

BBV 500N BAR SYSTEM

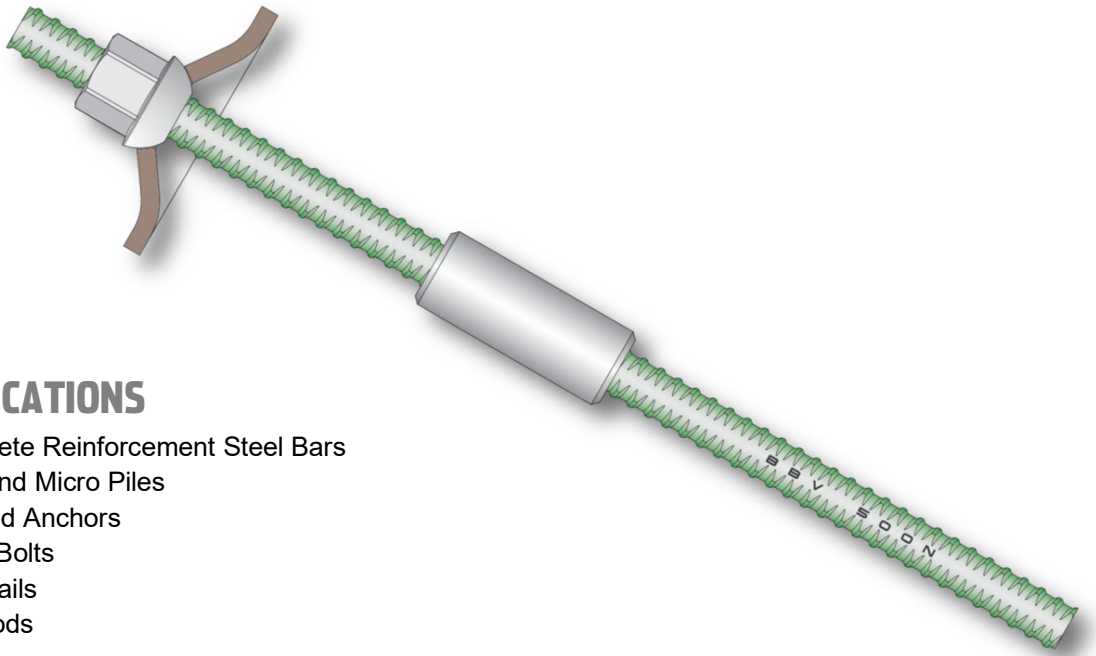
Conforming to AS/NZS 4671 standard and certified by ACRS. Produced under quality management systems ISO 9001:2015.

Robust hot rolled continuous thread profile offers high bond strength, can be cut and coupled at any point, low susceptibility to mechanical damage, easy installation and cleaning.

Supported with a wide range of proprietary accessories to accommodate multiple applications. Tailor made solutions can also be designed on a case by case basis.

Corrosion protection systems for geotechnical application in accordance RMS R64 and MRTS03 or other international standards such as BS8081, DIN EN 1537 can be provided. Hot dip galvanizing according to AS/NZS 4680.

Value added services including cutting and bending or prefabrication of cages and modules upon request.



APPLICATIONS

- Concrete Reinforcement Steel Bars
- Mini and Micro Piles
- Ground Anchors
- Rock Bolts
- Soil Nails
- Tie Rods

BBV 500N BAR PROPERTIES

Steel Grade*	N/mm ²	500N				
Nominal Bar Diameter	mm	20	25	28	32	40
Article No. 645 00 _ _ _ 3600	-	520	525	528	532	540
Nominal Sectional Area	mm ²	314	491	615	804	1260
Nominal Weight	kg/m	2.47	3.85	4.83	6.31	9.86
Over Thread Diameter	mm	22.0	27.6	31.0	35.3	43.8
Pitch, left-hand Thread	mm	9	11	13	14	16
Yield Strength (R _e)*	N/mm ²	500 - 650	500 - 650	500 - 650	500 - 650	500 - 650
Tensile Strength (R _m)*	N/mm ²	-	-	-	-	-
Ratio (R _m /R _e)*	-	1.08	1.08	1.08	1.08	1.08
Min. Uniform Elongation A _{gt} *	%	5	5	5	5	5
Min. Yield Load*	kN	157	246	308	402	630
Min. Ultimate Load**	kN	195	304	381	498	781

