

Thermal break assembly lines



Thermal break assembly for your production

OEMME designs, builds and integrates cutting-edge solutions for the thermal break profile industry, combining automation and reliability.



1978, Efficiency Engineering

For over 45 years, OEMME S.p.A. has been at the forefront of thermal break assembly technology.

We partner with manufacturers worldwide to make production smarter, faster, and more sustainable, transforming the way thermal break profiles are built.

More than 300 customer references worldwide

Three Product Lines. One Unique OEMME Vision.

Thermal Break Assembly Lines

Complete CNC-controlled systems designed for precision and productivity in profile assembly.

No Tooling Line (NEW)

The next generation of flexibility: automatic format change, zero tooling, maximum uptime.

Discover a new way to produce without interruptions.

Smart control over every step of your line

OEMME's proprietary supervision software is built for seamless control and **real-time monitoring** of your assembly lines and machines. + Intuitive interface



- ▶ **CACPM**
Continuous Axis Position Monitoring
- ▶ **PAT**
Perfect adjustment of the tolerance systems
- ▶ **CVT**
Controlled vertical twist correction systems
- ▶ **ALMS**
Assembly line monitoring software
- ▶ **VDC**
Vertical deformation check via laser sensor
- ▶ **NTS**
No Tool Systems

Quality control on the bar in accordance with EN 14024 and CSTB QB standards during the production process.

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AS 221 GA
Assembler profiles T.T.

Assembler profiles T.T.
AS 221 GA

Precision. Control. Reliability.

This machine is designed for high-accuracy assembly of thermal-break profiles, powered by a three-phase two-speed 0.7–1.1 kW motor (400 V – 50 Hz) and supporting profiles from 3–246 mm in width and 34–250 mm in height, with ± 2 mm twist correction via an eccentric system and a total machine weight of 1,050 kg.

High-Accuracy Assembly

Precision Adjustments

Comprehensive Safety Systems



Advanced Tensioning System

Versatile Guidance System

ES

Esta máquina está diseñada para el ensamblaje de alta precisión de perfiles con rotura térmica. Funciona con un motor trifásico de dos velocidades de 0,7–1,1 kW (400 V – 50 Hz) y admite perfiles de 3–246 mm de ancho y 34–250 mm de alto. Incluye una corrección de torsión de ± 2 mm mediante un sistema excéntrico y tiene un peso total de 1.050 kg.

FRA

Machine conçue pour un assemblage très précis de profils à rupture thermique, équipée d'un moteur triphasé deux vitesses de 0,7–1,1 kW (400 V – 50 Hz). Elle accepte des profils de 3 à 246 mm en largeur et de 34 à 250 mm en hauteur, avec correction de torsion ± 2 mm via un système excéntrique. Poids total : 1050 kg.

POR

A máquina foi desenvolvida para montagem precisa de perfis com corte térmico, utilizando um motor trifásico de duas velocidades de 0,7–1,1 kW (400 V – 50 Hz). Suporta perfis de 3–246 mm de largura e 34–250 mm de altura, com correção de torção de ± 2 mm por sistema excêntrico e peso total de 1.050 kg.

