

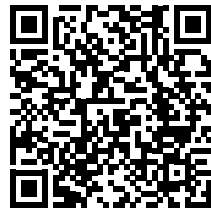
French manufacturer
since 1964

www.gys.fr



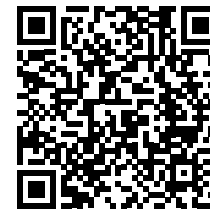
MIG-MAG SYNERGIES

GYS expertise dedicated to welders



NEOPULSE

220 C / 220 C XL



NEOPULSE

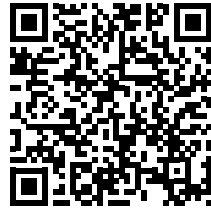
320 C / 400 G / 500 G



		Welding mode		STANDARD DYNAMIC				PULSE			STANDARD IMPACT	
		Wire diameter (mm)		0.6	0.8	1.0	1.2	0.8	1.0	1.2	0.8	1.0
		Synergy code		006	008	010	012	508	510	512	708	710
STEEL	101	Fe Ar 15-20%Co2	M21	✓	✓	✓		✓	✓		✓	✓
	102	Fe Ar 8-10%Co2	M20	✓	✓	✓		✓	✓			
	103	Fe 100%Co2	C1	✓	✓	✓						
	107	Mn4Ni3CrMo Ar 15-20%Co2	M21		✓			✓				
	108	Fe Ar 25%Co2	M21	✓	✓	✓		✓	✓			
ALUMINIUM	201	Al Mg 5 Ar 100%	I1		✓	✓	✓	✓	✓	✓		
	202	Al Mg 3 Ar 100%	I1		✓	✓	✓	✓	✓	✓		
	203	Al Si 5 Ar 100%	I1		✓	✓	✓	✓	✓	✓		
	204	Al Si 12 Ar 100%	I1		✓	✓	✓	✓	✓	✓		
	206	Al Mg 2,7 Mn Ar100%	I1				✓			✓		
	207	Al Si 10 Cu 4 100%	I1				✓			✓		
	208	AlMg 4,5Mn 10-20%He	I3			✓	✓					
	209	AlMg 4,5Mn 100% Ar	I1			✓	✓					
	210	Al Mg 5 Ar 10-20%He	I3			✓	✓					
	211	Al Mg 3 Ar 10-20%He	I3			✓	✓					
STAINLESS STEEL	301	Cr Ni 308 Ar 2%Co2	M12		✓	✓		✓	✓			
	302	Cr Ni 316 Ar 2%Co2	M12		✓	✓		✓	✓			
	303	Cr Ni 307 Ar 2%Co2 1%H	M11			✓			✓			
	304	Cr Ni 309 Ar 2% Co2	M12		✓	✓		✓	✓			
	305	Cr Ni 310 Ar 2%Co2	M12			✓			✓			
	306	Cr Ni 307 Ar 2%Co2	M12			✓			✓			
BRAZING	701	Cu Si 3 Ar 100%	I1		✓	✓		✓	✓			
	702	Cu Al 8 Ar 100%	I1		✓	✓		✓	✓			

