

# PT-screw

for fastening of thermoplastics

- no inserts needed
- higher pull-out load
- higher safety against over tightening or cracking of the boss.

Due to variable properties of the plastic and hole tolerance in the boss, the tightening torques may vary. It is strongly recommended to test on prototypes or similar parts to determine hole diameter and depth of the boss. PT-screws should be tightened with torque controlled drivers. For safer joints and best assembly practices, ask our technical specialists for assistance.

Production range

	K15	K18	K22	K25	K30	K35	K40	K50	K60	K70	K100
Nominal Ø [mm]	1,50	1,80	2,20	2,50	3,00	3,50	4,00	5,00	6,00	7,00	10,00
Length [mm]											
3 ± 0,6	■										
4 ± 0,6	■	■									
4,5 ± 0,6	■	■	■								
5 ± 0,6	■	■	■	■							
6 ± 0,6	■	■	■	■	■						
7 ± 0,75	■	■	■	■	■	■					
8 ± 0,75	■	■	■	■	■	■	■				
10 ± 0,75	■	■	■	■	■	■	■	■			
12 ± 0,9	■	■	■	■	■	■	■	■	■		
14 ± 0,9	■	■	■	■	■	■	■	■	■	■	
16 ± 0,9	■	■	■	■	■	■	■	■	■	■	■
18 ± 0,9	■	■	■	■	■	■	■	■	■	■	■
20 ± 1,05	■	■	■	■	■	■	■	■	■	■	■
22 ± 1,05	■	■	■	■	■	■	■	■	■	■	■
25 ± 1,05	■	■	■	■	■	■	■	■	■	■	■
30 ± 1,05	■	■	■	■	■	■	■	■	■	■	■
35 ± 1,25	■	■	■	■	■	■	■	■	■	■	■
40 ± 1,25	■	■	■	■	■	■	■	■	■	■	■
50 ± 1,25	■	■	■	■	■	■	■	■	■	■	■
60 ± 1,5	■	■	■	■	■	■	■	■	■	■	■
70 ± 1,5	■	■	■	■	■	■	■	■	■	■	■
80 ± 1,5	■	■	■	■	■	■	■	■	■	■	■
90 ± 1,75	■	■	■	■	■	■	■	■	■	■	■
100 ± 1,75	■	■	■	■	■	■	■	■	■	■	■

--- Upper dash-line: minimal length  
 - - - (WN 1413 and WN 1453 length «l» + 2 mm)

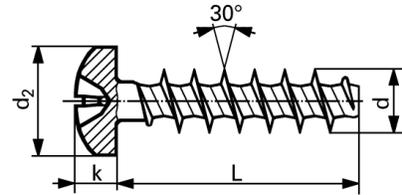
--- Lower dash-line: maximum length

Other lengths for production quantity upon request.

# 10.9

PT oval head screws, type H  
(Phillips)  
steel, case-hardened

WN 1412-A



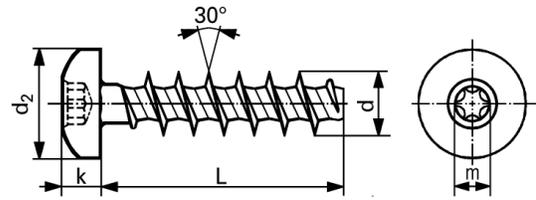
Zinc plated

d	2,2 (K 22)		2,5 (K 25)		3 (K 30)		3,5 (K 35)		
d2	3,9		4,4		5,3		6,1		
k	1,5		1,7		2		2,5		
m	Nr.	1		1		1		2	
L	quantity	1000	10 000	1000	10 000	1000	10 000	1000	10 000
5		7.70	6.30	4.80	4.30				
6		7.70	6.30	4.80	4.30				
8		8.60	7.10	4.90	4.40	4.60	3.45	6.50	
10		9.20	7.70	4.90	4.40	6.30	5.50	6.50	
12		9.70	8.20	6.40	5.60	6.50	5.70	7.60	
14						6.60	5.80	8.70	
16				6.60	5.80	7.20	6.50	8.90	
18						7.20	6.50		
20				12.80	11.50	7.40	6.70	9.50	
25						9.50	8.55		

