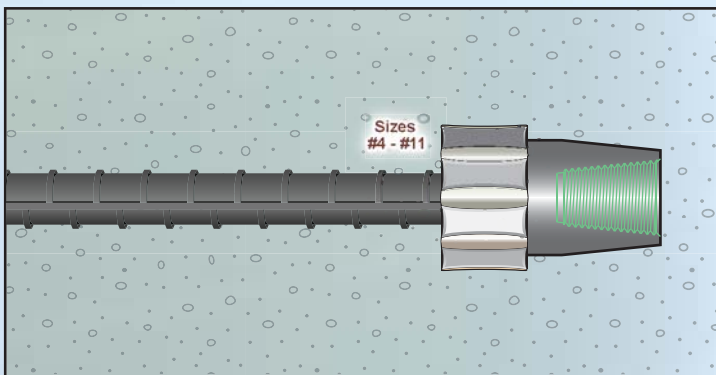


# ButtonHead EXTENDER

HEADED ENDS FOR DEVELOPMENT  
AND EXTENSION OF  
REINFORCING BARS

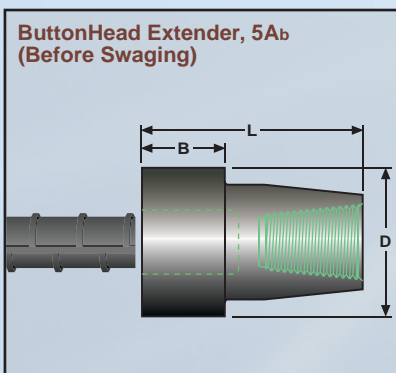


# BPI® BUTTONHEAD EXTENDER MECHANICAL END ANCHORAGE FOR REINFORCING BARS [inch-pound units]

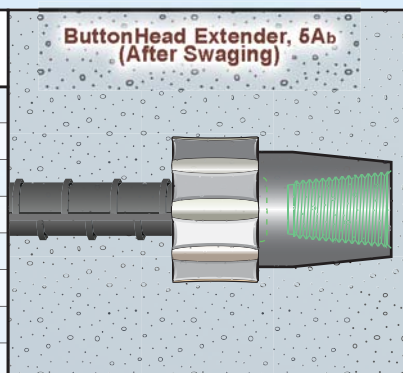


## BPI® BUTTONHEAD EXTENDER, BNE, 5Ab COLD SWAGED HEADED REBAR DEVICE FOR FUTURE EXPANSION

- **DUAL USE** – behaves as a headed reinforcing bar device by itself, **AND OR** as a full mechanical splice when connected to a standard GRIP-TWIST® male coupler.
- **5Ab HEAD** – has the same bearing area as the standard BPI ButtonHead.
- **POSITIVE INTERNAL STOP** – for easy control of rebar insertion before shop-swaging.
- **TAPER THREAD** – for self locating and quick assembly when extending the reinforcing bar into the next phase of construction. Plastic thread protection is included.
- **TYPE 1 STRENGTH** – as a full mechanical splice per ACI 318 Chapter 12, 1.25 x specified yield,  $f_y$ , ASTM A615 or A706 Grade 60.
- **TYPE 2 CAPACITY** – as confirmed by in-air testing to 90,000 psi minimum for uncoated ASTM A615 Grade 60. 80,000 psi minimum for uncoated ASTM A706 Grade 60.



Rebar Size US [Metric]	Swage Length B (in.)	Length L (in.)	Head Diameter and Weight 5Ab* Series		
			#	D (in.)	Wt (lb.)
#4 [13]	7/8	2	#4	1 3/8	0.46
#5 [16]	15/16	2 5/8	#5	1 3/4	0.96
#6 [19]	1 1/4	3 1/16	#6	1 7/8	1.33
#7 [22]	1 3/8	3 1/2	#7	2 3/8	2.34
#8 [25]	1 1/2	4	#8	2 3/4	3.63
#9 [29]	1 3/4	4 3/8	#9	2 7/8	4.30
#10 [32]	1 7/8	5	#10	3 3/8	6.91
#11 [36]	2 1/8	5 11/16	#11	3 13/16	10.7



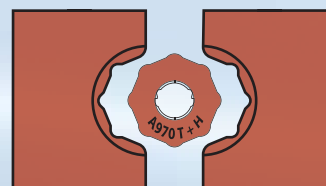
## \*\*\* HOW TO SPECIFY \*\*\* \*\*\* BPI® BUTTONHEAD EXTENDER HEADED DEVICES \*\*\*

	By Name:	By Generic Description:
<b>BAR-TO-HEAD EXTENSION</b>	BPI® ButtonHead Extender by BarSplice Products, Inc., Dayton OH	<i>Headed Ends for reinforcing bars with provision for Future Expansion shall be the cold-swaged head type, installed by octagonal dies to produce a 5Ab Head size.</i>

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

**BPI® ButtonHead Extender cold-swaged devices** are made from high quality steel that meets the chemistry and grade requirements of ASTM A576. Installed performance satisfies the **CLASS A** and **CLASS HA** requirements of ASTM A970-15 and ACI 318-14 Section 20.2.1.6 [ACI 318-11 Section 3.5.9]. Develops the specified tensile strength of uncoated ASTM A615 Grade 60, 75 and 80 reinforcing bar.

**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. Barsplice 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.*

While the information contained in this document is believed to be accurate at the time of publication, BPI reserves the right to make changes, design modifications, corrections and other revisions as it sees fit, without notice. All products described herein are supplied in accordance with BPI's standard Terms and Conditions of Sale. This document is of a promotional nature only. Aspects of structural design, evaluation of product fitness for use, suitability or similar attributes are the responsibility of others.



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