



PUNCHING AND LASER COMBINED MACHINES

LEVEL UP YOUR VERSATILITY WITH OUR
AUTOMATED MULTI-PURPOSE SOLUTIONS

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Find out more about what
our technologies can do
for you and how you could
benefit from our consulting
and assistance services:
primapower.com



EVOLVE BY INTEGRATION

Today, every manufacturer in **sheet metal industry** has to step up their business. Competition is rising, customers have more demands, the market has fewer resources: companies have to optimize processes, automate production, save energy and money.

They have to evolve – and evolution is what we have always offered at Prima Power. We do it through the widest range of machines in the industry.

But mostly, we do it with **our unique ability to integrate our technologies into customers' processes** to enhance production performances.

It's about our engineering knowledge and our **customer-centered approach**. It's about our very history of technological integration.

Our brand promise means all that. To level up productivity through targeted dynamic solutions. To support growth through modular and scalable offers. **To evolve by integration.**

DYNAMIC SOLUTIONS TO LEVEL UP YOUR PRODUCTION PROCESS

Prima Power provides businesses of all sizes with targeted dynamic technologies that **enhance profitability** in **sheet metal working**. We create **integrated automated solutions** designed to meet our clients' challenges and open to their future growth. We offer **high-performance machines** that deliver flexible and precise execution.

At Prima Power, value lies in the **focus on customers**. We build our offer on a full range of modular solutions, using our distinctive customer-centered approach and long-standing knowledge in engineering systems and machinery for sustainable, efficient manufacturing - all based on a **unique history of technological integration**.

Level up your production with Prima Power.
DISCOVER HOW



PUNCHING & LASER COMBINED TECHNOLOGY

PUNCHING & SHEARING COMBINED TECHNOLOGY

2D & 3D LASER PROCESSING

BENDING

AUTOMATED MANUFACTURING LINES

SOFTWARE

DRIVING INDUSTRIAL PROGRESS

SERVING HIGH-TECH SECTORS
WITH SPECIALIZED KNOWLEDGE



Leveraging its **diversified expertise**, Prima Power offers solutions that cater to a wide array of industries. Our range's breadth and modularity, combined with our cross-industry knowledge, allow us to provide **targeted and specialized solutions** aligned with the distinctive demands of each sector.

With a focus on customers' needs, we **facilitate the growth and progress of evolving industries**, aiming to boost customer profitability through advanced and reliable production systems.

Prima Power is present in our everyday lives. **DISCOVER HOW**



Visit our website
Find out more

PUNCHING + LASER CUTTING = SUPERIOR MANUFACTURING ECONOMY

MORE THAN THE SUM OF ITS PARTS

- 1 Highly profitable combination of different processes: **punching, tapping, forming, marking, and laser cutting.**
- 2 Unbeatable **flexibility** for even the most **complex shapes** and **widest material range (0.5-8 mm)**, including **sensitive materials**, thanks to intelligent brush table solutions.
- 3 Best-in-class **productivity** ⁽¹⁾ thanks to the combination of punching force **up to 300 kN**, speed **up to 1000 hpm** and **6 kW laser power.**

1+1 > 2

(1) Combi Genius Dynamic is the only machine in the market combining these three technical performances.

The punching and laser cutting combi machines were introduced to the Prima Power product family in 1987. It was noticed that combining different work stages accelerated the manufacture of the final product and reduced the production costs.

A modern combi machine uses numerically controlled, servo-electric axes, which provides outstanding energy efficiency, low maintenance requirement and a high speed of operation. The cornerstones of its productivity include large tool capacity, a wide range of special tools available and easy and fast setup change.

As the best laser power source for the combi machine, fiber laser has a very high efficiency to cut material up to 8 mm thickness.

All this capacity and efficiency is controlled with Prima Power's own software.





GREEN MEANS®: AN INTEGRATED AND PRAGMATIC COMMITMENT

In Prima Power we embrace an integrated and pragmatic approach to sustainability. We deliver solutions designed to optimize production cycles by **focusing on process efficiency**, with the aim of saving materials and energy without affecting the quality of the final output.

Our technologies simultaneously guarantee both a **saving of resources** and **economic savings for manufacturers**.

This means prioritizing effective and feasible solutions, like laser cutting applications we have been pioneering since 1979.

We have summarized our concept of sustainability in two words: **Green means®**.



82%

ENERGY SAVED

BY OUR SERVO-ELECTRIC
PUNCHING WITH THE
ECOPUNCH® TECHNOLOGY



**REDUCE GAS CONSUMPTION
BY UP TO 25%**

**BENEFITS WITH COMPRESSED
AIR CUTTING**

**OPTIONAL GAS MIXER
AVAILABLE**



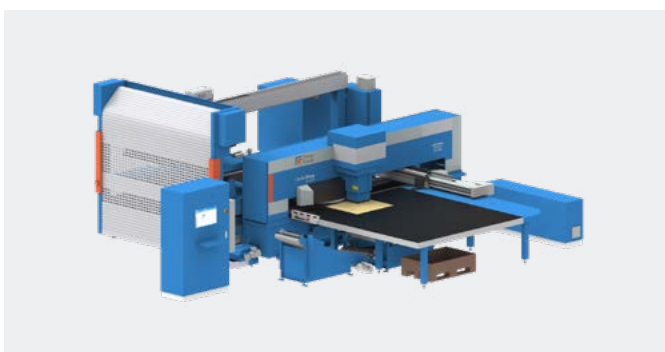
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Find out more



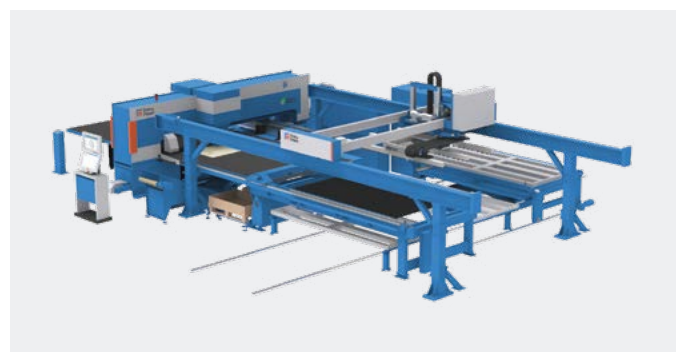
PUNCHING & LASER COMBINED RANGE

LEVEL UP YOUR VERSATILITY WITH
OUR AUTOMATED MULTI-PURPOSE SOLUTIONS



Combi Sharp®

Smart and economical solution for punch-laser combination, which can be equipped with multiple options and automation solutions.



Combi Genius®

Combi Genius is unbeatable when it comes to production versatility and flexibility, combining multiple operations in one machine. At its best when intergated in a FMS.

COMBI SHARP®

SUPERIOR MANUFACTURING ECONOMY



Prima Power's modular approach to flexible manufacturing gave birth to a whole new fabrication concept. Servoelectric Combi Sharp® is a compact punching and fiber laser cutting cell with improved accessibility.

3 kW or 4 kW resonator and large tooling capacity offer superior manufacturing economy when options including automated material handling take it even further.

