



Servicing virtually all Markets and Industries since 1988.

P.O. BOX 56 FAIRPORT, NY 14450 Ph. (585) 742-3700 Fax (585) 742-3702 www.martagan.com

Equipment, Instrumentation & Services for Process and Laboratory Applications

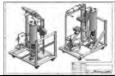
Since 1988, Martagan Associates and our diverse partnerships of manufacturers, engineers and fabricators have provided quality equipment and process solutions for efficient, cost-effective system design and integration.

Below is a partial list of our valued partnerships.



Advanced Process & Integration







System Design, Integration & Solutions

- *Design & fabrication of custom automated skid systems, CIP, SIP, pump drive assemblies and more.
- *Project management from conception to completion.
- *Technical support & training w/processing solutions



Servicing industry since 1974, supplying high quality Volumetric and Gravimetric Feed Systems. Patented the first closed loop, resonant frequency vibratory feeder. *Feeders, conveyors, spreaders & applicators, controllers & controller systems, platform scales, etc.



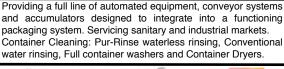








High purity & industrial filter housings and elements. We offer a complete line of pre and final cartridge filters ranging from 100 micron nominal to .03 absolute membranes. Also available in our state of the art disposable capsule line. Our products are offered in a range of medias to meet your applications.













Heinkel: Bolz-Summix, Comber, Jongia & Pennwalt brands Equipment & Systems for Separating Solids from Liquids. Over 130 years of experience providing vacuum dryers, Nutsche filter dryers, centrifuges, decanters, classifiers, hose pumps. Sampling, tank discharge & charging valves.



Highest Shear Homogenizers for smallest possible particles. Fully scalable, from laboratory to production. *Provides unrivaled results in uniform particle size reduction and repeatability from 1ml - thousands of liters with unparalleled pressures & features.













CP Continuous Processor: A twin shaft, co-rotating mixer, for mixing one or more dry and liquid materials on a continuous basis, producing a homogeneous product. SC Processor: Continuous Devolatilization & Drying of material, creating a dry powder or high viscosity slurry. CBM for powder blending.



Since 1949, Schold has continued to provide custom engineered solutions and equipment for dispersing, mixing, milling and packaging processes. Offering a full line of products from high speed dispersers, to multi-shaft mixers, vertical or horizontal mills and press-out units.



ANALYTICAL INSTRUMENTATION









Liquid & Gas Process Analyzers providing highly reliable, rugged, low-maintenance solutions for consistent and precise field-proven performance. Viscosite: viscometers; AccuSeries: wet chemistry; Monitek Turbidity: suspended solids, color; Monitek Ultrasonic oil-in-water & TSS



designed for scientists

Innovative equipment for R&D: Mixing, heating, distilling, crushing, magnetic stirrers, mixers, overhead stirrers, shakers, homogenizers, mills, rotary evaporators, colorimeters, laboratory reactors, circulators, baths, chillers & more.















Equipment, service and support for a unique family of analytical instrumentation. The companies we represent design and manufacture industry-leading on-line analytical technology to detect and measure contaminants and biological activity in water and wastewater.



Innovative, reliable instruments for wet & dry particle size and shape analysis in laboratory and process applications. Laser Diffraction - Size and distribution, Dynamic Image Analysis - Size & shape, Ultrasonic Extinction - Size & concentration, Dynamic Light Scattering - Size and stability.







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PRODUCT LISTING

Analytical Instrumentation Bin Blenders Blenders, Liquid & Powder **Capsule Conveyors CBD Extraction Systems** Centrifuges **Chemical Analyzers** Colorimeters

Continuous Processors - Mixers Cyclones Dispersers Dry Disconnects - Liquid & Powder Feeders: LIW, Volumetric & Gravimetric Filters & Filter Housings

Homogenizers (Lab, Pilot & Production) **Hose Assemblies**

Laboratory Equipment & Instrumentation

Lab Testing Services Liquid Monitoring Equipment Lump Breakers Media Mills, Horizontal & Vertical Particle Size, Shape & Classification **Powder Flow Control Systems** Powder Handling Equipment, IBC's Press-Outs, Portable & Stationary Pumps, Valves & Fittings

Tanks & Reactors Turbidity Monitors Sack Tip Stations Silicone Dust Caps & Sleeves Skid Systems **Stainless Steel Drums** System Design & Integration **Vacuum Conveyors Viscometers**



