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Marking Machines

Why do components have to be marked?

Designating, coding, identifying, marking – our company providing information like this would not exist without the need for numbers, letters, codes and combinations of these, and without such meaningful identification there would be chaos everywhere.



Scribing

This applies both for products of our everyday life as well as for industrial goods.

Why are products marked?

- 1. Organization in manufacturing
- 2. Quality assurance / ISO 9000 / CE symbol
- 3. Product liability
- 4. Protection against plagiarism





Dot-peening



ataMatrix cod



Stylus-/ Scribe Marking Technology

Your higher-level control system

Standard EK- and EG-Box: Ethernet, RS232/RS422 Optional EK- and EG-Box: Profibus-DP; Profinet-IO; 24 I/O; DeviceNet; Ethernet IP











Built in Units

Workshop Units

Handheld Units

Readers & Scanners for DPM



Our team focusses on developing innovative DataMatrix, QR-Code and 1D Barcode and OCR readers. Our 2D code and ID systems guarantee seamless traceability and optimisation of production processes.

Our technical expertise and many years of experience for scanning directly marked codes on all materials and surfaces has given IOSS an excellent reputation as a manufacturer of ID systems.

In addition to standard scanning systems, our product range contains code readers specially developed for directly marked DataMatrix, QR code, barcodes and OCR script. Our systems are used in the automotive industry, automation applications, in the solar, electronics and semiconductor industries and also in the pharmaceutical and medical technology sectors.



DMR220

DataMatrix Reader Automotive



DMR310

Code Reader Solar



DMR210

Code Reader SEMI



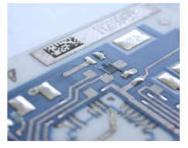
DMH100



DMH200



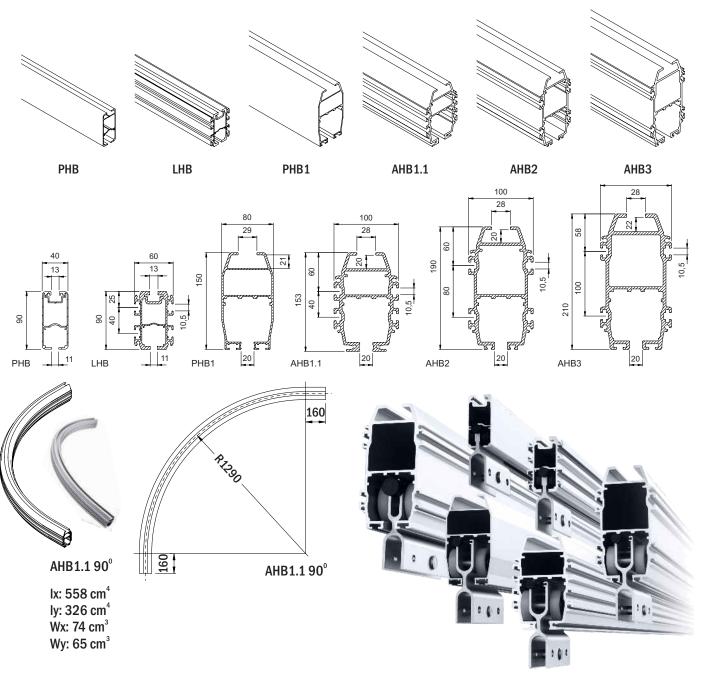






DPM Reader Medical Tools

Overhead Rail Systems



Installation examples



Air Hoists & Air Balancers

PRO-AIR UNITS - 3 MODELS P-03, P-06 & P-12

BAL-TROL® IS THE COST EFFECTIVE SOLUTION FOR WORKPLACE LIFTING INJURIES.

