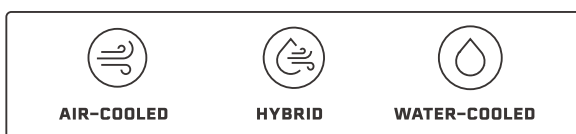


SELECTION GUIDE:

AIR-COOLED VS. HYBRID VS. WATER-COOLED ROBOTIC AND FIXED AUTOMATIC MIG GUNS

WIRE SIZE	AIR-COOLED	HYBRID [AIR + NOZZLE WATER-COOLING]	WATER-COOLED
.030"	~90% of applications will work well with an air-cooled MIG gun	Applications using wire this small will work with an air-cooled gun	A water-cooled gun is not required — use an air-cooled or hybrid gun
.035"			
.040" / 1.0MM			
.045"			
3/64"			
.052"		If weld lengths are short (less than ~18"), an air-cooled gun may be adequate	
1.4MM	If weld lengths are short (less than 6") and the base material is thin (less than 1/4"), an air-cooled gun may be adequate	If weld lengths are short (less than ~18"), an air-cooled gun may be adequate	If weld lengths are short (less than ~18") and the base material is thin (less than 1/4"), an air-cooled or hybrid gun may be adequate
1/16"			
.078"	An air-cooled gun is not adequate — use a hybrid or water-cooled gun		~90% of applications will work well with a water-cooled gun
1.8MM		Fully water-cooled gun is required	
5/64"			
3/32"			

- * THESE GUIDELINES APPLY TO ~90% OF WELDING APPLICATIONS. SOME APPLICATIONS, HOWEVER, HAVE UNUSUAL VARIABLES THAT MIGHT REQUIRE ADDITIONAL COOLING AT LOWER WIRE SIZES. CONSULT WITH YOUR WELDING GUN MANUFACTURER WHEN IN DOUBT
- ** A HYBRID GUN IS DEFINED AS AN AIR-COOLED GUN WITH EXTERNAL WATER LINES TO COOL THE FRONT-END CONSUMABLES
- *** A WATER-COOLED GUN IS DEFINED AS HAVING INTERNAL WATER LINES TO COOL THE GUN



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