

STATE-OF-THE-ART METAL POWDER PRODUCTION.

Our state of the art metal powder facility delivers highly spherical metal powders resulting in excellent flow and packing characteristics essential for metal Additive Manufacturing, PM-HIP and near net shape production.

- Metal powder production, characterisation and application optimisation
- Vacuum inert gas atomisation in argon of steel, nickel and cobalt alloys deploying anti-satellite technology
- Plasma atomised titanium and aluminium alloys complete our powder portfolio
- Customisation options including powder size distribution and chemistry adjustment
- Next generation alloy development

²⁶
Fe

²⁸
Ni

²⁷
Co

¹³
Al

²²
Ti



LIBERTY
POWDER METALS

LIBERTYPM AMPLUS+ OPTIMISED FOR ADDITIVE MANUFACTURING

Our range of powder metals for additive manufacturing are optimised for powder bed fusion, direct energy deposition and electron beam melting technologies. Deploying advanced processes including anti-satellite technology, LIBERTYPM AMPLUS+ powders deliver excellent flowability and spreadability.

Group	Alloy	Product Code	PSD μm	Technology	Group	Alloy	Product Code	PSD μm	Technology		
26 Fe	M300	LIBERTYPM AMPLUS+ M300 A	15-45	PBF	28 Ni	ALLOY X	LIBERTYPM AMPLUS+ Ay-X A	15-45	PBF		
		LIBERTYPM AMPLUS+ M300 B	20-53	PBF			LIBERTYPM AMPLUS+ Ay-X B	20-53	PBF		
		LIBERTYPM AMPLUS+ M300 D	45-150	DED			LIBERTYPM AMPLUS+ Ay-X D	45-150	DED		
		LIBERTYPM AMPLUS+ M300 E	45-106	EBM			LIBERTYPM AMPLUS+ Ay-X E	45-106	EBM		
		LIBERTYPM HIPPLUS+ M300 H	-150	HIP			LIBERTYPM HIPPLUS+ Ay-X H	-150	HIP		
		LIBERTYPM HIPPLUS+ M300 J	-300	HIP			LIBERTYPM HIPPLUS+ Ay-X J	-300	HIP		
		LIBERTYPM HIPPLUS+ M300 K	-500	HIP			LIBERTYPM HIPPLUS+ Ay-X K	-500	HIP		
	H13	LIBERTYPM AMPLUS+ H13 A	15-45	PBF		IN718	LIBERTYPM HIPPLUS+ IN718 H	-150	HIP		
		LIBERTYPM AMPLUS+ H13 B	20-53	PBF			LIBERTYPM HIPPLUS+ IN718 J	-300	HIP		
		LIBERTYPM AMPLUS+ H13 D	45-150	DED			LIBERTYPM HIPPLUS+ IN718 K	-500	HIP		
		LIBERTYPM AMPLUS+ H13 E	45-106	EBM			IN625	LIBERTYPM HIPPLUS+ IN625 H	-150	HIP	
		LIBERTYPM HIPPLUS+ H13 H	-150	HIP				LIBERTYPM HIPPLUS+ IN625 J	-300	HIP	
		LIBERTYPM HIPPLUS+ H13 J	-300	HIP				LIBERTYPM HIPPLUS+ IN625 K	-500	HIP	
		15-5PH	LIBERTYPM AMPLUS+ 155PH A	15-45		PBF	27 Co	CoCr (F75)	LIBERTYPM AMPLUS+ COCR A	15-45	PBF
	LIBERTYPM AMPLUS+ 155PH B		20-53	PBF	LIBERTYPM AMPLUS+ COCR B	20-53			PBF		