Two mounting styles: Horizontal and Vertical

- · For all repetitive lifting applications
- Made to order travels from 1 foot to 30 feet or more
- · Stock sizes available
- Smallest, most compact Bal-Trol
- Same lifting capacity as M&F models
- · Simple to operate
- It contains no expensive electronic components or computer parts to fail, overheat, have moisture damage or require reprogramming

LOAD CAPACITY					
RATIO	P-03	P-06	P-12		
	80 PSI	80 PSI	80 PSI		
8:1	18 Kgs	34 Kgs	68 Kgs		
6:1	27 Kgs	45 Kgs	91 Kgs		
4:1	36 Kgs	57 Kgs	136 Kgs		

Examples:

Model - PH12/6-7-H

Pro-Air, Horizontal Mtg., 91 kgs cap., 7' travel, speed handle control

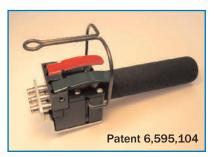
Model - PH06/8-4-SL

Pro-Air, Horizontal Mtg., 34 kgs cap., 4' travel, Slim-line

Sensi-touch control

Model - PV03/6-6-B

Pro-Air, Horizontal Mtg., 27 kgs cap., 6' travel, balance control





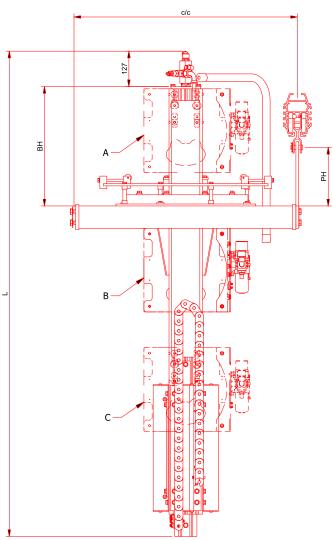


BALANCER WITH HIGH RELIEF REGULATOR

Patent No. 7,798,472

Manipulators





Technical specification Mechlift Pro 100

Technical data	Mechlift Pro 100	
Max load 1	100 kg	
Max torque	500 Nm	
Stroke SL	500-1500 mm	
Length	SL+740 mm	
Tare weight ²	57-127 kg	
Noice level	<70 dB (A)	
Suspension height PH	50-490 mm	

 $^{\scriptscriptstyle 1}$ With parallelogram: 70 kg

Technical data	Mechlift Pro 100	
Lifting speed	0-40 m/min	
Rotation ³	0-310° (360°)	
Media ⁴	Air, non-lubricated, 40 μm	
Air consumption	18,7 I_n/m_{SL} (at 6 bar)	
Work pressure	5,5-7 bar	
Work temperature	5-40 °C (indoor use)	

 $^{^{\}scriptscriptstyle 3}$ 360° by removal of rotation stops

² Depends on configuration

 $^{^{4}}$ To Mechlift Pro: 0,3 $\mu m\colon FRL$ unit is included

Manipulators



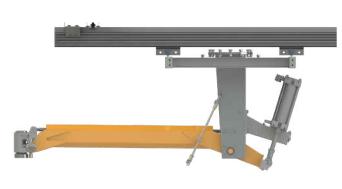
Mechspace Pro 70



Mechspace Pro 150P



Mechspace Pro 70P



Mechspace Pro 150

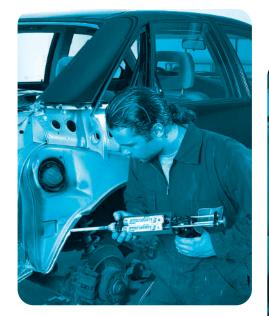
Overview Mechspace Pro 70/70P/150/150P

	70 / 70P	150 /150P
kg	70	150
Nm	500	1500
mm	900	1250
kg	100 /195	200 / 330
I _n /cycle	8	16
bar	5 (4-7)	6 (5-7)
	Nm mm kg I _n /cycle	kg 70 Nm 500 mm 900 kg 100 /195 I _n /cycle 8

	Mechspace Pro		
Media	air, non-lubr. (40 µm)		
Noice level	<70 dB (A)		
Work temperature	5-40°C (indoor use)		

 $^{^{2}}$ To MS Pro: 0,01 $\mu m,\, FRL$ unit is included

Sealer/Adhesive **Dispensing Applicators**

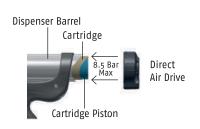


Automotive Applications





Airflow 3





Cartridge

- · Low medium viscosity
- Compact applicators ideal for tight spaces
 6.8 bar (100 psi) regulator









310 ml 400 ml 1.5 kN

1.5 kN 770 g



Airflow 3 Sachet

- · Low medium viscosiy
- For larger volume material up to 600 ml
- · Floating plunger assembly relatively small waste of material

 6.8 bar (100 psi) regulator
- (others are available)







