

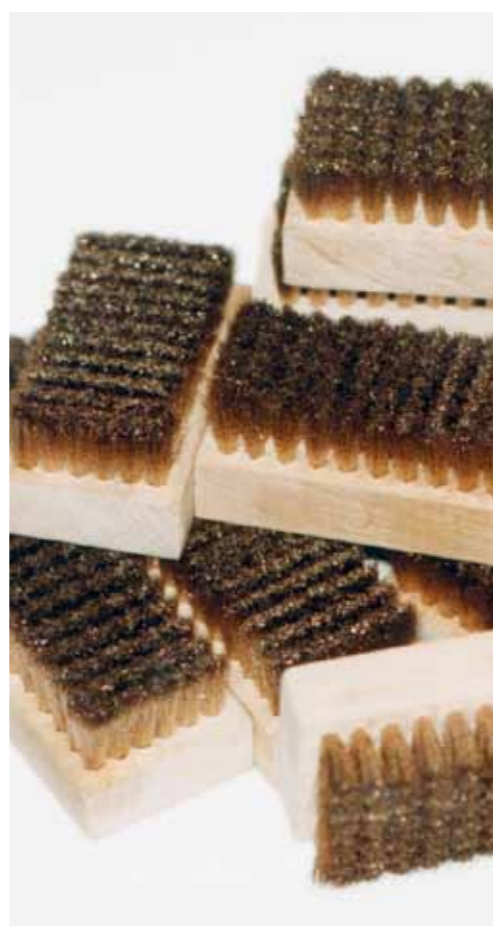
GRAVURE SERVICE UNLIMITED

Product Range

- prepress equipment
- colour measuring
- anodes
- chemicals
- consumables
- measure technology
- spareparts
- special machinery
- printing inks



Hahn Gravure Supplies



Hahn Gravure Supplies

Dear customers and business partners,

in the second generation now, we are a partner of the international roto-gravure printing industry. Since more than 45 years, we take the orders from our customers as an opportunity to demonstrate our competence and service.

Our extensive program of materials, devices and machinery covers the prepress, cylinder preparation and printing process.

Due to our flexibility and direct contact to the leading producers, we do not only offer the following list of standard products, but as well our know-how in purchasing all kind of materials for the entire printing field.

To get a quick information about our products, please study this brochure or have a look at our website www.christianhahn.com.

If you find your demand in our catalogue, we would be pleased to get your order. In case of further demand we beg your direct contact to find a specific solution for you.

Count on our competence and reliable cooperation in all questions of roto-gravure printing.

Christian Hahn
Dipl. Wirtschaftsingenieur (FH)



ANODES

CHEMICALS



Copper clippings

- certified constant quality
- copper content higher than 99,995%
- oxygen-free less than 5ppm
- Cu-OF1 according to DIN EN 1977
- 100% Made in Germany



Nickel anodes

Nickel squares
 Nickel crowns
 Nickel plates cut to order
 Baskets and Holders for Nickel anode material



Titanium anodes for chrome plating machines

Made of expanded titanium
 Made of sheet titanium
 Replating service for existing titanium anodes

Copper rods for reduction units

Titanium anodes for reduction units

Enhance the deposition rate of all copper plating machines and reduce the running costs for copper anodes, electricity and additives.

Titanium Mix-Oxide anodes for K. Walter CU-Max machines

Anodes for K. Walter Copper machines with CU-Max complete new with holders or renewed with existing holders. Single or double Mesh-layer



Cylinder preparation

Permaclean copper polishing paste
 Cleaning, degreasing and deoxidising of copper surfaces
 replaces ROTOVIT or similar pastes through its superior productivity

Degreasing salt
Wetting agent

Nickel-plating

Nickel salt
Shining additive

Copper-plating

Hardening additive solution concentrate
 One part concentrate to 14 parts dem. Water
 Fully compatible to all other hardening additives on the market
 For ultra-fine grained copper

Hardening additive powder
 Use one bag Hardening Powder with 50 lit dem. water
 Fully compatible to all other hardening additives on the market
 For ultra-fine grained copper

