

MARKING SYSTEM - INTEGRATION

DOT PEEN MARKER · SCRIBE MARKER



YOUR SPECIALIST FOR PERMANENT MARKING

ABOUT US

We are the specialists when it comes to forgery-proof, permanent and economical marking of industrial workpieces. Traceability is ensured with our equipment.

For more than 35 years we have been developing and manufacturing high-quality systems for dot peen or scribe marking as well as impact punch tools, which we assemble from a comprehensive modular system.

Our quality standards meet the highest demands: From the thorough consultation in advance to the finished marking system, we attach great importance to the greatest care.

Through constant contact with our customers and their applications, we secure the decisive knowledge advantage for product optimization and innovations within our product range.

A solid carbide pin is made to oscillate by pneumatic or electrical means. It is moved by two traversing slides in x and y direction and pushed into the material by an up and down movement. Due to the marking by individual, adjacent points, the force effect on the Material is very low.

DOT PEEN MARKING



SCRIBE MARKING

The marking pin is pressed into the workpiece. Thus the pneumatically fed scribing pin made of solid carbide or industrial diamond is moved via two traversing slides in x and y direction with low force. The highest marking qualities are achieved at maximum processing speeds. The system is suitable for almost all materials and is low-noise.

CENTRAL UNITS

THE BESTSELLER – MV5 ZE 101 XL

SOFTWARE

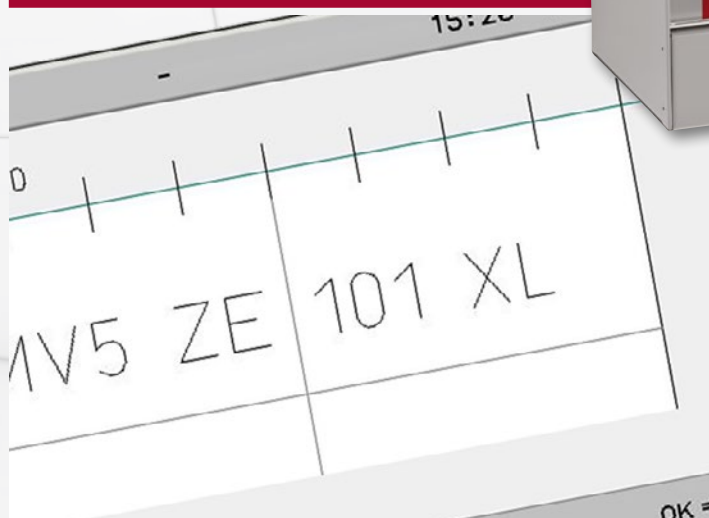
- Clearly designed user interface
- Little programming knowledge required
- Highly energy efficient
- Numerous language versions (selectable)
- Different password levels available
- Diagnostic function
- Preview function

HARDWARE

- Small size, network compatible
- Powerful processor technology
- Operating voltage range: 90 - 264 VAC
- Wall mounting (19" on request)
- Large internal memory
- Capacitive keyboard
- USB-A / USB-B / RJ45
- IP54

OPTIONS

- Digital inputs/outputs
- Ethernet TCP/IP (Rockwell)
- PROFINET CU/LWL
- PROFIBUS
- External power supply
- Function blocks
- Safety relay module
- SPRINT plus (Increase of the marking speed)



For complex applications with more interfaces:
MV5 ZE 401 XL



Option: SPRINT plus 2 (Increase of the marking speed)

DOT PEEN MARKING

MODULAR SYSTEM

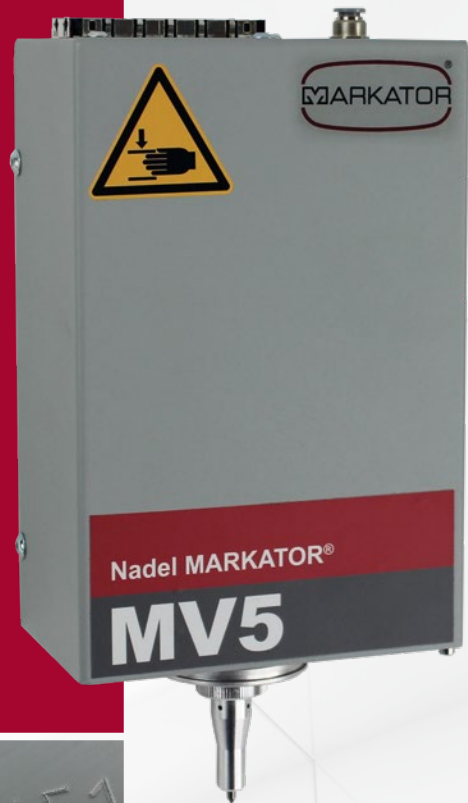
- Maintenance-free mechanics and tools
- High functionality through combination with various control systems
- Space-saving installation
- Practical accessories for integration applications

