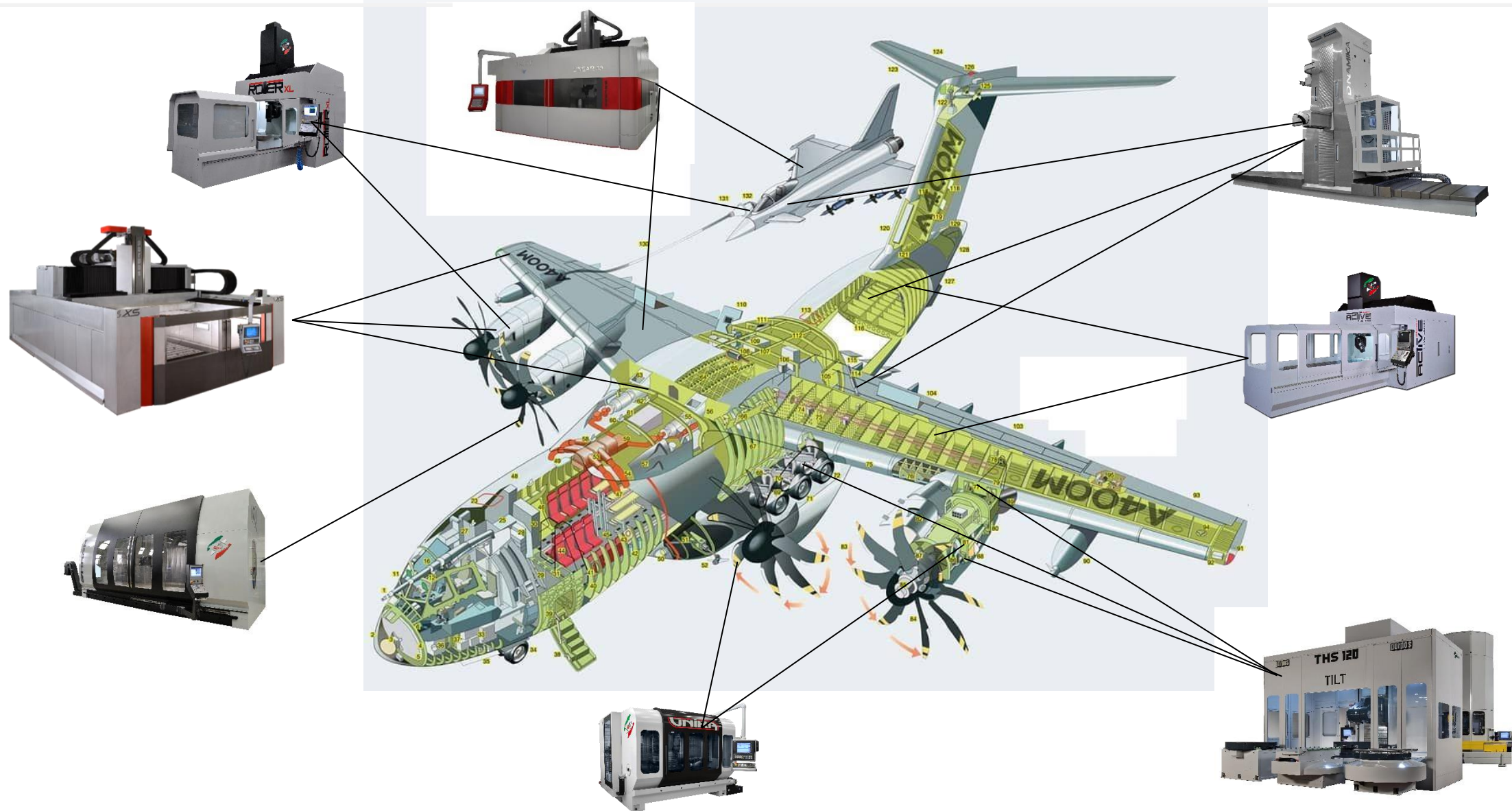




 GRUPPO[®]
parpas

AERO APPLICATIONS



PROPELLER NACELLE

MACHINE

**XS
SHARK
UNIKA**



MATERIALS

**ALUMINUM
COMPOSITE
TITANIUM**



WINGS

MACHINE

**AERO
XS
SPEEDLINER**



MATERIALS

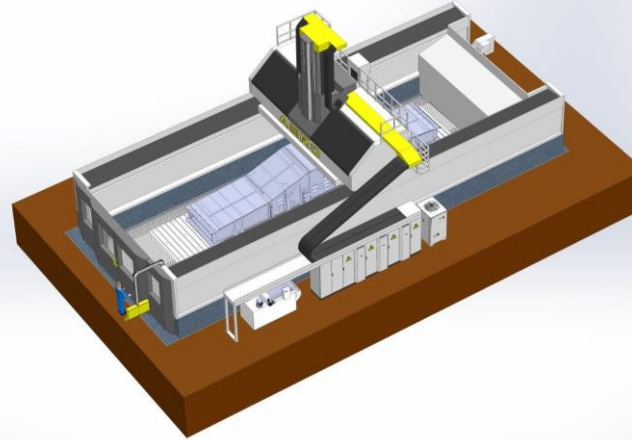
**ALUMINUM
COMPOSITE**



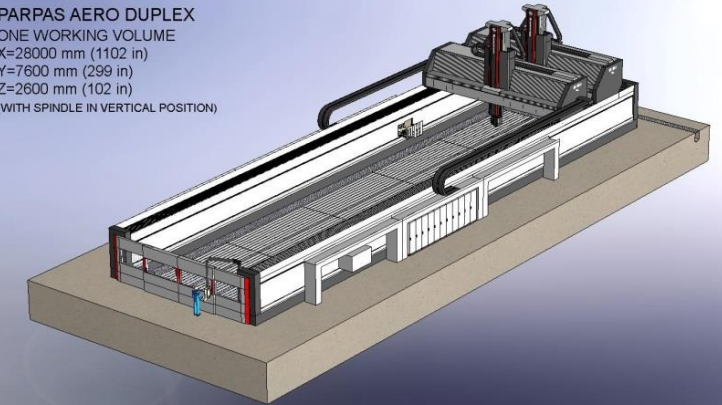
WINGS

MACHINE

**AERO
XS
SPEEDLINER**



PARPAS AERO DUPLEX
ONE WORKING VOLUME
X=28000 mm (1102 in)
Y=7600 mm (299 in)
Z=2600 mm (102 in)
(WITH SPINDLE IN VERTICAL POSITION)



