

Level 1	N 2	N 3	N 4	Description	Contact for new	
					Bars / Blocks / Sheets	Parts
AEROSPACE	Aircrafts P-A	Engines O-AA*, P-K, I-K,	Shafts P-K1	Fans, compressors and turbine shafts, etc.	B. Vachey	P.Reg
			Fan Disks P-K3, P-K5, I-			
			Spinners			
			Compressors HP			
			Compressors LP and IP	Disks + Drums (tambours)		
			Turbines HP			
			Turbines LP			
			Blades	Pins		
			Other non-rotating parts P-K2,	Housings, intermediate housing flanges (brides intermédiaires de carter), etc.		
		Structural parts	Airframes O-AB* , P-A7	T, fuselage frames (cadre), fittings (ferrures), wing fittings (éclisses), etc.		
	Stationary parts O-AF*, O-AF1		Door components : hinges (gonds), bars, etc.			
	Mobile parts O-AF*, O-AF1		Flap tracks, transmission components (gear assemblies, gears, actuators), etc.			
	Jet engine parts P-A5, P-A3, O-AF*, O-		Engine pylons (Mats réacteurs), nacelles, thrust reversers (inverseurs de poussée), etc.			
	Landing components O-AC*, P-A6		Sliding tubes, main fittings (caissons de trains), torque link (compas), wheels (P-A4), braking systems, boggie beams (balanciers), landing gear fittings (éléments de trains), etc.	P.Reg		
	Engines	Shafts	Shafts, other parts (billet family)			
		Rotating parts except shafts	Disks, wheels, etc.			
		Other non-rotating parts	Pistons, rings, etc.			
	Helicopters P-A2 O-AD*	Structural components	Kinematics linkages (or transmission)	Hubs (Moyeux), shafts, swash plates, blade sleeves (manchons), transmission parts (gears), etc.	B. Vachey	M. Bouzidi
			Stationary parts	Housings, hinges (gonds), spindles (fusées), etc.		
			Landing components			
	Space P-B O-AH*	Launchers	Propulsion components P-B2	Rings, cylinders (viroles), domes (fonds), boosters, etc.	D.Laveze	N / A
			Structural P-B1	Fuel tanks (in Ti), etc.		
		Others P-B9		Satellites, ISS Station, ATV Vehicle, etc.		
Others	Aeronautic bearings O-AE*			D.Laveze	N / A	
	Specialized aeronautic distributors			S. Delhopital		
	Specialized aeronautic transformers		transformers aerospace activity level 2 & 3 & 4 unknown			
	Others		Drones, airships (dirigeables)	JP. Hesse		

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ENERGY F O-AL*	Turbines, Generators and transformers O-AL1, O-AL2, O-AL*	Gas Turbines	Gas Shafts	P-F6		S. Delhoptal	C. Sentenac	
			Gas Other rotating parts	P-F7	Disks, Spacer, Rings			
			Gas Blades					
			Gas Other non-rotating parts		Casing, Rings			
		Steam Turbines	Steam Shafts	P-F8				
			Steam Other rotating parts	P-F8	Disks, Spacer, Rings			
			Steam Blades					
			Steam Other non-rotating parts		Casing, Rings			
		Alternators			Retaining rings (frettes), Other parts			
		Industrial compressors	P-F3					
	Nuclear Energy I-G, O-AM*	Primary equipments	Pressure vessels		Flanges (brides), radial guides (blocs support), tank rods (tiges de cuve)			
			Steam generators		Partition plates, anti-vibration bars (Barres Anti Vibratoires), flow limiters (tuyères)			
			Pump units		Flanges (brides), shafts			
			Pressurizers					
		Piping, valves and fittings			Valves, tubes, segments			
		Nuclear fuels	Ultracentrifugation (ETC ou		Bars and tubes			
			Fuel productions		Forged or rolled bars			
	Equipments		P-Y, I-Y (Y9), O-HY					
	New technologies			Nuclear fusion = ITER Nuclear fission = JHR				
	Renewable Energy			Solar, windmills, hydrowind (sea current)				
	Oil and Gas, and Chemical industries I-V O-AP* O-AN2	Platforms		I-V3	Risers and turret swivels	Specialty Riser Joints, anchoring systems (Length Adjustment Spools)	S. Delhoptal	JP. Hesse
					Other platforms	Cylinder rods		
		Other drilling parts		I-V9		Non-magnetic steerable stabilizers, wheels (cast part)		
		Chemical industries						
	Others	Specialized energy distributors					N / A	
		Specialized energy transformers			transformersenergy activity level 2 & 3 & 4 unknown			

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LAND AND SEA TRANSPORTATION	Mechanical sports (1) O-AS*	Drive train (Transmission)		Gear boxes, motor parts, shafts, gears, crankshafts (vilebrequins), connecting rods (bielles)	JP. Planchon	P. Barnet / J.P.Hesse
		Other parts		Chassis frame components, fasteners (O-AG*)		
	Injection system O-AR*		Automotive, heavy trucks, railway, maritime and other applications			
	Valves (soupapes) O-AT*					
	Others			Springs (Ressorts) (O-AV*), Keels, cylinders (viroles), casings, shafts, connecting rods (bielles) (P-U1, P-U2, P-U3)		

(1) Automotive competition, two wheels, and other mechanical sports like skidoo or others vehicles.