RELIABLE

- High rigidity due to high-quality linear guides (double guided)
- Especially high marking qualities
- Precise and distortion-free marking image (well suited for Data Matrix Codes)
- High repetition accuracy
- Designed for 3-shift operation in the industrial sector

POWERFUL

- Fast marking times
- Oscillating marking pin for clean line markings
- High impact strength through pneumatic marking tool



Data Matrix Code



Single point font



Line font

Discover also our INTEGRAL marking heads

- **ALL-IN-ONE:** Control unit integrated in the housing
- Operation without compressed air with electromagnetic magnet
- Network-compatible
- Optional with integrated display

Further information on request



Can be integrated into any production, such as

- Test facilities
- Robot applications
- Applications with low space requirements
- Mechanical engineering

Options

- Additional magnetic valve
For maximum marking depth
- Manual height adjustment
Quick and precise adjustment of the pin distance to the material
- Pneumatic Z-axis
Adjustment of the marking head to the component (stroke from 100mm)



MV5 U50/25

MV5 U80/25

MV5 U120/25

	50 x 25	80 x 25	120 x 25
Marking area (mm, x/y) *			
	Y-travel with 45 mm available		
Dimensions (LxWxH)	ca. 131 x 80 x 341	ca. 176 x 80 x 341	ca. 256 x 80 x 341
Weight (kg)	ca. 2,5	ca. 2,8	ca. 3,0
Character heights	From 1.0 mm continuously adjustable in 1/10 steps		
Characters	Large and small alphabet with umlauts, numbers 0 to 9, special characters		
Fonts	Similar to DIN 1451, other fonts on request		
Resolution of stepper motors	0.0125 mm for extremely high marking qualities		
Protective cover	kevlar, rubber	kevlar, rubber, leather	-
Mounting position	Independent of position, 360		

*further marking areas on request

SCRIBE MARKING



COMPACT

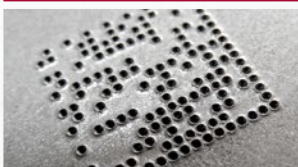
- Extremely compact marking head
- Weight-optimized construction
- Deep and distortion-free marking

FUNCTIONAL

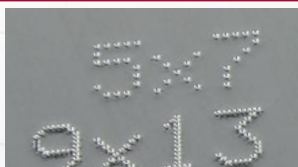
- Many marking areas available
- High-precision marking image (ideal for Data Matrix Codes)
- Kevlar protective cover for use in harsh environments
- Low-noise marking through optimized scribe technology
- Designed for 3-shift operation in the industrial sector

FAST

- Low air consumption
- Increasing the marking speed with option SPRINT plus / SPRINT plus 2



Data Matrix Code



Single point font



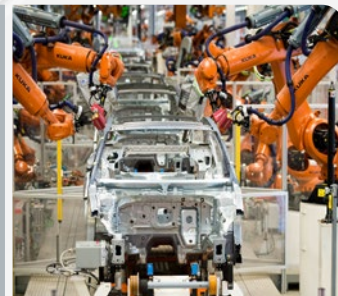
Line font

Can be integrated into any production, such as

- Body shop
- Robot applications
- Applications with short cycle times
- Mechanical engineering

Options

- Multi-scribe marking stylus
Double marking tool (scribing characters, embossing Data Matrix Code)
- Manual height adjustment
Quick and precise adjustment of the pin distance to the material
- Pneumatic Z-axis
Adjustment of the marking head to the component (stroke from 100mm)