MATERIALS

**ALUMINUM
COMPOSITE**



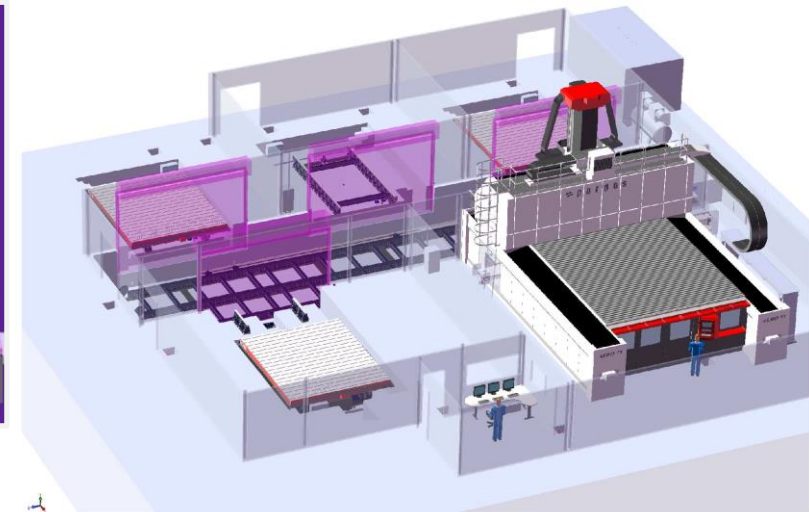
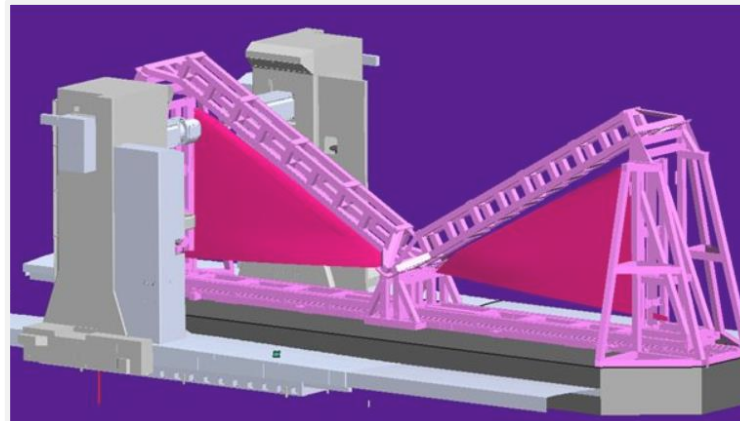
WINGS-TAIL

MACHINE

AERO
XS
SPEEDLINER
ELECTRA
DINAMIKA

MATERIALS

ALUMINUM
COMPOSITE
TITANIUM



SKINS

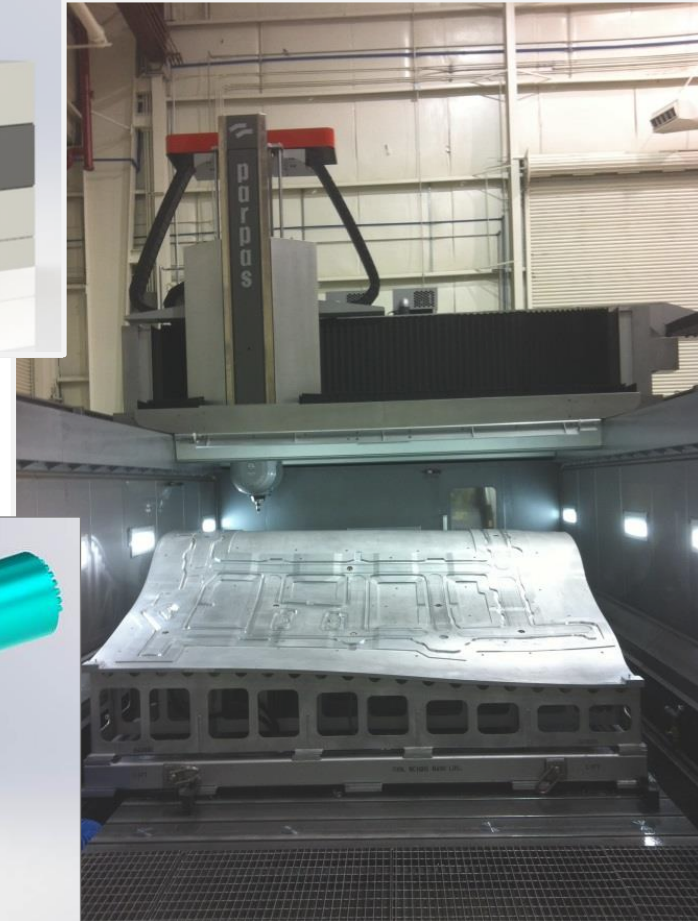
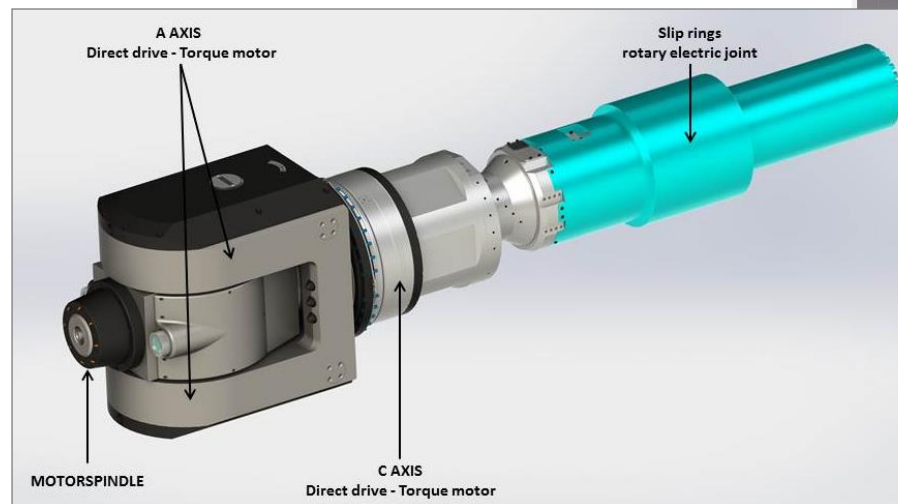
MACHINE