	LIBERTYPM AMPLUS+ 155PH D		45-150	DED	LIBERTYPM AMPLUS+ COCR D	45-150			DED		
	LIBERTYPM AMPLUS+ 155PH E		45-106	EBM	LIBERTYPM AMPLUS+ COCR E	45-106			EBM		
	LIBERTYPM HIPPLUS+ 155PH H		-150	HIP	LIBERTYPM HIPPLUS+ COCR H	-150			HIP		
	LIBERTYPM HIPPLUS+ 155PH J		-300	HIP	LIBERTYPM HIPPLUS+ COCR J	-300			HIP		
	LIBERTYPM HIPPLUS+ 155PH K		-500	HIP	LIBERTYPM HIPPLUS+ COCR K	-500			HIP		
	17-4PH	LIBERTYPM AMPLUS+ 174PH A	15-45	PBF	13 Al	AlSi10Mg			LIBERTYPM AMPLUS+ ALSI10MG AB	20-63	PBF
		LIBERTYPM AMPLUS+ 174PH B	20-53	PBF					LIBERTYPM AMPLUS+ ALSI10MG D	45-150	DED
		LIBERTYPM AMPLUS+ 174PH D	45-150	DED		AlSi7Mg			LIBERTYPM AMPLUS+ ALSI7MG AB	20-63	PBF
		LIBERTYPM AMPLUS+ 174PH E	45-106	EBM			LIBERTYPM AMPLUS+ ALSI7MG D	45-150	DED		
		316L	LIBERTYPM HIPPLUS+ 174PH H	-150	HIP	22 Ti	Ti64 Gd23	LIBERTYPM AMPLUS+ T164G23 A	15-45	PBF	
			LIBERTYPM HIPPLUS+ 174PH J	-300	HIP			LIBERTYPM AMPLUS+ T164G23 B	20-53	PBF	
			LIBERTYPM HIPPLUS+ 174PH K	-500	HIP			LIBERTYPM AMPLUS+ T164G23 D	45-150	DED	
	316L		LIBERTYPM AMPLUS+ 316L A	15-45	PBF			LIBERTYPM AMPLUS+ T164G23 E	45-106	EBM	
			LIBERTYPM AMPLUS+ 316L B	20-53	PBF		Ti64 Gd5	LIBERTYPM AMPLUS+ T164G5 A	15-45	PBF	
			LIBERTYPM AMPLUS+ 316L D	45-150	DED			LIBERTYPM AMPLUS+ T164G5 B	20-53	PBF	
		LIBERTYPM AMPLUS+ 316L E	45-106	EBM	LIBERTYPM AMPLUS+ T164G5 D			45-150	DED		
	LIBERTYPM HIPPLUS+ 316L H	-150	HIP	LIBERTYPM AMPLUS+ T164G5 E	45-106			EBM			
	IN718	LIBERTYPM HIPPLUS+ 316L J	-300	HIP	Ti Gd 1		LIBERTYPM AMPLUS+ CPTIG1 A	15-45	PBF		
		LIBERTYPM HIPPLUS+ 316L K	-500	HIP			LIBERTYPM AMPLUS+ CPTIG1 B	20-53	PBF		
		LIBERTYPM AMPLUS+ IN718 A	15-45	PBF		LIBERTYPM AMPLUS+ CPTIG1 D	45-150	DED			
		LIBERTYPM AMPLUS+ IN718 B	20-53	PBF		LIBERTYPM AMPLUS+ CPTIG1 E	45-106	EBM			
LIBERTYPM AMPLUS+ IN718 D		45-150	DED	Ti Gd 2		LIBERTYPM AMPLUS+ CPTIG2 A	15-45	PBF			
LIBERTYPM AMPLUS+ IN718 E	45-106	EBM	LIBERTYPM AMPLUS+ CPTIG2 B		20-53	PBF					
LIBERTYPM AMPLUS+ IN625 A	15-45	PBF	LIBERTYPM AMPLUS+ CPTIG2 D		45-150	DED					
LIBERTYPM AMPLUS+ IN625 B	20-53	PBF	LIBERTYPM AMPLUS+ CPTIG2 E		45-106	EBM					
LIBERTYPM AMPLUS+ IN625 D	45-150	DED									
IN625	LIBERTYPM AMPLUS+ IN625 E	45-106	EBM								

LIBERTYPM HIPPLUS+

Optimised For PM-HIP

LIBERTYPM AMPLUS+

Optimised For Additive Manufacturing

LIBERTYPM CUSTOMPLUS+

Next Generation Alloy Development

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