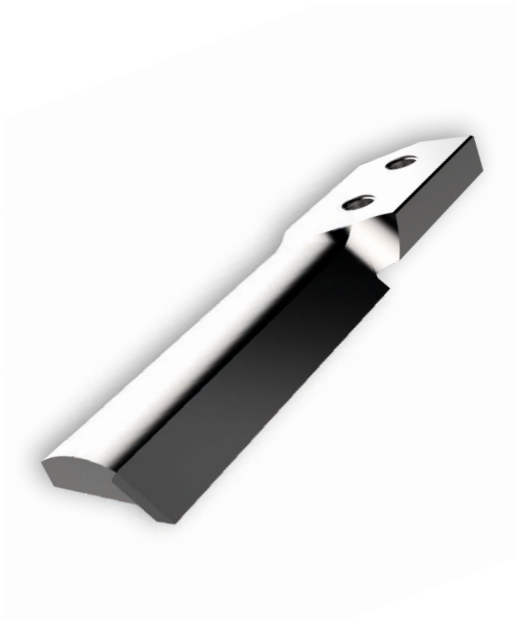
BMS SERIES

BIMETALLIC KNIVES



Resistant and reliable, these knives are adapted to any type of polymer and extruder. The bimetallic knife concept, invented by AMN in 1993, has brought a revolution in underwater cutting. BMS design is a major breakthrough in terms of cost and mechanical properties compared to previous monobloc titanium carbide knives.

BMS 1 DESCRIPTION

BMS 1

- Higly resistant steel body
- Nikro 128 blades: self-sharpening ability for contact cutting
- Nikro 143 blades: high wear resistance for no-contact cutting

BMS 2 DESCRIPTION

BMS 2

- Same advantages as the BMS 1
- Hydrodynamic shape allowing a higher knife tip speed
- Reduction of cavitation damage
- Better pellet cooling

KNIFE	MAXIMUM KNIFE TIP SPEED
BMS1	21 meters / second
BMS2	27 meters / second

BMS KNIVES CHARACTERISTICS

The BMS results from the brazing of a stainless steel body with a titanium carbide (TiC) cutting edge. It offers a high resistance to breakage without being detrimental to flexibility.

- Body material: Z7CNU16.04 = 17.4 PH = AISI 630 = 1.4542
- Body material hardness: 36 - 37 HRC
- Blade material: TiC, 2 grades

TIC GRADE	HARDNESS (HRC)	BASE METAL IN STEEL MATRIX	SELF-SHARPENING ABILITY
N128	61 - 63	Cr	High
N143	62 - 64	Ni	None

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