



HagoTM
PRECISION NOZZLES

Precision Engineered
Spray Atomization Products

A Tradition Of Excellence In
**People, Process
& Products**



Our People



Our Process



Our Products



Hago – Built On A Foundation of Creativity, Loyalty & Trust

Every success story has its beginning with the unique vision of an individual. Hago's story is no different.

In 1937, our founders Hermann Harsch and Ludwig Goetz both highly trained industrial machinists realized that a growing oil heat industry required uniquely engineered products to maximize the efficiency of oil burners. At this time, oil burner applications were used primarily for industrial purposes, however the market for residential use was growing. With this in mind, they sought to design and manufacture a line of precision, flow regulating and fuel-atomizing products, familiarly known today by a simple product name...nozzles.

Mr. Harsch became the sole owner of Hago shortly thereafter and began a process of machine and product development that even today is unique to the business. Understanding that the production of highly machined nozzle products offered unique challenges, Mr. Harsch began to literally invent, design and build machinery that would ensure that the production of Hago products would remain exactly the same, with each nozzle type performing with the flow, spray angle and spray pattern that it was designed for. This was no small feat given that the production of nozzles runs into millions of units and types of nozzles for burner applications were increasing. As a result, although the basic process of nozzle housing production may be similar between competitors, it is here that any similarity ends. Hago's unique system of machining, cutting, grinding and polishing the internal elements of our products remain unique, as are the machines that accomplish this.

At Hago today, nearly seventy years later, we owe our success to the vision, creativity and mechanical genius of our founders and those who helped them become one of the worlds leading manufacturers of precision fluid atomization products. Hago products are used throughout the world, in burners heating homes, in industrial oil applications, water humidification systems and in pesticide controls. Our products have the honor of being certified by NASA and are components within the space shuttle.

Still owned by the Harsch family, we remain steadfastly bound to the traditions that created our success while at the same time continue to evolve as an organization with new product development, process improvement and certifications that will maintain the vision first realized back in 1937. We are committed to embracing the best of yesterday's craftsmanship and today's technology, placing the greatest value on Hago employees and Hago customers, without whom we would not exist as a company.

We thank you all for your continued support as we move forward into the 21st century.

The Hago Vision, Mission & Imperative

Hago's Vision

To be the leading and most technologically advanced precision nozzle manufacturer in the world.

Hago's Mission

Given a long tradition of innovative engineering and production excellence, Hago's mission is to provide our customers with nozzles that meet their usage specifications, are manufactured with extreme craftsmanship, delivered on time at a competitive market price.

Hago's Imperative

To aggressively move forward in the market with employees who relentlessly pursue, capture and service customers.

Vision

Mission

Imperative

Hago's Tradition

Although we embrace 21st century sales, marketing and operations practices, we never forget the values that have been and remain the foundation of our company... integrity, loyalty, fairness and an overwhelming desire to satisfy our customer's needs.



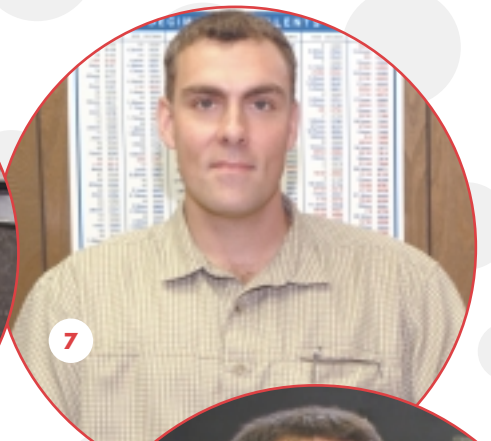
Hago People

An organization's success is defined by its' people and at Hago we take great pride in the people that make our organization work.

Typifying a modern American Company, Hago people come from a variety of backgrounds and life experiences, each bringing unique skills to our organization. One common thread that binds us all is an overwhelming desire to satisfy our customers' needs each and every time. Our people understand that a company, like a chain is only as strong as its' weakest link. As a result, we all strive to perform at a level in keeping with the work ethic demonstrated by two generations of Hago people before us.

From engineering to manufacturing, customer service to sales we all understand that everything we do is a reflection on the Hago tradition we take so much pride in.

Our objectives may differ based upon what our jobs require, however it is clear to us all that our customers are the final judge of our success as a team.



