



WATER JET CUTTING MACHINES AND ACCESSORIES

OUR RANGE

- > Recognized expertise
- > Experienced installation teams
- > A responsive and efficient After-Sales Service



- > Multi-purpose
- > Precision
- > High-performance
- > Reliability



EXPERIENCE, THOROUGHNESS & INNOVATION FOR YOUR PROJECTS

LDSA is the first European pioneer in the design of **VERY HIGH PRESSURE WATER JET CUTTING MACHINES**. After more than 25 years, they were able to become the French leader and one of the major European manufacturers.

KEY FIGURES

- > Turnover of over €11.5M
- > 30 employees
- > 5000 m² (assembly, production, offices).
- > The company works with more than 20 countries
- > Over 200 machines were designed and had been installed

The company has always been able to adapt to the changes in customer needs and to the water jet cutting market.

LDSA provides the competences and advice of their R&D department.

Their engineers ensure feasibility studies, the qualification and optimisation of processes as well as the design and manufacture of complete systems of up to 20 simultaneous axes.

LDSA has the most complete offer on the market with 4 ranges of «upgradeable» machines, with a wide choice of table dimensions from 1,000x1,000 mm up to 18,000x6,000 mm as a standard (forward stroke).

The fact that they are multi-purpose, reliable and precise enables you to **cut all types of materials**, and to make components in complex or simple forms **with optimum productivity!**

LDSA machines are equipped with intensifier or direct drive pumps.

3,800 to 6,200 bars supplied by their two historical partners: the world leader KMT (USA), and the European leader BFT (Austria).

Our privileged relations with these two world references again prove even more, how attentive we are to being **up to date with the needs and requirements of the market**.

Our expertise in specialised machines and in robotics also enable us to offer **complete customised systems according to the specific needs of our customers**.

OUR FIELDS OF EXPERTISE



The design and manufacture of water jet cutting machines.

We ensure installation that is adapted to the customer's needs: production constraints, security standards...



After-Sales Service.

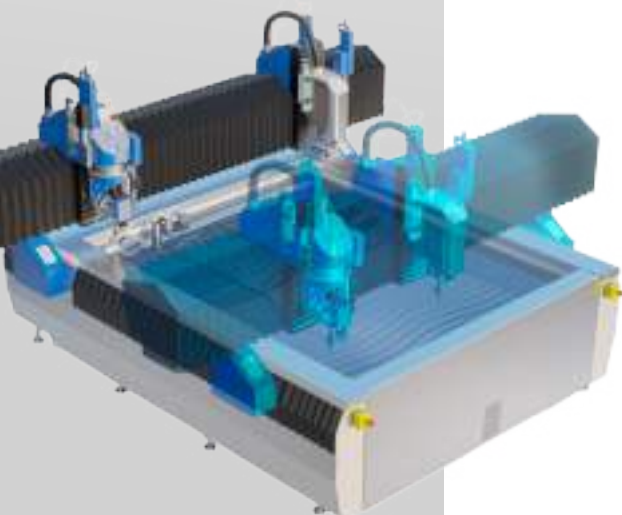
Responsive and professional.



Production department. Pre-sales, process industrialisation, feasibility test, analyses, pre-series...



Electricity department - Engineering and installation and industrial electricity.



- Dual Bridge configuration, model WJA II 30.20 2P 2TI 3X5X AW

WATER POWER PROFICIENCY

For thousands of years this power has shaped incredible landscapes. This is the power that LDSA puts in your hands...

CUTTING PRINCIPLE



- > **Water is first filtered** to eliminate any impurities.
- > **It is compressed** with a special pump that can reach up to 6,200 bars.
- > When passing through an opening calibrated at approximately 0.1 to 0.40 mm in diameter, **water accelerates up to 2 to 3 times the speed of sound.**
- > The energy that is thereby accumulated by the water molecules in combination with the abrasive attachments, **makes it possible to cut almost any material.**

- **600 mm and more for soft materials**
glass wool, rubber, paper, cardboard, polypropylene....

- **500 mm for hard materials**
rock, sandwich panel, aluminium, brass, plastic, carbon...

- **200 mm for very hard materials**
steel, titanium, stainless steel...



