



# Price List 2011

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**Official Distributor:**

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E-mail: comex@volny.cz





**Peening Accessories is an Official Agent for:**



for flaps, mandrels, magnetic holders, tapes



for sieves, sieve shakers



for high end motors for flap peening



for air tools for flap peening



for shot and flap peening training, consulting, books, magazines



for peenscan pens



### INDUSTRIAL Almen Gage

- for A, N, C & Aluminium Strips
- digital display (0.0001", 0.001mm resolution), SPC data port
- water resistant Swiss made digital indicator
- convenient replacement of battery (no data lost)
- support balls for strip made of ceramic (basically no wear)
- mechanical positioning system for strip
- no magnets which attract metallic residues, shot, etc.
- meets AMS-S-13165, SAE J442, AMS 2430 and AMS 2432
- separate curved calibration block included
- 1 year warranty

### INDUSTRIAL PLUS Almen Gage has in addition:

- protective nickel plated/sand blasted casing for digital indicator

### HP Almen Gage (High Precision) has in addition:

- automated "ZERO" setting by turning gage ON
- visual "ZERO" setting control before every measurement
- protective nickel plated/sand blasted casing for digital indicator

Type	Ref. No.:	€
INDUSTRIAL Almen Gage	800 000	€ 996
INDUSTRIAL PLUS Almen Gage	800 150	€ 1120
HP (High Precision) Almen Gage	700 000	€ 1495

Shipping weight:  
1.8 kg/pc



### Almen Saturation Curve Program ALMCOM 5.0

- direct USB interface to Almen gage
- display of saturation curve, resp. T saturation and 2T
- indicates probably faulty arc height values
- up to 30 curves to be saved in one data sheet
- can integrate individual customer logo
- allows individual design of protocol information

Type	Ref. No.:	€
Almen Saturation Curve Program ALMCOM 5.0	100 140	€ 995
If purchased together with an Almen Gage	100 250	€ 845
2nd Licence Almcom 5	100 350	€ 495
USB cable to connect with Almen gage	700 808	€ 169

Shipping weight:  
110g/pc



Products	Description	Ref No.	€
Inspect View Camera	Portable Camera for Inspection	740 200	€ 1950
10x, 20x and 30x Magnifier tips (each)	Magnifier to fit Inspection Camera Probe	740 201	€ 480
45°, 35°, and 60 degree mirror tips (each)	Mirror Tips to fit Inspection Camera Probe	740 202	€ 190
Magnet Tips	Magnet tips to fit Inspection Camera	740 203	€ 190
Longer Probe	3,6,9,15,30,60 and 90 feet long	-----	on demand

Ask for detailed brochure! Ex works Canada.



### Adhesive Masking Tapes Abrasive Resistant for Peening & Blasting



Ref. No.	Width	€ / pc
640 501	6 mm	€ 7.10 (*)
640 502	12.7 mm	€ 10.20 (*)
640 503	19.1 mm	€ 13.70 (*)

Ref. No.	Width	€ / pc
640 504	25.4 mm	€ 17.20 (*)
640 505	50.8 mm	€ 35 (*)

(\*): Minimum Order Size: 12 Tapes



### Almen Strips (A, N, C type)

- directly from the manufacturer
- corrosion protection
- packing in resistant 50 Pcs carton boxes or 500 Pcs boxes (depends on requirement & quality)
- strips are vacuum packed for shipment
- no mechanical deformation after heat treatment to meet flatness requirements
- tighter hardness tolerances for Aero strips, HRC 45-48
- strips to any specification provided
- with certificate of compliance



Peening Accessories GmbH  
Sales Office in Switzerland  
Tel +41.44.8312644, Fax +41.44.8312645  
info@peening.ch, www.peening.ch

### New: PLUS Quality

- each strip is LASER measured for flatness
- flatness of both sides printed on each strip
- each strip comes with a tracking no.

