

# ENGINEERING AND MINING TOOLS





## Our superiority

- We has been concentrating on the specialized fields for 50 years.
- The products are of top quality. Standardized and customized products in various grades and types are available.
- We is a state-rank high tech company, having a postdoctoral scientific research workstation.
- Sparing no efforts to develop and seek for new materials to improve product quality and new processing methods to maximize machining practice.



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### ► Column button ( Z type)



The traditional hole-column brazing is to be used as the connection method of column buttons, suitable for work conditions in which the wear of cutting bit body doesn't obviously. This type of carbide buttons applies to hard rocks with high impact.

### ► Cap-shape button ( M type)



The valve-socket silver brazing method can provide cap-shape button effective increasing to brazing strength and shearing force, as well as excellent permeability. The design of wide shoulder provides outstanding wear protection to the body of cutting bit. This type of buttons applies to the condition of middle hard impact.

### ► Mushroom-shape button ( G type)



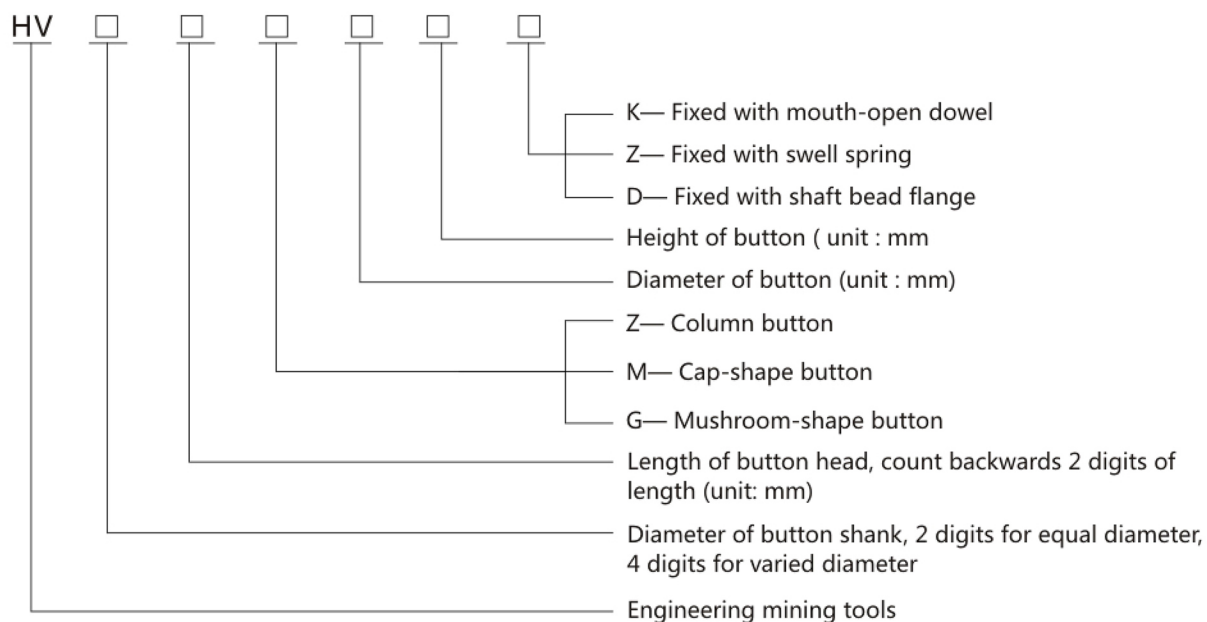
The design of varied radius, combined with characteristics both of Column button and Cap-shape button, will provide effective protection to connection point of brazing, and then suspend wear to steel body. This type of button applies to the condition of serious wear to steel body.



# Rule of type description to mining tools

## Rule of type description to mining tools

Mixed code of Chinese phonetic alphabet and Arabic numerals, type of mining tool is described as below:



Sample No.1 , HV3591Z1622Z means that diameter of shank is 35mm, length of head is 91mm, diameter of brazing is 16mm, height of column button is 22mm, and tool is fixed with swell spring.

Sample No.2 , HV383080M2933D means that diameter of shank is 38x30mm, length of head is 80mm, diameter of brazing is 29mm, height of cap-shape button is 32.5mm, and the tool is fixed with shaft bead flange.



