

SOLUTIONS

CNC

CNC PROGRAMMING, TRAINING, TECHNICAL SUPPORT & SOURCING



“ CNC INTELLIGENCE AT THE HEART OF YOUR PERFORMANCE ,”

THEY SUPPORT US:



WHO WE ARE

Solutions CNC is a French company specialized in CNC programming, optimization, and technical support for demanding industries, including automotive, medical, aerospace, and precision mechanics.

Founded by Bulut Tasdelen, a recognized expert in advanced machining, Solutions CNC supports manufacturers in improving their production processes through a unique combination of industrial engineering, mechanical engineering, CNC programming, and cycle optimization.

THE FOUNDER

Bulut Tasdelen, an expert in advanced machining and former Engineering Manager at Marubeni, with several years of experience within the group.

Today, he supports demanding industrial companies in CNC programming, line optimization, and the implementation of reliable and productive solutions. His technical vision and hands-on experience ensure effective interventions tailored to the specific challenges of each plant.

OUR MISSION

To support manufacturers in mastering their machining operations, from CNC program development to productivity improvement, with a high level of expertise, responsiveness, and reliability.

15

years of experience

8

8 countries of operation

+300

CNC programs developed



Solutions CNC s'adresse aux industriels exigeants recherchant performance, fiabilité et maîtrise de leurs lignes d'usinage.

CNC PROGRAMMING

PROGRAM CREATION AND OPTIMIZATION

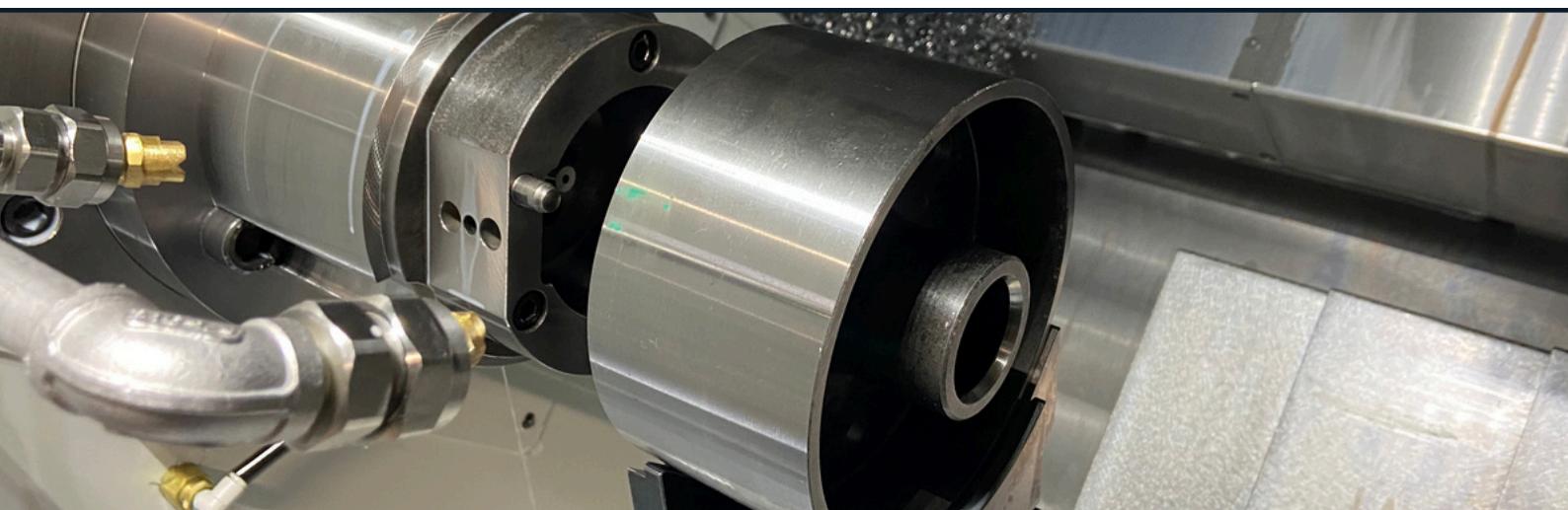
- CNC Turning (ISO, Siemens, Fanuc)
- CNC Milling (ISO, Siemens, Fanuc)
- Multi-axis machines
- 3 to 5-axis machining centers

AVAILABLE SERVICES

- Complete CNC programs for new part references
- Toolpath optimization (cycle time reduction)
- Program securing and reliability improvement
- Automatic correction algorithms
- Program parameterization and structuring
- Simulation, debugging, and shop-floor commissioning
- Creation of operator and technician interfaces
- Program compliance and standardization

WHAT YOU GAIN

- Guaranteed cycle time reduction
- Secure programs from the first production cycle
- Reduced operator error risks



We design and optimize reliable, fast, and secure CNC programs to ensure high-precision production from the very first cycle.

