TITAN Anker Systeme
TITAN anchor systems

MORATH®

Ihr kompetenter Partner für Geotechnik
Your competent partner for geotechnics

Anwendungsbereiche
Range of application

Lawinenverbau /Steinschlagbarrieren
Avalanche barriers

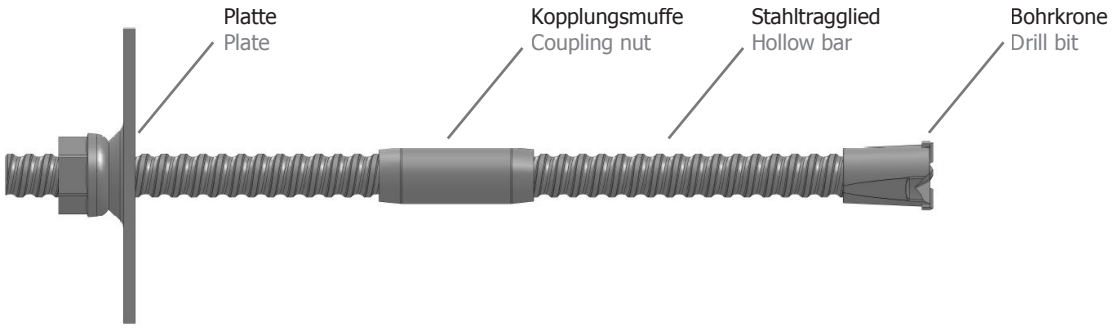
Fundamentgründung /-stabilisierung
Fondations

Böschungssicherung
Embankment stabilisation

Rückverankerung
Anchoring

Berg- und Tunnelbau
Tunnel construction/Mining

Drehschlagbohren (Außenlochhammer)
Rotary percussive drilling



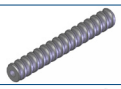
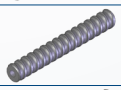
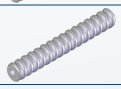
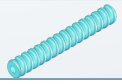
Bezeichnung Description	TITAN 30/16	TITAN 30/11	TITAN 40/20	TITAN 40/16	TITAN 52/26	TITAN 73/56	TITAN 73/53	TITAN 73/45	TITAN 73/35	TITAN 103/78	TITAN 103/51
Ø außen, mm Ø outside	**30**	**30**	40	40	52	73	73	73	73	103	103
Ø innen, mm Ø inside, mm	**16**	**11**	20	16	26	56	53	45	35	78	51
Charakteristische Tragfähigkeit R_k, kN Ultimate load, kN	**155**	**225**	372	490	650	695	900	1218	1386	1626	2500
Kraft an der 0,2% Dehngrenze, kN Yield point, kN	**190**	**260**	425	525	730	830	970	1270	1430	1800	2670

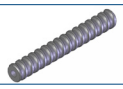
TITAN 30/11 + 30/16 + Zubehör
TITAN 30/11 + 30/16 + Accessories

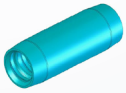
MORATH®

Stahl-Tragglied | Hollow bar

TITAN 30/16 mm// Hollow bar TITAN 30/16 mm	**TITAN 30/11 mm// Hollow bar TITAN 30/11 mm**
0,2 % Dehngrenze 190 kN (charakt. Tragfähigkeit 155 kN), Baustahl DIN EN 10210-1 S460, mit durchlaufendem Linksgewinde, gebündelt zu 50 St., fremdüberwacht durch MPA NRW (Nr. 117143) Ultimate load 320 kN, yield point 260 kN, acc. tto EN 10210-10S460, continuously left hand threaded, packing unit 50 pcs.	0,2 % Dehngrenze 260 kN (charakt. Tragfähigkeit 225 kN, 250 kN temporär), gemäß Zulassung Z-34.14-209, Baustahl DIN EN 10210-1 S460, mit durchlaufendem Linksgewinde, gebündelt zu 50 St., fremdüberwacht durch MPA NRW (Nr. 119174-1) Ultimate load 320 kN, yield point 260 kN, acc. tto EN 10210-10S460, continuously left hand threaded, packing unit 50 pcs.

TITAN 30/11		**Artikel Nr.** **Art.-No.**	**Länge** **Length**	**Gewicht Kg/St.** **Weight, kg/pc**	**Bedarf** **Need**
	roh black	5002581	1 m	3,29	
	roh black	5002583	2 m	6,59	
Standard	roh black	5002585	3 m	9,87	
	roh black	5002587	4 m	13,17	
	feuerverzinkt hot-galvanized	5011543	1 m	5,9	
	feuerverzinkt hot-galvanized	5011401	3 m	9,90	
	duplex-beschichtet duplex-coated	5002591	3 m	10,23	

TITAN 30/16		**Artikel Nr.** **Art.-No.**	**Länge** **Length**	**Gewicht Kg/Stck.** **Weight, Kg/pc**	**Bedarf** **Need**
	roh black	5002579	3 m	8,10	

Kopplungsmuffe **Coupling nut**	**Technische Daten** **Technical Data**		**Artikel Nr.** **Art.-No.**	**Gewicht, kg** **Weight, kg**	**Bedarf** **Need**
	roh black	Ø 38 x 105 mm	5002607	0,42	
	feuerverzinkt hot-galvanized	Ø 38 x 105 mm	5002613	0,42	
	duplex-beschichtet duplex-coated	Ø 38 x 105 mm	5011679	0,42	

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TITAN 30/11 + 30/16 + Zubehör
TITAN 30/11 + 30/16 + Accessories

