

# SELF DRILLING ANCHOR BOLT

# 自钻式锚杆

## I. 自进式锚杆 Self-drilling hollow anchor bar

	Outer side diameter	Average Internal diameter	Effective external diameter	Aver.eff. Cross sectional area	Ultimate load capacity	Yield load capacity	Average tensile strength Rm	Average yield strength Rp0,2	Theoretical weight
	mm	mm	mm	mm <sup>2</sup>	KN	KN	N/mm <sup>2</sup>	N/mm <sup>2</sup>	KG/m
R25N	25	14	23	244	210	150	805	660	2.4
R32N	32	18.5	29.1	396	280	230	720	560	3.4
R32S	32	15	29.1	488	360	280	740	70	4.1
R38N	38	38	19	35.7	500	400	700	540	6.5
R51L	51	36	47.8	776	550	450	690	580	7.8
R51N	51	33	47.8	939	800	630	840	670	9.8
T76N	76	51	76	1835	1600	1200	880	660	15.0
T76S	76	45	76	2400	1900	1500	790	630	19.7
Anchor plate	120mm X 120mm X 6mm			150mm X 150mm X 8mm			200mm X 200mm X 10mm		
Anchor nut	SW41 x H35			SW46 x H45			SW65 x H55		
coupling	D35 x L150	D41 x L160		D55 x L170			D64 x L120		
Drill Bit	According to different condition, choose alloy, steel... Bit, custom design is available								

## Self-drilling anchor tools R25

	Description	Size	Weight (kg)	Part No.	Remark
Bit with thread R25	Cast cross bit	R25/42 mm	0.35	S142-R25	Cast cross bit for sand and gravel
		R25/51 mm	0.38	S151-R25	
	Steel cross bit	R25/42 mm	0.30	S242-R25	Hardened cross bit for loose to medium dense conditions with small boulders
		R25/51 mm	0.40	S251-R25	
	TC cross bit	R25/42 mm	0.35	S342-R25	TC cross bit for soft to medium rock formations
		R25/51 mm	0.45	S351-R25	
		Length (mm)		Part No.	
Bar R25		1 m long		BR25-01	
		2 m long		BR25-02	
		3 m long		BR25-03	
		4 m long		BR25-04	
		6 m long		BR25-06	
Coupler R25	Diameter (mm)	Length (mm)		Part No.	
	38	150		CR25-38-150	
Nut R25	Key size (mm)	Length (mm)		Part No.	
	41	41		NR25-41-41	
Spherical nut R25	Key size (mm)	Length (mm)	Weight (kg)	Part No.	
	41	41	0.33	SNR25-41-41	
Anchor plate R25	Dimension (mm)	Hole diameter (mm)	Weight (kg)	Part No.	
	150×150×8	27	1.36	AP150×150×8-27	
	200×200×10	27	2.99	AP200×200×10-27	

## Self-drilling anchor tools R32

	Description	Size	Weight (kg)	Part No.	Remark
Bit with thread R32N & R32S	Cast cross bit	R32/51 mm	0.45	S151-R32	Cast cross bit for sand and gravel
	Steel cross bit	R32/51 mm	0.40	S251-R32	Hardened steel bit for loose to medium dense ground conditions
		R32/76 mm	1.30	S276-R32	
	Steel 3 cutter bit	R32/76 mm	1.20	S276-R32-1	
	TC cross bit	R32/51 mm	0.45	S351-R32	TC insert bit for soft to medium rock formations
	TC 3 cutter bit	R32/76 mm	1.30	S376-R32	
	Steel arched bit	R32/51 mm	0.45	G151-R32	Hardened arched bit for optimized geometry for unconsolidated soil with small boulders
	TC arched bit	R32/51 mm	0.45	G251-R32	TC arched bit for optimized geometry for soft to medium rock formations
	Steel button bit	R32/51 mm	0.60	Q251-R32	Hardened button bit for unconsolidated rock with boulders
	TC button bit	R32/51 mm	0.65	Q351-R32	TC insert button bit for medium rock formation
	Length (mm)		Type	Part No.	
Bar R32	1 m long		R32L	BR32-01L	
			R32N	BR32-01N	
			R32S	BR32-01S	
	2 m long		R32L	BR32-02L	
			R32N	BR32-02N	
R32S			BR32-02S		
3 m long		R32L	BR32-03L		
		R32N	BR32-03N		
		R32S	BR32-03S		
4 m long		R32L	BR32-04L		
		R32N	BR32-04N		
		R32S	BR32-04S		
6 m long		R32L	BR32-06L		
		R32N	BR32-06N		
		R32S	BR32-06S		
Coupler R32	Diameter (mm)	Length (mm)	Weight (kg)	Part No.	
	42	160	0.85	CR32-42-160	
Nut R32	Key size (mm)	Length (mm)	Weight (kg)	Part No.	
	46	45	0.35	NR32-46-45	
Spherical nut R32	Key size (mm)	Length (mm)	Weight (kg)	Part No.	
	41	41	0.33	SNR32-41-41	
Anchor plate R32	Dimension (mm)	Hole diameter(mm)	Weight (kg)	Part No.	
	150×150×8	27	1.36	AP150×150×8-27	
	200×200×10	27	2.99	AP200×200×10-27	