Type	Minimum Order	Ref. No.:	€/ pcs
A Strip AERO PLUS ±0.013mm, HRC 45-48, SAE J442, SAE AMS 2430, SAE AMS 2432	100 (50/box)	200 101	€ 1.11
A Strip INDUSTRIAL PLUS ±0.025mm, HRC 44-50, SAE AMS 2430, SAE J442	100 (50/box)	200 202	€ 0.74
A Strip INDUSTRIAL PLUS BULK ±0.025mm, HRC 44-50, SAE AMS 2430, SAE J442	4'000 (500/box)	200 303	€ 0.60
N Strip AERO PLUS ±0.013mm, HRC 45-48, SAE J442, SAE AMS 2430, SAE AMS 2432	100 (50/box)	300 101	€ 1.31
N Strip INDUSTRIAL PLUS ±0.025mm, HRC 44-50, SAE AMS 2430, SAE J442	100 (50/box)	300 202	€ 0.86
N Strip INDUSTRIAL PLUS BULK ±0.025mm, HRC 44-50, SAE AMS 2430, SAE J442	4'000 (500/box)	300 303	€ 0.69
C Strip AERO ±0.013mm, HRC 45-48, SAE J442, SAE AMS 2430, SAE AMS 2432	50 (25/box)	400 101	€ 2.18
C Strip INDUSTRIAL ±0.038mm, HRC 44-50, SAE AMS 2430, SAE J442	50 (25/box)	400 202	€ 1.50
C Strip INDUSTRIAL BULK ±0.038mm, HRC 44-50, SAE AMS 2430, SAE J442	2'000 (250/box)	400 303	€ 1.28

	Dimension	Shipping Weight
A Strip	L=76.1mm W=18.95mm D=1.295mm	1000 Pcs 15.3 kg
N Strip	L=76.1mm W=18.95mm D=0.785mm	1000 Pcs 9.5 kg
C Strip	L=76.1mm W=18.95mm D=2.385mm	1000 Pcs 28.5 kg



### Almen Strip Holder for A, N and C strips

- directly from the original manufacturer
- according to SAE J442 (industry standard)
- hardened to Rockwell C 58 or higher
- with screw & nut or threaded type
- corrosion protection
- screws for strip attachment included
- dimensions: L x W x D = 76.4 x 38 x 19mm (3" x 1.5" x 0.75")

Almen Test Strip Holder (SAE J442) Type: Threaded, Ref. No.: 500-101
€ 56/pc
Shipped with 4 Pcs of M5 screws, which thread into tapped holes to secure the Almen strip in place. Replacement Screws: Ref. No.: 500-112, 50 Pcs for €10

Almen Test Strip Holder (SAE J442) Type: Non Threaded Ref. No.: 600-201
€ 56/pc
Shipped with 4 Pcs of M5 screws that are installed through a clearance hole in the holder to secure the strip in place. Includes 4 Pcs M5 nuts to be installed from the bottom side of the holder. Operator must have access to bottom of holder for installation of nuts. Replacement Screws: Ref. No.: 600-212, 50 Pcs for €10

Shipping weight for both types: 0.45 kg/pc



Type	Ref. No.:	€
Almen Strip Holder for Internal Peening (IN-19), excluding Replacement Blocks	900 000	€ 935

Shipping weight: 4.20 kg

Type	Ref. No.:	€
Replacement Block, available in Sizes: Ø2.5mm, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15, 15.5, 16, 16.5, 17, 17.5, 18, 18.5, Ø19mm	900-Ø E.g. Block Ø2.5mm = 900-025	€ 86/pc

### Almen Strip Holder for Internal Peening (IN-19)

- eliminates the need for costly and time-consuming custom designed Almen strip holders
- free standing device with adjustable angle
- represents actual intensity accurately
- more than 30 hardened replacement blocks that represent the different hole diameters up to 19mm
- U.S. Patent No. 6,502,449 B1

## Accessories for Flap Peening

Official Agent of



Ref. No.	Flap Size	€ / pcs
600 100	9/16 x 1	€ 26.15
600 101	9/16 x 1 1/4	€ 26.15
600 102	1 x 2	€ 38.10

Ref. No.	Flap Size	€ / pcs
600 200	9/16 x 1 (*)	€ 22.85
600 201	9/16 x 1 1/4 (*)	€ 22.85
600 202	1 x 2 (**)	€ 47.65



shipping weight: 15 g/flap  
Flap Size 9/16 x 1 for 1/2"-3/4" hole Ø  
Flap Size 9/16 x 1 1/4 for 3/4"-1 1/4" hole Ø  
Shot Size for all Flaps: S330