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Industry 4.0 ready



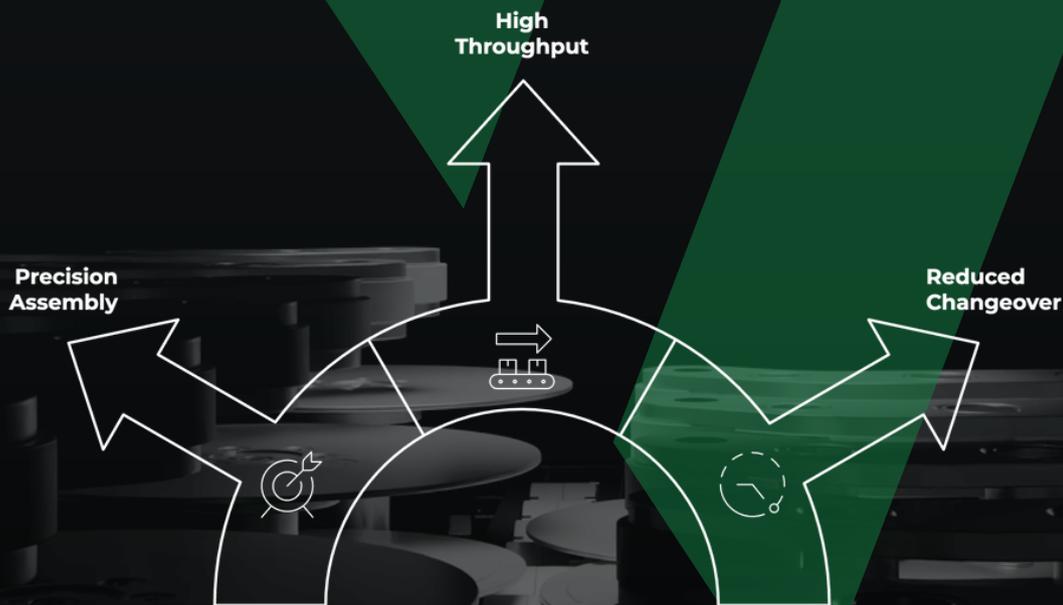
AS 262 GA EVO

Numerically Controlled Assembly System

Numerically Controlled Assembly System **AS 262 GA EVO**

High-speed. Fully controlled. Built for productivity.

The AS 262 GA NC Assembly System is designed for high-performance assembly of thermal-break profiles, combining advanced NC control with seven brushless-driven axes and automated adjustments to ensure precision and repeatability, with in-process bar quality control in accordance with EN 14024 and CSTB QB.



ES

El sistema de ensamblaje CNC AS 260 GA / AS 262 GA está diseñado para el ensamblaje de alto rendimiento de perfiles con rotura térmica, combinando control NC avanzado con siete ejes brushless y ajustes automatizados para garantizar precisión y repetibilidad, con control de calidad en proceso conforme EN 14024 y CSTB QB.

FRA

Le système d'assemblage CN AS 260 GA / AS 262 GA est conçu pour l'assemblage haute performance de profils à rupture thermique, associant un contrôle CN avancé à sept axes brushless et des réglages automatisés pour garantir précision et répétabilité, avec contrôle qualité en cours de production conforme aux normes EN 14024 et CSTB QB.

POR

O sistema de montagem CNC AS 260 GA / AS 262 GA foi desenvolvido para a montagem de alto desempenho de perfis com corte térmico, combinando controlo NC avançado com sete eixos brushless e ajustes automatizados para assegurar precisão e repetibilidade, com controlo de qualidade em processo conforme EN 14024 e CSTB QB.

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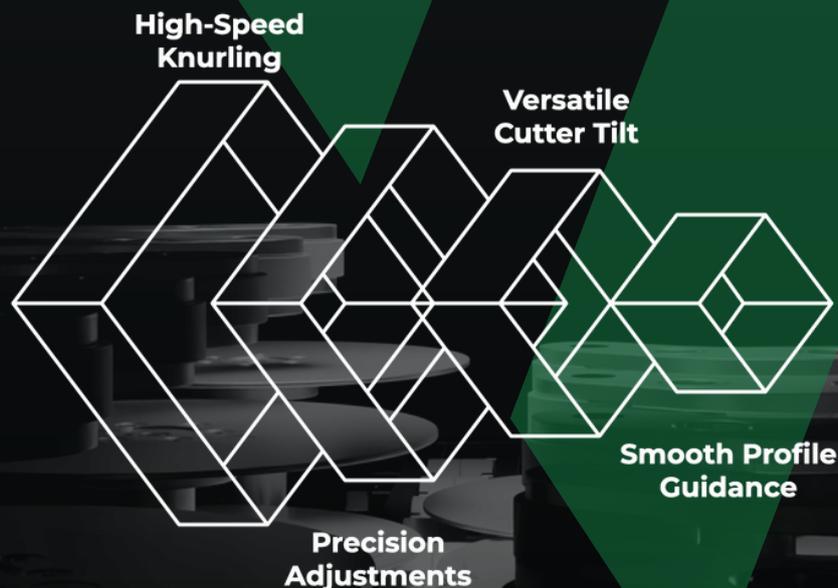
AS 140 Z

CNC knurling machine for thermal break
profiles

CNC knurling machine for thermal break profiles **AS 140 Z**

Compact. Powerful. Exceptionally precise.