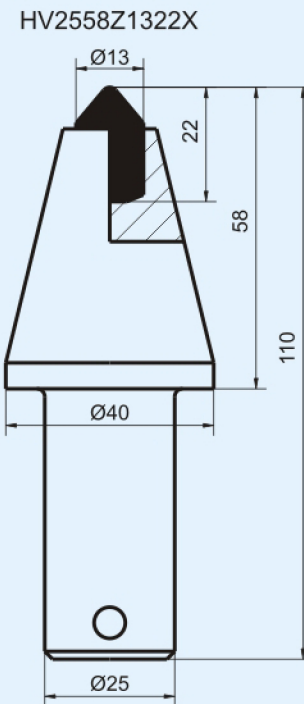
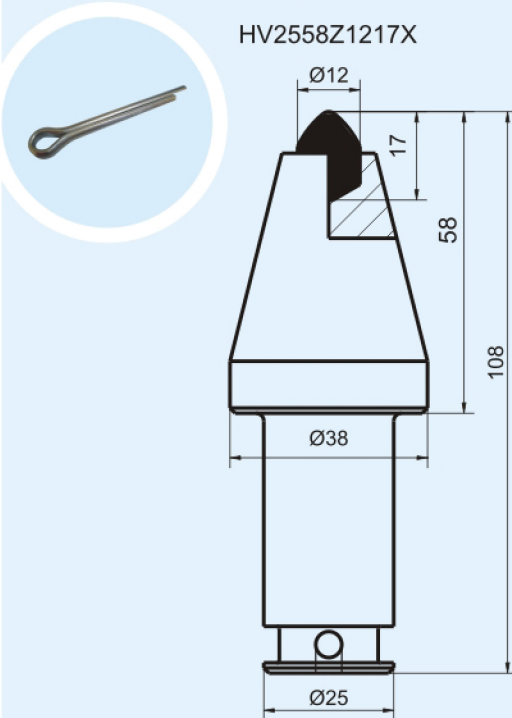


# Selection guidance of mining tools

Type	Cutting condition			Fixing method		Button type		Application	Remark
	Soft	Middle	Hard	Swell spring	Shaft bead flange	Column	Cap-shape		
25mm									
HV2558Z1217X						■			
HV2558Z1322X						■			
30mm									
HV3080Z1322Z	■			■		■		U80 series	
HV3081Z1519Z	■			■		■		U80 series	
HV3081Z1829Z		■		■		■		U80 series	
HV3084M1821Z		■		■			■	U80 series	
HV3084M2423Z			■	■			■	U80 series	
HV3076Z1829Z			■	■		■		U80 series	Drawing and pulling slut
HV3067Z2032D			■			■		S120	
34mm									
HV3475Z2032D			■			■		S100	
35mm									
HV3502Z1622Z				■		■		U90 series	Drawing and pulling slut
HV3502M2024Z	■			■			■	U90 series	
HV3502M2423Z		■		■			■	U90 series	
HV3202M2933Z			■	■			■	U90 series	
HV3591Z1823Z		■		■		■		U90 series	
HV3591Z1829Z		■		■		■		U90 series	
HV3589Z2034Z			■	■		■		U90 series	
HV3589Z2234Z			■	■		■		U90 series	
38mm									
HV3880Z1829D	■					■		U135 series	
HV3880Z2034D		■				■		U135 series	
HV3880Z2235D		■				■		U135 series	
HV3880Z2535D			■			■		U135 series	
HV3880M2933D			■				■	U135 series	
38 × 30mm									
HV383077M2024D	■						■	U47 series	
HV383077M2933D			■				■	U47 series	
HV383076Z1829D	■					■		U47 series	
HV383076Z2235D		■				■		U47 series	
HV383076Z2535D			■			■		U47 series	
43 × 35mm									
HV433514M2423Z	■			■			■	U170 series	Drawing and pulling slut
HV433514M2933Z		■		■			■	U170 series	
HV433514Z1829Z				■		■		U170 series	
HV433514Z2235Z			■	■		■		U170 series	
HV433589Z2535Z			■	■		■		U170 series	