(\*): shaft Ø6.35 mm, L=7,7 cm  
(\*\*): shaft Ø9 mm, L=20,2 cm





	Flap Peening Items / Kits	Ref. No.:	€ / pcs	Kit 1	Kit 2	Kit 3
	Flap 9/16 x 1 1/4 <b>3M</b>	600 101	€ 26.15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Mandrel for Flap 9/16 x 1 1/4 <b>3M</b>	600 201	€ 22.85	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Digital Tachometer including Certificate of Compliance Option Ref. No. 600 320: High End Model with ISO Test Certificate and Certification Sticker on Device	600 300 Option: 600 320	€ 195 € 435	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	10 x Magnifying Glass	600 401	€ 31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	20 x Magnifying Glass	600 402	€ 31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	A-Almen Strips Aero Plus	200 101	€ 55.50 / for 50pcs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Magnetic Almen Strip Holder <b>3M</b>	600 400	€ 151	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Industrial Almen Gage Digital, meets AMS-S-13165C and SAE J442 Dec-01	800 000	€ 996	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Flap Peening Kit 1	Including 1 Flap, Mandrel, 2 pcs of Loupes, 50 pcs of A-Almen Strips AERO Plus, Magnetic Almen Strip Holder	660 500	€ 317.50			
Flap Peening Kit 2 (plus Tachometer)	Including 1 Flap, Mandrel, Digital Tachometer, 2 pcs of Loupes, 50 pcs of A-Almen Strips AERO Plus, Magnetic Almen Strip Holder	660 600	€ 512.50			
Flap Peening Kit 3 (plus Tachometer and Almen Gage)	Including 1 Flap, Mandrel, Digital Tachometer, 2 pcs of Loupes, 50 pcs of A-Almen Strips AERO Plus, Magnetic Almen Strip Holder, Industrial Almen Gage	660 700	€ 1508.50			

**Economical Motor Kit for Flap Peening**



	1/3 hp motor, heavy duty, with built-in speed control. Mounted in a cast-iron base for easy placement anywhere on the workbench. The permanent-magnet features the latest in flex shaft technology and delivers more torque throughout the entire speed range than any other flex shaft motor. 500-15000 RPM. The 220V version has a 1/6 hp motor.	660 990 (for 220V)	€ 667
	Hand Piece (will be connected to flexible shaft) <u>Important:</u> Only for 6.35 mm (1/4") mandrel	660 999	€ 88

**High End Motor Kit & Controller for Flap Peening**

**NEW!**


	The Suhner ROTOMAX 1.5 - Flexible Shaft Machine, which comes including a stand is a most powerful drive for various tasks. A keypad on top of the housing makes selecting the desired speed – shown in a display – both quick and easy. High end motor for the AVIATION industry. Build in speed control and display. <u>RPM accuracy within +/-2%!</u> 500-15'000 RPM, continuously adjustable, power output 1500W, type of protection IP45, 1-phase AC motor, voltage 230/240V, 50/60 Hz. Ask for more information. <b>Official Agent of</b> <b>SUHNER</b>	710 990 (for 220V)	€ 2440
	FH7 hand piece with 6.35 mm (1/4") & 9 mm chuck	710 999	€ 195
	Flexible Shaft: NA 7 x 2000 DIN 10/G22	710 800	€ 210

**Economical Air Tool for Flap Peening**

	Type 1: Small air tool for 9/16" x 1" and 9/16" x 1.25" flaps Can be used for 6.35 mm (1/4") shafts.	720 800	€ 195
	Type 2: Large air tool only for 1" x 2" flaps Has to be used two handed. Can be used for 9 mm shafts.	720 888	€ 350
Accessories needed for either Type 1 and Type 2	Air regulator & quick release ftgs: 1/4" Female Quick Release Coupling, 1/4" Female Adaptor, 1/4" Male / Male Nickle Plated Nipples, 1/4" Pressure Regulator Inc Bracket, 0 - 4 Bar Pressure Gauge	720 890	€ 65