The AS 140 Z Knurling Machine uses two three-phase 0.55 kW motors (400 V–50 Hz), inverter-controlled bar feed and an overload-protected cutter block. It handles profiles up to 400×250 mm (281 mm at 10°), with single-control transverse adjustment and independent vertical adjustments, all with decimal indicators.



ES

La AS 140 Z utiliza dos motores trifásicos de 0,55 kW (400 V–50 Hz), avance mediante inversor y un bloque de fresas protegido contra sobrecargas. Trabaja perfiles hasta 400×250 mm (281 mm a 10°), con ajuste transversal por un solo mando y ajustes verticales independientes, todos con indicadores decimales.

FRA

La machine de moletage AS 140 Z utilise deux moteurs triphasés de 0,55 kW (400 V–50 Hz), une avance régulée par variateur et un bloc fraises protégé contre les surcharges. Elle traite des profils jusqu'à 400×250 mm (281 mm à 10°), avec réglage transversal à commande unique et réglages verticaux indépendants, tous avec indicateurs décimaux.

POR

A AS 140 Z utiliza dois motores trifásicos de 0,55 kW (400 V–50 Hz), avanço por inversor e bloco de fresas com proteção contra sobrecarga. Trabalha perfis até 400×250 mm (281 mm a 10°), com ajuste transversal por um único comando e ajustes verticais independentes, todos com indicadores decimais.

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AS 142 Z
CNC Knurling Machine

CNC Knurling Machine AS 142 Z

Smart control. Higher power. Absolute precision.

The AS 142 Z CNC Knurling Machine is the advanced CNC solution for thermal-cut profile knurling, with six brushless axes, automatic bar acceleration/braking and adjustable feed from 30–230 m/min, 80 mm knurling cutters, strokes of 7–256 mm (transverse) and 0–250 mm (vertical), and a working capacity up to 400×250 mm (281 mm with cutters at 10°).



ES

La máquina de moleteado CNC AS 142 Z es la solución CNC avanzada para perfiles con rotura térmica, con seis ejes brushless, avance regulable con aceleración y frenado automáticos de 30 a 230 m/min, fresas de 80 mm, carreras de 7–256 mm (transversal) y 0–250 mm (vertical), y capacidad hasta 400×250 mm (281 mm con fresas a 10°).

FRA

La machine de moletage CNC AS 142 Z est la solution CNC avancée pour profils à rupture thermique, avec six axes brushless, avance réglable avec accélération et freinage automatiques de 30 à 230 m/min, fraises de 80 mm, courses de 7–256 mm (transversale) et 0–250 mm (verticale), et capacité de travail jusqu'à 400×250 mm (281 mm avec fraises à 10°).

POR

A máquina de knurling CNC AS 142 Z é a solução CNC avançada para perfis com corte térmico, com seis eixos brushless, avanço regulável com aceleração e travagem automáticas de 30 a 230 m/min, fresas de 80 mm, cursos de 7–256 mm (transversal) e 0–250 mm (vertical), e capacidade até 400×250 mm (281 mm com fresas a 10°).

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AS 242 L

Thermal cut profile bar insertion device

Thermal cut profile bar insertion device **AS 242 L**

Fast insertion. Automatic centering. Higher productivity.

The AS 242 I Thermal Cut Profile Bar Insertion Device is engineered for the efficient insertion of plastic bars into aluminum thermal-break profiles, ensuring smooth flow, precise alignment, and reduced cycle times.