ACCESSIBLE

- New safety system allows easier material handling and faster work cycles with the machine when operated manually



COMPACT LAYOUT

- Small floor space needed



MODULAR TECHNOLOGY

- Manufacturing cell can be equipped with automation solutions to achieve unattended production



Visit our website

Find out more



EASY SHEET LOADING AND UNLOADING

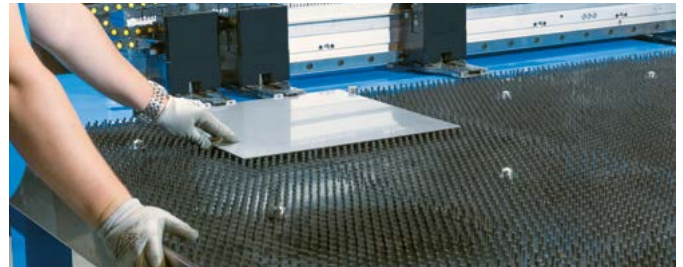
Manual loading and unloading is facilitated by a movable table top. Four loading pins for different sheet sizes ensure that even the smallest sheets can be handled close to the operator. The loading of heavy sheets is made easy with vertically moving sheet supports.

Machine is equipped with three automatic clamps. Clamp position is programmable for maximum sheet utilization.



EASY SHEET LOADING AND UNLOADING

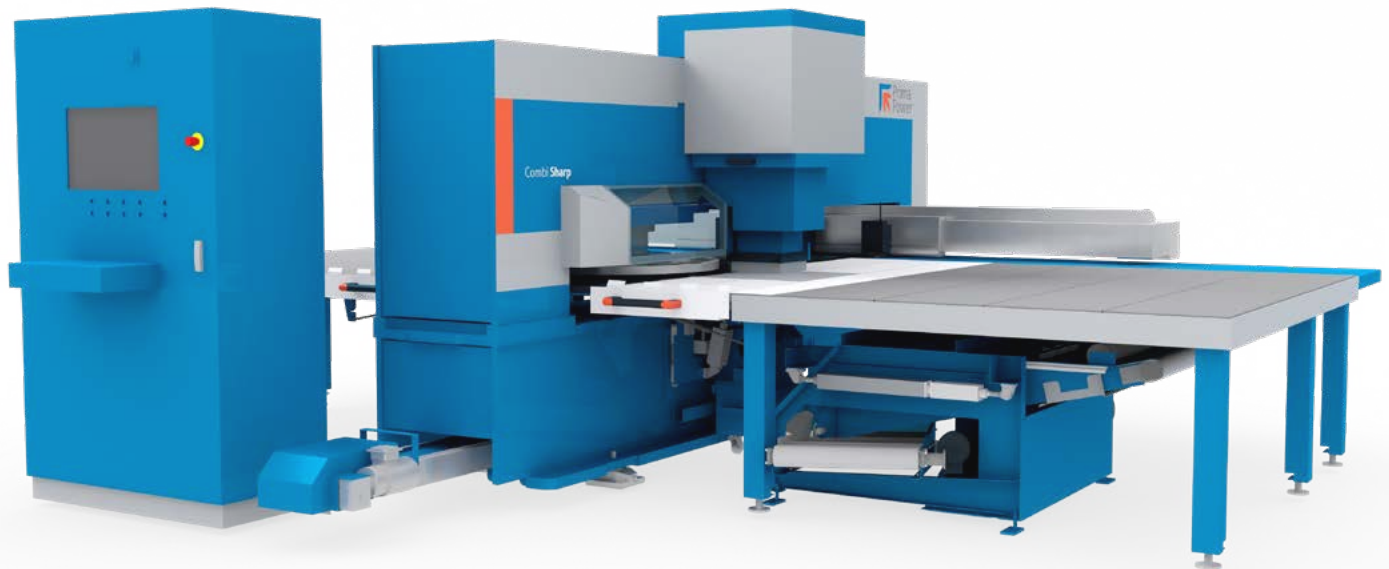
- Due to compact safety equipment the machine is easy to access. The material flow can be automated for more productive manufacturing.
- Larger sheets are positioned against the first and second loading pin.
- Smaller sheets are positioned against the third and fourth loading pin.



- Punched parts up to 500 x 500 mm are dropped through the door in front of the turret for separate sorting.
- Laser cut parts up to 500 x 500 mm (machine size 1225) or 300 x 400 mm and 800 x 800 mm (machine size 1530) are dropped through the door in the table onto conveyor below.
- Parts over 500 x 500 mm are picked from the table.
- Skeletons can be removed from either side of the machine.



MACHINE FEATURES



- 17 ton punching force as standard, 20 ton and 23 ton upgrade available as option.
- Dynamic performance provides 25 ton punching force.
- Up to 384 tools can be simultaneously available in the turret for active use.
- Turret is compatible with Amada® tools.
- Optional 3 or 4 kW fiber laser resonator available with separate coolers.
- Two sheet clamps with central locking and foot pedal.
- Optional third clamp available for better grip and support for larger sheets.
- Prima Power CNC control: PC based TwinCat motion control with Rexroth IndraDrive motors & drives.
- Touch screen operated graphical user interface; Tulus® Lite, including one year maintenance licence.



Watch the video

Explore the Prima Power Punching and Laser cutting Solutions



TECHNICAL SPECIFICATIONS

COMBI SHARP®

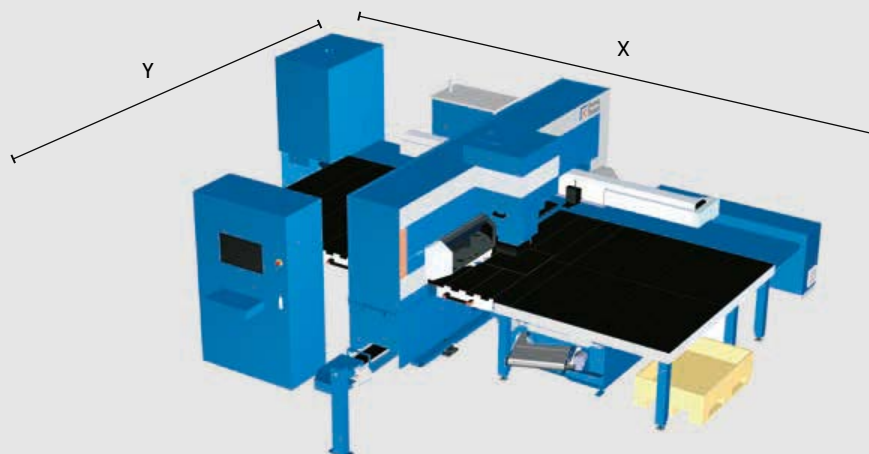
	CS 1225	CS 1530	CS 1540	
Maximum sheet size	2,530 x 1,270	3,074 x 1,565	4,300 x 1,565*	(mm)
Combined working area	1,930 x 1,250	2,500 x 1,565	2,500 x 1,565	(mm)
X movement	2,584	X2500: 2,584 X3000: 3,144	3,000	(mm)