**High End Air Tool & Controller for Flap Peening**

**NEW!**

	FlapSpeed™ Controller V.3 with touch screen user interface, USB data recording, "Intensity vs. RPM" curves for 5 operators, stopwatch and countdown timer. High Torque Air Grinder (straight or 90 deg.) with installed speed sensor, buzzer and on-off switch 25 feet hose. Certificate of Calibration. User Manual (paper and .pdf copy) Ex works Canada  <b>Official Agent of</b> <b>SHOGKFORM</b>	730 950	on demand
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**TYLER-Test Sieve Shaker: Ro-Tap 8"=RX-29 / 12"=RX-30**



Option:  
Sound Enclosure  
(stand not included)

Technical Data:

Operating voltage: 230 Volt, 50 Hertz or 110 Volt, 60 Hertz

Time Switch: 0-99 minutes - digital

Revolutions/min: 278

Tappings/min: 150

Sound emission: 86 dB<sub>A</sub>

Weight: approx. 82 kg

Dimensions: 710 x 540 x 640 mm (w x d x h)

Feed quantity: max. 3kg

RX29:

6 standard or 13 half height test sieves Ø8" / Ø203mm or Ø200mm and one sieve pan

RX30:

5 standard or 8 half height test sieves Ø12" / Ø305mm or Ø300mm and one sieve pan

Official Agent of

HAVER & BOECKER



W.S. TYLER

**NEW!**

	Article-No.	€/pcs Outside Europe (**)	Article-No.	€/pcs Europe(**)
RX29-10 230 Volt, 50 Hertz - (not conform to CE-Standard)	650 351	€ 2250	650 320	€ 2730
RX29 110 Volt, 60 Hertz - (not conform to CE-Standard)	650 352	€ 2198	650 321	€ 2720
RX30-10 230 Volt, 50 Hertz - (not conform to CE-Standard)	650 353	€ 2580	650 322	€ 3045
Sound Enclosure (from 85 dB to 78 dB) All controls inside / Shipping: 89cm x 61cm x 74cm, Weight 51kg			650 354	€ 580

(\*) ex works USA (\*\*) ex works Germany / Haver & Boecker who owns Tyler is bind to certain trade agreements. Tyler can only deliver the non conform CE Standard to Haver & Boecker

**TYLER-Test Sieve Shaker: Ro-Tap 8"=RX-29 / 12"=RX-30**



Technical Data:

Operating voltage: 230 Volt, 50 Hertz or 110 Volt, 60 Hertz

Time Switch: 0-99 minutes - digital

Revolutions/min: 278

Tappings/min: 150

Sound emission: ≤70 dB<sub>A</sub>

Weight: approx. 216 kg

Dimensions: 1110 x 610 x 710 mm (w x d x h)

Feed quantity: max. 3kg

RX29:

6 standard or 13 half height test sieves Ø8" / Ø203mm or Ø200mm and one sieve pan

RX30:

5 standard or 8 half height test sieves Ø12" / Ø305mm or Ø300mm and one sieve pan

**NEW!**




	Article-No.	€/pcs
RX29 230 Volt, 50 Hertz - conform to CE-standard	650 420	€ 4,340
RX30 230 Volt, 50 Hertz - conform to CE-standard	650 421	€ 4,650




**Test Sieves (Brass Frame with Stainless Steel Mesh)**

	Article-No.	€/pcs
Haver Test Sieves Ø8" (Ø203mm) HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	ask for separate price list
Haver Test Sieves Ø12" (Ø305mm) HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	
Haver Test Sieves Ø200mm HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	
Haver Test Sieves Ø300mm HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	
TYLER Test Sieves Ø8" (Ø203mm) HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	
TYLER Test Sieves Ø12" (Ø305mm) HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	
TYLER Test Sieves Ø200mm HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	
TYLER Test Sieves Ø300mm HALF HT. 2-5/8" or FULL HT. 4-1/4"	-----	


IMPORTANT: Sieves are based on working specifications. Customer is requested to provide exact sieve & mesh size.