**Efficient
Insertion**



**Advanced
Drive System**



**Automatic
Centering**



**Productivity
Gains**



**Designed for
Flexibility**

ES

El dispositivo AS 242 I para la inserción de barras en perfiles térmicos está diseñado para insertar de forma eficiente barras plásticas en perfiles de rotura térmica de aluminio, garantizando un flujo suave, una alineación precisa y tiempos de ciclo reducidos.

FRA

Le dispositif d'insertion de barre de rupture thermique AS 242 I est conçu pour insérer efficacement des barres plastiques dans les profilés aluminium à rupture thermique, garantissant un flux régulier, un alignement précis et des temps de cycle réduits.

POR

O dispositivo AS 242 I para inserção de barras de corte térmico foi desenvolvido para inserir barras plásticas em perfis de alumínio com isolamento térmico, garantindo fluxo suave, alinhamento preciso e menor tempo de ciclo.

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Industry 4.0 ready



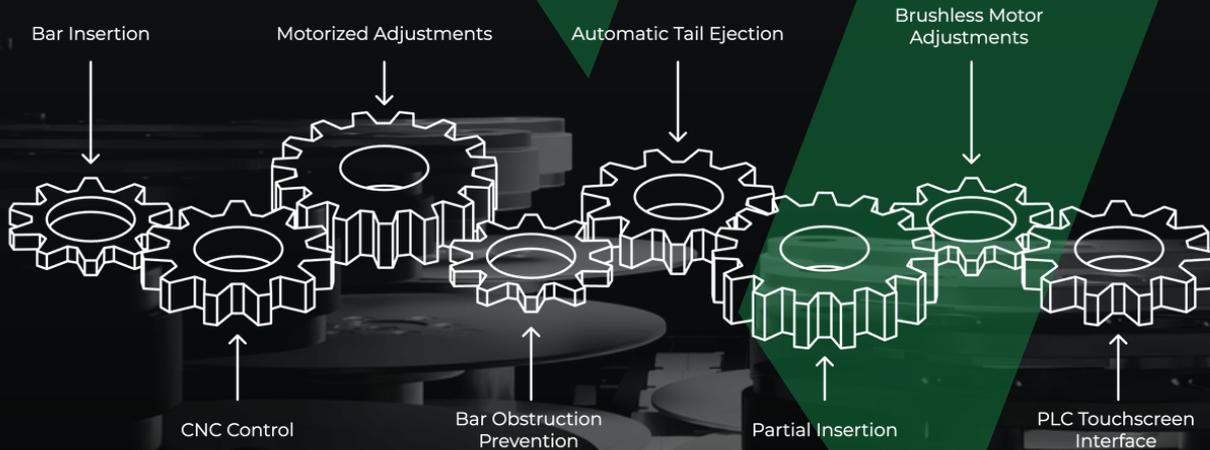
AS 244 I

Numerically controlled bar threader

Numerically controlled bar threader **AS 244 I**

Automated precision. CNC control. Seamless insertion.

The AS 244 I Numerically Controlled Bar Threader is designed for fully controlled insertion of plastic bars into aluminum thermal-break profiles, delivering maximum repeatability, speed, and process stability in high-volume production environments.



ES

El AS 244 I, un roscador de barras controlado numéricamente, está diseñado para insertar de forma totalmente controlada barras de plástico en perfiles de aluminio con rotura de puente térmico, ofreciendo máxima repetibilidad, velocidad y estabilidad del proceso en entornos de producción de gran volumen.

FRA

L'AS 244 I, fileteur de barres à commande numérique, assure l'insertion précise et contrôlée de barres en plastique dans des profilés en aluminium à rupture thermique, pour une vitesse accrue, une répétabilité fiable et une stabilité idéale en production de grande série.

POR

O AS 244 I, Rosqueador de Barras com Controlo Numérico, foi desenvolvido para inserir barras de plástico em perfis de alumínio com isolamento térmico de forma totalmente controlada, garantindo alta repetibilidade, rapidez e estabilidade do processo em ambientes de produção de grande volume.



AS 250 M

Anti-slip test for thermal cut profiles

Anti-slip test for thermal cut profiles **AS 250 M**

Compact. Precise. Reliable testing.