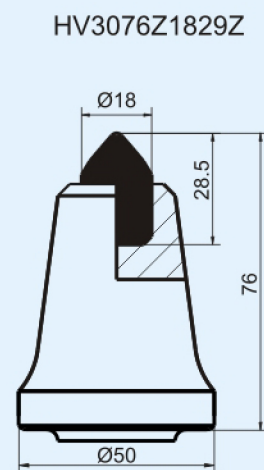
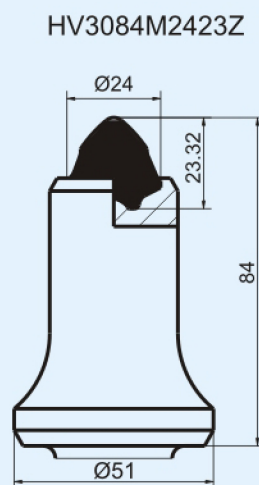
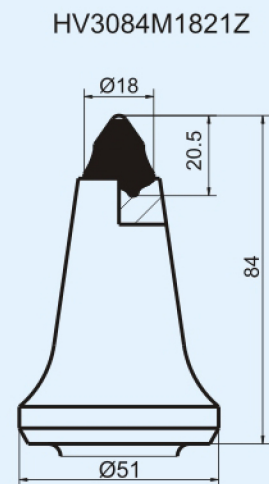
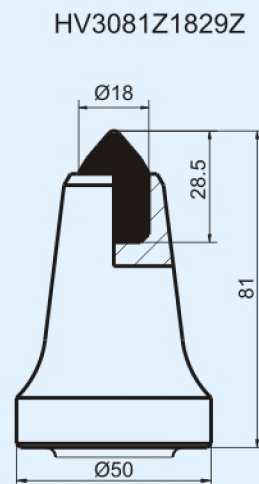
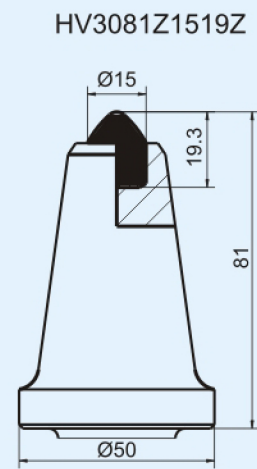
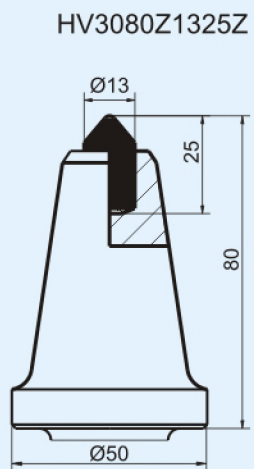
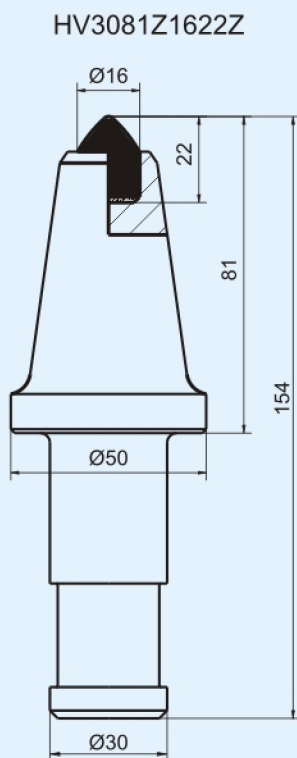
Specific mining tools can be designed and manufactured according to user's requirements.

■ Shank diameter  $\Phi 25\text{mm}$

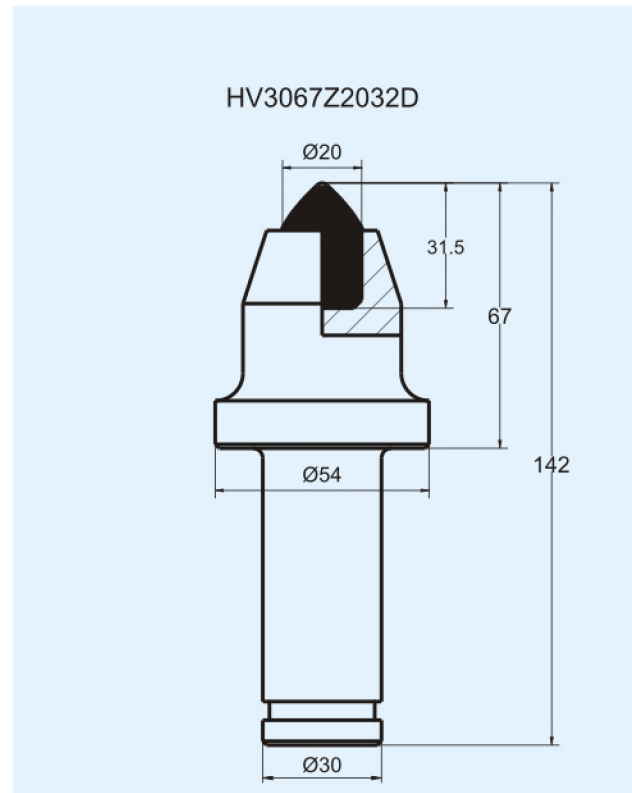
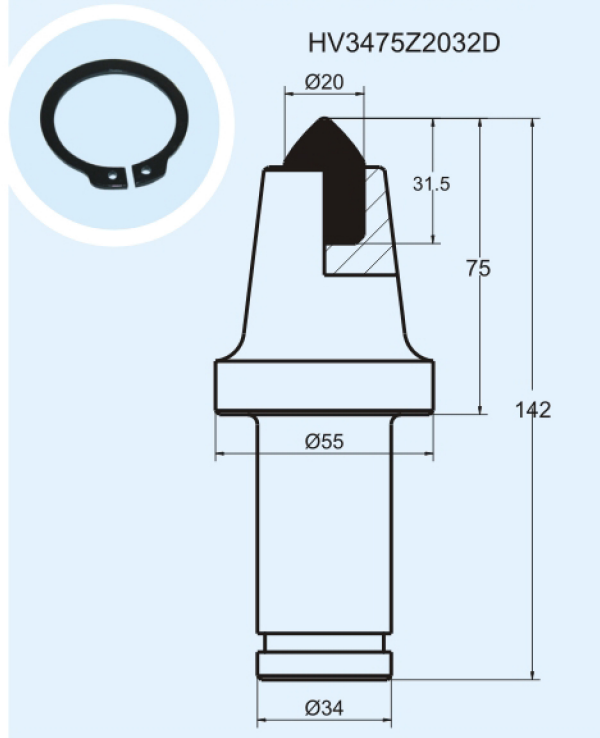