Fluorescent Tools to check Coverage			
 <p>Official Agent of </p>	<p>Peenscan Pens provide a convenient method for applying a thin coating of tracer fluid to very specific areas of a part without the need for masking. This has proven useful during initial engineering set-up of a part for shot peening as well as for monitoring critical areas (gear teeth, etc.) during production shot peening. It is available with two fluorescent tracer fluids and selection of the appropriate fluid is dependent on the hardness of the metal and the intensity of the shot peening process. The Peenscan 220-2 pen should be used for softer base metals, softer shot and lower peening intensities. The 220-6 pen should be used for harder base metals, harder shot and higher peening intensities. <b>Minimum Order: 1 box = 6 pieces</b></p>	<p>750 200 (Peenscan 220-2)</p> <p>750 210 (Peenscan 220-6)</p>	<p>€ 32 x 6 = € 192/box</p> <p>€ 32 x 6 = € 192/box</p> <p>Shipping weight: 120g/box</p>
	<p>Fluoro-Finder III (DRY), has a pigment which fluoresces under ultraviolet light making the determination of the degree or percentage of coverage quick, easy and foolproof. Use of this tracer eliminates the need for 200-percent coverage in order to be assured of complete peening. In order to save on shipping costs this item is shipped in powder form. Must be mixed by user. It must be mixed with one pint of methyl ethyl ketone (MEK) by the user before use. Packaging: One Pint (473.2 ml cans)</p>	<p>750 300 (1 pint can)</p> <p>750 310 (1 carton=4 pints)</p>	<p>€ 75</p> <p>€ 290</p> <p>Shipping weight: 500g/pint</p>

Industry Standard 100W UV Hand Lamp			
	<p>Features: Fan cooled, Dual voltage, Ergonomically designed, Elapsed time counter for service scheduling. <u>Technical Data:</u> UV light intensity: Dependent upon distance; Illumination area: Dependent upon distance; Bulb: 100w ozone free mercury bulb; Bulb operating life (estimated): Approximately 500 hours depending upon age, environment, switching and cooling; Filter glass: Black – spectral transmission 315nm – 405nm; Power supply requirement: 230v/50Hz ± 10%, 115v/50Hz ± 10%; Power: 100 watts; Integral fuse protection: 2 x 2A miniature time-lag fuses ceramic body 5mm x 20 mm; Connecting cable length: 3.25m (extension on request); Weight of lamp unit (approx): Approximately 1.5 kg; Noise: &lt;70dB; Rating: IP40</p>	<p>750 400</p>	<p>€ 890</p> <p>Shipping weight: 1.5 kg</p>


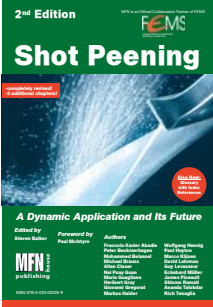

Shot Peening Training			
<p>SHOT PEENING LEVEL 1 (BASIC)</p> 	<p>Introduction to Peening: Fundamental theory; History; Applications.. Intensity L1: An understanding of Intensity; how it is determined and verified in production. Coverage L1: Coverage &amp; saturation; Coverage inspection methods. Coverage rates / media size; Influencing parameters. Procedures: Required documentation and “walk-through” of the peening process. Masking: Types available; selection criteria; application and removal methods. Peening Media L1: Types &amp; uses; Size analysis; Sieve test.</p>	<p>760 200<sup>(*)</sup> (1 day course)</p> <p>760 210 (FAA approved Certificate of Achievement)</p>	<p>€ 550</p> <p>€ 100</p>
<p>SHOT PEENING LEVEL 2 (INTERMEDIATE)</p> 	<p>Intensity L2: Intensity &amp; stress depth; Constructing a sat curve; Analyzing saturation curves; Shaded strips &amp; hole peening. Preparing for Audits: Types &amp; level of audit; What to expect during audits; Preparing for audit. Peening Machines &amp; Equipment 1: Air peen; Standard nozzles; Special Nozzles. Peening Machines &amp; Equipment 2: Wheel peening machine; Media recovery &amp; separation. Peening Media L2: Manufacturing &amp; procurement specifications; Durability test. Flap Peening: Applications; Set-up &amp; calculations; Demonstration.</p>	<p>760 300<sup>(*)</sup> (1 day course)</p> <p>760 310 (FAA approved Certificate of Achievement)</p>	<p>€ 550</p> <p>€ 100</p>
<p>SHOT PEENING LEVEL 3 (ADVANCED)</p>  <p>Official Agent of </p>	<p>Residual Stresses &amp; their Measurement: Definition of stresses; Measurement Techniques and their Limitations; “Walk-through” of X-Ray Diffraction technique. Fatigue in Metals: Fracture mechanics; Stress intensity factor; S-N curves, Fatigue measurement; Fatigue life &amp; Limit; Optimization Of Shot Peening. Fatigue Considerations; Surface finish effects; Pre-stressed Peening; Secondary peening. Peen Forming &amp; Shape Correction: Metal growth; Selecting growth areas; Applications; Limitations. New Technologies: Laser Shock Processing; Ultra-sonic peening; Cavitation peening. Conducting audits for Peening: Selecting criteria; Adequacy / compliance Customer requirements.</p>	<p>760 400<sup>(*)</sup> (1 day course)</p> <p>760 410 (FAA approved Certificate of Achievement)</p>	<p>€ 550</p> <p>€ 100</p>