The AS 250 M Anti-Slip Test Device is designed to accurately verify the mechanical resistance and slip performance of thermal-cut profiles, ensuring compliance, safety, and consistent product quality.



ES

El dispositivo de prueba antideslizante AS 250 M está diseñado para verificar con precisión la resistencia mecánica y el comportamiento antideslizante de los perfiles cortados térmicamente, garantizando cumplimiento, seguridad y calidad constante del producto.

FRA

Le dispositif d'essai antidérapant AS 250 M est conçu pour vérifier avec précision la résistance mécanique et les performances d'adhérence des profils découpés thermiquement, afin d'assurer conformité, sécurité et qualité constante.

POR

O dispositivo de teste antiderrapante AS 250 M foi desenvolvido para verificar com precisão a resistência mecânica e o desempenho antiderrapante de perfis cortados termicamente, garantindo conformidade, segurança e qualidade consistente do produto.

Industry 4.0 ready



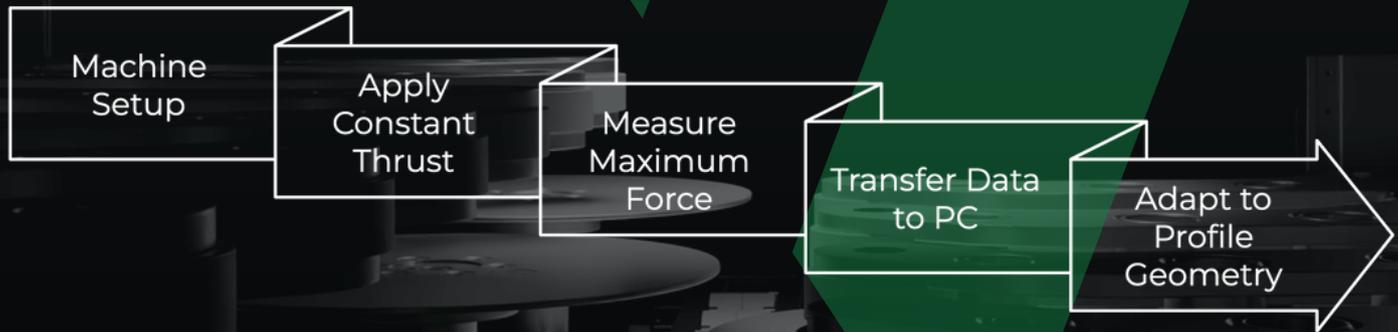
AS 251 M

Motorized slip resistance testing for
thermal break profiles

Motorized slip resistance testing for thermal break profiles **AS 251 M**

Certified testing. Motorized control. Absolute reliability.

The AS 251 M Motorized Slip Resistance Testing Machine is designed for the assessment of extraction resistance in thermal-break profiles, fully compliant with EN 14024 regulations. Engineered for accuracy and repeatability, it is the ideal solution for manufacturers and laboratories focused on certified quality control.



ES

La máquina motorizada AS 251 M para ensayos de resistencia al deslizamiento está diseñada para evaluar la resistencia de extracción en perfiles con rotura de puente térmico, cumpliendo plenamente con la norma EN 14024. Creada para ofrecer precisión y repetibilidad, es la solución ideal para fabricantes y laboratorios que buscan un control de calidad certificado.

FRA

La machine motorisée AS 251 M pour tester la résistance au glissement est conçue pour évaluer la résistance à l'extraction des profils à rupture thermique, en totale conformité avec la norme EN 14024. Conçue pour offrir précision et répétabilité, elle est idéale pour les fabricants et les laboratoires engagés dans un contrôle qualité certifié.

POR

A máquina motorizada de teste de resistência ao deslizamento AS 251 M foi desenvolvida para avaliar a resistência de extração em perfis com corte térmico, totalmente conforme as normas EN 14024. Projetada para oferecer precisão e repetibilidade, é a solução ideal para fabricantes e laboratórios focados em controle de qualidade certificado.

