

UNIVERSAL HEAVY DUTY ANCHOR

KTB-PRO

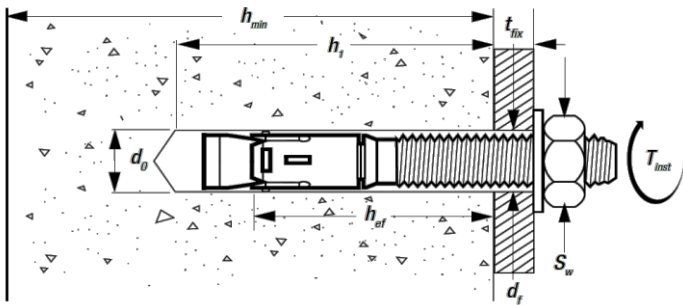
PRODUCT DESCRIPTION

The KTB-PRO is a fully threaded, torque controlled, wedge expansion anchor which is designed for consistent performance in concrete. The anchor is easy to install and suitable for a variety of base materials. The wide range of available KTB-PRO anchor sizes covers all common capacity demands. The superior load-displacement response qualifies the KTB-PRO for both standard and adverse loading conditions.

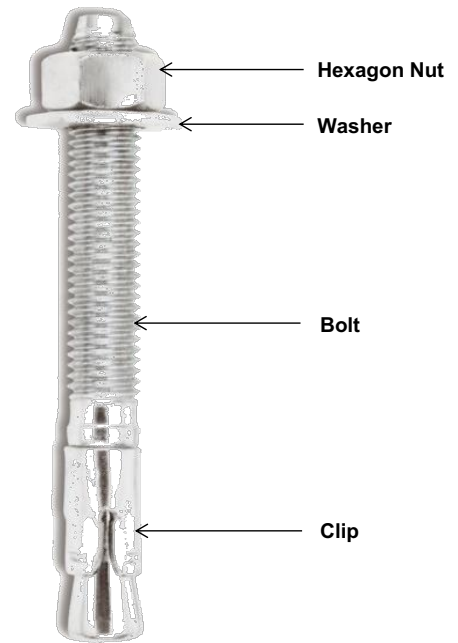
FEATURES & BENEFITS

- Consistent performance in high and low strength concrete.
- Nominal drill bit size is same as the anchor diameter.
- Anchor can be installed through standard fixture holes.
- Fully threaded bolt for highest flexibility."

INSTALLATION DATA

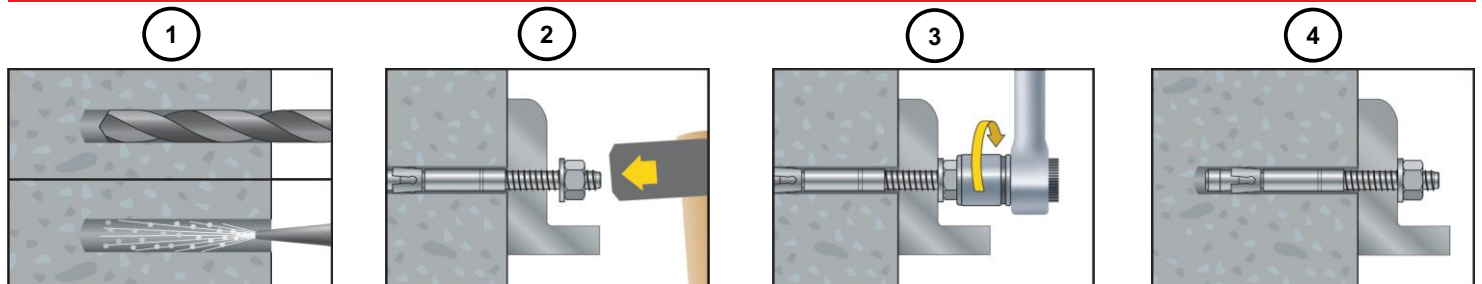


ASSEMBLY



	Notation	Unit	KTB-PRO						KTB-SS-PRO			
			M8	M10	M12	M16	M20	M24	M8	M10	M12	M16
Anchor Diameter	d	[mm]	8	10	12	16	20	24	8	10	12	16
Nominal drill bit diameter	d ₀	[mm]	8	10	12	16	20	24	8	10	12	16
Diameter of hole clearance in fixture	d _f	[mm]	9	12	14	18	22	26	9	12	14	18
Effective embedment depth 1	h _{ef,1}	[mm]	40	60	70	80	110	125	40	60	70	80
Effective embedment depth 2	h _{ef,2}	[mm]	60	80	90	100	130	150	60	80	90	100
Drill hole depth for h _{ef,1}	h _{1,1}	[mm]	55	75	85	100	150	170	55	75	85	100
Drill hole depth for h _{ef,2}	h _{1,2}	[mm]	75	95	105	120	170	190	75	95	105	120
Minimum member thickness for h _{ef,1}	h _{min,1}	[mm]	100	120	140	160	200	250	100	120	140	160
Minimum member thickness for h _{ef,2}	h _{min,2}	[mm]	120	140	160	180	220	270	120	140	160	180
Minimum spacing	s _{min}	[mm]	50	55	60	70	95	125	50	55	60	70
Corresponding edge distance	for c ≥	[mm]	90	90	100	130	240	300	90	90	100	130
Minimum edge distance	c _{min}	[mm]	55	60	65	85	95	125	55	60	65	85
Corresponding spacing	for s ≥	[mm]	120	150	190	160	240	300	120	150	190	160
Installation torque	T _{inst}	[Nm]	25	45	70	120	200	280	25	45	70	120
Torque wrench socket size	S _w	[mm]	13	17	19	24	30	36	13	17	19	24