AERO
XS
SPEEDLINER
DIAMOND 30



MATERIALS

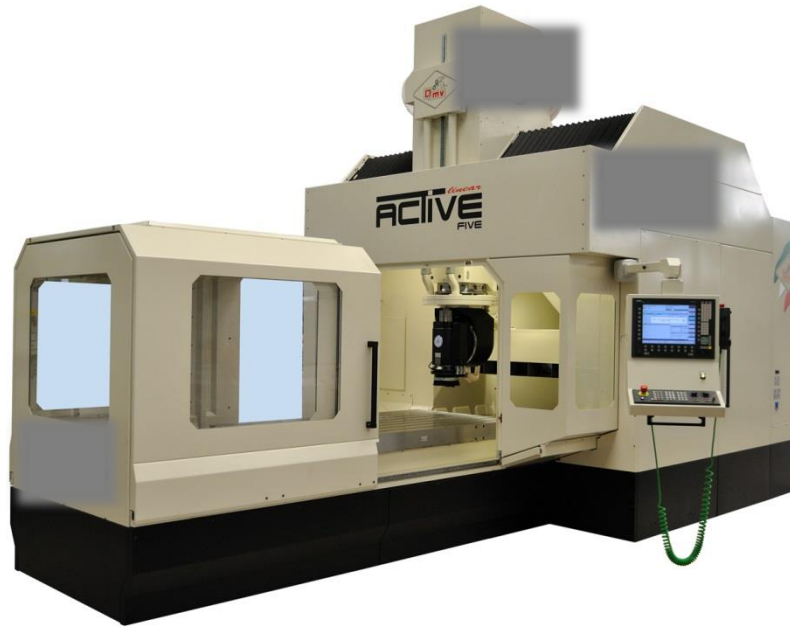
ALUMINUM
COMPOSITE



SKINS

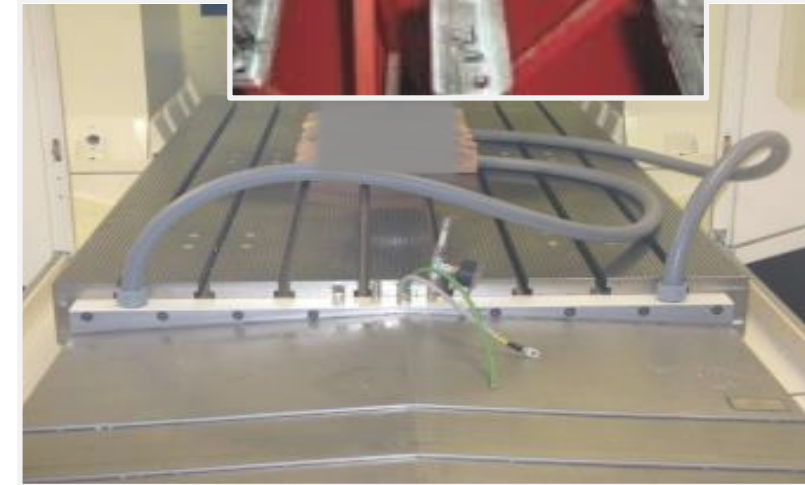
MACHINE

AERO
XS
SPEEDLINER
ACTIVE
ACTIVE MEGA



MATERIALS

ALUMINUM
COMPOSITE



FUSELAGES

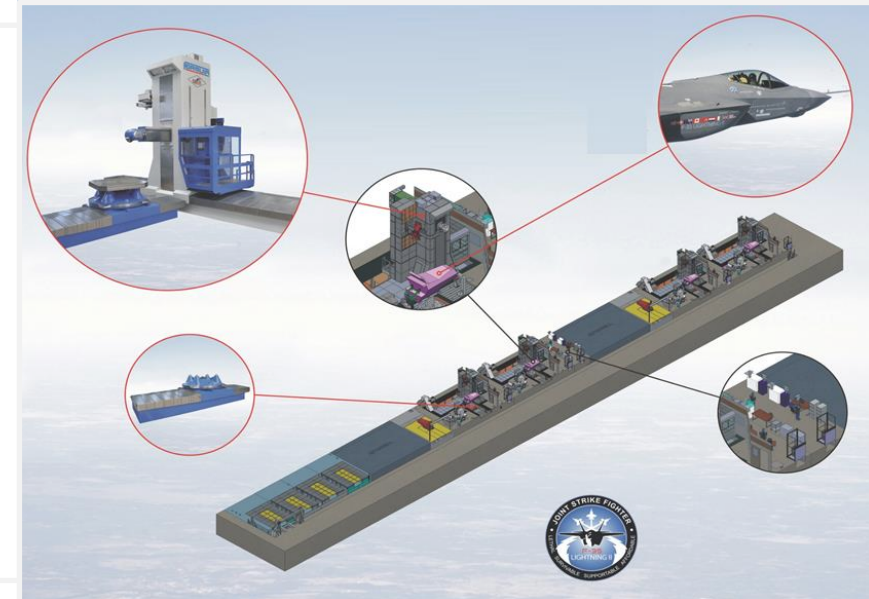
MACHINE

ELECTRA
DINAMIKA



MATERIALS

ALUMINUM
COMPOSITE
TITANIUM



FUSELAGES

MACHINE

XS

DIAMOND 30

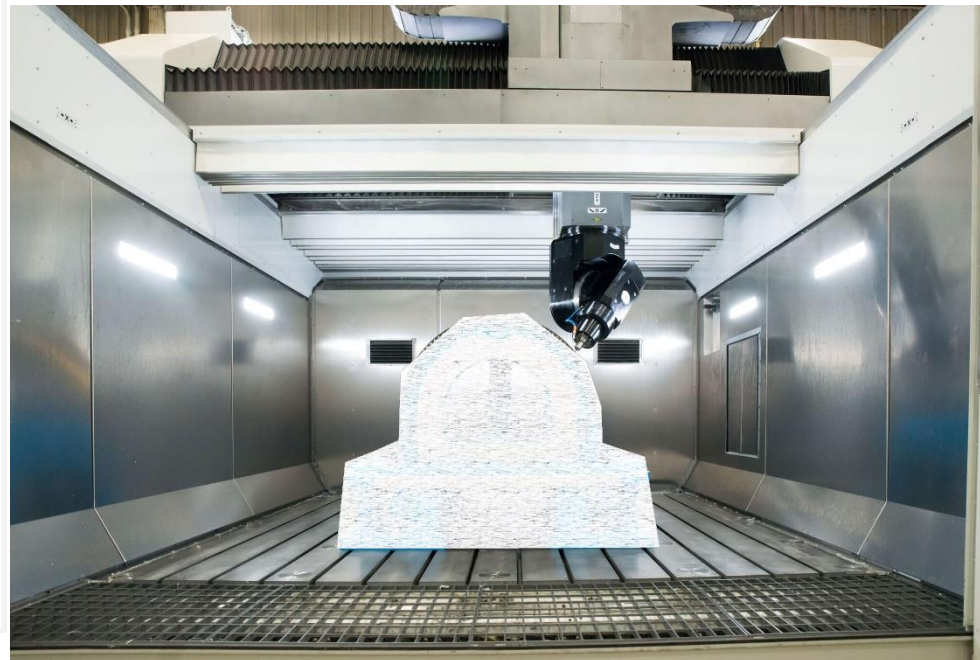


MATERIALS

ALUMINUM

COMPOSITE

TITANIUM



SPAR, RIBS, BEAMS

MACHINE

XS

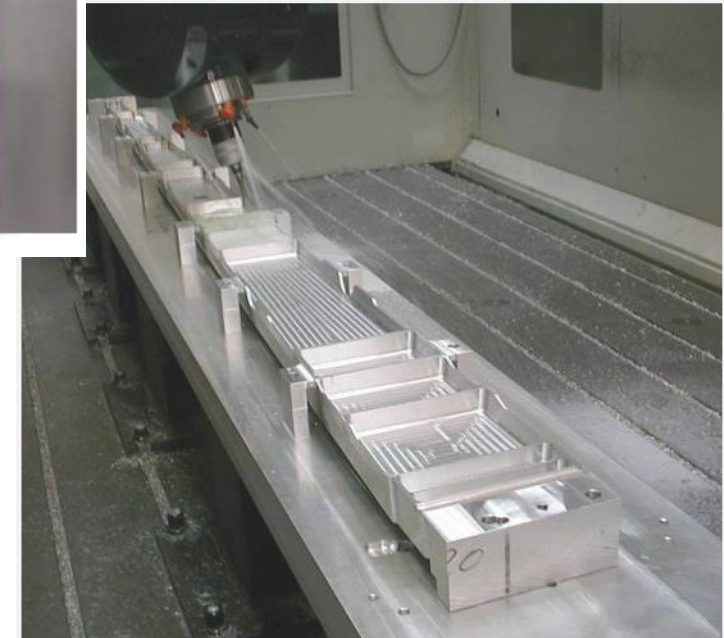
SPEEDLINER

MATERIALS

ALUMINUM

COMPOSITE

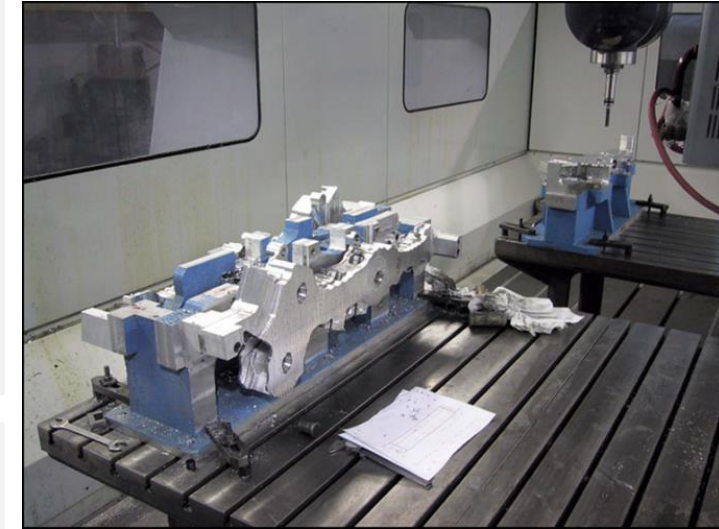
TITANIUM



SPAR, RIBS, BEAMS

MACHINE

DIAMOND 30
DIAMOND



MATERIALS

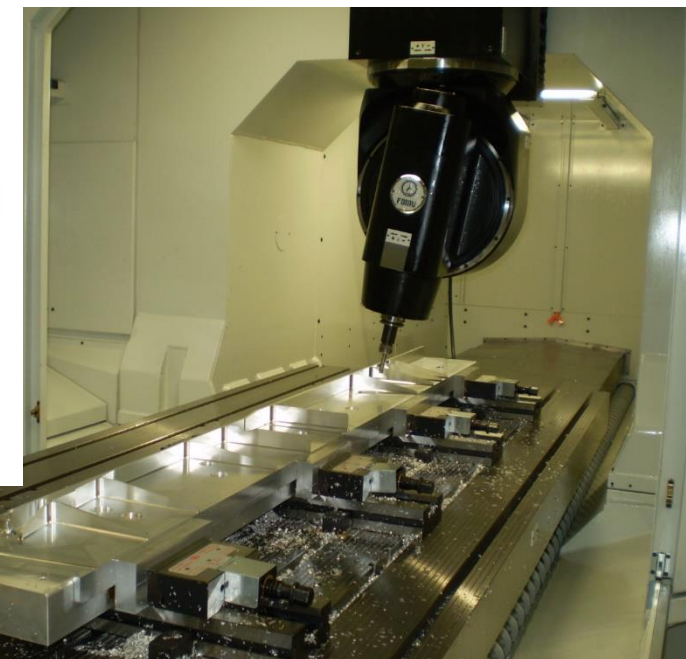
ALUMINUM
COMPOSITE
TITANIUM



SPAR, RIBS, BEAMS

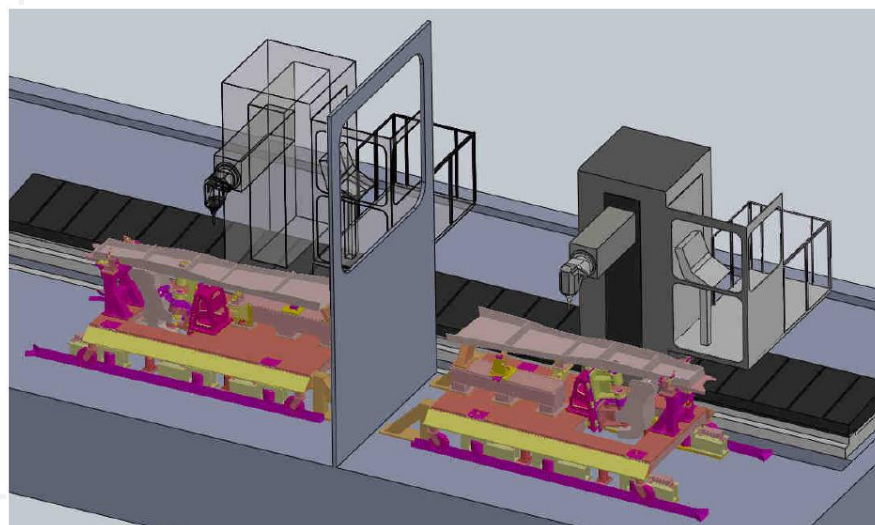
