

Instantly Pressed
into Place

POLYPRESS FASTENERS

Designed to be pressed into appropriate hole sizes quickly and easily through a single straight line stroke. PolyPress may be used for a broad range of thermoplastics, light metals and steels encompassing a wide variety of densities.

KEBA **POLYPRESS FASTENERS** incorporate a trilobular thread with a 70°-10° semi-buttress thread shape. This combination not only provides an impressive ease of use, but creates an phenomenal pullout resistance. Furthermore, to support the product performance, the threads have been designed in a helical shape, rather than annular, which during insertion allows for displaced air to escape as well as for removal and reinsertion of the fastener if necessary.

POLYPRESS FASTENERS heads are available with a drive system for removal, adjustments and/or final tightening if needed. In applications where adjustments or removal is not required, PolyPress is available without a slot, recess or socket on the head.

FEATURES AND BENEFITS

- Approximately 35% greater torsional torques when compared to round-knurled bolts
- Great vibration resistance and extremely secure against self-unscrewing
- Highly reliable when fitting nuts with PolyPress center collar and PolyPress connecting fasteners
- Assembly time is reduced up to 75% with minimum assembly errors
- Quick application for clinching into plastics, light metals and steels
- Use of more economical operating materials and tools
- Designed to be clinched into either pre-prepared holes or injected as an insert
- High pull-out resistance due to circumferential locking flutes on a triangular shaft design



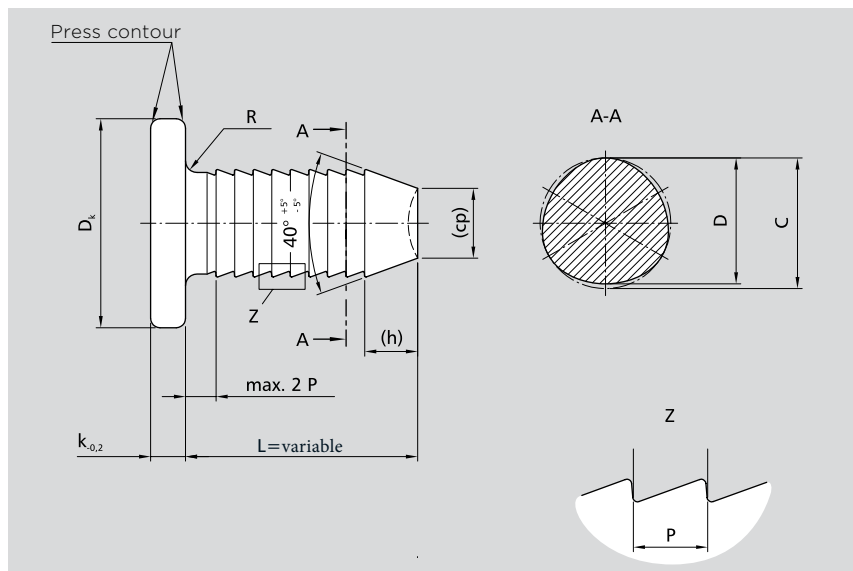
For more information please contact:

phone: Houston 832-871-5481 • Stuttgart 0711 2225 4129 • Istanbul +90 216 418 55 79

sales@kebafasteners.com ■ kebafasteners.com

Reduces assembly times by 75%

- Position of the through hole from the clamping part over the Core hole from the component
- Press the POLYPRESS into the core hole through the through hole
- POLYPRESS head will then rest on the clamping part and fasten it into place



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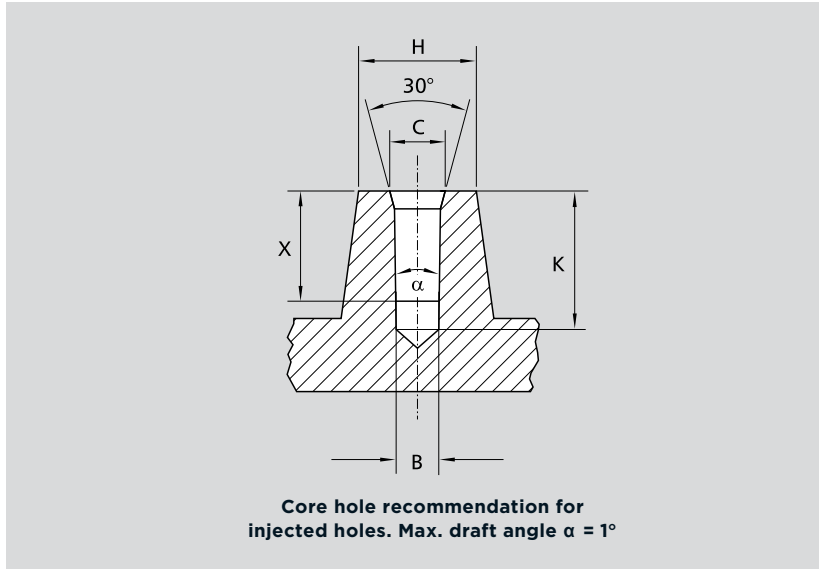
	Ø d	2,3	2,8	3,3	3,7	4,6	5,4	7,4
P		0,5	0,5	0,5	0,6	0,8	0,8	1,0
D ±0,05		2,31	2,77	3,20	3,64	4,63	5,46	7,32
C ±0,05		2,40	2,87	3,32	3,78	4,79	5,66	7,57
k _{-0,2}		0,6	0,7	0,8	1,0	1,5	1,8	2,5
D _k		4,5 _{-0,36}	6 _{-0,36}	7 _{-0,36}	8 _{-0,36}	9 _{-0,36}	12 _{-0,43}	16 _{-0,43}
R ca.		0,25	0,30	0,35	0,40	0,50	0,60	0,80
(cp)		1,3	1,8	2,1	2,4	3,0	3,6	4,8
(h)		1,5	1,4	1,6	1,8	2,3	2,7	3,6

All dimensions in mm.
Further dimensions available upon request.

