

**THERMO-  
PLASTIC  
SCREWS**

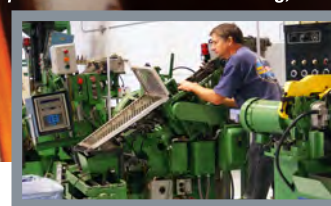
**EISEN**



**TOUGH ENVIRONMENTS  
NEED TOUGH PRODUCTS  
ENGINEERED PLASTICS SCREWS  
PRODUCT LINE**

*Assemblydirect*  
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**73-EAD**



### TP30™

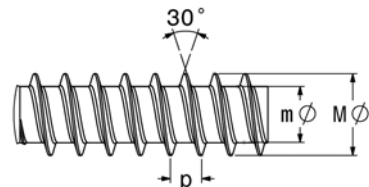
Thread-forming screws deform a lot of plastic when they are driven. This produces a high resistance to back-out but creates large concentration of stresses in the material. For harder plastics, this can result in failure. An effective solution is to use thread-forming screws with 30° thread form. This feature allows the screw to make deeper grooves into the material and capture more of it between the threads, creating an even greater resistance to shear force while reducing stress.



#### Thread Angle

The 30° thread angle allows for best material flow during fastening and deep penetration into the boss to prevent stripping at higher torques. Using this fastener eliminates potential damage to expensive thermoplastic assemblies.

This figure shows thread diameters.



METRIC SIZE mm	THREAD PITCH p	MAJOR MINIMUM M Ø
2.2	0.85	2.2
2.5	0.95	2.5
3.0	1.1	3.0
3.5	1.3	3.5
4.0	1.4	4.0
5.0	1.6	5.0
6.0	2.1	6.0

#### Thread Pitch

The ideal pitch assures high clamp load, and optimal number of threads to prevent loosening under vibration.

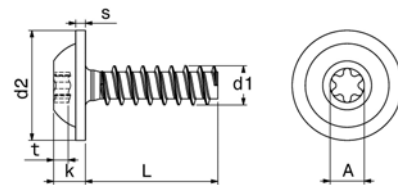
#### Property Class

Fastener property in steel is 280 > HV zinc plated. Stainless Steel products are A2 or Ss304.

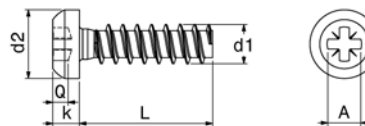
#### Compliance

RoHS and Reach compliant.

Part Number	Material
1583A	STEEL
1584A	STEEL
1585A	STEEL
1586A	STEEL
1587A	STAINLESS A2/SS304
1588A	STAINLESS A2/SS304



1583A	Dimensions in millimeters							
Ø nominal d	22	25	30	35	40	50		
d1 min.	2.2	2.5	3	3.5	4	5		
d2 max.	5.0	5.5	6.5	7.5	9.0	11.0		
k max.	1.6	1.9	2.3	2.7	3.1	3.5		
s (if wshr hd)	0.6	0.7	0.8	0.9	1.0	1.2		
	GLOBE		T6	T8	T10	T15	T20	T25
A-	1.8	2.4	2.8	3.4	3.9	4.5		
PEN. t OR Q	min. 0.65	0.91	1.01	1.07	1.40	1.50		
	max. 0.77	1.04	1.27	1.33	1.75	1.91		



1585A	Dimensions in millimeters						
Ø nominal d	22	25	30	35	40	50	
d1 min.	2.2	2.5	3	3.5	4	5	
d2 max.	4	5	5.6	7	8	9.5	
k max.	1.6	2.1	2.4	2.6	3.1	3.7	
s (if wshr hd)	Pozidriv		1	1	2	2	2
A-	2.3	2.6	2.9	3.9	4.4	4.6	
PEN. t OR Q	min. 1	1.1	1.35	1.45	1.90	2.3	
	max. 1.3	1.5	1.75	1.90	2.35	2.75	



Circuit Breakers



Shrouds



Fans and Blowers



Car Doors



Furniture

#### Optical sorting for assembly automation



## Facilities: Global Reach

- 3 North American Manufacturing Alliance Sites
- 1 Asian Manufacturing Site
- 3 Global Sales Locations
- ▲ 1 Global Technology Center