## Self-drilling anchor tools R38

	Description	Size	Weight (kg)	Part No.	Remark
Bit with thread R38N	Steel cross bit	R38/76 mm	1.20	S276-R38	Hardened cross bit for loose to medium dense conditions with small boulders
		R38/90 mm	1.40	S290-R38	
	Steel arched bit	R38/76 mm	1.20	G176-R38	Hardened arched bit for optimized geometry for unconsolidated soil with small boulders
	TC arched bit	R38/115 mm	2.85	G2115-R38	TC arched bit for optimized geometry for soft to medium rock formations
	TC cross bit	R38/76 mm	1.25	S376-R38	TC cross bit for soft to medium rock formations
		R38/90 mm	1.45	S390-R38	
	TC 3 cutter bit	R38/76 mm	0.85	S376-R38-1	TC insert bit for soft to medium rock formations
	Steel button bit	R38/76 mm	1.00	Q276-R38	Hardened button bit for unconsolidated rock with boulders
TC button bit	R38/76 mm	1.00	Q376-R38	TC insert button bit for medium rock formations	
Bar R38	Length (mm)		Part No.		
	1 m long		BR38-01		
	2 m long		BR38-02		
	3 m long		BR38-03		
	4 m long		BR38-04		
	6 m long		BR38-06		
Coupler R38	Diameter (mm)	Length (mm)	Part No.	Weight (kg)	
	51	220	CR38-51-220	1.70	
Nut R38	Key size (mm)	Length (mm)	Part No.	Weight (kg)	
	50	60	NR38-50-60	0.40	
Spherical nut R38	Key size (mm)	Length (mm)	Part No.	Weight (kg)	
	55	65	SNR38-55-65	0.90	
Anchor plate R38	Dimension (mm)	Hole diameter (mm)	Part No.	Weight (kg)	
	200×200×10	40	AP200×200×10-40	2.94	
	200×200×12	40	AP200×200×12-40	3.60	

## Self-drilling anchor tools R51

	Description	Size	Part No.	Weight (kg)	Remark
R51L& R51N	Steel cross bit	R51/85 mm	S285-R51	1.30	Hardened cross bit for loose to medium dense conditions with small boulders
	TC cross bit	R51/115 mm	S3115-R51	1.80	TC cross bit for soft to medium rock formations
	Steel button bit	R51/100 mm	Q2110-R51	1.85	TC insert button bit for unconsolidated rock with boulders
		R51/115 mm	Q2115-R51	2.00	
	TC button bit	R51/100 mm	Q3110-R51	1.85	TC insert button bit for medium rock formations
Bar R51	length	Type	Part No.		
	1 m long	R511 R51N	BR51-01		
	2 m long	R511 R51N	BR51-02		
	3 m long	R511	BR51-03		
	4 m long	R511 R51N	BR51-04		
	6 m long	R511 R51N	BR51-06		
Coupler R51	Diameter	length	Part No.	Weight(kg)	
	63	200	CR51-63-200	1.90	
Nut R51	Key size	length	Part No.	Weight(kg)	
	75	70	NR751-75-70	1.55	
Spherical Nut R51	Key size	length	Part No.	Weight(kg)	
	75	70	SNR51-75-70	1.73	
Anchor plate R51	Dimension	Hole diameter	Part No.	Weight(kg)	
	200×200×12	52.5	AP200×200×12-52.5	3.6	

## Self-drilling anchor tools T76

	Description	Size	Part No.	Weight (kg)	Remark
T76N & T76S	Steel cross bit	T76/130 mm/EYS	S2130-T76	6.00	Hardened drill bit with buttons for medium to dense soil and rock
	TC button bit	T76/130 mm/EYSS	S3130-T76	6.00	As above but with TC-inserts
	TC button bit	T76/130mm/ESS-F	Q3130-T76	6.00	Button bit with TC-inserts for medium to hard rock formations
Bar T76	Length		Type		
	1 m long		BT76-01L BT76-01N		
	2 m long		BT76-02L BT76-02N		
	3 m long		BT76-03L BT76-03N		
	4 m long		BT76-04L BT76-04N		
	6 m long		BT76-06L BT76-06N		
Coupler T76	Diameter	Length	Part No.	Weight (kg)	
	97	220	CT76-97-220	4.70	
Nut T76	Key size	Length	Part No.	Weight (kg)	
	100	80	NT76-100-80	2.70	
Anchor plate T76	Dimension	Hole diameter	Part No.	Weight (kg)	
	250×250×40	80	AP250×250×40-80	18	
	250×250×60	80	AP250×250×60-80	27	

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