MV5 VU2 80/50

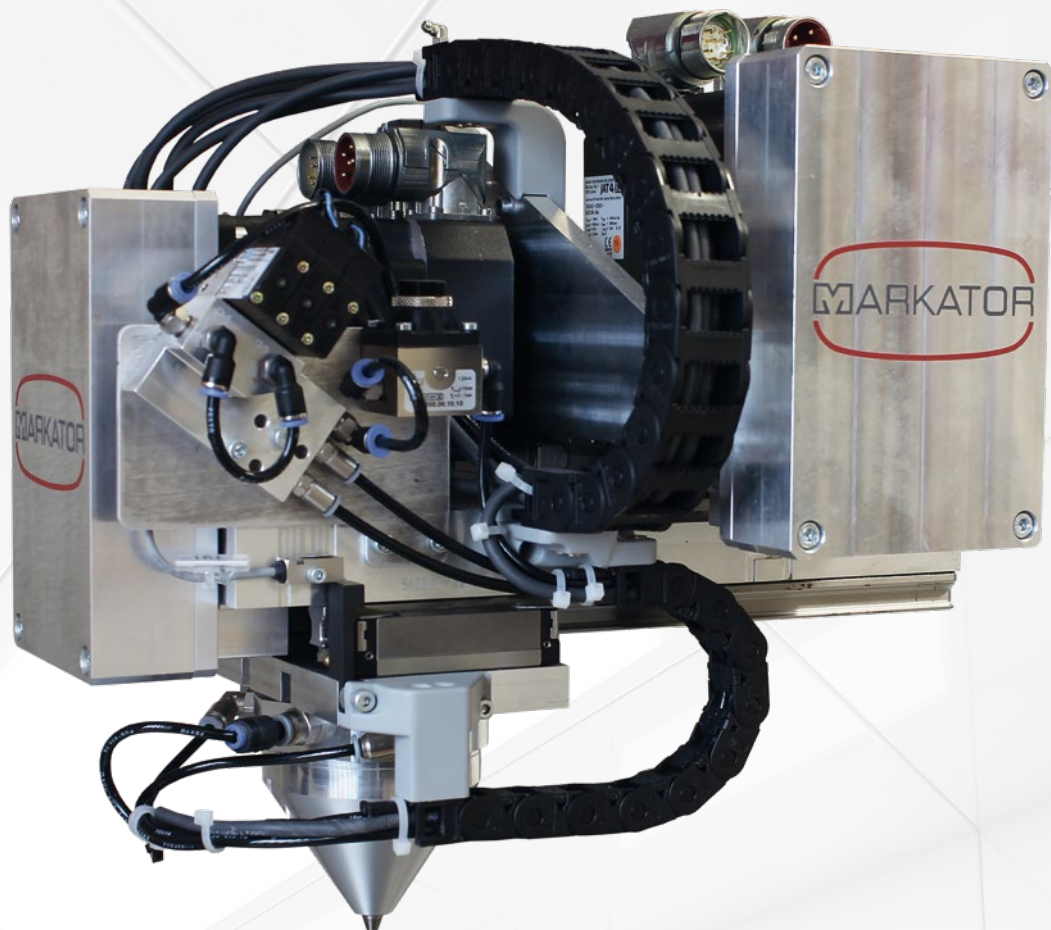
MV5 VU2 80/50 SPRINT plus

MV5 VU2 80/50 SPRINT plus 2

Marking area (mm, x/y) *	80 x 50	80 x 50	80 x 50
Dimensions (LxWxH)	ca. 183 x 133 x 399	ca. 183 x 133 x 399	ca. 183 x 133 x 399
Weight (kg)	ca. 6,7	ca. 6,7	ca. 6,7
Character heights	From 1.0 mm continuously adjustable in 1/10 steps		
Characters	Large and small alphabet with umlauts, numbers 0 to 9, special characters		
Fonts	Similar to DIN 1451, other fonts on request		
Resolution of stepper motors	0.0125 mm for extremely high marking qualities		
Protective cover	•	•	•
Position control	•	•	•
Marking speed	Up to 4 characters/second	Up to 6 characters/second	Up to 8 characters/second
Central control unit version	MV5 ZE 101 XL or MV5 ZE 401 XL	MV5 ZE 101 XL SPRINT plus or MV5 ZE 401 XL SPRINT plus	MV5 ZE 401 XL SPRINT plus 2
Mounting position	Independent of position, 360°		

*further marking areas: 80x100 mm | 160x50 mm | 160x100 mm

DEEP SCRIBE MARKING



POWER PACK

- Deep scribe marking
- Specially designed for vehicle identification numbers
- Highest repeat accuracy

PROCESS SAFE

- Position feedback by servo motors
- State diagnosis marking tool
- Tool cooling during the scribing process for optimum wear behavior

ROBUST

- Designed for 3-shift operation in the industrial sector

Program option soft touch

- Gentle placement of the diamond scribe marking pin on a component to reduce pin wear and noise level during marking.