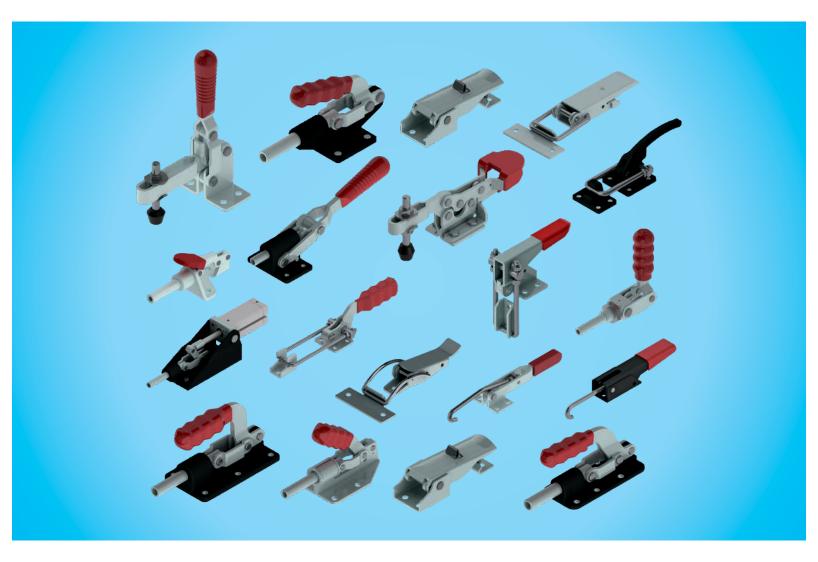




780 g 310 ml 1.5 kN 400 ml 1.5 kN 800 g 600 ml 1.5 kN 820 g

Toggle Clamps & Clamping Solutions

Toggle Clamps
Latches
Leveling Pads
Pneumatic Clamps
Swing Clamps
Fixture Elements



Steel-Smith is one of the largest manufacturers of Innovative Toggle Clamps, Pneumatic clamps, Latches and Clamping Elements for all industry applications.

More than 800 different types of our clamps are delivered worldwide.

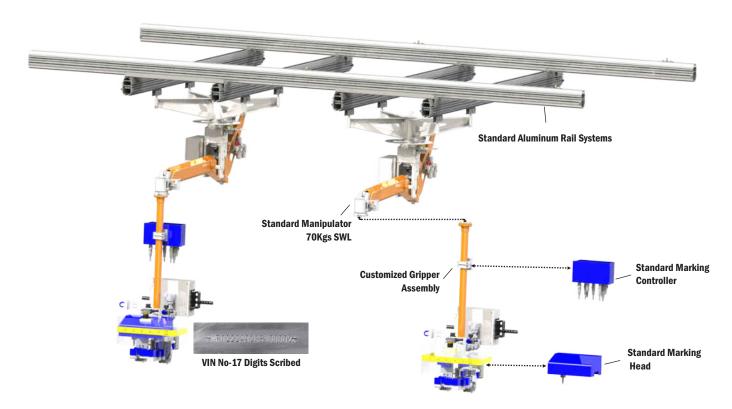
Nexus Pneumatics Pvt Ltd is your information centre and contact.

Steel-Smith clamps are well known for their excellent quality, high safety in use and flexible service.

Customized Marking Machines

Customized VIN Marking Solutions for the Automotive BIW/Final Assembly

Nexus Pneumatics Pvt Ltd jointly with Borries Markier Systems (Germany) presents state of the art special solutions for Vehicle Identification Number (VIN) marking systems.



Technical Data

- Data Input: Manual Input / IPC Interface with Customer's server
- Marking Cycle 30 Seconds
- Delivery time: 12 14 Weeks

Components Used

- Borries make 322 Marking Unit with EG-Box Controller, VisuWin SE Software
- Movomech make Mechspace Pro 70 kgs Handling System
- Nexus Gripper Mechanism specific to Car body
- . Scribing technology for VIN customized to customer specific fonts
- . Complete Solution provided by Nexus Pneumatics Pvt Ltd under one roof
- · Detailed study of the station layout specific to the customers requirement
- Design & execution of the most ergonomic handling solution for the VIN marking system
- Customized communication methods to the sub-ordinate controls