PERFORMANCE LEVEL	Pure	Dynamic	
Punching force	170, 200 or 230	250	(kN)
Punching speed	700	900	(1/min)
Axis positioning speed	108	108	(m/min)
Index rotation speed	166	-	(r/min)
Maximum n° of tools / index tools	16 hole turret 384/128, 20 hole turret 250/80		
Fiber laser power	3 or 4 (CS 1530, CS 1540)		
Maximum sheet thickness, punch and laser	8 (Aluminium, Mild steel, Stainless steel)		
Maximum sheet weight	200		
Average power consumption	3.2 (punch) 3.5 (laser) = 6.7 (total)		

*with repositioning

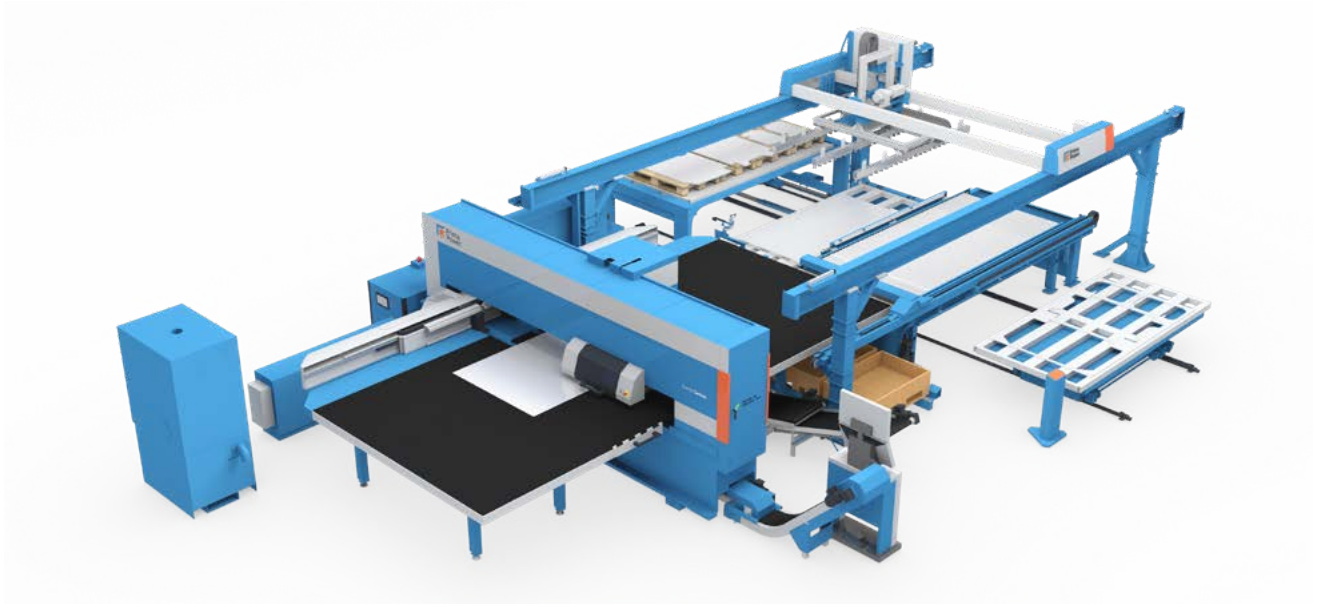
Approximate main dimensions without safety systems

CS 1225: Y 6.0 m, X 6.9 m



COMBI GENIUS®

MODULARITY TAKEN TO THE NEXT LEVEL



When the Genius series turret punch presses were designed Prima Power was listening very carefully the customers' experiences and wishes. As a result, a compact machine with a small footprint offering productivity, operation convenience and compatibility with a number of automation solutions was achieved.

A remarkable improvement was the modular construction of the machine itself. With few changes in the configuration the machine could specialize in many manufacturing needs.

The high-quality and powerful fibre laser is available with 4 kW or 6 kW resonator. Combi Genius® has all the same features as the Combi Sharp® plus additional intelligence and modularity.



INTELLIGENT RAM

- More tools in turret and shorter tool change times

TWO PERFORMANCE LEVELS



PURE

- Meets all the targets set for an attractively priced, yet efficient production machine