					Contact for new customers		
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TOOLING	Cold working			Cutting, drawing, blanking (emboutissage) (I-87)	F. Cenac	N / A	
	Hot working	Mandrel (Mandrins)	I-P1			N / A	P. St Maurice
		Continuous casting rings (Frettes)	I-S4				
		Forging (Forgeage) / Stamping (Estampage) / Close die forging (Matriçage)	O-AZ3, I-83			F. Cenac	P. Barnet
		Extrusion (Filage)	O-AZ4, I-84				
		Glass applications	O-AZ5		Moulds and glass industry components		
		RTM and composites applications	O-AZC		Dies and parts	N / A	
		SPF (Titanium) applications	O-AZS		Dies and parts		
	Light alloys	O-AZ2		Dies (Matrices), injection nozzles (buses), light alloys "goose necks" injection			
	Hot transformation of synthetic raw materials	Plastic injection, compression and extrusion	O-AZ1		Dies (Matrices), injection nozzles (buses), half / hot mechanical transformation (>180°C, ≤ 400°C) of synthetic raw material	C. Auzeau	
	Other applications O-AZH, O-AZW				Furnace grids, tiles (tuiles) moulds, nuclear marine parts	N / A	
	Specialized distributors O-AZ9, O-AZA, O-AZD, O-AZE, O-AZF, O-AZV, O-AZP					F. Cenac	N / A
	Knives			Standard, professional and industrial cutleries, other cutlery products	D.Laveze		
Other cutting tools	Tool holders rockdrill				F.Cenac		

Level 11	N 2	N 3	N 4	Description	Contact for new customers	
					Bars / Blocks / Sheets	Parts
SPECIALTIES	Navy	O-AJ*, P-R, I-R	Submarine	Nuclear propulsion (reactor elements, injection, valve), Projectile launches (torpedo launch tubes, subsea vehicles VSM39), Equipments (valves, flanges (brides), aerial parts (partie aérienne), cooling systems (circuit de refroidissement), pumps), others	JP. Hesse + P. Barnet for casting parts	
			Boats and boats weapons	Projectile launches (tubes, torpedoes, VM39), Equipments (valves(vannes), flanges (brides), aerial parts, pumps, landing grids (grilles d'appontage) for helicopters		
			Other, non identified or classified			
	Missiles	O-AX*, P-L, I-L	Motor casing	Back, intermediate and front cups and tanks (Fonds et réservoirs), cruise bodies (Croisière monobloc), tubes, rolled shapes	B. Vachey	JP. Hesse
			Orientation	Control and stabilization systems (Système de pilotage et stabilisation), fins (empennages)		
			Other, non identified or classified	Fittings (Ferrures), hangers (attaches)		
	Defense	Naval defenses	Torpedos		P. Saint Maurice + P. Barnet for casting parts	
			Medium Calibers & Accessories	Barrels (20≤cal≤76 mm) breech components (éléments de culasse), sleeves (manchon), corners (coins), liners (chemise), muzzle brakes (frein de bouche), tubes)		
			Naval Barrels & Accessories	Barrels for turrets (76 ≤ cal ≤ 127 mm) (breech components (éléments de culasse), sleeves (manchon), corners (coins), liners (chemise), muzzle brakes (frein de bouche), tubes)		
		Land Barrels & Accessories	Barrels for howitzers (obusier), Tanks (Char de combat), Tracted barrels (105≤ cal ≤ 155.52 mm) :Tube / breech components / sleeves (Manchons) / Corners (Coins)/ Screws / Muzzle brakes (Frein de bouche)			
	Land defenses	O-AK*	Mortars & Accessories	Mortars (cal : 60 / 81 / 120 mm) (Tube / breech components)		
			Medium Calibers & Accessories	Barrels and breech accessories (20≤ cal ≤ 76 mm)		
			Transport and equipment	Chassis / Arm supports / body floors (pont) (protection and assembly components / body floor components), Energy recuperation and suspension system components (½ products for pinions and gears, torsion bars), Running gear components (½ traveling wheels (galet), tracks)		
	Small gun barrels	O-AK2		Components for arms of 5.56 ≤ cal ≤ 7.62 mm (Tube / breech components)		N / A
	Medical O-A2*	Orthopedic / Traumatology		Prosthesis, screws (vis), boltings	D.Laveze	P. Barnet (for casting parts)
		Instruments / Ancillary				
		Others		Arms for radio tables (cast part), orthosis, dental plots		
	Watch making O-A4*			Cases, wristlets, mechanical parts		
	Mechanics O-AN*	Gears	O-AN3		Others than aeronautics and motorsports	
		Others				
	Food			High pressure vessels (Enceintes de pascalisation), food grinding (broyage alimentaire) (nozzles (buses), extruders)		JP. Hesse
	Recycling, water and waste treatment				JP. Hesse	
	Others	Distributors		(or crossover markets)	S. Delhopital	N / A
Transformers			(non aerospace and energy markets) Forging companies (Forgerons),foundries (fondeurs), machining companies (usineurs)			
Fasteners O-AG*				N / A		
Others or non identified						
Custom Treatment (TAF)				A. Verge		
Various services			Research projects (Marchés d'étude), various billings	N / A		