REAL CASE — CNC PROGRAM OPTIMIZATION

CONTEXT

- Machine : 6 Horkos 5-axis machining centers — Fanuc control
- Part : Rotor Shaft (Serial Production) at **Renault Ampère à Cléon**
- Customer Objectives :**
 - Reduce cycle time to increase throughput
 - Reduce annual tooling costs
 - Stabilize the process across all six machines

KEY RESULTS

PROGRAMMING

Initial cycle time	Optimized cycle time	Gain	Gain per machine
264 s	204 s	60 s (-23%)	1 250h / machine / year

TOOLS

Tools changed	Tool eliminated	Tool life	Gain per machine
3	1	+25 %	7 500€ / machine / year

WORK PERFORMED

- Toolpath optimization
- Selection of appropriate and standardized tooling
- Adjustment of cutting conditions
- Advanced CNC program parameterization

-45 000€ / year

Tooling savings
(6 machines)

7500h / year

Cycle time savings
(6 machines)

+25%

Increase in tool life

CNC TRAINING

TRAINING PROGRAMS FOR ALL SKILL LEVELS

- Operators
- Machine Setters
- Technicians / Methods Engineers
- Engineers

THEMES AVAILABLE

- Fanuc, ISO, SIEMENS programming (turning, milling)
- Reading, interpretation, and structure of ISO programs
- Program and machining performance optimization
- Advanced machining techniques
- Industrial best practices & productivity

TRAINING OPTIONS

- On-site training with production teams
- Training sessions at Solutions CNC offices
- Remote sessions via video conferencing (TEAMS or ZOOM)
- Comprehensive training materials provided (theory, technical sheets...)
- Structured courses, practical exercises, and industrial case studies



We transfer practical and modern know-how, enabling teams to fully master programming, machining, and industrial best practices.

TECHNICAL SUPPORT AND SOURCING

INTERVENTION

- Machining problem resolution
- Program debugging and reliability improvement
- Vibration analysis and parameter optimization
- Non-conformity management and action plans
- Support for new part industrialization
- Tooling trials and cutting tool selection

SUPPORT

- Research and selection of CNC machines
- Sourcing of tooling, tool holders, and accessories
- Software solutions, metrology, special devices
- Equipment implementation and technical validation

SUPPORT OPTIONS

- On-site interventions
- Remote sessions via video conferencing (TEAMS or ZOOM)



We support factories in their technical challenges and strategic choices by providing effective solutions, accurate diagnostics, and sourcing adapted to their needs.

OUR STRENGTHS

EXPERTISE TECHNIQUE DE HAUT NIVEAU

- Advanced mastery of CNC programming: turning, milling, multi-axis and continuous 5-axis machining.
- Advanced skills in automatic correction algorithms for machine parameters, ensuring dimensional and geometric stability.
- Proven expertise in training and technical support, including skills transfer, remote support, and on-site assistance.

CENTRAL ROLE IN INTEGRATED PROJECTS

- Responsible for the complete digitization of machining processes and the implementation of software intelligence in turnkey production lines.
- Provider of the analysis and automatic correction system ensuring geometric consistency between measurement and production (a true differentiator).
- Key technical contact for data interfacing between CNC machines (Fanuc, Siemens, ISO...) and automation systems, potentially under the coordination of a global integrator.
- Guarantor of digital traceability, compliance, and automatic part validation through integrated inspection and correction control.