Copper sulphate industrial and ultra pure quality
Separation salt/solution

Ballard Skin

Silver Separating Salt
 the diluted mixture gives ready solution to get a high solid Silver layer on the copper surface

Chrome-plating

Chromic acid
Anti-smog
 Catalyser for chrome with enhance plating power and increased hardness

Engraving

Sliding oil
Sliding wax solvent free
FeCl3 powder sublimated
Ferromat solution, FeCl3, from 33° Bé to 48° Bé
Ferromat solution, FeCl3, side wall protection

Dechroming

Dechroming salt
 For the chemical dechroming, no dangerous good to be used with hydrochloric acid

Dechroming solution concentrate
 Electrical activated
 to be used with sulfuric acid
 increased the dechroming speed and protect's the copper surface after the dechroming process is stopped. Ideal for rechroming job's

Sytem Elbo

original Elbo system chemicals and anodes for the cylinder correction



CONSUMABLES & SPARE PARTS

CONSUMABLES

Surface treatment

Grinding stones

Polyurethane foam grinding stones
 For copper with grid: 120, 150, 280, 400, 600, 800, 1000, 1500, 2000, 3000
 For chrome
 For all kind of grinding machines: Finishstar, CFM and others

Thermo glue for grinding stones

Small granules for an easy melting of the glue, elastic bonding

Grinding paper

SIA and 3M
 In sheets or reels

Finishing and lapping film from 3M and SIA

In reels from 9 – 40 microns for finishing machines
 Sheet material in 9 / 11 microns for manual usage at the engraving machine

Cutting oil for MDC Polishmaster

Hydrofluid for MDC Polishmaster

Spare parts for Walter and Daetwyler surface treatment machines

Electroplating

Filter candles

Coiled, Polypropylene, 10" or 20" length, 1 to 20 micron fine

Filter cartridges

Filter candles with active carbon

Filter papers, round

Filter papers with active carbon

Filter cardboards, round

Filter sacks

Polypropylene, customized to your demands

Carbon brushes / brush holders

For Daetwyler, Chemartin, Walter and other brands

Achat rollers ready for use with axle

Spare parts for Walter and Daetwyler electroplating machines

Spare Parts Hell and Daetwyler engraving machines

Cleaning

Fiberglass brushes, 200mm * 20mm

Bronze brushes

Stainless steel brushes with extra soft wire

Rubber blades

Tripelpowder

The natural soft grinding powder

Permaclean copper polishing paste

The ultimate paste for the copper surface treatment
 replaces ROTOVIT or similar pastes through its superior productivity

Deccorron degreasing and cleaning solution

Engraving

Engraving stylus for Hell, Daetwyler and Ohio in all degrees

One way stylus in all degrees

Reshaping of engraving stylus for all brands

Sliding spindles standard or speed

Sliding shoes

Burr cutter

Burr cutter with holder

Engraving oil

Engraving wax (solvent free)

Micro polishing films

Spare Parts Hell and Daetwyler engraving machines

Correction plus/minus

Electronic rectifier, 16 V, 16 A max,
 including cables, contactors, holders

Nickel grinding anodes

Copper grinding anodes

Rubber blades

Flat bows

Covering lacquer

Grinding-paper holder with special grinding paper

Talcum powder

Special etching cotton

Ferric chloride powder, sublimated

Bronze brushes

Activating solution nickel

Instant copper

Lime wood charcoals

Rubber rollers

Ink for plus correction

Zn free plus correction solution

Engraving knives



MEASURING DEVICES

Cylinder diameter

Digimess I

Measuring device with an accuracy of +/- 0,001 mm with a range of 70 – 320 mm diameter, with temperature compensation, shows diameter and circumference, including aluminium trunk

Cell size

CellTest video measuring device

Microscope with 15x and 40x objectives, including depth measuring, integrated high-resolution video camera, with measuring software indicating μ and measuring lines, easy operating with integrated touchpad

Hardness

Hardness Tester MIC10, including special measuring base

For the easy measuring of copper and chrome surfaces, optional with data storage (MIC 10-DL) or calibration cards (CU/CR)

Layer thickness

Type FE

For the measuring of the thickness of all layers on the steel surface (Nickel, Copper, Chrome), +/- 1 μ m