DYNAMIC

- Offers the best productivity and performance in the market



Visit our website

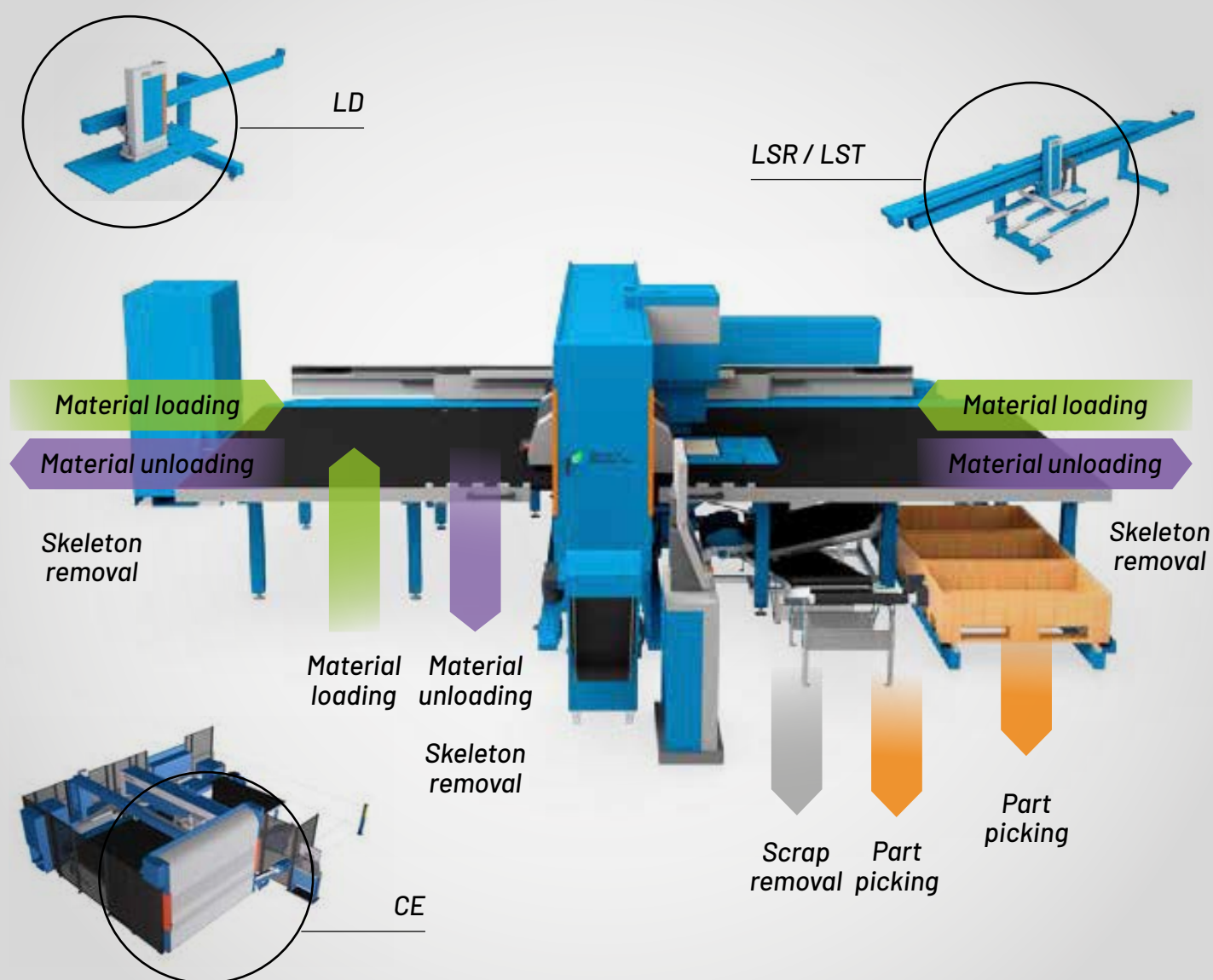
Find out more



COMBI GENIUS®

MODULARITY TAKEN TO THE NEXT LEVEL

There are multiple solutions for material handling with different level of automation.



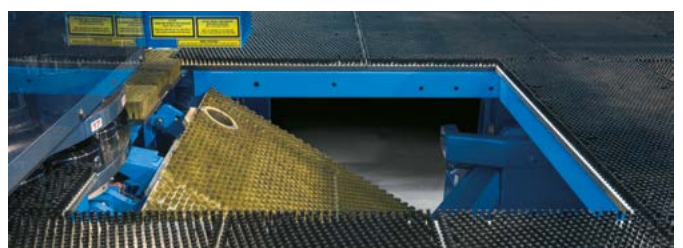
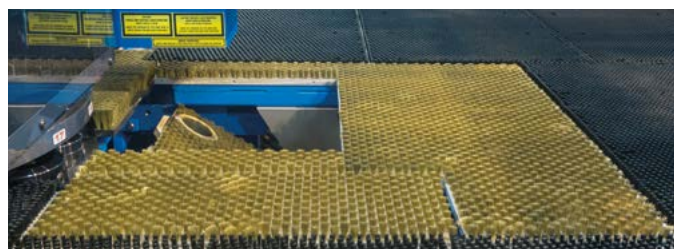
COMBI GENIUS®

MODULARITY TAKEN TO THE NEXT LEVEL



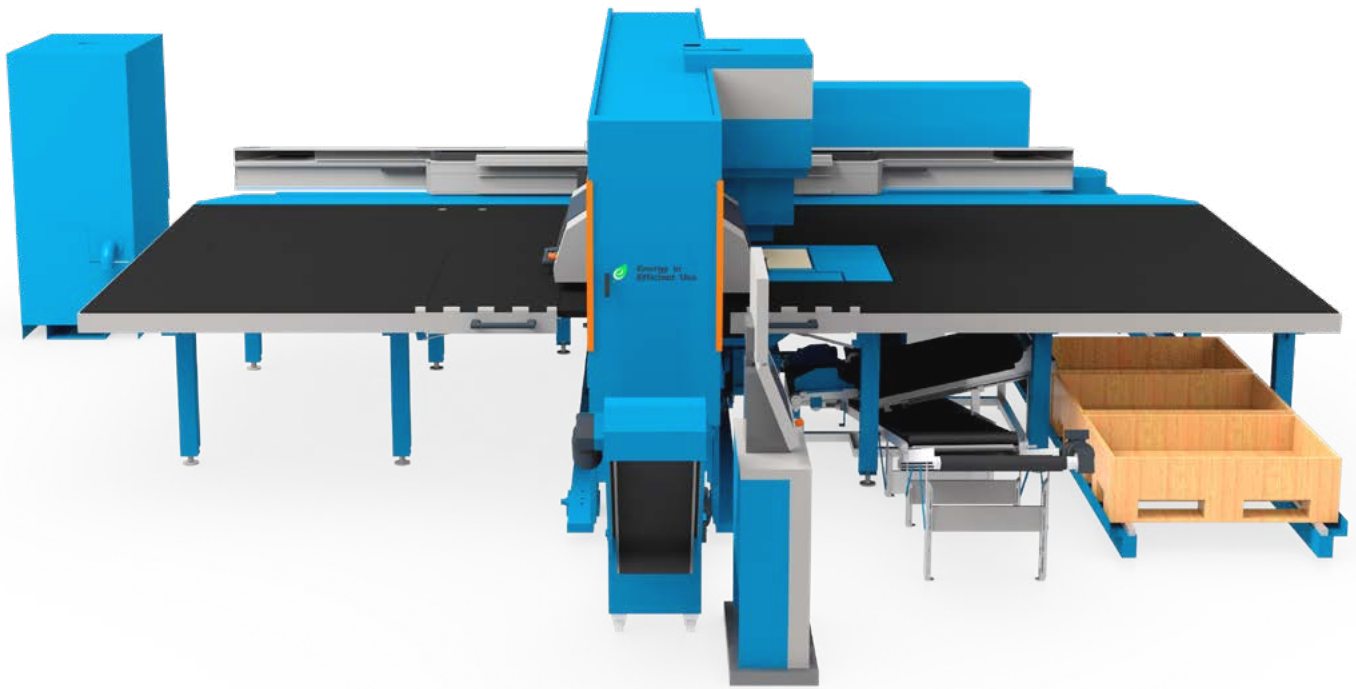
PART SORTING SOLUTIONS

Drop doors next to punching and laser cutting allow automatic part sorting. Maximum sizes to drop from punching is 500 x 500 mm. For the laser-cut parts, two drop doors are provided; 300 x 400 mm for quicker sorting and 800 x 800 mm for larger parts.



COMBI GENIUS®

MACHINE FEATURES



- 23 ton and 30 ton punching force as standard, depending on selected performance.
- Up to 400 standard or 384 index tools can be simultaneously available in the turret for active use.
- Turret is compatible with Amada® tools. 4 or 6 kW fiber laser resonator with external coolers.
- Two sheet clamps with central locking and foot pedal.
- Optional third clamp available for better grip and support for larger sheets.
- Two drop doors and conveyor for laser cut parts, conveyor for laser cut scrap.
- Prima Power CNC control: PC based TwinCat motion control with Rexroth IndraDrive motors & drives. Touch screen operated graphical user interface; Tulus® Lite, including one year maintenance licence.