d	4 (K 40)		5 (K 50)			
D	7		8,8			
k	2,7		3,4			
m	Nr.	2		2		
L	quantity	1000	10 000	1000	10 000	
8		7.70	6.90			
10		7.70	6.90	12.40	11.-	
12		7.90	7.10	12.60	11.10	
14		8.50	7.65	12.70	11.20	
16		9.10	8.20	13.80	12.50	
18				14.10	12.80	
20		9.60	8.80	16.60	14.50	
25		10.60	9.30	17.45	15.65	
30		11.30	10.10	19.40	17.80	
35		13.80	12.40	20.30	18.60	
40		16.90	15.-	25.-	23.50	

# 10.9

PT hexalobular socket pan head screws Torx® plus, steel, case-hardened



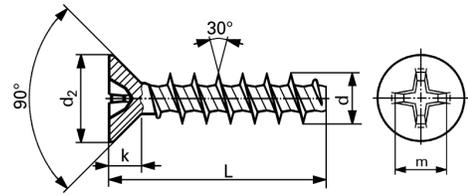
## WN 1452

Zinc plated

d	2,5 (K 25)		3 (K 30)		3,5 (K 35)		4 (K 40)	
d2	4,2		5,6		6,9		7,5	
k	1,6		2,1		2,3		2,6	
m (TX)	T8 (2,4)		T10 (2,8)		T15 (3,35)		T20 (3,95)	
L quantity	1000	10 000	1000	10 000	1000	10 000	1000	10 000
6	5.10	4.60						
8	5.20	4.70	4.90	3.75	5.30	4.80	5.80	5.50
10	6.50	5.90	5.10	4.60	5.40	4.90	6.10	5.80
12	6.50	5.90	5.30	4.80	5.60	5.10	6.20	5.90
16	7.20	6.70	5.70	5.20	6.—	5.40	6.70	6.—
20							7.10	6.40
25					10.80	9.50	9.50	7.90

# 10.9

PT cross recessed flat head screws  
type H (Phillips), steel, case-hardened



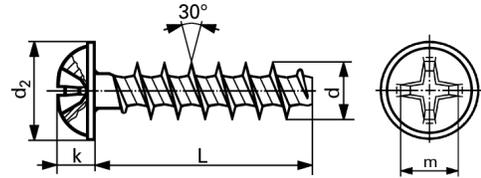
## WN 1413-A

Zinc plated

d	2,5 (K 25)		3 (K 30)		3,5 (K 35)		4 (K 40)	
D	4,7		5,5		7,3		8,4	
driver size 1	1		2		2			
L	quantity		1000	10 000	1000	10 000	1000	10 000
6	5.70	4.50						
8	5.70	4.50	4.70	4.30				
10	5.90	4.70	5.10	4.60	6.30	5.70	8.-	6.60
12	6.70	6.-	7.10	5.80	7.20	6.50	8.10	6.70
14					7.60	6.90	8.70	7.90
16	8.40	7.50	8.40	7.60	8.90	8.-	8.80	8.-
18					11.90	10.70		
20					12.50	11.60	12.40	10.50

# 10.9

PT cross recessed oval head screws with pressed-on washer, type H (Phillips), steel, case-hardened



## WN 1411-A

Zinc plated

d	3 (K 30)		3,5 (K 35)		4 (K 40)		
D	6		7		8		
k	2,1		2,4		2,5		
driver size	1		2		2		
L quantity	1000	10 000	1000	10 000	1000	10 000	
8	5.50	4.30	6.40	5.20	7.80	6.50	
10	5.80	4.50	6.50	5.30	8.-	6.60	
12	6.-	5.40	7.20	6.50	9.30	7.80	
14	6.30	5.70	7.70	6.80	10.20	8.60	
16	7.20	6.50	7.90	7.-	10.70	9.-	
18	7.80	6.90					
20					11.10	9.40	
25					11.70	10.50	
30					12.90	11.60	