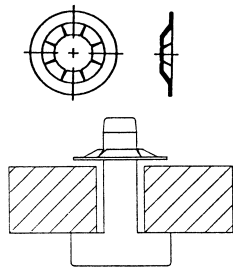


## WIDE RIM SHAFT RETAINERS



Using our progressive die stamping expertise, we are adding this line of popular style stamped push-on retainers.

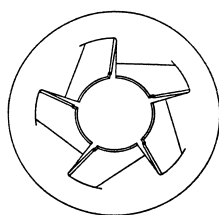
These stamped nuts eliminate costly threading, groove notching, crossthreading and are assembled easily. Designed for unthreaded studs in a variety of materials, these push-on shaft retainers provide a pull-off force typically 10 to 20 times greater than the force needed to push-on and seat them. Typical stud materials are steel, nylon or plastics, zinc die-cast, and brass.

Assembly is completed with a standard nutsetter, magnetic if desired, or a custom designed tool. Used in a variety of applications and industries including toys, lawn and garden automotive (interiors and exteriors), motors and hand tools.

Stud sizes available are 1/8" through 1/2" in phos & oil or zinc plating.

PALNUT#	CREST #	STUD SIZE	O.D.	MATERIAL THICKNESS
PS125306		1/8	3/8	.010
PS125006	P12537-13	1/8	3/8	.013
PD156007	P15643-13	5/32	7/16	.013
PS188307	P18843-10	3/16	7/16	.010
PS188007	P18843-15	3/16	7/16	.014
PS250385		1/4	17/32	.012
PS250085	P25053-17	1/4	17/32	.016
PS312310	P31262-15	5/16	5/8	.014
PS312010	P31262-21	5/16	5/8	.021
PS375312	P37575-17	3/8	3/4	.017
PS375012	P37575-25	3/8	3/4	.026
PS438014		7/16	7/8	.030
PS500016		1/2	1	.035

## PUSH-ON BOLT RETAINERS



To compliment our existing selection of retainers we have expanded our line to include these fasteners, proven to be favorable in a variety of assemblies.

Bolt Retainers are used in temporary or permanent assembly applications to retain screws or bolts in place prior to final assembly of a female thread (nut). Retainers are pushed onto a screw or bolt and are retained in place tightly, designed to resist loosening before a nut is positioned and tightened.

Retainers may be assembled with a standard socket nutsetter, magnetic if desired, or a custom tool may be designed. When in place and assembly completed, the retainer flattens and actually acts as a lockwasher.

Bolt sizes available are #6 through 1/2" and metric M4 through M14 in phos & oil or zinc plating

### INCH

PALNUT#	CREST #	SCREW SIZE	O.D.	MATERIAL THICKNESS
PT138055		#6	11/32	.010
PT164006		#8	3/8	.010
PT164008		#8	1/2	.010
PT190007		#10	7/16	.012
PT250008	PB25050-10	1/4	1/2	.010
PT312010	PB31262-13	5/16	5/8	.013
	PB31262-18	5/16	5/8	.018
PT375125	PB37578-15	3/8	25/32	.015
PT438135		7/16	27/32	.015
PT500015		1/2	15/16	.015
PT562157		9/16	63/64	.015

### METRIC

PALNUT#	CREST #	SCREW SIZE	O.D.	MATERIAL THICKNESS
PT040010	PBM495-10	M4	3/8	.010
PT050011		M5	7/16	.012
PT060013	PBM6129-10	M6	1/2	.010
PT060016	PBM6160-10	M6	5/8	.010
PT630013	PBM63127-10	M6.3	1/2	.010
PT080016		M8	5/8	.013
PT100020		M10	25/32	.015
PT120021	PBM1221-15-1	M12	27/32	.015
PT140025	PBM1425-15	M14	1	.015