TECHNICAL SPECIFICATIONS

COMBI GENIUS®

	CG 1530	CG 1540	
Maximum sheet size	3,000 x 1,500	4,300 x 1,500*	(mm)
Punch & laser combined working area	2,500 x 1,565	2,500 x 1,565	(mm)
X movement	3,000	3,000	(mm)
Table height	935 / 1,100	1,100	(mm)

PERFORMANCE LEVEL	Pure	Dynamic	
Punching force	230	300	(kN)
Punching speed	700	1,000	(1/min)
X axis 3000 mm, max. positioning speed	127 (5000"/min)	150 (5900"/min)	(m/min)
Index rotation speed	180	250	(r/min)

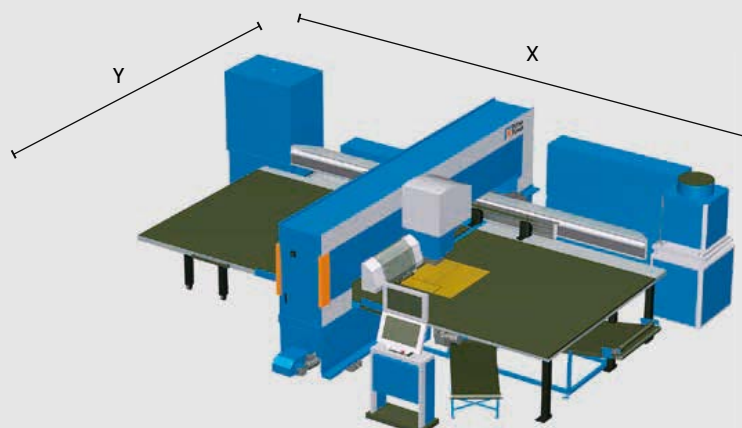
Maximum n° of tools / index tools	16 hole turret 384/384, 20 hole turret 400/128		
Laser power	3 / 4 / 6		(kW)
Maximum sheet thickness, punch and laser	8 (Aluminium, Mild steel, Stainless steel)		(mm)
Maximum sheet weight	250		(kg)
Average power consumption	11		(KW)

*with repositioning

Approximate main dimensions without safety systems

CG 1530: Y 6.0 m, X 8.6 m

CG 1540: Y 6.0 m, X 9.4 m



VERSATILE TOOLING AND FEATURES

LARGE TOOLING CAPACITY

The large number of tools with Prima Power punching machines results from a set of technical features which is not available from any other manufacturer:

- Multi-Tools®
- Rotating Auto-Index system
- Intelligent ram

With a carefully designed turret, Prima Power customer can make things happen easier and faster:

- with max. 400 tools in the turret, there is less need to stop the machine for re-tooling
- easier programming; a tool needed to make a part is in the turret
- better usage of the sheet as parts can be nested freely when the tools rotate.



Visit our website

Explore the Prima Power
Punching and Laser cutting
Solutions



VERSATILE TOOLING AND FEATURES

LARGE TOOLING CAPACITY

FORMING, TAPPING, MARKING MORE VALUE TO PARTS

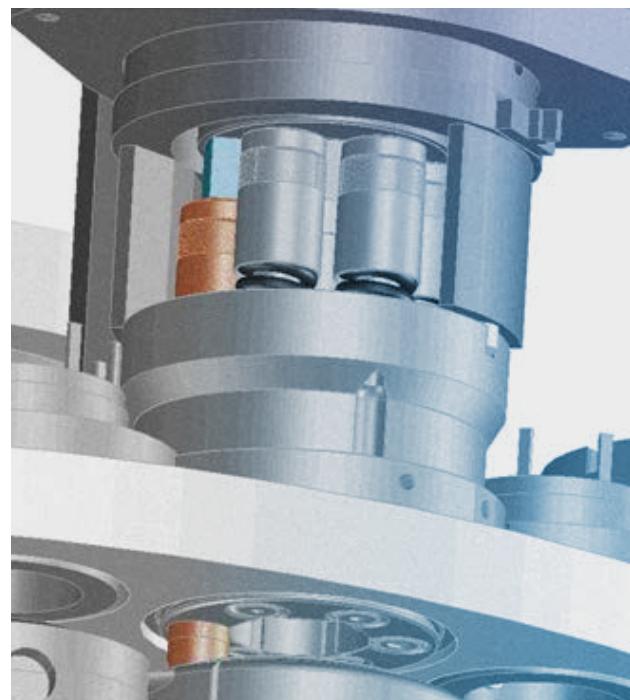
Prima Power's servo-electric Ecopunch® technology offers several highly productive tools in a single machine.

Automatic tapping can be achieved with Multithread tapping tool.

Prima Power options include part tracing systems from labelling to laser marking.

INTELLIGENT RAM

- Intelligent ram is an option for Genius series punching to shorten tool change time and increase the number of tools in turret and especially that of index tools.
- Intelligent ram includes a rotating ram head, which enables old Multi-Tool® types to be used as indexable.
Also new Multi-Tool® innovations such as 4B can be used with the Intelligent ram.



Watch the video

Explore the Prima Power Punching and Laser cutting Solutions



Wheel tool



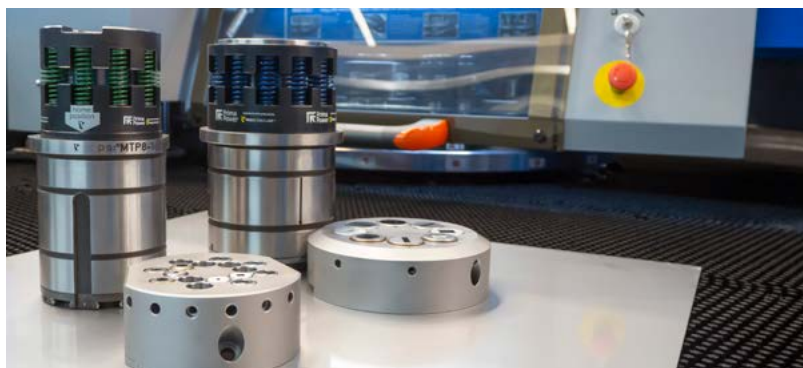
Multithread tapping



Laser marking



Intelligent ram



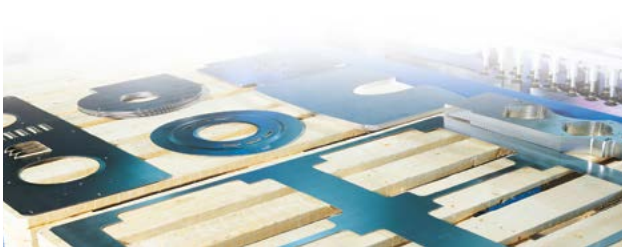
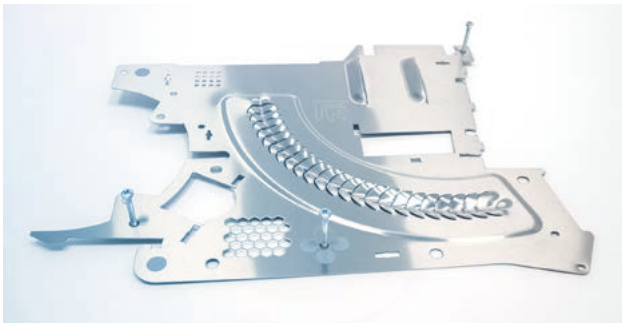
RELIABLE LASER CUTTING AND ROBOTIZED PART SORTING

The optimized cutting head, collimator, delivery fibre and cutting parameters guarantee the highest cutting quality and speed in the market for the Prima Power combi machine. The high-quality and powerful fibre laser is available up to 6 kW resonators.

Combi machines include many safety systems to improve cutting performance and reliability. Laser process monitor follows the cutting process and restarts it if necessary.