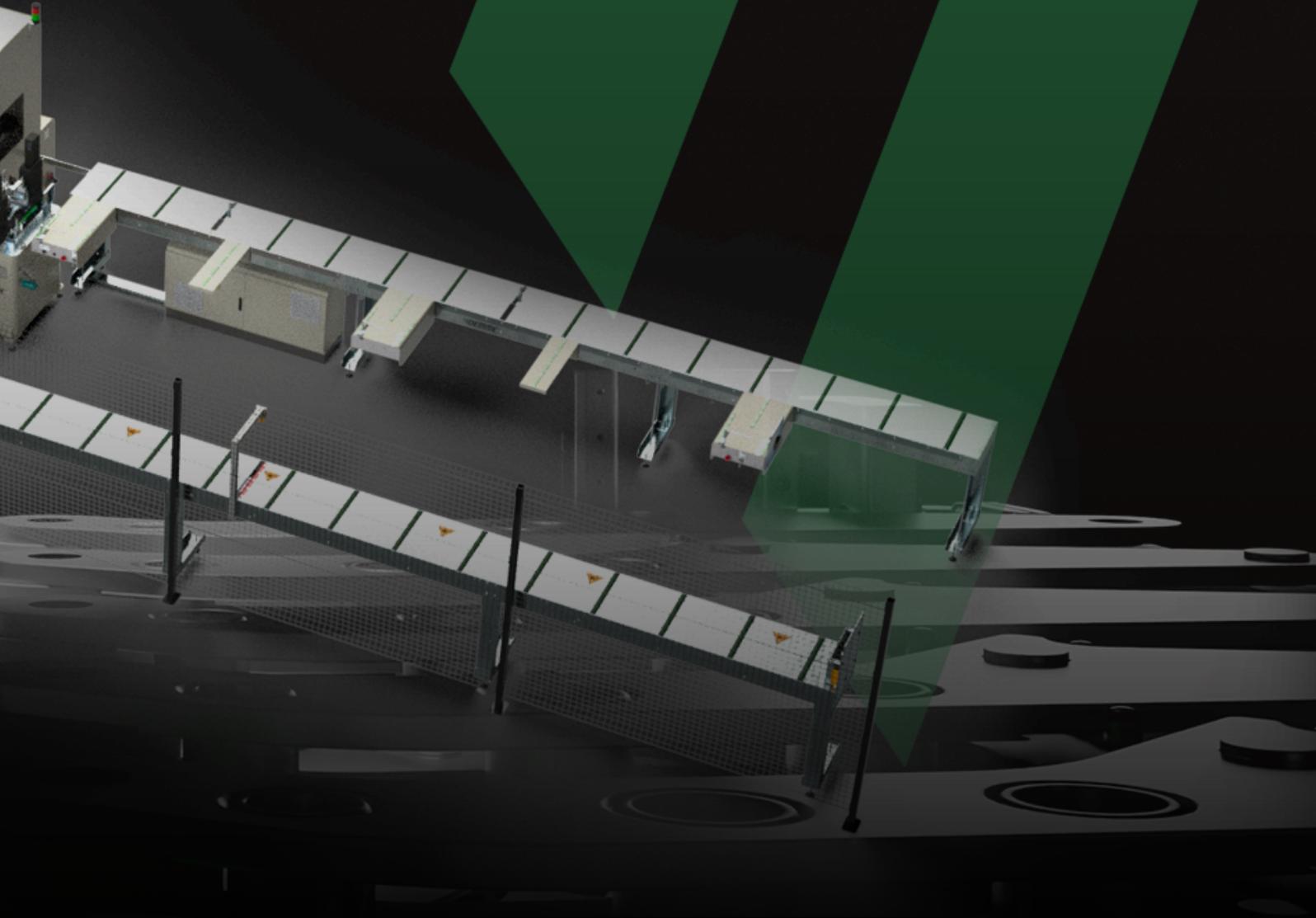
40/50 Bars per hour
2/3 Operators

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Layout 40 - Full CNC



**Minimum production surface,
maximum production capacity with
