

HTS

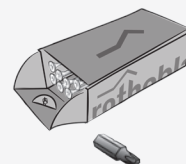
Countersunk total thread screw

Carbon steel with white galvanic zinc coating



PACKAGING

Box + BIT



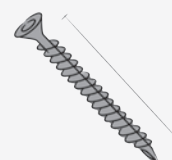
FINE THREAD

Fine thread for the utmost screwing precision, also on particle board



TOTAL THREAD

Total thread (85% of the length) with a smooth under head, for maximum coupling efficiency



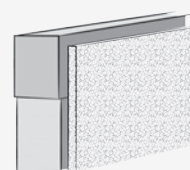
ECO-FRIENDLY

Trivalent Cr^{3+} chrome coating, replacing hexavalent chrome Cr^6



FIELDS OF USE

Particle board, solid-wood, glulam, X-Lam, LVL, wood-based-panel joints. Service classes 1 and 2

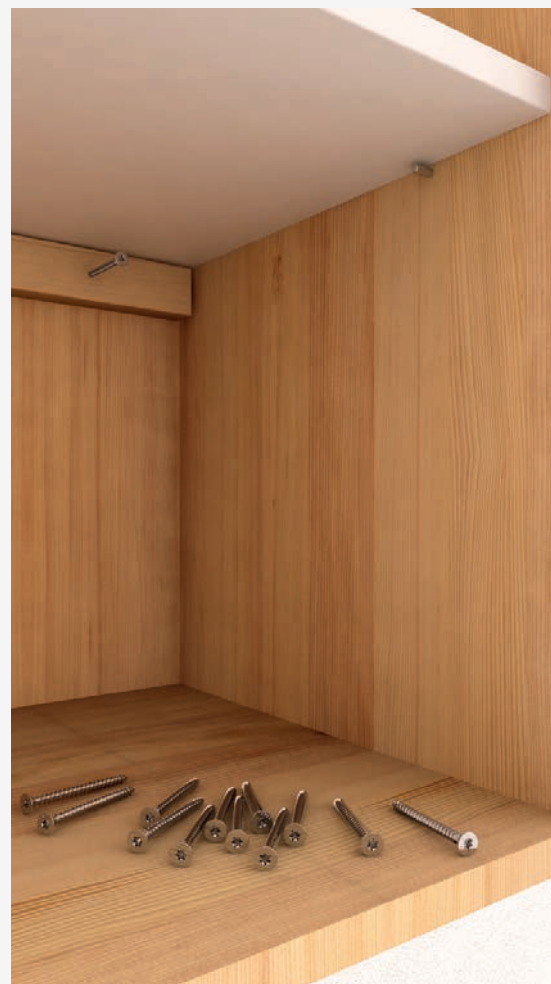


METAL HINGES

The total thread and special head geometry are ideal for fastening metal hinges when building furniture

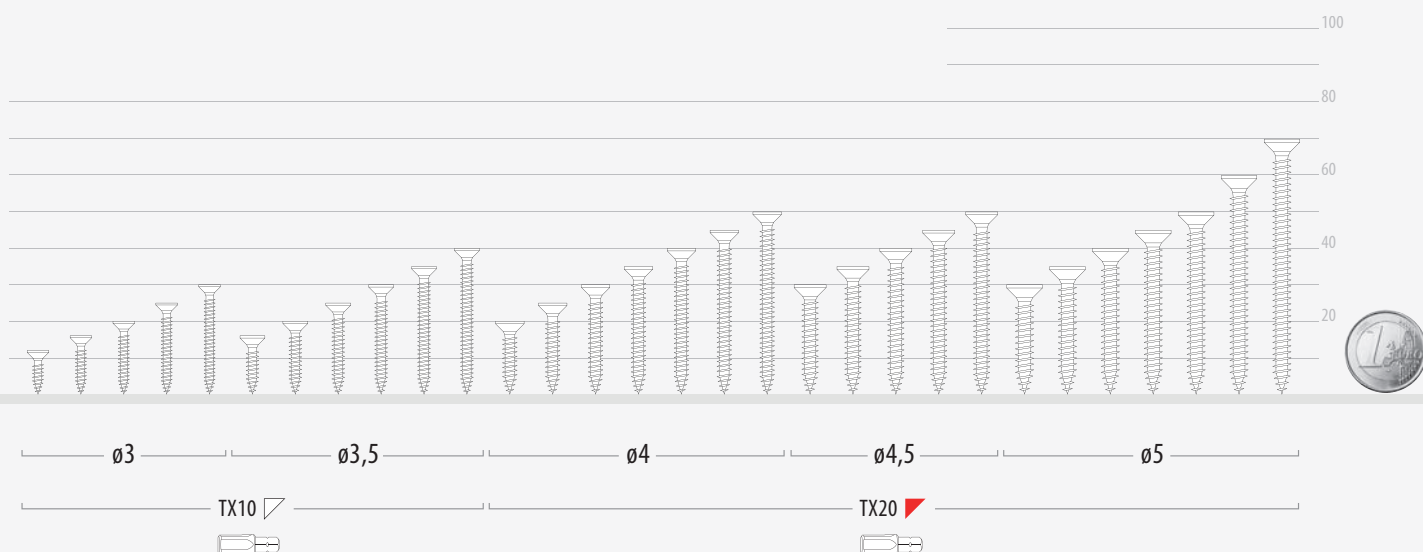
PRECISE COUPLING

The reduced length total thread (85%) and the fine thread are ideal for precise fastening of thin panels