MACHINE

ELECTRA
DINAMIKA
ACTIVE
ACTIVE MEGA



MATERIALS

ALUMINUM
COMPOSITE
TITANIUM



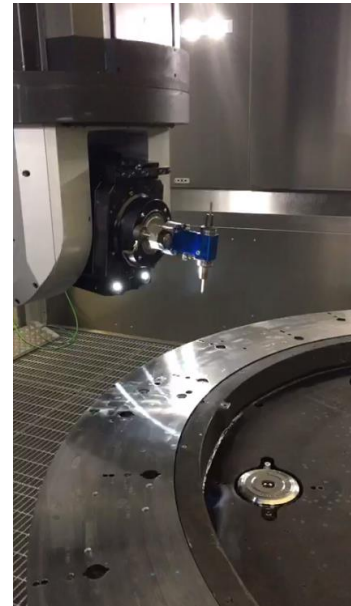
CASES

MACHINE

AERO
XS
SPEEDLINER

MATERIALS

ALUMINUM
COMPOSITE
TITANIUM



CASES

MACHINE

DIAMOND 30

DIAMOND

THS 100 TILT

THS 120 TILT



MATERIALS

ALUMINUM

COMPOSITE

TITANIUM



COMPRESSOR-TURBINE

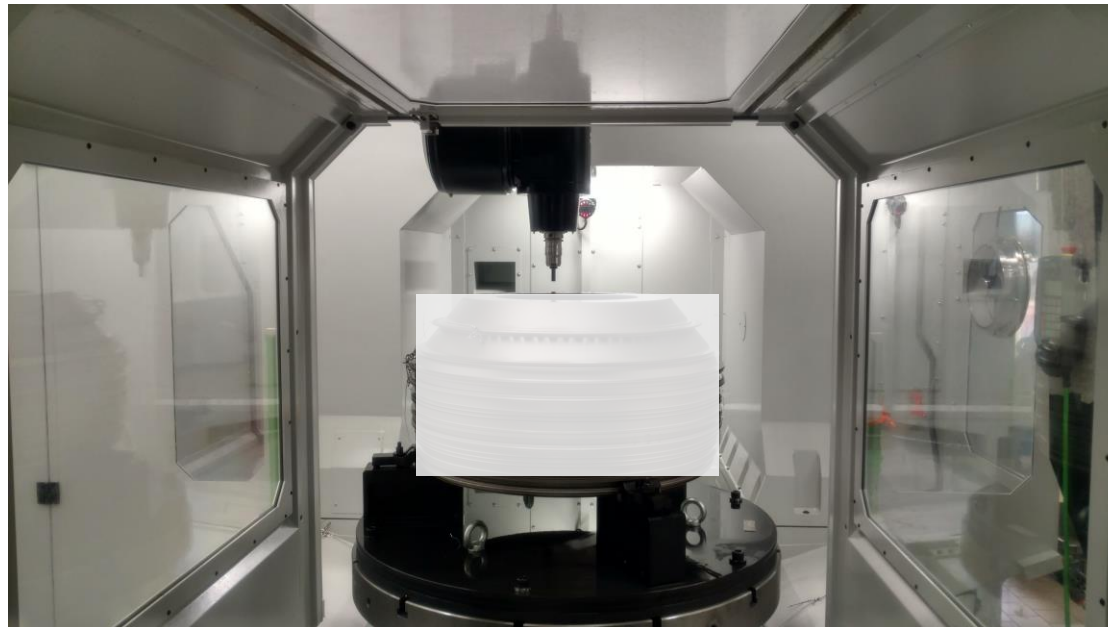
MACHINE

ROLLER
ROLLER XL
ROLLER MEGA
UNIKA
TWIN



MATERIALS

INCONEL
TITANIUM



COMPRESSOR-TURBINE

MACHINE

XS
DIAMOND 30
DIAMOND
THS 100 TILT
THS 120 TILT

MATERIALS

INCONEL
TITANIUM



ROTORS-TURBINE

MACHINE

XS

SPEEDLINER

DIAMOND 30

THS100 TILT

THS120 TILT

MATERIALS

INCONEL

ALLUMINIUM



BLADES-BLISK-IMPELLERS

MACHINE

UNIKA BLADE

UNIKA BLISK

MATERIALS

ALUMINUM

INCONEL

TITANIUM



BLADES-BLISK-IMPELLERS

MACHINE

**TWIN
ESAGON**