For the laser-cut parts drop doors are provided as standard. Also optional automated picking and stacking solution available. This way we provide a reliable laser part picking and stacking solution with a gentle touch for sensitive materials.

Brushes on the work chute to prevent scratches.



Cutting performance

IPG	YLS3000	YLS4000	YLR6000	
Mild steel	8	8	8	(mm)
Stainless steel	6	8	8	(mm)
Aluminium	6	8	8	(mm)
Brass	6	8	8	(mm)
Copper	6	8	8	(mm)

MATERIAL HANDLING AND AUTOMATION

LEVEL UP YOUR PRODUCTION FLOW
WITH OUR EFFICIENT AUTOMATION SOLUTIONS

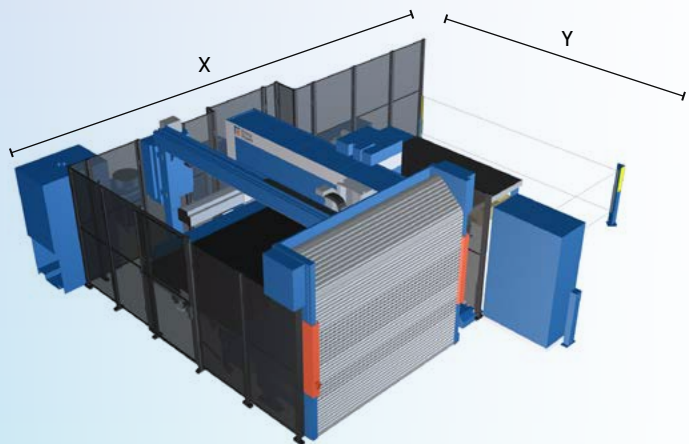
Compact Express

- Fully automated device for sheet loading and unloading
- Sheet holder for scratch-free unloading
- Machine can be operated with simultaneous manual and automated material handling
- Sheets can be added and removed while the machine operates
- Remote controlled safety door for easy material handling with a forklift
- Compact size, does not increase required floor space much more from that of the machine
- Two models for 2.5 m and 3 m sheets

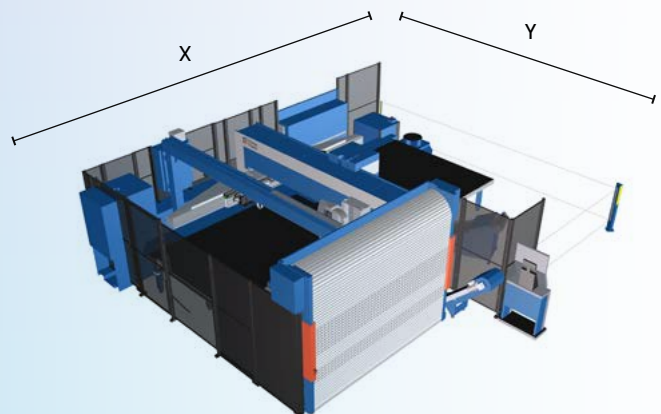
UDC - Unloading Device for Sheets

- Removes skeletons with micro-jointed parts from the machine table
- Can be used with the machine or integrated to Compact Express

Combi Sharp with Compact Express
CS 1225+CE: X 8.4 m, Y 8.6 m



Combi Genius with Compact Express
CG 1530+CE: X 9.5 m, Y 7.3 m

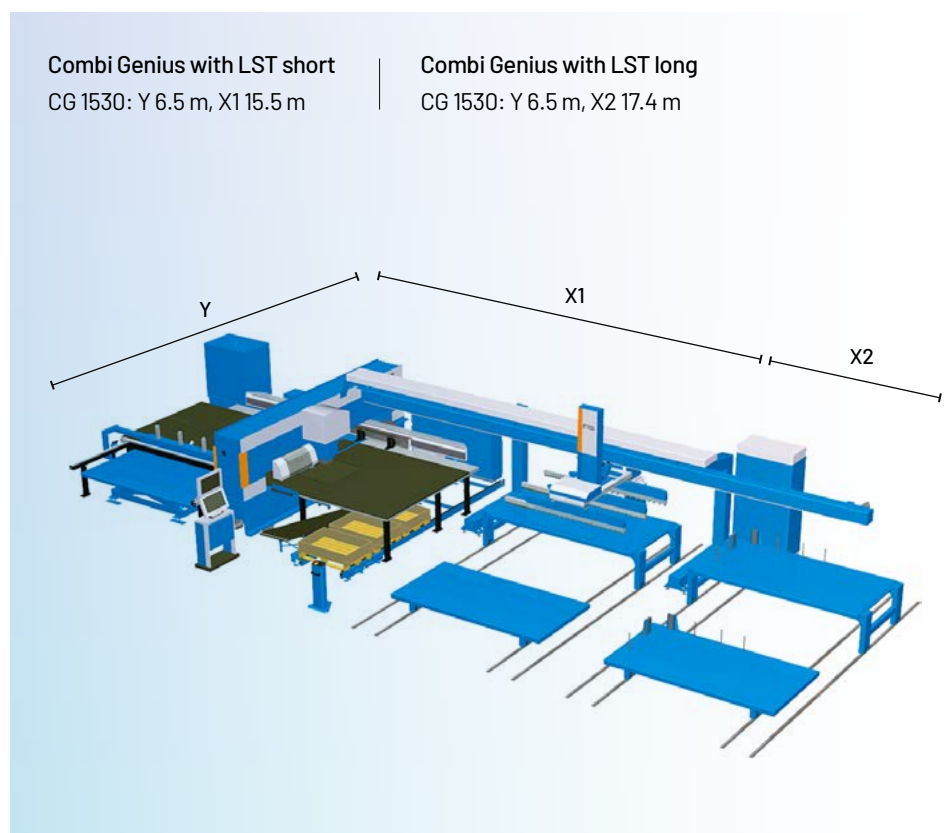


MATERIAL HANDLING AND AUTOMATION

LEVEL UP YOUR PRODUCTION FLOW
WITH OUR EFFICIENT AUTOMATION SOLUTIONS

LST - Loading and Stacking System for Automated Material Handling

- Compact high-performance automatic loading and stacking robot
- LST loads the sheets into the machine, picks the parts and sorts them to stacks
- Parts are picked up in front of the turret or from the cutting head by a pneumatic gripper
- Skeletons are removed by the unloading device
- UDC integrated to machine table
- Two main frame lengths with different number of table or wagon positions
- Fully compatible with all our other automation systems



