) 888 5008  
E-Mail [wcd@dsiamerica.com](mailto:wcd@dsiamerica.com)

Calgary Office  
2816 - 21st Street N.E., #204  
Calgary, Alberta T2E 6Z2  
Canada  
Phone (403) 291 4414  
Fax (403) 250 5221  
E-Mail [wcd@dsiamerica.com](mailto:wcd@dsiamerica.com)

ARGENTINA  
AUSTRALIA  
AUSTRIA  
BELGIUM  
BOSNIA AND HERZEGOVINA  
BRAZIL  
CANADA  
CHILE  
CHINA  
COLOMBIA  
COSTA RICA  
CROATIA  
CZECH REPUBLIC  
DENMARK  
EGYPT  
ESTONIA  
FINLAND  
FRANCE  
GERMANY  
GREECE  
GUATEMALA  
HONDURAS  
HONG KONG  
INDONESIA  
ITALY  
JAPAN  
KOREA  
LEBANON  
LUXEMBOURG  
MALAYSIA  
MEXICO  
NETHERLANDS  
NORWAY  
OMAN  
PANAMA  
PARAGUAY  
PERU  
POLAND  
PORTUGAL  
QATAR  
RUSSIA  
SAUDI ARABIA  
SINGAPORE  
SOUTH AFRICA  
SPAIN  
SWEDEN  
SWITZERLAND  
TAIWAN  
THAILAND  
TURKEY  
UNITED ARAB EMIRATES  
UNITED KINGDOM  
URUGUAY  
USA  
VENEZUELA

**Please note:**

This brochure serves basic information purposes only. Technical data and information provided herein shall be considered non-binding and may be subject to change without notice. We do not assume any liability for losses or damages attributed to the use of this technical data and any improper use of our products. Should you require further information on particular products, please do not hesitate to contact us.

[www.dsiamerica.com](http://www.dsiamerica.com)  
[www.dsicanada.ca](http://www.dsicanada.ca)