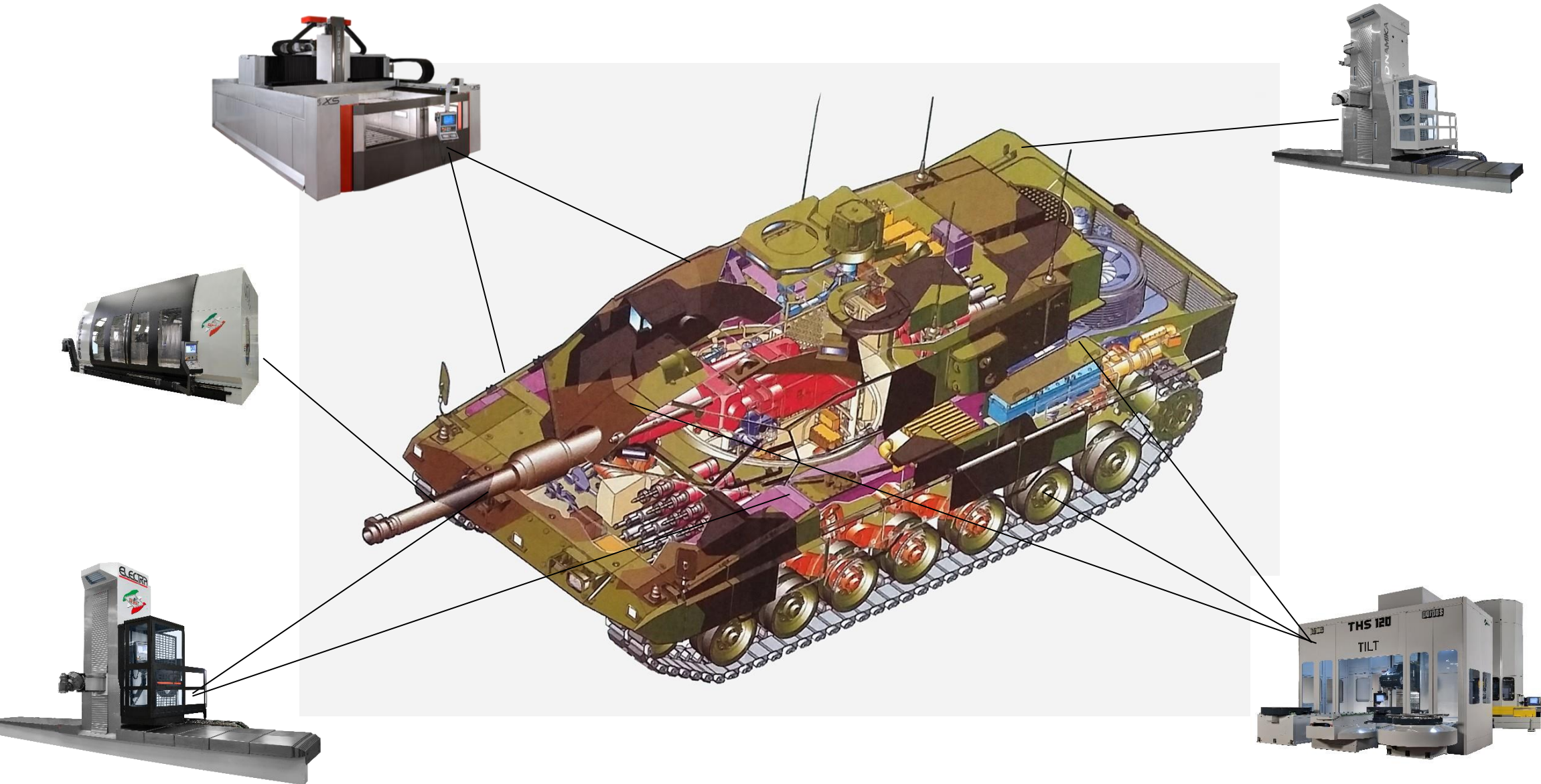


MATERIALS

**ALUMINUM
INCONEL
TITANIUM**



GROUND APPLICATIONS



GUN MANTLET

MACHINE

SHARK
THS100 TILT
THS120 TILT



MATERIALS

STEEL



GUN

MACHINE

**ELECTRA
DINAMIKA
SHARK**



MATERIALS

STEEL



TURRET

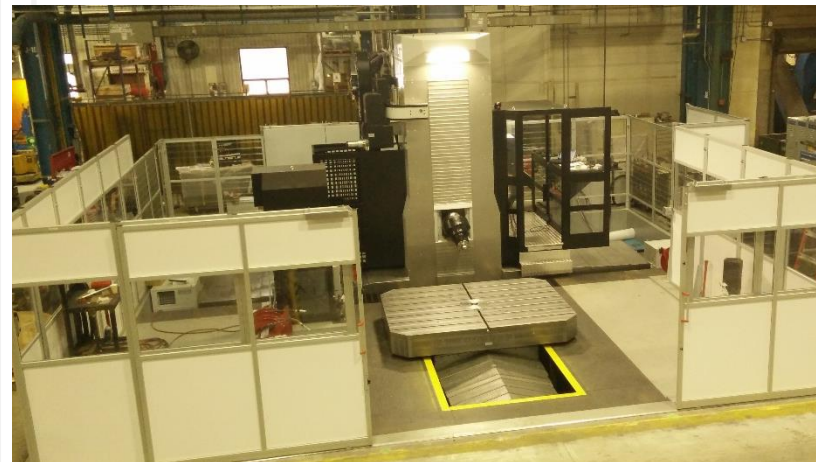
MACHINE

**ELECTRA
DINAMIKA
XS**



MATERIALS

STEEL



HULL, CHASSIS AND STRUCTURAL PARTS



MACHINE

**ELECTRA
DINAMIKA
XS**

MATERIALS

STEEL



HULL, CHASSIS AND STRUCTURAL PARTS



MACHINE

**ELECTRA
DINAMIKA
XS**



MATERIALS

STEEL



ROAD WHEEL-DRIVE SPROCKET



MACHINE

THS100-TILT
THS120-TILT
SHARK

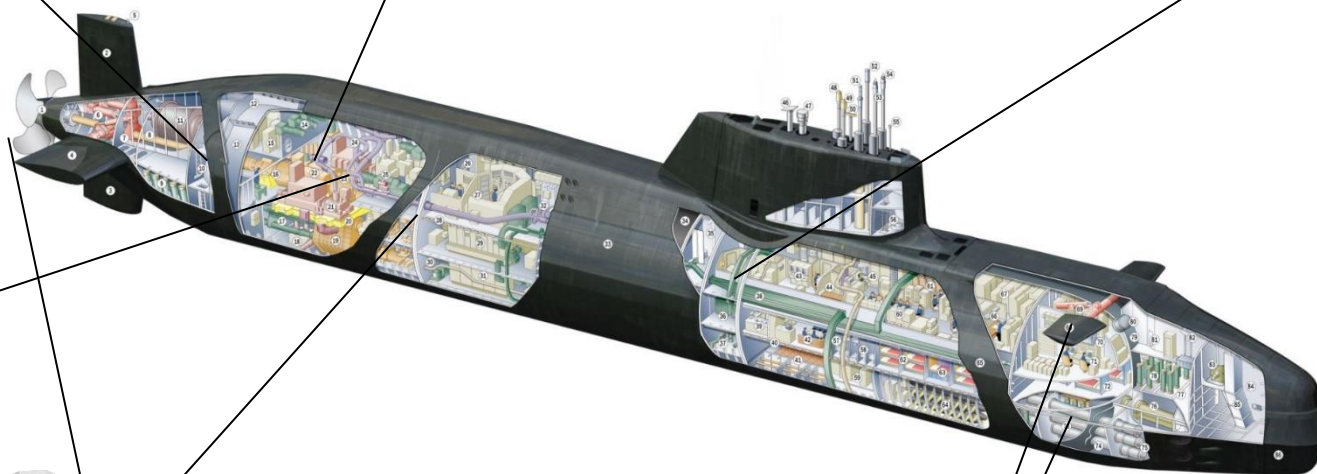


MATERIALS

STEEL
HARDENED STEEL



NAVAL APPLICATIONS



PROPELLER

MACHINE

**XS
ELECTRA
DINAMIKA
SHARK**



MATERIALS

**STEEL
BRONZE**



TORPEDO

MACHINE

SHARK
ELECTRA
DINAMIKA
