

ButtonHead™

HEADED ENDS FOR ANCHORAGE
OF REINFORCING BARS



BarSplice
PRODUCTS INC.
SUBSIDIARY OF FC INDUSTRIES, INC.

HEADED ENDS FOR ANCHORAGE OF REINFORCING BARS

BPI-GRIP BUTTONHEAD™

COLD-SWAGED HEADED ANCHORAGE



BPI-Grip ButtonHeads have the strength capacity to exceed the specified ultimate strength of Grade 60 and Grade 75 bar.

- **5A_b HEAD** – for transmitting bond force from the reinforcing bar to concrete by a combination of head bearing and development length.* A 'standard' head size for most applications.
- **SHOP INSTALLATION** – Attaches directly to the reinforcing bar – no thread cutting required. Shop swaged quickly and efficiently.
- **HIGH STRENGTH** – Connections to bar exceed the specified yield strength of the bar, f_y , for Grades 60 and 75 as required by ACI 318 section 12.6. Confirming in-air tensile tests develop 1.5 f_y , or more, Gr. 60.
- **REPLACES HOOKS – No special bend direction** – alleviates congestion – for beam-column joints, knee joints, pile caps, column roof slab connections; replaces stirrup bars used as confinement steel.
- **KEY ADVANTAGES** – Avoids lengthy hook extensions / complex stress patterns. No heat, welding or hot forging – no special chemistry or rebar grade requirements, no bending or cracking of rebars.

* A_b = area of reinforcement.

BUTTONHEAD Mechanical Anchorage — Dimensions and Data [inch-pound units]

BPI-Grip ButtonHead, 5A _b (Before Swaging)	Rebar Size US [Metric]	Thickness B (in.)	Head Diameter and Weight * 5A _b Series		BPI-Grip ButtonHead, 5A _b (After Swaging)
			D (in.)	Wt (lb.)	
	#4 [13]	7/8	1 3/8	0.31	
	#5 [16]	15/16	1 3/4	0.54	
	#6 [19]	1 1/8	1 15/16	0.71	
	#7 [22]	1 3/8	2 3/8	1.34	
	#8 [25]	1 1/2	2 3/4	2.04	
	#9 [29]	1 5/8	2 7/8	2.35	
	#10 [32]	1 7/8	3 3/8	3.84	
	#11 [36]	2 1/8	3 13/16	5.73	

* Head Cross Sectional Area is approximately 5 x Rebar Area

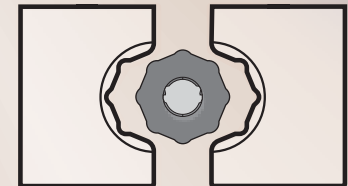
** HOW TO SPECIFY BPI-Grip BUTTONHEAD ANCHORAGES

	By Name:	By Generic Description:
BAR-TO-HEAD	BPI-Grip ButtonHead™ by BarSplice Products, Inc., Dayton OH	Headed Ends for Anchorage shall be the cold-swaged head type, installed by octagonal dies to produce a 5A _b Head size.

** Include bar size(s), bar type and grade. Include statement: "Parts shall be manufactured to the quality requirements of ISO 9001."

BPI-Grip ButtonHead cold-swaged anchorage components are made from high quality seamless steel that meets the chemistry and grade requirements of ASTM A 519 or A 576. Installed performance satisfies ASTM A 970.

Powerful hydraulically actuated presses with color-coded octagonal die sets are utilized in fabricating shops for the most efficient swaging operation. Swaging pressure is factory preset and equipment is automated to release after each swaging 'bite' or pressing. When components have been compressed onto the reinforcing bar by cold-swaging they become mechanically interlocked with the rebar deformation



Cold swaging technology for mechanical anchorage and splicing is one of the most established, developed, and refined connection methods worldwide. Key to cold swaging success is its simplicity, low cost and adaptability. There is no loss of reinforcing bar cross-sectional area at the anchorage location so the system is a natural choice when considering the objectives of seismic design and safety related applications. BPI-Grip swaging equipment is easy to use and may be leased or purchased. Splicing manuals provided with equipment explain step-by-step installation and safety information.

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