OUR QUALITY COMMITMENTS

- Total transparency
- Adherence to deadlines
- Absolute confidentiality
- Tailor-made solutions adapted to each plant
- Long-term program sustainability and method capitalization



SELECTED PROJECTS

RENAULT at CLEON : E-TECH project



- Development and industrialization of an automated production line using multiple technologies: milling, turning, press-fitting, welding, inspection, roto-flow
- Development of a strategy to limit human intervention
- Development of a complex autonomous program capable of self-correction in turning and machining centers
- Creation of a customized Fanuc CNC menu using Fanuc Picture
- Training of technicians for CNC machine setup: geometry, gauges, handling, maintenance
- Proposal of improvement actions and monitoring of the productivity plan

HORSE OYAK at BURSA: HR16 / HR18 Project



- Optimization of existing CNC programs
- Creation of a program for a new part variant
- Support for part number changeover
- Support to find solutions to production issues (online)
- Testing / addition of new tools
- Proposal of improvement actions and monitoring of the productivity plan

HORSE at VALLADOLID: CC09 / VI07 Project



- Optimization of existing CNC programs
- Creation of a program for a new part variant
- Support for part number changeover
- Support to find solutions to production issues (online)
- Testing / addition of new tools
- Proposal of improvement actions and monitoring of the productivity plan

CHIMSPORT à ORASTIE : Projet Moyeux



- Wheel hub development
- CNC program creation
- Prototype manufacturing
- Documentation
- Employee training
- Remote support

HADOUX at REIMS: Turbine T2 Project



- Machining study
- 5-axis program creation
- Capability analysis
- Remote technical support
- Employee training
- Remote support

Watchmaking & Jewelry



- 5-axis program creation
- Cycle time reduction
- Documentation

MARUBENI : Prospecting & Study



- Complete line studies
- Specification analysis
- Responses to tenders
- Technical visit management
- Sourcing for their customers

TESTIMONIALS

Mr. Tasdelen has demonstrated strong expertise in solving process-related issues. Our key project on the hybrid powertrain greatly benefited from his ability to design programs and train customers in managing new applications for mass production. In addition, Mr. Tasdelen led the integration of new suppliers and presented several innovative business development proposals. We highly recommend him to meet your challenges.

MATTHIEU LAFOURY - MARUBENI

I had the opportunity to work with Bulut Tasdelen on a project involving the industrialization of a machining line for mechanical parts, carried out in partnership with Marubeni.

His expertise in CNC processes and machining was a decisive asset in achieving our quality, capacity, and performance objectives.

Bulut stood out for his ability to propose solutions adapted to quality, cost, and lead-time requirements, while taking into account the operational needs of line operators.

Thanks to his pragmatic and innovative approach, he helped simplify machine operation, secure processes, and significantly reduce the risk of errors.

Beyond his recognized technical skills, I particularly appreciated his global vision of industrial projects and his strong ability to propose solutions, always focused on efficiency and sustainability.

OLIVIER DA CUNHA - CERIMATEC

It is with great pleasure that I recommend Mr. Bulut Tasdelen, with whom I had the opportunity to collaborate on a large-scale industrial project.

During this project involving the industrialization of a machining line for mechanical parts, Mr. Tasdelen fully leveraged his advanced expertise in CNC processes and machining.

Thanks to his pragmatic and innovative approach, he helped simplify machine operation, secure processes, and significantly reduce the risk of errors.

He was able to propose solutions adapted to quality, cost, and lead-time requirements, while integrating the operational needs of shop-floor teams.

Beyond his technical expertise, Mr. Tasdelen stands out for his global vision of industrial projects, his strong problem-solving ability, and his constant commitment to efficiency and sustainability.

YANN GOSSE - AMPERE RENAULT CLEON

I had the opportunity to attend a 4-day training course on Fanuc CNC programming on Horkos machining machines that I was not familiar with.

At the end of the training, I was able to appreciate Mr. Tasdelen's teaching skills and mastery of all the topics covered.

I later had the opportunity to meet Mr. Tasdelen again during the integration of new part variants on our equipment, and he was able to observe my ease with the CNC and the programs, demonstrating the quality of his service.