ACTIVE



MATERIALS

STEEL



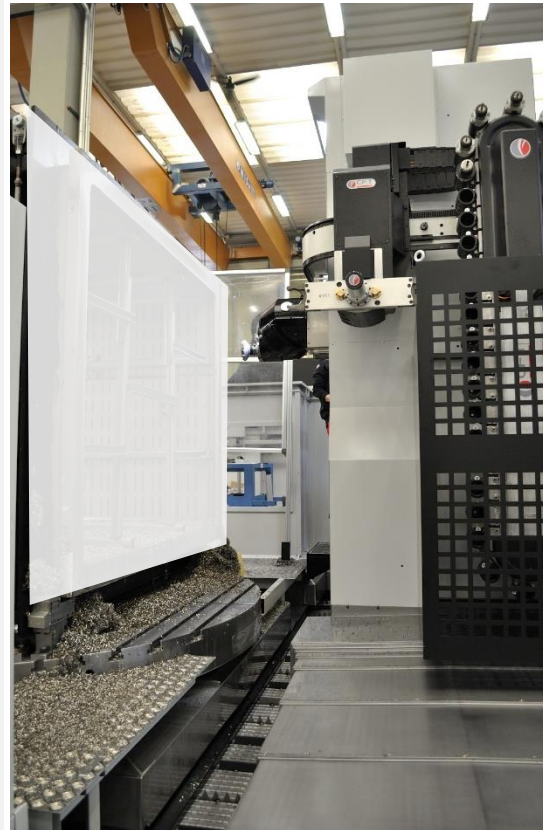
STRUCTURAL PARTS

MACHINE

**ELECTRA
DINAMIKA
XS**

MATERIALS

STEEL



STRUCTURAL PARTS

MACHINE

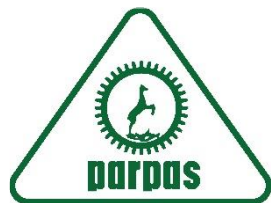
**ELECTRA
DINAMIKA
XS**



MATERIALS

STEEL





AERO

XS

SPEEDLINER

DIAMOND 30

DIAMOND

THS

THS TILT

BF



ELECTRA

DINAMIKA

ROLLER

ROLLER XL

ROLLER MEGA

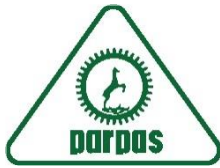
ACTIVE

ACTIVE MEGA

ESAGON

UNIKA

TWIN



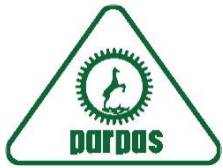
AERO



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	5000 ÷ 30000
		in	196.85 ÷ 1181.10
CROSS TRAVEL	Y	mm	5000 ÷ 7600
		in	196.85 ÷ 299.21
VERTICAL TRAVEL	Z	mm	1500 ÷ 2500
		in	59.06 ÷ 98.43
FEEDRATES MAX		mm/l'	90000
		in/l'	3543.31
SPINDLE		Kw	30 ÷ 100
		rpm	7000 ÷ 30000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	