Wall thickness

Ultrasonic device

For the measuring of the steel wall thickness 0-150mm, +/- 0,01mm

Roughness

Phertometer and Video measuring devices

Quick and precise measuring of surface roughness according to standardized DIN and ISO norms traditional with an automatic surface tracer and built in printer or as a high end device with optical measurement and 3D reporting

Electrolyte

Hullcell

pH-measuring
Thermometers
Areometers
Electrolyte analysis

DigiNip

Nip measuring device

for Offset-, Flexo- and Rotogravure printing, Lamination machine or Rewinder settings and many more! Wireless device to check the accurate setting of rubber roller to printing cylinders or doctor blade to cylinder. Do not trust your pneumatic pressure indicator on your machine, different mechanical problems will lead to an unequal contribution of the pressure!

CELLFILL UNIT + REFILTER + HGS-ANODE + CELLCLEAN

CellFill Unit

The ultimate tool to repair cylinders with all kind of scratches, bumps or to fill up engraved cells with hard copper and Nickel. Repairs can be done on top of the chrome layer or on the copper. A printing machine resistant repairing allows to use the cylinder with no limits.

Compact unit equipped with

- heavy duty trolley
- electronic rectifier, built in
- cylinder bearing
- all secure chemical container
- magnifier lamp

ReFilter

ReFilter unit supplies ultrafine filtered rinsing water for Finishing- and Grinding machines from all major brands (Finishstar, CFM and others)

Self-sufficient unit with own control panel and feeding pump to separate the grinded copper sludge from the rinsing water in a closed loop. Replaces all kind of band-filter units or filter candles-units and does not need any kind of additional filter material or other consumables.

With an additional Sludge stage you can dispose off or sell the Filter-sludge with a copper content >70%.

HGS-Anode

Correction anode made from a special Ventil-Metall-Mixture plated on insoluble titanium mesh and a separate digital rectifier.

Through the insufficient cathodic yield of the plating process, always more copper is dissolved than plated. In traditional processes this dissolved copper was „removed“ by regulary draining the electrolyte (=> wastewater treatment) or it was plated to a „wire/plate“ within an external „reduction“ device and finally given to scrap.

The new HGS-System will stabilize the copper content in the electrolyte within the required standard level by an additionally plating of copper to the cylinder surface. This method reduces on one hand the copper waste treatment cost's to zero and improves the performance of the system up to 5% as it plates the copper additionally to the normal process.

Depending on the variation of the cylinder dimensions, it works near to 100% stable, once the set up has been done.

CellClean

A system to control, record and finally deep-clean printing cylinders for all kind of techniques (Rotogravure, Flexo/Anilox or Offset lacquer rollers.

Consisting of

- trolley to inspect and fix the cylinder
- Video-Microscope with holder to control the cells & document the dirtiness
- deep cleaning solution to dissolve nearly all kind of dried inks, varnishes or glues inside the cell and remove it easily

Nearly no waste water or residuals, everything is wiped off by a tissue.



SPECIAL MACHINERY | USED MACHINERY

Cleaning station

Titan series for manual and automatic function.

Nickel bath

Titan series, half immersion, computer controlled, with electronic rectifier built in, titan basket and filter unit.

Copper bath

Titan series, double-copper-machine, half immersion, approximate 3 microns/min plating capacity, for the simultaneous production of two independent cylinders, hanging titanium basket with automatic distance adjustments from both sides, automatic hardness additive and acid dosage, soft- and hard copper at the same time, huge storage tank up to 3500 lit., easy programming by Christian Hahn Plating software with full control of all values and storage of production data.

Chrome bath

Titan series, computer controlled, half immersion, hanging platinated titan anodes, all storage tanks and metals made from titan. Easy programming by Christian Hahn Plating Software with full control of all values and storage of production data.

Dechroming

Titan series, computer controlled, half immersion, hanging stainless steel anodes, all storage tanks made from PE. Easy programming by Christian Hahn Plating Software with full control of all values and storage of production data.

Finishing

Solid steel frame, up to three finishing devices, two grinding stones, free programmable values for Rz, Ra, speed and pressure.

CONTACT



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