Lbs Water x .119

Containment













Mega

Hecto

Deca

Deci

Ceti

Milli

Micro

Mils x .001

Meters x 3.281

Kilo



METRIC PREFIXES

LENGTH



1,000,000

1000

100

10

0.1

0.01

0.001

.000,001

= Inches

= Feet

LC102820

Pumps, Valves, Fittings & Specialties

CONVERSION TABLE PRESSURE

Lbs. Of water/Hr x .002 =Gal Min Gal/Min x 500 =Lbs of Water/Hr Lbs of Fluid/Hr =Gal Min Specific Gravity =Gal/Min (US) Liters/Min x .264 =Liters/Min GPM x 3.785 =Gal/Min (US) Cu Meters/Hr x 4.4 Gal/Min x .227 =Cu Meters/Hr Kg of Water/Min x .264 =Gal/Min (US) Gal/Min x 3.8 =Kg of Water/Min

VOLUME

=Gal

Gal (Imperial)	=Gal (US) x 1.2
Gal x 128	=Fluid Ounces
Cubic Ft x 7.48	=Gal
Cubic In. x .00433	=Gal
Gal x 3.784	=Liters
Liter x .264	=Gal
Cubic Meters x 264.2 Cubic	=Gallons
Meter x 1000 Cubic	=Cubic Centimeters
Centimeters x .0338 Fluid	=Fluid Ounces
Ounces x 29.57	=Cubic Centimeters

Ft of Water x .433	=	PSI
PSI x 2.31	=	Ft of Water
Inches Hg x .491	=	PSI
Inches Hg x 1.133	=	Ft of Water
ATM x 14.7	=	PSI
ATM x 33.9	=	Ft of Water
Kg/Sq cm x 14.22	=	PSI
Meters of Water x 1.42	=	PSI
ATM x 760	=	mm Hg
mm Hg x .039	=	Inches Hg
Bar x 14.5	=	PSI
New ton/Meter 2 x 1	=	Pascal
Psi x 6.9	=	kPa (Kilopas

Psi x 6.9 kPa x .145	= kl = P	Pa (Kilopascal) SI	Centimeters x .394 Millimeters x .0394	= lnches = lnches
	POWE	<u>R</u>	Microns x .0000394	= Inches
$HP = \frac{T (Ft Lb) \times R}{5550}$	<u>PM</u> = <u>T</u>	(in Lb) x RPM	MASS	
5250		63025	Gal of Water x 8.336	= Lbs
HP = Disp (Gals)	x RPM x PSI		Cubic Ft of Water x .62.4	= Lbs
1714	x EFF		Ounces x .0625	= Lbs
Horsepower x .746	=	Kilowatts	Kilograms x 2.2	= Lbs
Horsepower x 42.4	4 =	BTU/Min	Lbs x .454	= Kilograms
Metric Horsepower	x .9863 =	Horsepower	Metric Ton x 2205	= Lbs

VISCOSITY CONVERSION TABLE							
SAYBOLT						REDWOOD	TYPICAL
UNIVERSAL		CENTI		CENTI	ENGLER	NO. 1	LIQUIDS
SSU	STOKES	STOKES	POISES*	POISES*	SECONDS	SECONDS	AT 70 F
31	.010	1.00	.008	.8	54	29	WATER
35	.025	2.56	.020	2.05	59	32.1	KEROSENE
50	.074	7.40	.059	5.92	80	44.3	NO. 2 FUEL OIL
80	.157	15.7	.126	12.6	125	69.2	NO. 4 FUEL OIL
100	.202	20.2	.162	16.2	150	85.6	TRANSFORMER OIL
200	.432	43.2	.346	34.6	295	170	HYDRAULIC OIL
300	.654	65.4	.522	52.2	470	254	SAE 10W OIL
500	1.10	110	.88	88.0	760	423	SAE 10 OIL
1,000	2.16	220	1.73	173	1,500	896	SAE 20 OIL
2,000	4.40	440	3.52	352	3,000	1,690	SAE 30 OIL
5,000	10.8	1,080	8.80	880	7,500	4,230	SAE 50 OIL
10,000	21.6	2,160	71.0	1,760	15,000	8,460	SAE60-70 OIL
50,000	108	10,800	88	8,800	75,000	43,660	MOLASSES B
100,000	216	21,600	173	17,300	150,000	88,160	MOLASSES C

^{*} Poises and centipoises are given for oil of .8 specific gravity. Relationship: centistokes x specific gravity = centipoise