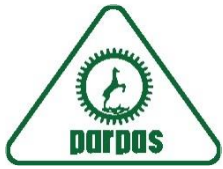


XS

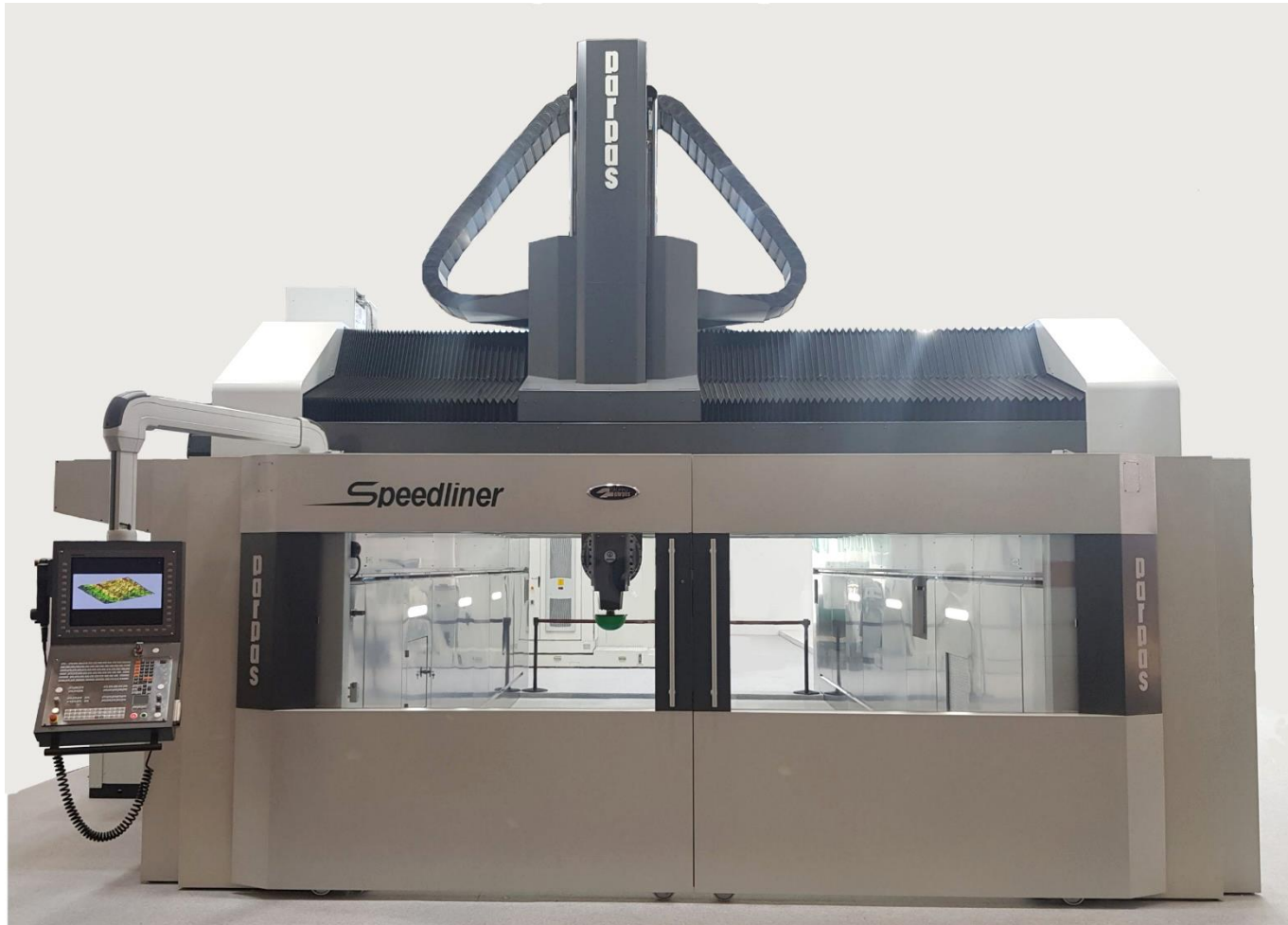


TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	3000 ÷ 30000
		in	118.11 ÷ 1181.10
CROSS TRAVEL	Y	mm	2500 ÷ 4700
		in	196.85 ÷ 299.21
VERTICAL TRAVEL	Z	mm	1250 ÷ 2200
		in	49.21 ÷ 86.61
FEEDRATES MAX		mm/1'	80000
		in/1'	3543.31
UNIVERSAL HEAD		Kw - rpm	100 ÷ 28000
5-AXES HEAD		Kw - rpm	60 ÷ 5000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50

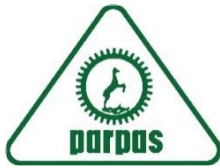


SPEEDLINER

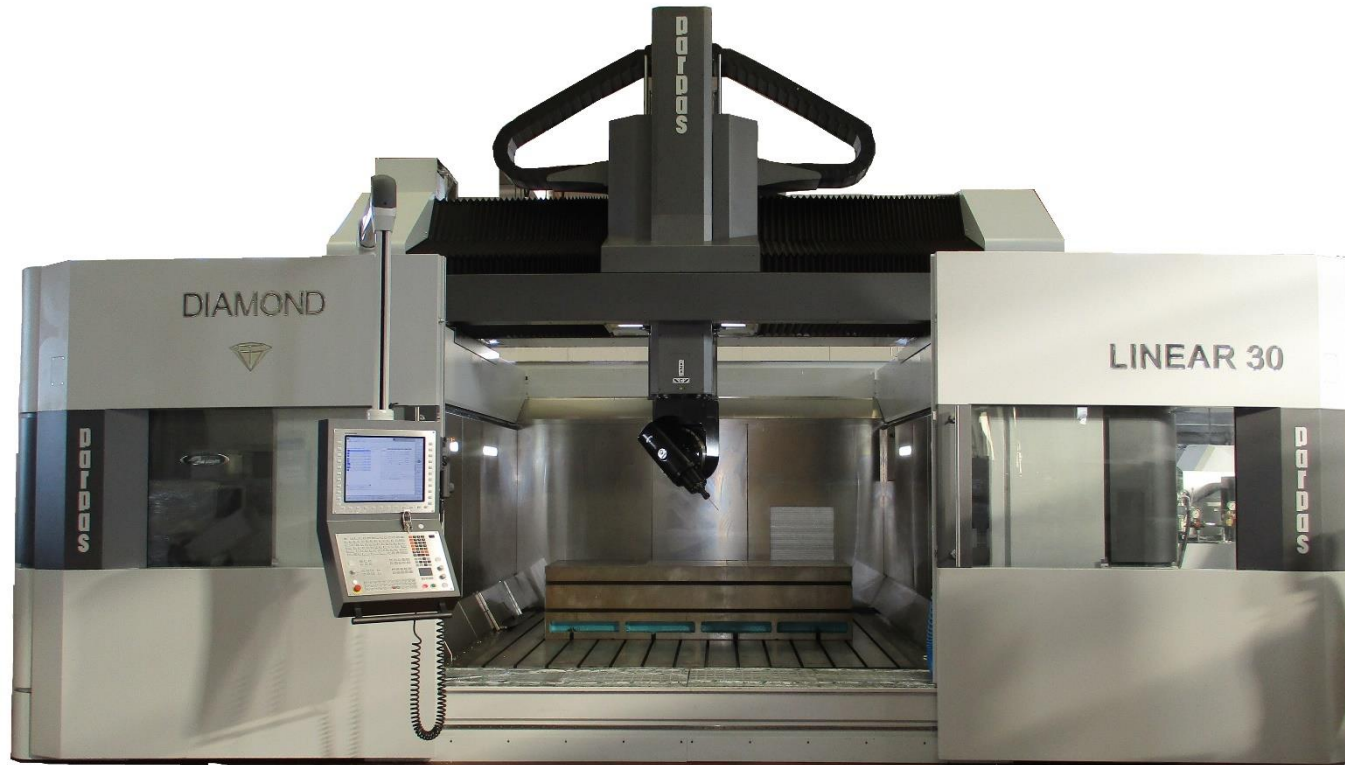


TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2500 ÷ 30000
		in	98.43 ÷ 1181.10
CROSS TRAVEL	Y	mm	1800 - 2600 - 3200 - 3600
		in	70.87 - 102.36 - 125.95 - 141.73
VERTICAL TRAVEL	Z	mm	1200 - 1500 - 1750
		in	47.24 - 59.06 - 68.90
FEEDRATES MAX		mm/1'	60000
		in/1'	2362.20
SPINDLE		Kw - rpm	36 ÷ 60
		Kw - rpm	60 ÷ 5000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50

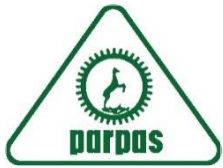


DIAMOND 30



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	3000
		in	118.11
CROSS TRAVEL	Y	mm	2600
		in	102.36
VERTICAL TRAVEL	Z	mm	1200 ÷ 1400
		in	47.24 ÷ 55.12
FEEDRATES MAX		mm/l'	60000
		in/l'	2362.20
SPINDLE		Kw	55
		rpm	15000 ÷ 40000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	