rapid changes in profile geometry.**



120/150 Bars per hour
2/3 Operators

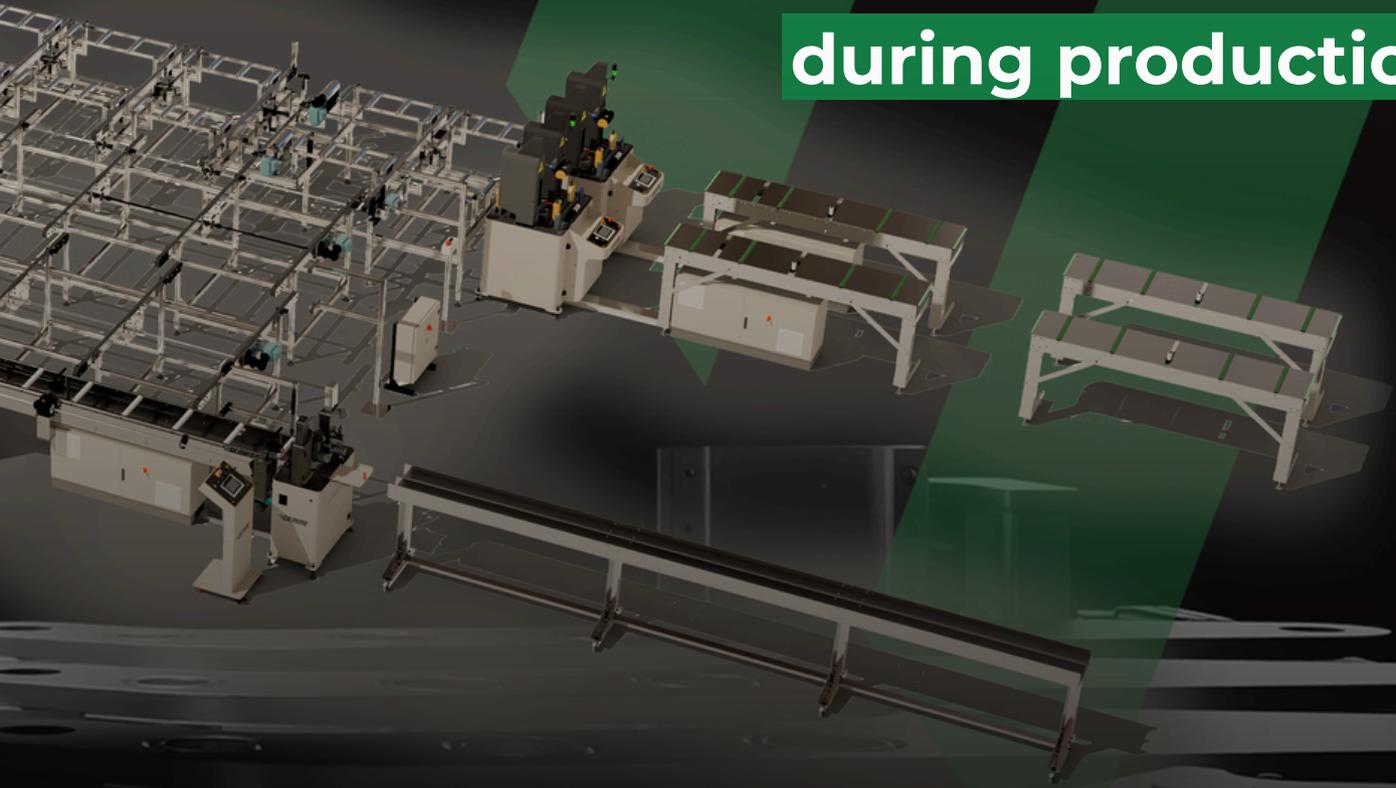


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S.p.A.