Flap Peening Training			
<p>FLAP PEENING (hands-on)</p> 	<p>A review of your current practices and options; an introduction to shot peening, its parameters and benefits; flap peening: the process, controls and technique, specifications, what to watch out for; demonstrations of set up, intensity control, coverage, capability evaluations; new innovative uses of flap peening (straightening); practical and written tests; summation and discussions</p>	760 500(*) (1 day course)	€ 550
		760 510 (FAA approved Certificate of Achievement)	€ 100

**Most Courses are available in German, English, Turkish, Portuguese, French, Italian, Japanese and Chinese!**  
**Ask for more details!**

(\*): All courses are available as either on-site training or at workshops. Ask your local distributor where the nearest workshop is taking place.  
For on-site training a minimum of 5 persons is required (travel expenses of teacher charged separately).

Consulting for Shot Peening / Books / Magazines			
<p>Consulting for Shot Peening</p>  <p>Official Agent of <b>MFN</b></p>	<p>To offer a consulting service for Shot Peening is a very demanding task. One of the reasons is, that unlike giving training or a presentation, one can hardly prepare for such a consulting service. The scope of issues to be evaluated and the problems to be solved are always different and may be connected to a whole range of different fields. They may not even be related to shot peening directly, but to material science, process layout, equipment, logistics, audits, specifications, calibration of equipment and much more. So a consultant for shot peening must not only have a deep knowledge of the related topics and an extensive industrial experience, but also needs a fundamental scientific background. In addition he is required to be good communicator in order to bring the best possible benefit to a client.</p>	760 600	price on request
<p>Book: Shot Peening</p> 	<p>It is not often that a work of technical literature becomes a bestseller, especially since the market is usually very limited. But the 1st edition of SHOT PEENING has been an exception and it is totally sold out. Therefore we have decided to publish a 2nd edition. The new edition has been completely revised and updated with 3 additional chapters and 4 new authors. Various new technologies have been added. The fact that this book is written by 22 experts in our industries, coming from as many as 11 countries, demonstrates the wide range of knowledge covered. Topics: introduction to peening and theory, peening intensity, effect of peening, Almen saturation curves, peening coverage, exposure time, trouble shooting, process documentation, masking solutions, workpiece fixtures, shape &amp; size inspection of peening media, cut wire, cast steel shot, ceramic media, specifications, shaded strips, audits by third parties, peening equipment components, air &amp; wheel peening, machinery types and application examples, hole peening, flap peening, peen forming, optimization of shot peening for fatigue critical applications, residual stress, XRD measurement, quantitative characterization of shot peening process, laser peening, shot peening in the automotive industry, also introducing blast cleaning, etc.</p>	760 710	€ 125  Shipping charge: Asia €15 Other: €25
<p>Magazine: MFN</p> 	<p>MFN (Metal Finishing News) is a magazine specialized in peening, blasting, mass finishing and cleaning.</p> <p>Circulation: around 5400 issues Distribution: to 67 countries Frequency: 6 times/year 80 pages</p>	760 820	€ 90/year  € 165/2 years

## Recalibration and Spare Parts for Almen gages

Miscellaneous Products and Services for the HP Almen Gage	Ref. No.:	€ Price
Recalibration & Replacement of Balls for all type of gages (shipment of gage to original supplier required)	700 101	€ 175
Digital Indicator (same for all type of gages)	700 303	€ 225
Curved Calibration Block (same for all type of gages, including certificate of compliance)	700 111	€ 95
Battery Replacement for Indicator, Type 3V-CR 2032	700 404	€ 10
Ceramic Balls for Almen Gage	700 102	€ 14.50