Program option air cooling

- Cooling of the scribe marking pin during marking by air stream.

Program option writeLOG/searchstring

- With this option, parameters (marking data) can be written into a local log file preceded by a timestamp.
- The data can be stored and managed on a PC via USB device



MV54 SPRINT

Marking area (mm, x/y) *	160 x 60
Dimensions (LxWxH)	ca. 254 x 246 x 337
Weight (kg)	ca. 18,5
Character heights	From 1.0 mm continuously adjustable in 1/10 steps
Characters	Large and small alphabet with umlauts, numbers 0 to 9, special characters
Fonts	Similar to DIN 1451, other fonts on request
Resolution of stepper motors	0.0125 mm for extremely high marking qualities
Communication cards (optional)	PROFINET CU/LWL, PROFIBUS, Ethernet TCP/IP (Rockwell)
Position feedback	•
Position control	•
Mounting position	Independent of position, 360°

OTHER PRODUCTS

DISCOVER ALSO OUR **minis**



FlyMarker® mini 65/30

- Marking area 65 x 30 mm (x/y)
- Only 2.4 kg (incl. battery)
- Compact
- Ergonomic



FlyMarker® mini 85/45 *plus*

- Marking area 85 x 45 mm (x/y) (optional: 120 x 45 mm)
- Extra strong magnet (optional)
- Very stable guiding system
- Integrated laser pointer



FlyMarker® mini STATION 120/100

- Marking area 120 x 100 mm (x/y)
- Capacitive touch screen (optional)
- Illuminated marking area
- Electromagnetic pin drive

SERVICE



Maintenance services

Maintenance services with extended warranty
For 1-3 shift operation from 2 to 5 years running time



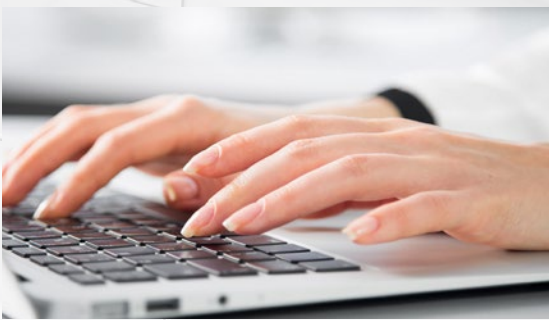
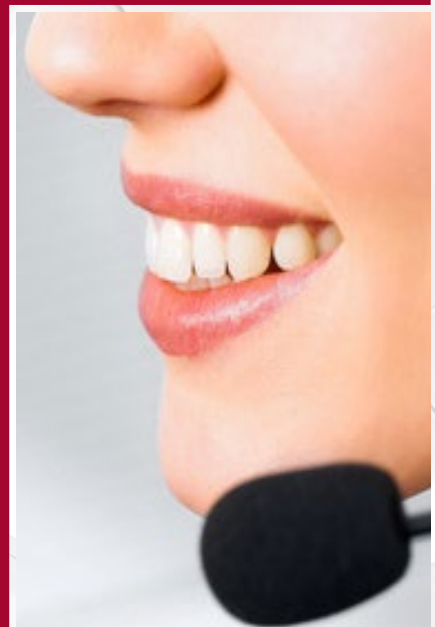
Trainings

At company MARKATOR or at the customer
Maintenance staff
Users and programmers



Application and programming service

Support and advice
Error search and error correction in hardware and software
Service via hotline



MV5-products

Phone: +49 (0) 7144/85 75 - 40
e-mail: service@markator.de

Spare parts / repairs

Phone: +49 (0) 7144/85 75 - 93
e-mail: spare-parts@markator.de



WORLDWIDE REPRESENTATIONS

M A R K A T O R . C O M

MARKATOR®
Manfred Borries GmbH

Bunsenstraße 15
71642 Ludwigsburg
Germany

Phone +49 (0) 7144 - 8575 - 0
Fax +49 (0) 7144 - 8575 - 600

info@markator.de
www.markator.de