■ Shank diameter  $\Phi 30\text{mm}$



■ Shank diameter  $\Phi 30$ 、 $\Phi 34$ mm

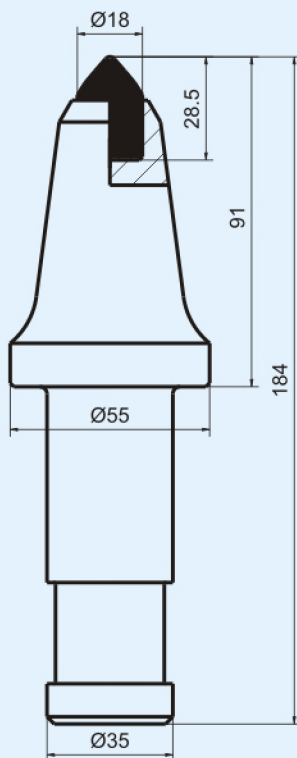




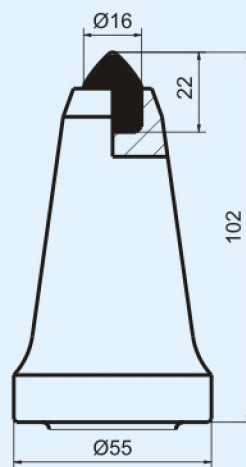
■ Shank diameter  $\Phi 35\text{mm}$



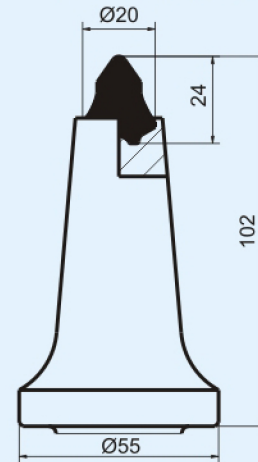
HV3591Z1829Z



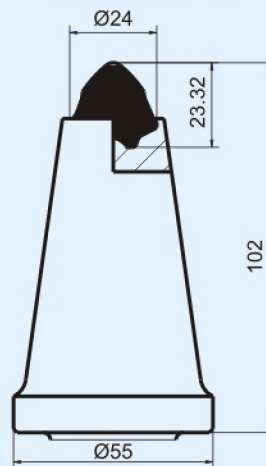
HV3502Z1622Z



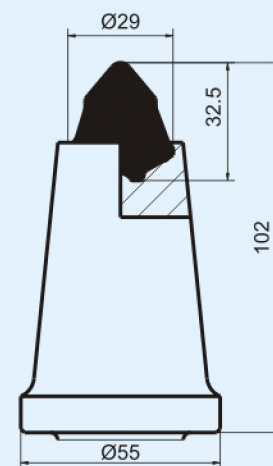
HV3502M2024Z



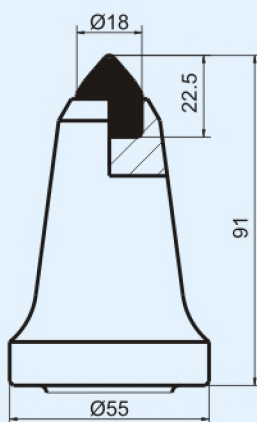
HV3502M2423Z



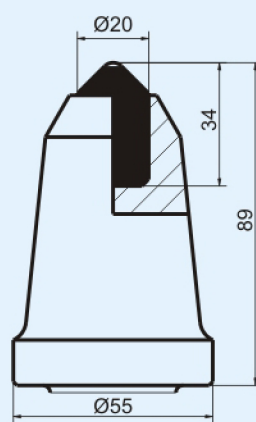
HV3502M2933Z



HV3591Z1823Z



HV3589Z2034Z



HV3589Z2235Z