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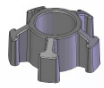
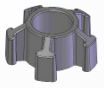
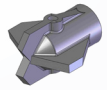
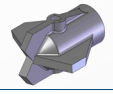
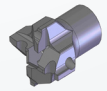
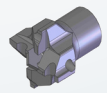
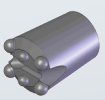
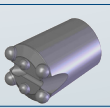
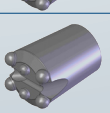
Stahl-Tragglied | Hollow bar

Abstandhalter Centralizer	Durchmesser Diameter	Artikel Nr. Art.-No.	Gewicht, kg Weight, kg	Bedarf Need
	Ø 70 mm roh Ø 70 mm black	5008323	0,23	
	Ø 88 mm roh Ø 88 mm black	5011689	0,27	

Bohrkronen | Drill bits

Bezeichnung Description	Durchmesser Diameter	Artikel Nr. Art.-No.	Gewicht, kg Weight, kg	Bedarf Need
Lehmbohrkrone **Hardened clay bit**				
	Ø 75 mm	5005637	0,44	
	Ø 95 mm	5010634	0,55	
Kreuzbohrkrone, gehärtet **Cross cut drill bit, hardenedt**				
	Ø 76 mm	5010252	0,90	
	Ø 90 mm	5010573	1,50	
Warzenbohrkrone **Button drill bit**				
	Ø 42 mm	5010964	0,28	
	Ø 46 mm	5002606	0,32	
	Ø 51 mm	5008052	0,34	
	Ø 55 mm	5006714	0,38	

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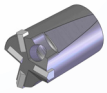
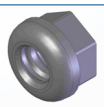
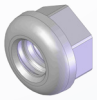
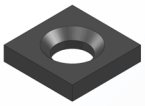
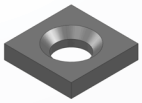
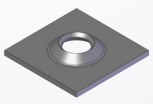
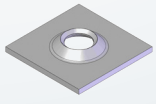
Bohrkronen / Drill bits

Bezeichnung Description	Durchmesser Diameter	Artikel Nr. Art.-No.	Gewicht, kg Weight, kg	Bedarf Need
Hartmetall-Kreuzbohrkrone **Carbide cross cut drill bit**				
	Ø 46 mm	5010265	0,37	
Hartmetall-Stiftbohrkrone **Carbide cross drill bit**				
	Ø 51 mm	5010525	0,45	

Ankerkopf / Anchor head

Bezeichnung Description		Technische Daten Technical Data	Artikel Nr. Art.-No.	Gewicht, kg Weight, kg	Bedarf Need
Kugelbundmutter **Spherical collar nut**					
	roh black	SW 46 x 35 mm	5002608	0,34	
	feuerverzinkt hot-galvanized	SW 46 x 35 mm	5002612	0,34	
	duplex-beschichtet duplex-coated	SW 46 x 35 mm	*	0,37	
Kopfplatte **Washer plate for anchor piles**					
	roh black	Bohrung Ø 40 mm, 100 x 100 x 20 mm hole Ø 40 mm	5017158	1,30	
	feuerverzinkt hot-galvanized	Bohrung Ø 40 mm, 100 x 100 x 20 mm hole Ø 40 mm	*	1,35	
Kalottenplate **Washer plate**					
	roh black	Bohrung Ø 36 mm, 200 x 200 x 8 mm hole Ø 36 mm	5002605	2,43	
	feuerverzinkt hot-galvanized	Bohrung Ø 65 mm, 200 x 200 x 8 mm hole Ø 65 mm	5009898	2,50	

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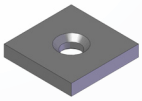
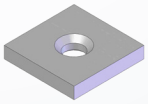
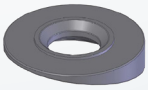
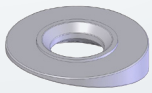
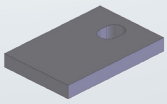
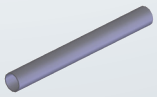
Bezeichnung Description		Technische Daten Technical Data		Artikel Nr. Art.-No.	Gewicht, kg Weight, kg	Bedarf Need
Ankerplatte **Washer plate for anchor piles**						
	roh black	Bohrung Ø 40 mm, Hole Ø 65 mm	150 x 150 x 25 mm	5010513	4,10	
	feuerverzinkt hot-galvanized	Bohrung Ø 40 mm, Hole Ø 40 mm	150 x 150 x 25 mm	*	4,25	
Keilscheibe 12° **Wedge disc 12°**						
	roh black	Ø 105 mm, 30 mm hoch, stufenloser Ausgleich max. 3x12° Ø 105 mm, 30 mm high, allows max. 3x12°		5003640	0,91	
	verzinkt galvanized			5010594	0,91	
Auflagerplatte **Washer plate**						
	roh black	Für Keilscheibe 300 x 200 x 35 mm, mit Langloch 50 x 70 mm For wadge disc 300 x 200 x 35 mm, with slot 50 x 70 mm		5011685	14,00	
Ringmutter **Eye bolt**						
	verzinkt galvanized	Ring-Innen Ø35 mm, zulässige Belastung 30 kN 35 mm internal diam., SWL 30 kN		5006720	0,50	
Ankerkopföse **Eye bolt**						
	verzinkt galvanized	Ring-Innen Ø50 mm, zulässige Belastung 150 kN 50 mm internal diam., SWL 150 kN		5010863	2,40	
Adapterstück **Adaptor for hollow bar**						
	60 mm, für Stahl-Tragglied 30/11 auf Bohrkrone 40/16 60 mm, to drill bit 40/16			5006112	0,30	
Übergangsrohr PE-HD **HD-PE tube**						
	Ø 40 x 2,3 x 3000 mm			5011697	0,86	
	Ø 90 x 5,31 x 3000 mm			5011523	4,20	

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