

ESM at a glance

Everything a buyer or supplier quality engineer normally asks for in a first screening, on one page. Build-to-print machining of complex aluminium components for aerostructures and aircraft equipment — 15 CNC centres from 3 to 5 axes, EN 9100 and ISO 9001 certified.

COMPANY

Identity

Legal name	ESM — Engineering Solution and Machining
Founded	December 2019
Site	Bâtiment industriel N°4, Z.I. Bir El Kassaa, Ben Arous 2059, Tunisia
Sites	1 — no subsidiaries
Site area	~10,000 m² (1 ha)
Headcount	150
Staff turnover	6 % / year
DUNS	362864036
Customs status	Fully-exporting company (Tunisia)
Product liability insurance	In place
Supplier type	Build-to-print manufacturer — non-design
Sectors	Aerospace 80 % · Industrial 10 % · Automotive 10 %
ITAR / defence-restricted areas	None

QUALITY AND CERTIFICATION

What we hold — and what we do not

EN 9100:2018	CERTIFIED
ISO 9001:2015	CERTIFIED
Certification body	AFNOR Certification (COFRAC accreditation n° 4-0001), IAQG ICOP scheme — certificates registered in the IAQG OASIS database
ISO 14001 / ISO 45001	IN DEPLOYMENT
Special process qualification	IN PROGRESS
Nadcap	NOT HELD
EASA Part 21 / Part 145	NOT HELD
FAI	Applied on every new part number
Problem solving	8D · QRQC · PDCA · process FMEA
FOD programme	Aligned with AS 9146
Internal audits	System · process · GEMBA · product
Calibration plan compliance	100 % — H1 2026
Audit plan compliance	100 % — H1 2026

MACHINE PARK

Fifteen CNC machining centres, every one purchased new

MAKE	MODEL	UNITS	AXES	TYPE	X	Y	Z	WORKHOLDING
DMG MORI	DMU 125 monoBLOCK	1	5	Vertical	1 335	1 250	900	Table
DMG MORI	DMU 95 monoBLOCK	4	5	Vertical	950	850	650	3 pallets
DMG MORI	NMV 5000	2	5	Vertical	730	510	510	Table
DMG MORI	DMU 50	1	5	Vertical	650	520	475	Table
DMG MORI	NHX 5000	3	4	Horizontal	730	730	880	Pallet changer
DMG MORI	CMX 1100 V	2	3	Vertical	1 100	560	510	Table
DMG MORI	CMX 600 V	1	3	Vertical	600	—	—	Table
HAAS	VF-3 YT	1	3	Vertical	1 050	—	—	Table

Travels in millimetres. Total 15 CNC machining centres, all purchased new. Plus cut-off sawing, conventional turning and vertical drilling. Travels are nominal machine travels, not guaranteed part envelopes.

CAPACITY

A number, not an adjective

Machining capacity	7,950 h / month
Shift pattern	3 × 8 + weekend team
Spindles	12,000 / 20,000 / 24,000 rpm · 22 kW
Through-spindle coolant	up to 80 bar
Probing	Part and tool probing on every machine
Fitting capacity	1,000 h / month
Inspection capacity	1,000 h / month
Capacity planning horizon	> 12 months
Batch profile	Small, medium and large series

PROCESSES

In-house versus partner network

CNC milling 3 / 4 / 5 axis	IN-HOUSE
Cut-off and preparation	IN-HOUSE
Fitting and finishing	IN-HOUSE
Dimensional inspection	IN-HOUSE
Mechanical assembly	IN-HOUSE — riveting, Hi-Lok / Hi-Lite, helicoils, bushings, seals
Conventional turning / drilling	IN-HOUSE
CNC turning	NOT AVAILABLE
Surface treatment, coating, heat treatment, NDT	QUALIFIED PARTNERS

MATERIALS AND SYSTEMS

What we machine, and the digital chain

Primary materials	Aerospace aluminium 7175 / 7075 and 2000 / 6000 series
Stainless steels and hard metals	Machined
Titanium / nickel alloys	Not a standing capability
CAD	CATIA · Siemens NX
CAM	Mastercam
Engineering workstations	15
In-machine probing	Renishaw · Heidenhain · laser tool setting
ERP / MRP / PLM	Odoo Enterprise
3D measurement	Hexagon portable measuring arm
Bridge CMM	Not in-house — routed externally on request

CONTACT

Commercial and technical entry points

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RFQ	Online RFQ form on the ESM website (technical files accepted: PDF, STEP, IGES, STL, DXF, CATPart)
Working languages	English · French
Receiving hours	08:00–12:00 / 13:00–17:00

Figures stated for the 2026 reference period. Certificate references, delivery and quality performance data, customer references and partner identities are provided directly during supplier qualification, under confidentiality. Every figure in this document is traceable to an internal record; capabilities we do not hold are stated as not held. Current version published on the ESM website.