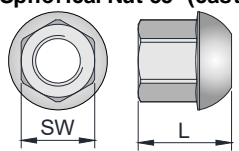
* Conforming to AS/NZS 4671:2001

** Product specification

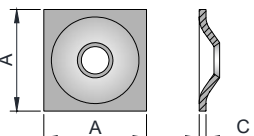
SPHERICAL ANCHORAGE ACCESSORIES

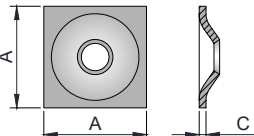
System Grade	500N				
Bar Diameter	20	25	28	32	40

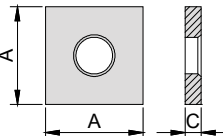
NUTS

Spherical Nut 55° (cast)		Article No. 475 00 ___ 3600	520	525	528	532	540
	L	mm	45	52	59	64	75
	SW	mm	33	41	46	53	65
	Unit Weight	kg	0.25	0.38	0.55	0.77	1.46

PLATES

Dome Plate*							
	A	mm	150	150	200	200	N/A
	C	mm	5	12	12	12	
	Unit Weight	kg	0.84	2.00	3.56	3.65	

Dome Plate*							
	A	mm	150	200	200	200	N/A
	C	mm	10	12	16	16	
	Unit Weight	kg	1.67	3.64	4.75	4.75	

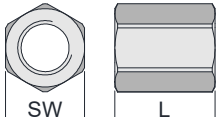
Flat Plates							
	A	mm					250
	C	mm	N/A	N/A	N/A	N/A	25
	Unit Weight	kg					11.54

* Other sizes are also available upon special arrangement.

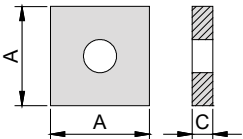
FLAT ANCHORAGE ACCESSORIES

System Grade	500N				
Bar Diameter	20	25	28	32	40

NUTS

Hex Nut (cast)	Article No. 476 00 ___ 3600	520	525	528	532	540
 L	mm	45	58	59	64	75
SW	mm	33	41	46	53	65
Unit Weight	kg	0.19	0.38	0.49	0.71	1.24

PLATES

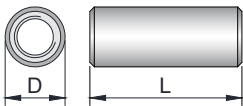
Anchor Plate*	A	mm	75	90	100	120	145
 C	mm	12	15	20	25	25	
Unit Weight	kg	0.48	0.86	1.43	2.59	3.79	

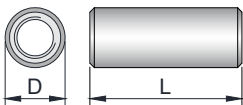
* Other sizes are also available upon special arrangement.

COUPLER ACCESSORIES

System Grade	500N				
Bar Diameter	20	25	28	32	40

COUPLERS

Cast Round Coupler **	Article No. 526 03 ___ 3600	520	525	528	532	540
 L	mm	102	125	135	157	172
D	mm	36	44	48	55	68
Unit Weight	kg	0.49	0.86	1.09	1.67	2.40

Stressing Coupler	Article No. 528 00 ___ 3600	520	525	528	532	540
 L	mm	115	140	150	175	192
D	mm	36	44	48	55	68
Unit Weight	kg	0.60	1.05	1.32	2.03	3.39

** For static or predominantly static load only.

We reserve the right to make changes and improvements to the products and/or the process which may result in benefit and/or changes to physical/mechanical characteristics.

The data contained herein are considered representative of current production and is believed to be reliable and to represent the best available characterization of the product as of April 2024.