MATERIAL HANDLING AND AUTOMATION

LEVEL UP YOUR PRODUCTION FLOW
WITH OUR EFFICIENT AUTOMATION SOLUTIONS

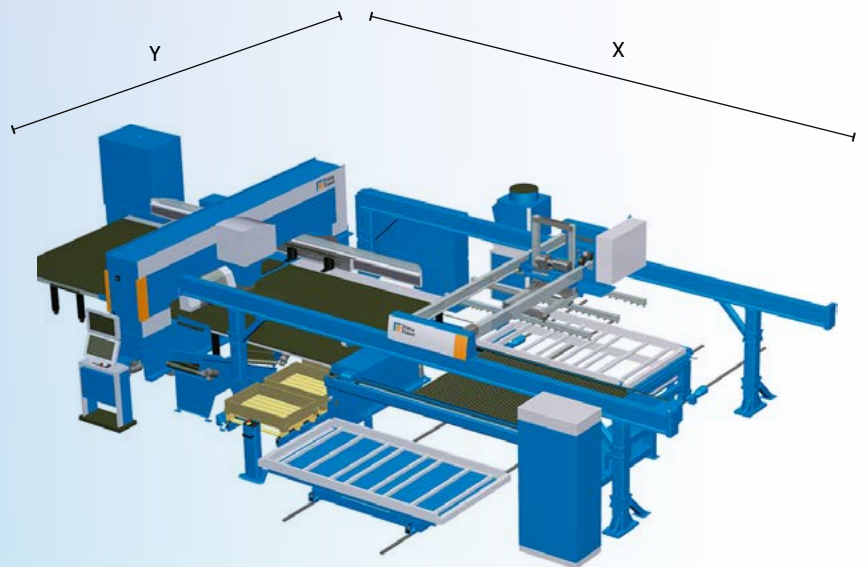
LSR - Loading and Stacking Robot for Automatic Material Loading and Part Sorting

- Loads sheets to the machine and stacks finished work pieces onto pallets. Due to the servo drive motion system the stacking is extremely accurate
- LSR is available in two sizes for 3.0 m and 4.3 m sheet lengths and two main frame lengths with different number of table or wagon positions

SU - Sorting Unit for Small Components

- A device that moves three EUR pallets to programmed positions under machine table
- The unit is used to sort parts coming from the work chute of the machine directly to pallets
- Perfect low-cost solution for automatic small part sorting

Combi Genius with LSR
CG 1530: Y 9.2 m, X 14.6 m
CG 1540: Y 9.2 m, X 18.5 m

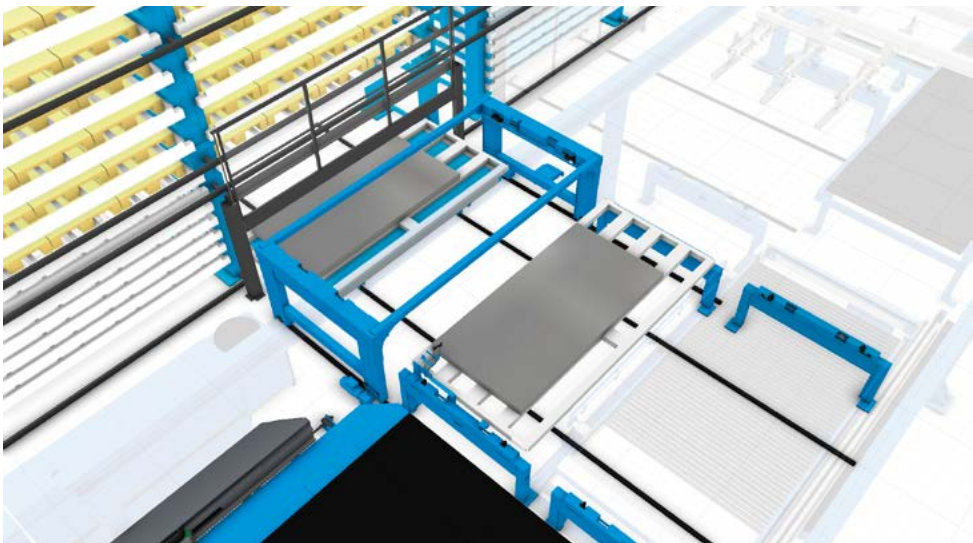


MATERIAL HANDLING AND AUTOMATION

LEVEL UP YOUR PRODUCTION FLOW
WITH OUR EFFICIENT AUTOMATION SOLUTIONS

Night Train Connection

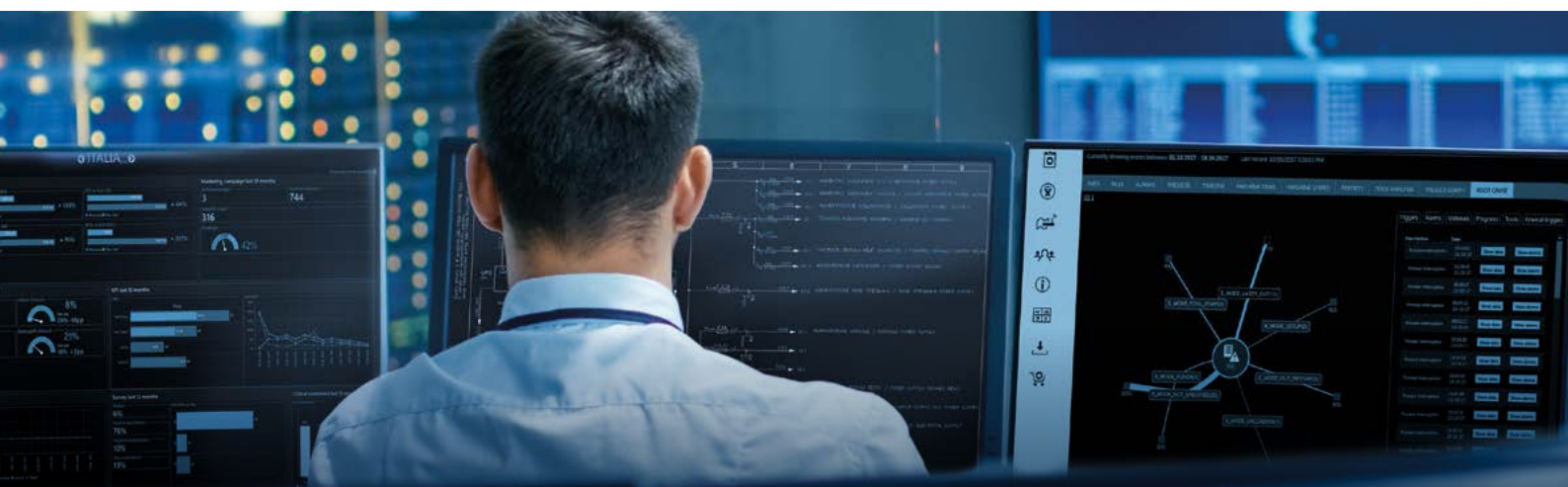
- With LST and LSR Combi Genius can be connected to flexible manufacturing system for continuous unmanned production



	SORT	UNLOAD	LOAD / UNLOAD	SORT	LOAD / UNLOAD SORT	FMS	LD
	SU	UDC	COMPACT EXPRESS	LST	LSR	NIGHT TRAIN CONNECTION	LD
COMBI SHARP 1225	•	•	•	•			
COMBI SHARP 1530	•	•	•	•			•
COMBI SHARP 1540	•	•					•
COMBI GENIUS 1530	•	•	•	•	•	•	•
COMBI GENIUS 1540	•	•			•	•	•

SOFTWARE

LEVEL UP YOUR PRODUCTIVITY
WITH OUR DIGITAL ECOSYSTEM



- 1 One **comprehensive ecosystem** for the entire production flow.
- 2 **Improved profitability** with optimized material management and data-driven process and maintenance.
- 3 **Empower your team** with enhanced programming capabilities combined with intuitive interfaces.