ADVANTAGES OF WATER JET CUTTING



A cold cutting method that does not change the molecular structure of cut materials



Low water consumption ecological process with no toxic fumes (air particles, smoke, vapour)



All materials can be cut, including heterogeneous materials



Inexpensive consumables



Exceptionally precise and clean cutting even for extreme thicknesses



X4 Multiple-bridge and multiple-head cutting that enables an increase in productivity

Up to 6,200 bars,
discover
**ULTRA-HIGH
PRESSURE**

For further information and cutting videos,
visit the website at www.ldsa-france.fr

THE MOST COMPLETE RANGE ON THE MARKET WITH 4 UPGRADEABLE MODELS



WJA II TYPE

MULTI-PURPOSE, STURDY & TOP-OF-THE-RANGE

Adaptable to all your projects with options available

- 3-axis head, 5-axis head and ACTIVE 5-axis head
- 4th rotational axis
- CNC, motor, coder, touch screen by FANUC
- Up to 4 heads per bridge
- Up to 4 bridges
- Table* up to 18 x 6 m.



FBJET III TYPE

COMPACT, STURDY, HIGHLY ACCESSIBLE

A special configuration at a competitive price

- ACTIVE 5-axis head
- CNC, motor, coder, touch screen by FANUC
- Integrated ballast system
- Integrated pump
- Table* 4 x 2 m



ECJET III TYPE

LDSA TECHNOLOGY ACCESSIBLE TO EVERYONE

Available in projects requiring simple execution

- 3-axis head
- CNC, motor, coder by FANUC
- Table* up to 3 x 2 m



LCJET III TYPE

MULTI-PURPOSE, PRECISE, ALL-STAINLESS STEEL HOUSING

Adapted to environmental restrictions requiring increased protection

- 3-axis head, 5-axis head and ACTIVE 5-axis head
- CNC, motor, coder, touch screen by FANUC
- Integrated ballast system
- Table* 1,2 x 1,2 m

* Forward stroke cutting



SPECIFIC DEVELOPMENT

SPECIAL MACHINES

According to your environmental and production restrictions, we develop customised configurations at your request.

CONSULT US

DIFFERENT TYPES OF PUMPS ADAPTED TO YOUR NEEDS



DIRECT DRIVE TYPE

HIGH PRESSURE

- Max. 3,800 bars
- Low percent load

SPECIAL
VARIATION
RANGE



INTENSIFIER TYPE

VERY HIGH PRESSURE

- Max. 4,150 bars
- High percent load, reliable, economical

INTENSIFIER TYPE

VERY HIGH PRESSURE

- Unique variation range on the market, from 100 bars to 4,150 bars
- Brush-less motor
- Energy-saving
- Ideal for composites

[CONSULT US](#)



INTENSIFIER TYPE

ULTRA-HIGH PRESSURE

- Max. 6,200 bars
- Projects that require optimum productivity and/or for very hard materials and extreme thicknesses

MAN/MACHINE INTERFACE

INTUITIVE CONTROL, SIMPLE, HIGHLY ERGONOMIC

- > Touch screen (except for ECJET III)
- > Interactive management
upkeep, diagnosis and maintenance
- > Mobile console on wheels
- > Simple control
- > Simple profiles pre-programmed are integrated
- > Status by mail remote surveillance via the web,
through which the condition of the machine can be verified
via an internet connection



ACCESSORIES

- > PAA Abrasive Feed Tube
- > TAA Abrasive Hopper
- > Abrasive regulator (controlled by CNC)
- > SEBA Automatic Sludge Extraction System
- > Belt filter filtration of cutting water for compliance with the applicable standards
- > SKID Water recycling
- > Water softener and Dialyzer
- > ...

OPTIONS

- > 5-axis head: 3D and/or 2.5D cutting
- > Multiple heads up to 4 heads per bridge
- > Multiple bridges up to 4 bridges
- > Fourth rotational axis
- > SDAC Camera-Assisted Surface Planing
- > Pneumatic drilling unit
- > Integrated or external ballast system
- > Bi-zonal work surface
- > Aiming/positioning laser
- > Chamber, housing
- > ...



They trust in us



/ AERONAUTICAL / AEROSPACE / INDUSTRY / AUTOMOTIVE / NAVAL / NUCLEAR
/ SHEET METAL & METALLURGY / MARBLE MASONRY / TEACHING...

Do you have a project or a technical question ?
[CONTACT US.](#)

ldsa

THE REFERENCE IN ULTRA-HIGH PRESSURE
WATER JET CUTTING

ZI de POPEY - 1 Impasse des lettres 55000 BAR-LE-DUC
Tel. +33 3 29 77 12 12 - Fax. +33 3 29 79 68 41

www.ldsa-france.fr