

TITAN Micropile

Technical data

Micropiles and drill bit types



National Technical Approval /
Construction Technique Permit
Z-34.14-209

Technical data

		Nominal outside diameter d_{no}	Nominal inside diameter d_{ni}	Effective cross section A_{eff}	Characteristic load- carrying capacity R_k (5 % fractile)	Ultimate load F_u normativ requirement ($1.15 \times R_k$) ²⁾	Strain stiffness $E \times A$ ¹⁾	Bending stiffness $E \times I$ ¹⁾	Weight	Length	Left-/right-hand thread
		mm	mm	mm ²	kN	kN	10 ³ kN	10 ⁶ kNmm ²	kg/m	m	
TITAN	26/15	26	15	295	125	144	54	2.8	2.3	2.4	left
	30/16	30	16	336	190	219	62	3.7	2.7	3	left
	30/11	30	11	415	255	293	83	4.6	3.3	2/3/4	left
	40/27	40	27	560	325	374	95	12	4.6	3	left
	40/20	40	20	730	430	495	135	15	6.1	3/4	left
	40/16	40	16	900	530	610	167	17	7.2	2/3/4	left
	52/29	52	29	1050	635	730	195	37	8.6	3/4	left
	52/26	52	26	1250	710	817	231	42	10.7	3/4	left
	73/56	73	56	1460	865	995	272	138	11.2	3/4	right
	73/53	73	53	1615	975	1121	299	143	13.9	3/4	right
	73/45	73	45	2239	1220	1403	414	178	17.8	3/4	right
	73/35	73	35	2714	1390	1599	502	195	21.2	3/4	right
	103/78	103	78	3140	1770	2036	580	564	25.3	3/4	right
	103/72	103	72	3780	2125	2444	690	628	29.2	3/4	right
	103/51	103	51	5680	2540	2921	1022	794	44.3	3/4	right
	103/43	103	43	6025	3132	3602	1083	838	47.2	3	right
	127/103	127	103	3744	2015	2317	691	1114	28.4	3	right
	196/130	196	130	16077	6465	7435	3215	10906	127.3	3	right

¹⁾ In the case of deformation calculations, the specified values shall be used. The values are determined from testing. It is not possible to calculate the modulus of elasticity, cross section or moment of inertia from these values.

²⁾ Minimum ultimate load according to the applicable standard, calculated based on the required ratio $F_u / R_k = 1.15$. This value does not represent an actual measured ultimate load.

Drill bit types

drill bits Ø mm	description	hardened clay bit	cross cut drill bit	button drill bit	carbide cross-cut/ tri-wing drill bit 73/.. 196/.. 73/.. 103/.. for hard rock granite, dolomite, sandstone	carbide-Y- cross drill bit for hard rock granite, dolomite, sandstone	carbide cross cut 3-step drill bit for hard rock granite, dolomite, sandstone	carbide button drill bit for very hard or high quartzite rock
left hand	TITAN 26/..	—	—	—	—	—	—	30 38
	TITAN 30/..	75 95	76 90	42 46 51 70	—	75	75	45 51 70
	TITAN 40/..	110 150	90 115 150	70	—	90 115	90	70 90
	TITAN 52/..	130 175 200	115 130 175	—	—	115 130 175	—	115 130
	TITAN 73/..	200	130 175	—	130	130 175	130	130
right hand	TITAN 103/..	220 280	175 220	—	175	175 240	—	175
	TITAN 127/..	220	200	—	—	—	—	200
	TITAN 196/..	—	—	—	340	—	—	340

Illustrations may differ. If required, drill bits of a larger type can be used with an adapter.

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