Always be in control of your system, regardless of the technology, with Prima Power's complete suite of machine user interface software.

From controlling machine operations, tools, parameters, and production orders to the stacking of finished parts, all available directly on-board with an intuitive touch-screen interface.



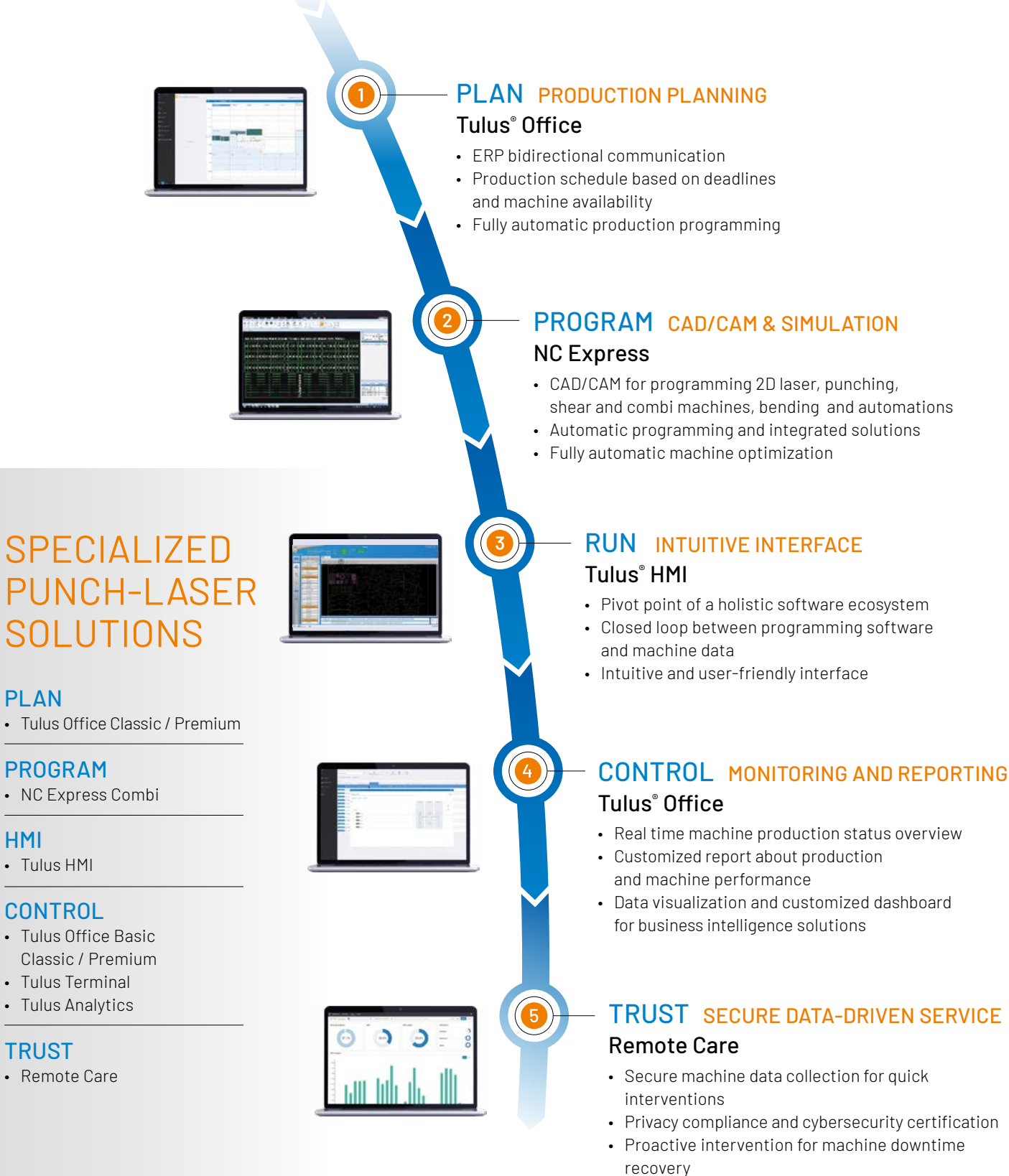
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Learn more about the
Prima Power Software



ALL IN ONE

CONTINUOUS AND INTEGRATED PRODUCTION FLOW



LIFE-CYCLE SUPPORT



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CUSTOMER-FOCUSED APPROACH THAT
TARGETS YOUR PRODUCTIVITY CHALLENGES

ANALYZE & ADVISE

- PROCESS ANALYSIS
- FEASIBILITY AND CYCLE TIME STUDY
- PRODUCTION FLOW SIMULATION
- FACTORY AND ERP INTEGRATION ANALYSIS
- MODULAR SOLUTION SELECTION

SET-UP & TRAIN

- SOLUTION SETUP
- PRODUCTION START-UP
- TRAINING
- PROCESS OPTIMIZATION
- PRODUCTION RAMP-UP



EVOLVE & INTEGRATE

- SOLUTION UPGRADE AND SCALE-UP
- SOFTWARE UPGRADE
- REFURBISHMENT
- PRIMA POWER ACADEMY
- RELOCATION

ASSIST & MAINTAIN

- PREVENTIVE MAINTENANCE
- SERVICE AGREEMENTS
- IN-FIELD, PHONE & REMOTE SUPPORT
- SPARE PARTS & TOOLS
- SPECIALIZED TECH SUPPORT



PRIMA POWER'S GLOBAL PRESENCE

WORLDWIDE CUSTOMER-FOCUSED APPROACH

Prima Power's global presence embodies its **dynamic approach and unwavering focus on customers**. With a widespread industrial and sales and service footprint, the company strategically positions itself where it's needed most.

A connection rooted in decades of knowledge and expertise enables Prima Power to truly **understand and support the unique needs of each market and industry**.

 Prima Power IS A BRAND OF **PRIMA INDUSTRIE GROUP**

~400 SERVICE ENGINEERS

15,000+ INSTALLED MACHINES

7 R&D AND PRODUCTION PLANTS

1,900 PEOPLE

550+ MIO € REVENUES

SEMEA

- 1 HEADQUARTERS
- 4 PLANTS
- 2 TECH CENTERS

 PLANT AND R&D CENTER

NORTH EUROPE

- 1 PLANT
- 2 TECH CENTERS

AMERICAS

- 1 PLANT
- 2 TECH CENTERS

APAC

- 1 PLANT
- 1 TECH CENTER



**Find out where
we are
closest to you**

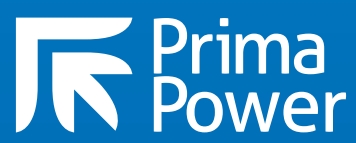


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with our activities**





2D & 3D LASER CUTTING | BENDING | PUNCHING & SHEARING | AUTOMATION | SOFTWARE | FMS

Partner with the knowledge and dynamism of Prima Power. *Evolve by integration*