

THD  
**High capacity undercut anchor, concrete screw**

*Undercut anchor for heavy duty*

## Features

### Materiál

- Electro-galvanized steel

### Vorteile

- Quicker installation than expansion anchor
- aesthetic hexagonal head
- Large
- Thread design undercuts to efficiently transfer the load to the base material
- Standard fractional sizes
- Specialized heat-treating process creates tip hardness for better cutting without compromising the ductility
- No special drill bit required — designed to install using standard-sized ANSI tolerance drill bits
- Testing shows the Titen HD® installs in concrete with 50% less torque than competitor anchors
- Hex-washer head requires no separate washer and provides a clean installed appearance
- Removable — ideal for temporary anchoring (e.g., formwork, bracing) or applications where fixtures may need to be moved (reuse of the anchor to achieve listed load values is not recommended)

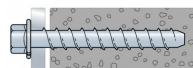
## Applications

### Anwendbare Materialien

- Cracked and uncracked concrete

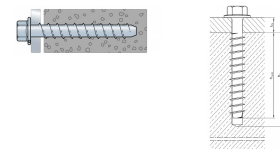
### Anwendungsbereich

- **Heavy fastening:** Hangers, railing..
- **Numerous connctions:** cable tray, stadium chairs, racks..;
- **Temporary use**



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## Technical Data



Rozměry a typické hodnoty

Art. nr.	Art.No.	Ø Thread [mm]	L [mm]	max. Klemmdicke [mm]	Durchgangsloch im Anbauteil [mm]	Ø drilling hole x min. drilling depth [mm]	Pack Size
THD M8-70/5	THD08070	10.3	70	5	12	8 x 75	50
THD M8-80/15	THD08080	10.3	80	15	12	8 x 75	50
THD M8-100/35	THD08100	10.3	100	35	12	8 x 75	50
THD M8-120/55	THD08120	10.3	120	55	12	8 x 75	50
THD M8-140/75	THD08140	10.3	140	75	12	8 x 75	50
THD M8-160/95	THD08160	10.3	160	95	12	8 x 75	50
THD M10-80/5	THD10080	12.5	80	5	14	10 x 85	50
THD M10-90/15	THD10090	12.5	90	15	14	10 x 85	50
THD M10-100/25	THD10100	12.5	100	25	14	10 x 85	50
THD M10-120/45	THD10120	12.5	120	45	14	10 x 85	50
THD M10-140/65	THD10140	12.5	140	65	14	10 x 85	50
THD M10-160/85	THD10160	12.5	160	85	14	10 x 85	50
THD M10-170/95	THD10170	12.5	170	95	14	10 x 85	50
THD M12-110/15	THD12110	14.4	110	15	16	12 x 105	20
THD M12-130/35	THD12130	14.4	130	35	16	12 x 105	20
THD M16-130/15	THD16130	19.6	130	15	22	16 x 130	10
THD M16-150/35	THD16150	19.6	150	35	22	16 x 130	10

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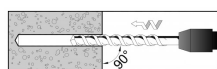
permissible loads

Art. nr.	permissible loads in C20/25 <sup>**)</sup>	
	$N_{zul}$ [kN]	$V_{zul}$ [kN]
THD M8-70/5	2.4	8.3
THD M8-80/15	2.4	8.3
THD M8-100/35	2.4	8.3
THD M8-120/55	2.4	8.3
THD M8-140/75	2.4	8.3
THD M8-160/95	2.4	8.3
THD M10-80/5	3	13
THD M10-90/15	3	13
THD M10-100/25	3	13
THD M10-120/45	3	13
THD M10-140/65	3	13
THD M10-160/85	3	13
THD M10-170/95	3	13
THD M12-110/15	4.8	18
THD M12-130/35	4.8	18
THD M16-130/15	9.9	27.3
THD M16-150/35	9.9	27.3

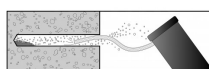
<sup>\*\*)</sup> Permissible loads apply to single anchors in cracked concrete without the influence of center and edge distances

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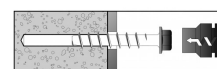
## Installation



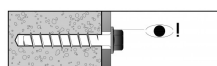
Drill hole



Clean hole



Setting screw anchor with an impact screw driver



Check connection

## Instalační parametry

Art. nr.	Bohremenn- durchmesser [mm]	Min. drill depth - $h_1$ [mm]	&Oslmash drilling fixture - $d_f$ [mm]	Montage- drehmoment [Nm]	Impact screw driver (7) - $T_{sd}$ [Nm]	Verankerungs- tiefe [mm]	Characteristic spacing <sup>(5)</sup> - $S_{cr,N}$ [mm]	Min. rozestupy [mm]	Char. edge distance [mm]	min. Rand- abstand [mm]	Mindestbauteildicke [mm]
THD M8-70/5	8	75	12	NA	≤ 200	47	141	50	70.5	50	105
THD M8-80/15	8	75	12	NA	≤ 200	47	141	50	70.5	50	105
THD M8-100/35	8	75	12	NA	≤ 200	47	141	50	70.5	50	105
THD M8-120/55	8	75	12	NA	≤ 200	47	141	50	70.5	50	105
THD M8-140/75	8	75	12	NA	≤ 200	47	141	50	70.5	50	105
THD M8-160/95	8	75	12	NA	≤ 200	47	141	50	70.5	50	105
THD M10-80/5	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M10-90/15	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M10-100/25	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M10-120/45	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M10-140/65	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M10-160/85	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M10-170/95	10	85	14	75	≤ 515	55	165	60	82.5	60	125
THD M12-110/15	12	105	16	NA	≤ 515	70	210	80	105	80	150
THD M12-130/35	12	105	16	NA	≤ 515	70	210	80	105	80	150
THD M16-130/15	16	130	22	280	≤ 515	86	258	100	129	100	180
THD M16-150/35	16	130	22	280	≤ 515	86	258	100	129	100	180

# Technický list

**SIMPSON**

**Strong-Tie**

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