Length L _{Total}	over to 3 - 6	over to 6 - 10	over to 10 - 18	over to 18 - 30	over to 30 - 50	over to 50 - 80
Tolerance	±0,24	±0,29	±0,35	±0,42	±0,50	±0,95



Installation recommendations for ductile plastics



Core hole diameter recommendations for plastics

$\varnothing d$	$\varnothing C$ [mm]	PA	PA6	PP	ABS	PC-ABS	PC	PE	PPO	PMMA
		Core hole- $\varnothing B$ in mm								
2,3	2,40	2,10	2,10	2,10	2,10	2,20	2,20	2,10	2,20	2,20
2,8	2,90	2,50	2,50	2,50	2,50	2,60	2,60	2,50	2,60	2,60
3,3	3,40	3,00	3,00	3,00	3,00	3,10	3,00	3,00	3,00	3,00
3,7	3,80	3,45	3,50	3,45	3,50	3,50	3,50	3,45	3,50	3,50
4,6	4,80	4,30	4,35	4,20	4,30	4,30	4,40	4,30	4,30	4,40
5,4	5,60	5,00	5,10	5,00	5,10	5,10	5,10	5,00	5,10	5,10
7,4	7,60	7,10	7,20	7,10	7,10	7,10	7,10	7,00	7,10	7,10

Core hole depth $K_{min} = \text{max. press depth } X + 1 \text{ mm}$

Recommendation on defining the POLYPRESS variations

POLYPRESS only with in tempered design (FK 10.9).

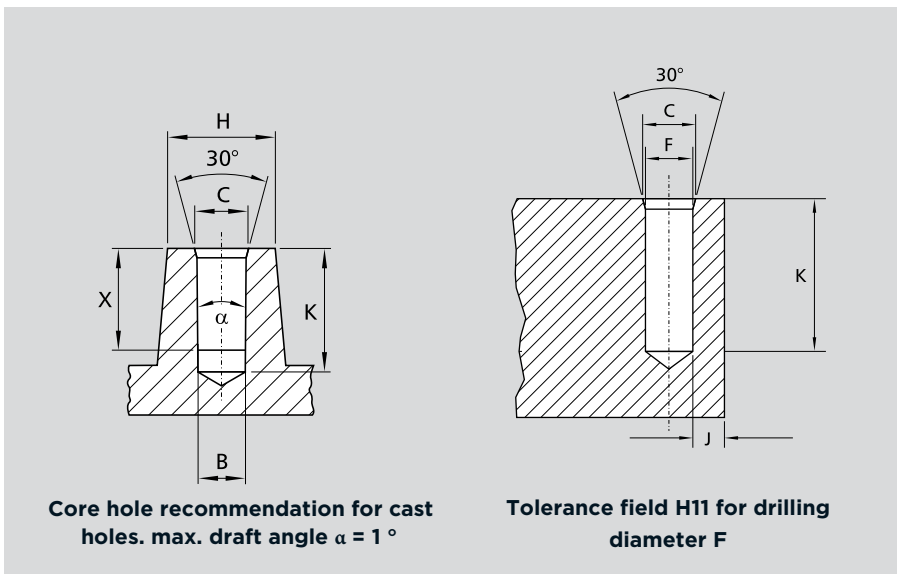
For high tensile stress and low torsional stress:
Recommended press depth X: $2-4 \times \text{nominal } \varnothing d$

For low tensile stress and high torsional stress:
Recommended press depth X: $1,5-2,5 \times \text{nominal } \varnothing d$

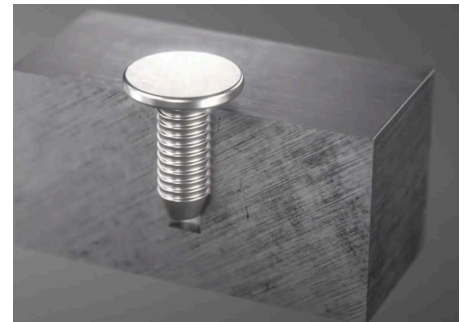




Installation recommendations for ductile Light metals



Core hole diameter recommendations for light metal alloys



$\varnothing d$	$\varnothing C$ [mm]	Cast core hole $\varnothing B$ [mm] at depth X	Core hole drilled $\varnothing F$ [mm]	Min. tube $\varnothing H$ [mm]	Min. edge distance J [mm]
2,8	2,90	2,63	2,65	5,60	1,40
3,3	3,40	3,06	3,10	6,60	1,60
3,7	3,80	3,48	3,50	7,40	1,80
4,6	4,80	4,40	4,40	9,20	2,30
5,4	5,60	5,26	5,30	10,80	2,70
7,4	7,60	7,18	7,20	14,80	3,70

Core hole depth $K_{min} = \text{max. press depth } X + 1 \text{ mm}$

Recommendation on defining the POLYPRESS variations

POLYPRESS only with in tempered design (FK 10.9).

For high tensile stress and high torsional stress:

Recommended press depth X : $1,5-2,5 \times \text{nominal } \varnothing d$

