







Additive manufacturing series

Machine(s)	HYBRID technology	Heat	Head/torch	Material hopper
INTEGREX i-200S AM i-300S AM i-400S AM 		DDL • 600 W	Fixed head • 1.5 mm (0.06") spot head	Tank capacity • 1.1 L (6.7 in ³) • 5.0 L (305 in ³) Powder release capacity • Narrow (2.0 × 0.3) • Medium (3.5 × 0.3) • Wide (5.0 × 0.6) Heater • With heater • Without heater
		Fiber laser • 1.0 kW • 2.0 kW • 4.0 kW • 6.0 kW	Fixed head (AHC) • 1.0 mm (0.04") spot head • 3.0 mm (0.12") spot head • 6.0 mm (0.24") spot head	
VARIAxis J-600/5X AM 		DDL • 600 W	Fixed head • 1.5 mm (0.06") spot head	Tank capacity • 1.1 L (6.7 in ³) • 5.0 L (305 in ³) Powder release capacity • Narrow (2.0 × 0.3) • Medium (3.5 × 0.3) • Wide (5.0 × 0.6) Heater • With heater • Without heater
		Fiber laser • 1.0 kW • 2.0 kW	Fixed head • 1.0 mm (0.04") spot head • 3.0 mm (0.12") spot head	
		Electric arc • 300 A	Roll type (wire diameter) • 1.0 mm (0.04") wire • 1.2 mm (0.05") wire	

Powder feeder, material hopper



Material Hopper

Stores metal powder and used with powder feeder. Different capacities are available.

Heater

Used with hopper to eliminate humidity in metal powder to ensure metal deposition performance.

Heater shown is installed on hopper



Standard Machine Specifications

		INTEGREX i-200S AM 1000U	INTEGREX i-200S AM 1500U	INTEGREX i-300S AM 1500U	INTEGREX i-400S AM 1500U
Capacity	Max swing	ø658 mm (ø25.9")			
	Max. machining diameter (upper turret)	ø658 mm (ø25.9")			
	Max. machining length**	1011 mm (39.8")		1519 mm (59.8")	
Travel	X1-axis travel	615 mm (24.21")			
	Z1-axis travel	1077 mm (42.4")		1585 mm (62.4")	
	Y1-axis travel	260 mm (10.24")			
	B1-axis indexing range	-30° ~ 210°			
	X2-axis travel	730 mm (28.74")			
	Z2-axis travel	914 mm (35.98")		1423 mm (56.02")	
	Y2-axis travel	260 mm (10.24")			
	B2-axis indexing range	0° ~ 180°			
Main spindle	Main spindle speed**	5000 min ⁻¹ (rpm)		4000 min ⁻¹ (rpm)	3300 min ⁻¹ (rpm)
	Min. indexing increment	0.0001°			
Second spindle	Second spindle speed**	5000 min ⁻¹ (rpm)		4000 min ⁻¹ (rpm)	
	Second spindle travel (W-axis)	1066 mm (41.97")		1574 mm (61.97")	
	Min. indexing increment	0.0001°			
Milling spindle	Milling spindle type	Spindle turret with ATC			
	Milling spindle speed	12000 min ⁻¹ (rpm)			
	Min. indexing increment	0.0001°			
Automatic tool changer	Tool storage capacity	36			
Motors	Spindle motor (30-min. rating - 40% ED/cont. rating)	22 kW (30 HP)/15 kW (20 HP)		30 kW (40 HP)/22 kW (30 HP)	
	Second spindle motor (30-min. rating - 40% ED/cont. rating)	18.5 kW (25 HP)/15 kW (20 HP)		26 kW (35 HP)/22 kW (30 HP)	
	Milling spindle motor (30-min. rating - 40% ED/cont. rating)	22 kW (30 HP)/15 kW (20 HP)			

** Depends on chuck specifications

		VARIAxis J-600/5X AM
Travel	X-axis travel (spindle head left/right)	850 mm (33.46")
	Y-axis travel (spindle head back/forth)	550 mm (21.65")
	Z-axis travel (spindle head up/down)	510 mm (20.08")
	B-axis travel (table tilt)	-120 ~ +90°
	C-axis travel (table rotation)	360°
Table	Table size	ø600 mm × 500 mm (ø23.62" × 19.69")
	Max. workpiece size	ø730 mm × 450 mm ¹ (ø28.74" × 17.72")
	Table load capacity (evenly distributed)	500 kg (1102 lbs)
	Table surface configuration	M16 × P2 (5/8-11 UNC) tap 24
Spindle	Speed	12000 rpm
	Spindle taper	CAT No. 40
Automatic tool changer	Tool storage capacity	18

** Requires 80 mm (3.15") chamfer on top edge of workpiece