		Welding mode		STANDARD DYNAMIC					PULSE				STANDARD IMPACT		
		Wire diameter (mm)		0.8	1.0	1.2	1.6*	2.4*	0.8	1.0	1.2	1.6*	0.8	1.0	1.2
		Synergy code		008	010	012	016	024	508	510	512	516	708	710	712
STEEL	101	Fe Ar 15-20%Co2	M21	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
	102	Fe Ar 8-10%Co2	M20	✓	✓	✓	✓		✓	✓	✓	✓			
	103	Fe 100%Co2	C1	✓	✓	✓	✓								
	104	FCW M Ar 15-20%Co2	M21			✓	✓								
	105	FCW R Ar 15-20%Co2	M21			✓	✓								
	106	FCW B Ar 15-20%Co2	M21			✓	✓								
	108	Fe Ar 25%Co2	M21	✓	✓	✓	✓		✓	✓	✓	✓			
ALUMINIUM	201	Al Mg 5 Ar 100%	I1	✓	✓	✓	✓		✓	✓	✓	✓			
	202	Al Mg 3 Ar 100%	I1	✓	✓	✓	✓		✓	✓	✓	✓			
	203	Al Si 5 Ar 100%	I1	✓	✓	✓	✓		✓	✓	✓	✓			
	206	Al Mg 2,7 Mn Ar100%	I1			✓					✓				
	207	Al Si 10 Cu 4 100%	I1			✓					✓				
	208	AlMg 4,5Mn 10-20%He	I3		✓	✓				✓	✓				
	209	AlMg 4,5Mn 100% Ar	I1		✓	✓				✓	✓				
	210	Al Mg 5 Ar 10-20%He	I3		✓	✓				✓	✓				
	211	Al Mg 3 Ar 10-20%He	I3		✓	✓				✓	✓				
STAINLESS STEEL	301	Cr Ni 308 Ar 2%Co2	M12	✓	✓	✓	✓		✓	✓	✓	✓			
	302	Cr Ni 316 Ar 2%Co2	M12	✓	✓	✓	✓		✓	✓	✓	✓			
	303	Cr Ni 307 Ar 2%Co2 1%H	M11		✓	✓				✓	✓				
	304	Cr Ni 309 Ar 2% Co2	M12	✓	✓	✓			✓	✓	✓				
	305	Cr Ni 310 Ar 2%Co2	M12		✓					✓					
	306	Cr Ni 307 Ar 2%Co2	M12		✓	✓				✓	✓				
BRAZING	701	Cu Si 3 Ar 100%	I1	✓	✓	✓			✓	✓	✓				
	702	Cu Al 8 Ar 100%	I1	✓	✓	✓			✓	✓	✓				
HARDFACING	501	HARDFACE Metal	O			✓	✓	✓							
	502	HARDFACE Basic	O			✓	✓	✓							
	503	HARDFACE Rutil	O			✓	✓	✓							
	504	HARDFACE COBALT Ar	I1			✓					✓				
	505	HARDFACE Cr Co2 2,5%	M12			✓					✓				
	507	FCW 308L ArCo2 2,5%	M12			✓					✓				
	506	HARDFACE Tool Co2 18%	M21			✓					✓				
	508	FCW ROBO Rutil 18%Co2	M21			✓									
	509	FCW 308L Rutil 18%Co2	M21			✓									
	510	FCW NiCr Basic 18%Co2	M21			✓									
	511	HARDFACE 60 HRC	M21			✓					✓				

*1.6 and 2.4 not available for the NEOPULSE 320 C



AUTOPULSE

220-M3 / 320-T3



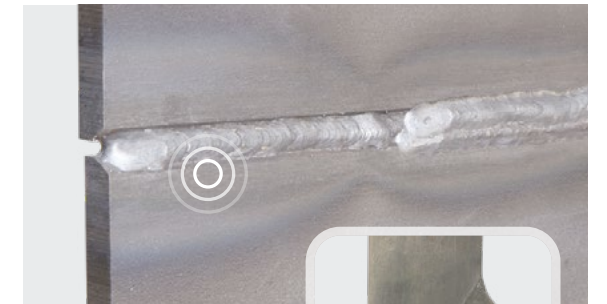
MIG-MAG welding modes

Understand and choose the right welding mode for a perfect weld



1 STANDARD DYNAMIC

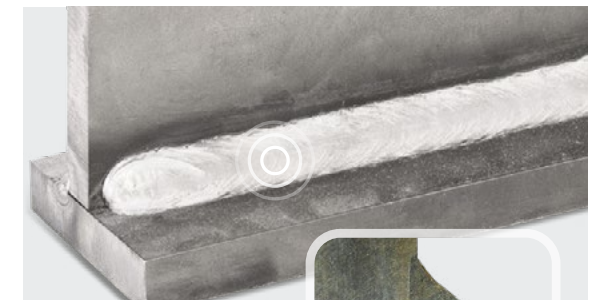
Universal mode, high travel speed,
excellent density



- Controlled short-circuit transfer for an easy weld
- Reduce the globular transfer phase and increase the travel speed
- Good quality bead in all positions
- Ideal for root passes in carbon and stainless steels
- Low spatter
- Excellent arc stability
- Operating range : 0.8mm to 30mm & more

2 STANDARD IMPACT

Focused arc, deep penetration

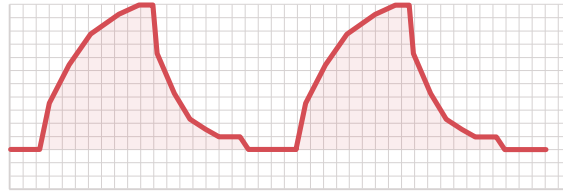


- Ideal for carbon steels
- High level of productivity, very high travel speed
- Good bead control, low spatters, high deposition rate
- Ideal for multi-passes welding jobs
- High heat transfer on the base material for a large and smooth weld pool
- Operating range : 1.5mm to 30mm & more