INSTALLATION INSTRUCTIONS

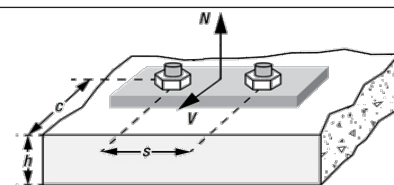


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RECOMMENDED LOADS

- The Following table are meant to give the designer aid in the preliminary design process.
- No responsibility is taken for the correctness of these data.
- The given values are valid for normal concrete C20/25 an static/quasi-static loads with the exact dimensional information given.
- The values in the tables below are design level loads. This assumes a safety factor is included both on the loading and the resistance.



ANCHOR SIZE		M8	M10	M12	M16	M20	M24						
Effective anchorage depth $h_{ef,1}$ & $h_{ef,2}$	[mm]	40	60	60	80	70	90	80	100	110	130	125	150
Tensile N_{rec}													
KTB-PRO	[KN]	4.8	6.3	7.7	8.7	10.0	12.5	14.3	18.3	24.0	29.7	28.6	34.6
KTB-SS-PRO	[KN]	4.3	5.7	6.9	7.8	9.0	11.3	12.9	16.5	21.6	26.7	25.7	31.1
Shear V_{rec}													
KTB-PRO	[KN]	4.9	5.8	8.5	10.5	12.9	16.9	24.2	24.2	31.0	31.0	44.5	44.5
KTB-SS-PRO	[KN]	4.9	5.8	8.5	10.5	12.9	16.9	24.2	24.2	31.0	31.0	44.5	44.5

Recommended loads are with overall partial safety factor for action = 1.40. The partial safety factors for action depend on the type of loading and shall be taken from national regulations.

KTB-PRO THROUGHBOLT PRODUCT RANGE

KTB-PRO (Zinc Plated) PRODUCT DESCRIPTION	ARTICLE NO.	FIXTURE THK. t_{fix}	WRENCH SIZE s_w	BOX QTY.
KTB-PRO M6x75	KTB06075	20	10	100
KTB-PRO M8x75	KTB08075	15	13	100
KTB-PRO M8x100	KTB08100	50	13	100
KTB-PRO M10x75	KTB10075	5	17	50
KTB-PRO M10x100	KTB10100	30	17	50
KTB-PRO M10x125	KTB10125	55	17	50
KTB-PRO M12x100	KTB12100	10	19	25
KTB-PRO M12x125	KTB12125	35	19	25
KTB-PRO M12x150	KTB12150	60	19	25
KTB-PRO M12x200	KTB12200	115	19	25
KTB-PRO M16x100	KTB16100	10	24	20
KTB-PRO M16x125	KTB16125	15	24	20
KTB-PRO M16x150	KTB16150	35	24	20
KTB-PRO M16x200	KTB16200	85	24	20
KTB-PRO M16x250	KTB16250	135	24	20
KTB-PRO M16x300	KTB16300	185	24	20
KTB-PRO M20x125	KTB20125	10	30	10
KTB-PRO M20x150	KTB20150	25	30	10
KTB-PRO M20x200	KTB20200	60	30	10
KTB-PRO M20x250	KTB20250	110	30	10
KTB-PRO M20x300	KTB20300	160	30	10
KTB-PRO M24x200	KTB24200	30	36	10
KTB-PRO M24x300	KTB24300	130	36	10
KTB-SS-PRO (Stainless Steel) PRODUCT DESCRIPTION	ARTICLE NO.	FIXTURE THK. t_{fix}	WRENCH SIZE s_w	BOX QTY.
KTB-SS-PRO M6x75	KTBSS06075	20	10	100
KTB-SS-PRO M8x75	KTBSS08075	15	13	100
KTB-SS-PRO M10x100	KTBSS10100	30	17	50
KTB-SS-PRO M12x100	KTBSS12100	10	19	25
KTB-SS-PRO M16x150	KTBSS16150	35	24	20

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