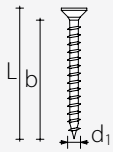


Range

Ideal for usage with single bit, easily exchanged in the bit holder (two TX measures for the entire range) to obtain the utmost precision and ease of screwing. The self-perforating unnotched tip increases the initial grip of the screw. The total thread with smooth under head allows for the closure of the pieces.

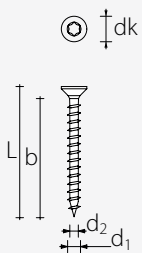


Codes and dimensions



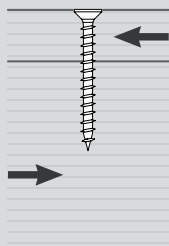
d_1 [mm]	code	L [mm]	b [mm]	pcs/pkg
3 TX10	HTS312	12	10	500
	HTS316	16	13	
	HTS320	20	16	
	HTS325	25	21	
	HTS330	30	26	
3,5 TX10	HTS3516	16	13	500
	HTS3520	20	16	
	HTS3525	25	21	
	HTS3530	30	25	
	HTS3535	35	30	200
	HTS3540	40	34	
4 TX20	HTS420	20	16	500
	HTS425	25	21	
	HTS430	30	25	
	HTS435	35	30	200
	HTS440	40	34	
	HTS445	45	39	
	HTS450	50	43	
4,5 TX20	HTS4530	30	25	200
	HTS4535	35	30	
	HTS4540	40	34	
	HTS4545	45	38	
	HTS4550	50	43	
5 TX20	HTS530	30	25	200
	HTS535	35	30	
	HTS540	40	34	
	HTS545	45	38	
	HTS550	50	43	
	HTS560	60	51	100
	HTS570	70	60	

Geometry



HTS SCREWS						
Nominal diameter	d_1 [mm]	3	3,5	4	4,5	5
Head diameter	d_k [mm]	6,00	7,00	8,00	8,80	9,70
Tip diameter	d_2 [mm]	2,00	2,20	2,50	2,80	3,20
Pre-bored hole diameter	d_v [mm]	2,0	2,0	2,5	3,0	3,0

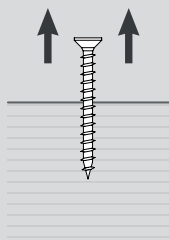
SHEAR V_{adm}



WOOD-WOOD ⁽¹⁾

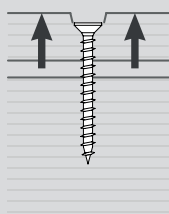
d_1 [mm]	L [mm]	V_{adm}
3	≥ 30	12 kg
3,5	≥ 35	17 kg
4	≥ 40	21 kg
4,5	≥ 45	27 kg
5	≥ 60	40 kg

THREAD WITHDRAWAL N_{adm}



d_1 [mm]	Length L [mm]										
	12	16	20	25	30	35	40	45	50	60	70
3	15 kg	20 kg	24 kg	32 kg	39 kg	-	-	-	-	-	-
3,5	-	23 kg	28 kg	37 kg	44 kg	53 kg	60 kg	-	-	-	-
4	-	-	32 kg	42 kg	50 kg	60 kg	68 kg	78 kg	86 kg	-	-
4,5	-	-	-	-	56 kg	68 kg	77 kg	86 kg	97 kg	-	-
5	-	-	-	-	63 kg	75 kg	85 kg	95 kg	108 kg	128 kg	150 kg

HEAD PENETRATION N_{adm}



d_1 [mm]	N_{adm}
3	14 kg
3,5	20 kg
4	26 kg
4,5	39 kg
5	47 kg

CALCULATION FORMULAS - SHEAR DIN 1052-2:1988

WOOD-WOOD

$$V_{adm} = \min \{ 0,4 \cdot A \cdot d_1 ; 1,7 \cdot d_1^2 \}$$

d_1 [mm]
 A [mm]
 V_{adm} [kg]

NOTE

- Allowable values in accordance with DIN 1052:1988.
- The allowable extraction values are calculated considering the threaded part as being completely inserted into the wood.

⁽¹⁾ The allowable wood-wood shear resistance values were calculated on the basis of a fastenable thickness of L/3.