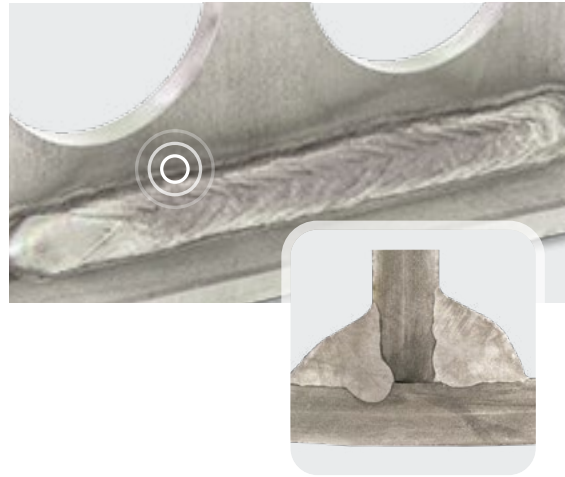
			Welding mode				DYNAMIC STANDARD				PULSE			COLD PULSE	
			Wire diameter (mm)				0.6	0.8	1.0	1.2	0.8	1.0	1.2	0.8	1.0
			Synergy code				006	008	010	012	508	510	512	608	610
STEEL	101	Fe Ar CO2 15-20%	M21	✓	✓	✓					✓	✓			
	102	Fe Ar CO2 8-10%	M20	✓	✓	✓					✓	✓			
	103	Fe Co2 100%	C1	✓	✓	✓									
	107	Mn4Ni2,5CrMo	M21		✓						✓				
	108	Fe Ar 25% Co2	M21	✓	✓	✓					✓	✓			
ALUMINIUM	201	Al Mg 5 Ar 100%	I1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	202	Al Mg 3 Ar 100%	I1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	206	Ford 5554	I1				✓							✓	
	203	Al Si 5 Ar 100%	I1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	204	Al Si 12 100%	I1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	206	Al Mg 2,7 Mn Ar100%	I1				✓							✓	
	207	Al Si 10 Cu 4 100%	I1				✓							✓	
STAINLESS STEEL	301	Cr Ni 308 Ar 2%Co2	M12		✓	✓					✓	✓			
	302	Cr Ni 316 Ar 2%Co2	M12		✓	✓					✓	✓			
BRAZING	701	Cu Si 3 Ar 100%	I1		✓	✓					✓	✓		✓	✓
	702	Cu Al 8 Ar 100%	I1		✓	✓					✓	✓			

3 PULSE

Easy to handle in all positions,
low spatter

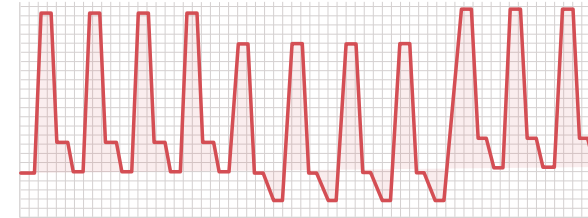


- Good quality bead with minimum post-welding work
- Lower heat input and more focused on the workpiece
- Less distortions
- No weld end crater and no risk of incomplete fusion
- Beads appearance similar to TIG welding with a productivity 5 times higher
- Excellent arc stability
- Operating range : 0.8 mm to 30 mm & more

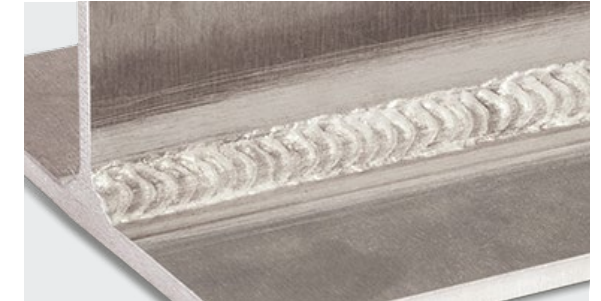


5 MODULARC

TIG bead appearance
MIG productivity



- Optimal weld quality in all positions
- Excellent bead appearance
- Outstanding heat input control
- High productivity on aluminium
- Improved weld pool control to optimise welder confort
- Operating range : 0.8mm to 30mm & more



4 COLD PULSE

Reduced heat input, brazing with
no spatter



- Developed especially for OEM car manufacturers
- Very stable arc, ideal for thin sheets in all positions
- Brazing galvanised sheets with copper-silicon alloy filler metal
- Distortions of the sheets extremely reduced
- Meet car manufacturers requirements & approvals
- Operating range : 0.5mm to 3mm



6 MANUAL

Simple and efficient
Suitable for all welding wires



- Compatible with most of the welding applications
- Manual adjustment of the voltage/wire feed speed and self if needed
- Ideal for carbon steel welding
- Convenient for experienced welders and when following a WPS
- Operating range : 1mm to 30mm