FREDERIC VASEZ - AMPERE RENAULT STA

REFERENCES

Marubeni



fives
Industry can do it



DACIA

HORSE

AMPERE

FANUC

Member IMC Group
Iscar

PCI MEMBER OF TT GROUP

CERIMATEC
MEMBER OF TT GROUP

DEVATECH

SHADOUX
BUSINESS ALU SHADOUX

BAM
BUSINESS ALU MASUÉ

SANDVIK
coromant

Alpen TECH

TANDEM

POLYGON
ENGINEERING

VL INNOVATIONS

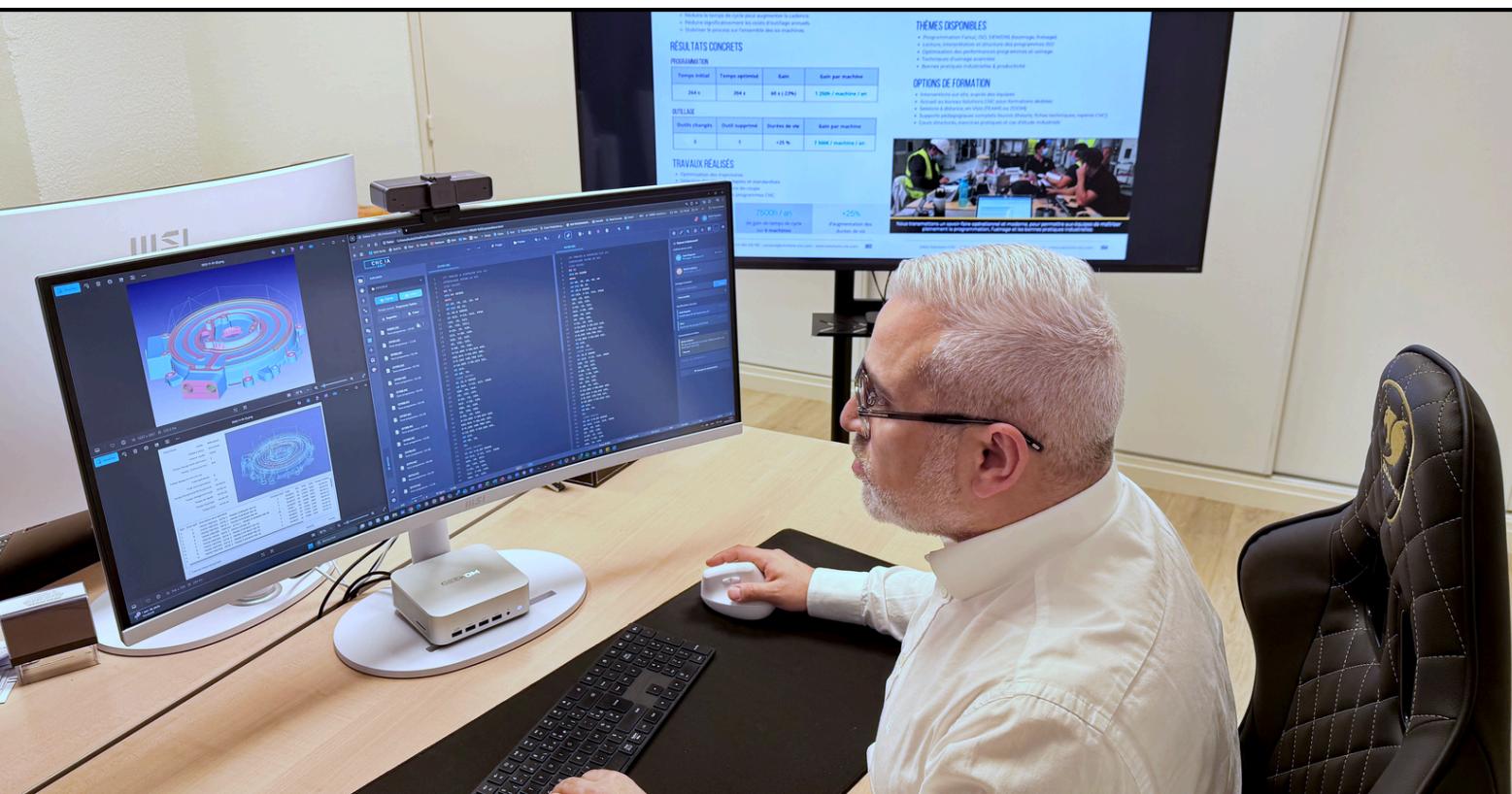
TRPEC
ASIA PACIFIC ELITE CORP

Tongtai

CONTACT

Solutions CNC supports manufacturers toward sustainable and controlled productivity. Recognized expertise for your most demanding CNC projects, with responsive technical support and training programs adapted to all skill levels.

Feel free to contact us to discuss your needs or schedule an intervention.



SOLUTIONS
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