Layout 51 - Full CNC

**New Generation, maximum flexibility
and productivity.**

**Complete product quality control
during production.**



EN14024 and CSTB QB

50/60 Bars per hour
1 Operator

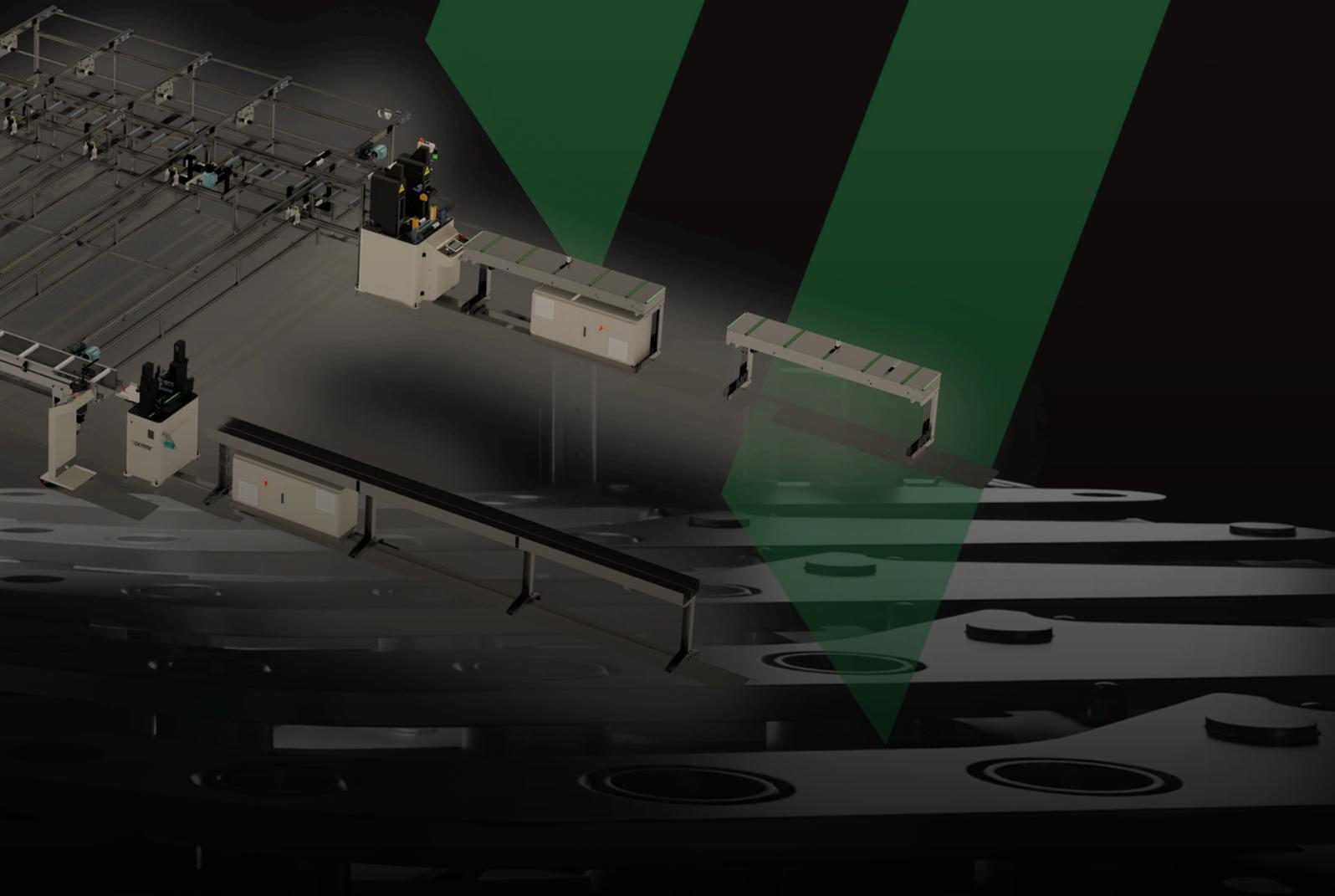


Layout 69 - Full CNC

Complete CNC-controlled system

Maximum productivity and flexibility

with a single operator.



COILING



DEMME[®]
S.p.A.

No tooling line

SOON



The next generation of flexibility:
automatic format changeover, zero
tools, maximum uptime.
Just one operator.



Thermal break assembly for your production

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