DIAMOND



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2200 (+220)
		in	86.61 (+8.66)
CROSS TRAVEL	Y	mm	1500
		in	59.06 (+8.66)
VERTICAL TRAVEL	Z	mm	1000
		in	39.37
FEEDRATES MAX		mm/1'	60000
		in/1'	2362.20
SPINDLE		Kw	55
		rpm	15000 ÷ 40000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50



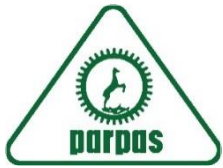
THS 100



TECHNICAL DATA



LONGITUDINAL TRAVEL	X	mm	1500 - 2000 - 2500
		in	59.06 - 78.74 - 98.43
CROSS TRAVEL	Y	mm	1200
		in	47.24
VERTICAL TRAVEL	Z	mm	1200
		in	47.24
FEEDRATES MAX		mm/1'	40000
		in/1'	1574.80
SPINDLE		Kw	29 ÷ 64
		rpm	7000 ÷ 20000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50

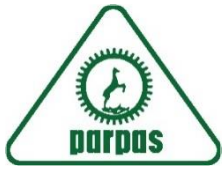


THS 120



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2000 ÷ 3000
		in	78.74 ÷ 118.11
CROSS TRAVEL	Y	mm	1250 ÷ 2000
		in	49.21 ÷ 78.74
VERTICAL TRAVEL	Z	mm	1250 ÷ 2400
		in	49.21 ÷ 94.49
FEEDRATES MAX		mm/1'	30000
		in/1'	1181.10
SPINDLE		Kw	30
		rpm	20000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	

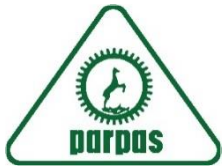


THS TILT



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	1600 ÷ 3000
		in	61.99 ÷ 118.11
CROSS TRAVEL	Y	mm	1250 ÷ 2000
		in	49.21 ÷ 78.74
VERTICAL TRAVEL	Z	mm	1250 ÷ 2400
		in	49.21 ÷ 94.49
FEEDRATES MAX		mm/1'	30000
		in/1'	1181.10
SPINDLE		Kw	30 ÷ 65
		rpm	5000 ÷ 20000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50



BF



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	4000 ÷ 30000
		in	157.48 ÷ 118.10
CROSS TRAVEL	Y	mm	1250 ÷ 1500
		in	49.21 ÷ 59.06
VERTICAL TRAVEL	Z	mm	3000 ÷ 6500
		in	118.11 ÷ 255.61
FEEDRATES MAX		mm/1'	25000
		in/1'	984.25
SPINDLE		Kw	46
		rpm	1740
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	





ELECTRA



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	4000 ÷ 16000
		in	157.48 - 629.92
CROSS TRAVEL	Y	mm	2100 - 2600
		in	82.68 - 102.36
VERTICAL TRAVEL	Z	mm	1400 - 1500
		in	55.12 - 59.06
FEEDRATES MAX		mm/1'	30000
		in/1'	1181,1
SPINDLE		Kw	29 ÷ 38
		rpm	4000 ÷ 18000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50



DINAMIKA



TECHNICAL DATA



LONGITUDINAL TRAVEL	X	mm	4500 ÷ 20500
		in	177.17 ÷ 807.09
CROSS TRAVEL	Y	mm	2600 ÷ 4100
		in	102.36 ÷ 161.42
VERTICAL TRAVEL	Z	mm	1600
		in	62.99
FEEDRATES MAX		mm/1'	30000
		in/1'	1118.10
SPINDLE		Kw	29 ÷ 75
		rpm	4000 ÷ 18000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50



ROLLER



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	1200
		in	47.24
CROSS TRAVEL	Y	mm	1800 - 2030
		in	70.87 - 79.92
VERTICAL TRAVEL	Z	mm	1000
		in	39.37
FEEDRATES MAX		mm/1'	30000
		in/1'	1181.10
SPINDLE		Kw	29
		rpm	18000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	





ROLLER XL



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2000
		in	78.74
CROSS TRAVEL	Y	mm	1800 - 2030
		in	70.87 - 79.92
VERTICAL TRAVEL	Z	mm	1000
		in	39.37
FEEDRATES MAX		mm/1'	30000
		in/1'	1181.10
SPINDLE		Kw	29
		rpm	18000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	



ROLLER MEGA



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2050
		in	80.71
CROSS TRAVEL	Y	mm	2050
		in	80.71
VERTICAL TRAVEL	Z	mm	1100
		in	43.31
FEEDRATES MAX		mm/1'	60000
		in/1'	2362
SPINDLE		Kw	29 - 30
		rpm	18000 - 22000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	



ACTIVE



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2000 - 3000 - 4000	
		in	78.74 - 118.11 - 157.48	
CROSS TRAVEL	Y	mm	1800 - 2030	
		in	70.87 - 79.92	
VERTICAL TRAVEL	Z	mm	850 - 1000	
		in	33.46 - 39.37	
FEEDRATES MAX		mm/1'	30000	60000
		in/1'	1181.10	2362.20
SPINDLE		Kw	29 - 40	
		rpm	18000 - 12000	
TOOL CONNECTION			HSK63 - HSK100A	
			ISO40 - ISO50	



ACTIVE MEGA



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	2200 - 3200 - 4200
		in	86.61 - 125.98 - 165.35
CROSS TRAVEL	Y	mm	2050
		in	80.71
VERTICAL TRAVEL	Z	mm	1100
		in	43.31
FEEDRATES MAX		mm/1'	60000
		in/1'	2362.20
SPINDLE		Kw	29 - 40
		rpm	18000 - 12000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50



ESAGON



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	1200
		in	47.24
CROSS TRAVEL	Y	mm	750
		in	29.53
VERTICAL TRAVEL	Z	mm	700
		in	27.56
FEEDRATES MAX		mm/1'	120000
		in/1'	4724.41
SPINDLE		Kw	20 - 29
		rpm	27000 - 20000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	



UNIKA



BLISK



BLADE

TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	1100 ÷ 1700
		in	43.31 ÷ 66.93
CROSS TRAVEL	Y	mm	600 ÷ 800
		in	23.62 ÷ 31.50
VERTICAL TRAVEL	Z	mm	600 ÷ 800
		in	23.62 ÷ 31.50
FEEDRATES MAX		mm/1'	60000
		in/1'	2363.20
SPINDLE		Kw	29
		rpm	18000
TOOL CONNECTION		HSK63 - HSK100A	
		ISO40 - ISO50	



TWIN



TECHNICAL DATA

LONGITUDINAL TRAVEL	X	mm	800+800 / 1050+1050
		in	31.50+31.50 / 41.34+41.34
CROSS TRAVEL	Y	mm	500 - 700
		in	19.69 - 27.56
VERTICAL TRAVEL	Z	mm	650
		in	2362.20
FEEDRATES MAX		mm/1'	60000
		in/1'	2362.20
SPINDLE		Kw	29 ÷ 41
		rpm	15000 ÷ 22000
TOOL CONNECTION			HSK63 - HSK100A
			ISO40 - ISO50

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