Hago People (Shown left to right, top to bottom):

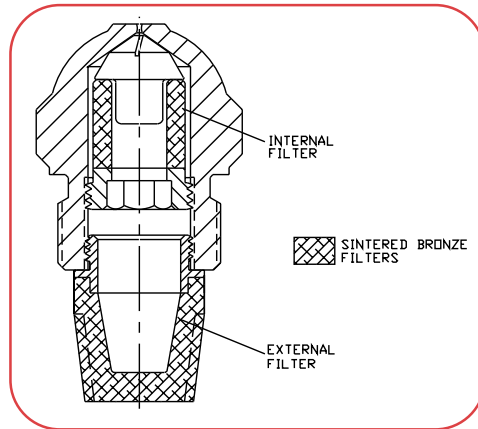
1-Maria Petock, **2**-Laurie Ross, **3**-Patti Czarnecki, **4**-Maria Pozo, **5**-Karen Kozak, **6**-Ed Holman, **7**-Jevon Homitzky, **8**-Steve Marone, **9**-Toni Florek, **10**-Rich Thiel, **11**-Greg Jura, **12**-Daysi Ormeno, **13**-Brian Melici.

Hago Process

Engineering

It is here that our products are designed, tested and properly tooled for manufacturing. Managed by certified professional engineers, CAD design and sophisticated solid modeling software ensure that our products meet the critical specifications of OEM burner manufacturers.

In addition, unique industrial design applications are developed by our engineering staff to meet critical tolerance requirements.



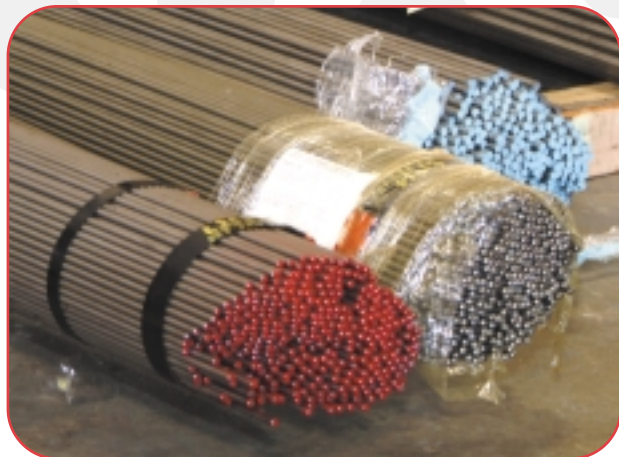
Automation

The prices charged for nozzles do not reflect the sophistication of their design and manufacture nor their importance in the combustion process. The use of design automation to streamline production efficiency and quality repetition continues to be vital to our success. We must ensure the highest quality output while remaining highly competitive at all times.



Machining

Numerous CNC machines with multiple operations capacity are computer controlled to meet the rigorous engineering tolerances set for our nozzle housings. Our machines can run "lights out" (24 hours), increasing our production capacity and meeting our goal of same day shipments for orders received by 2:00 PM.



Manufacturing Raw Materials

Hago stainless steel bar stock is made to our specifications and comes to us directly from the mill. Our nozzles are manufactured of 100% stainless steel, not with combinations of materials that may lower cost but sacrifice product integrity. We also offer nozzles in nickel/silver and 300 series stainless steel that increases their lives under more harsh conditions such as corrosive fluid applications.

Processing

The production of the nozzle housing is just the beginning of an exacting process of grinding, drilling, polishing and cutting that make up the critical internal parts of a nozzle. These parts, all manufactured by Hago create the unique tangential slots and inner swirl chamber that define the operation of the nozzle.

Testing

Each nozzle is fully tested prior to packing and shipment using 35 SSU viscosity fuel oil with flows rated at 100-140 PSI based upon the customers applications and requirements. These tests are monitored by computers that measure the fluid flow and spray angle. Product testers who, through years of training, can spot spray angle and pattern deformities supervise the process. This is a true case where technology and human visual acuity work together to ensure the highest product quality outcome.



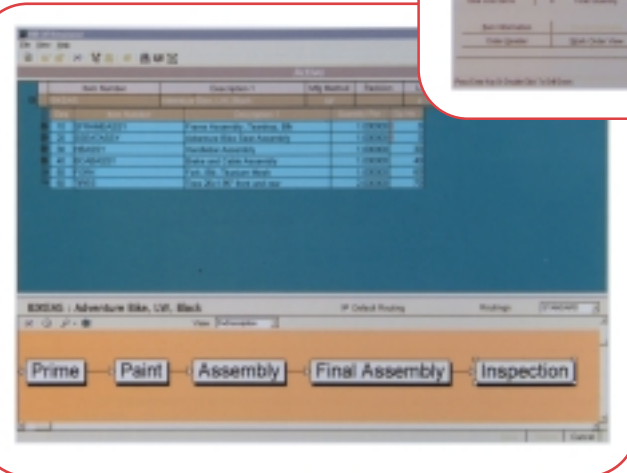
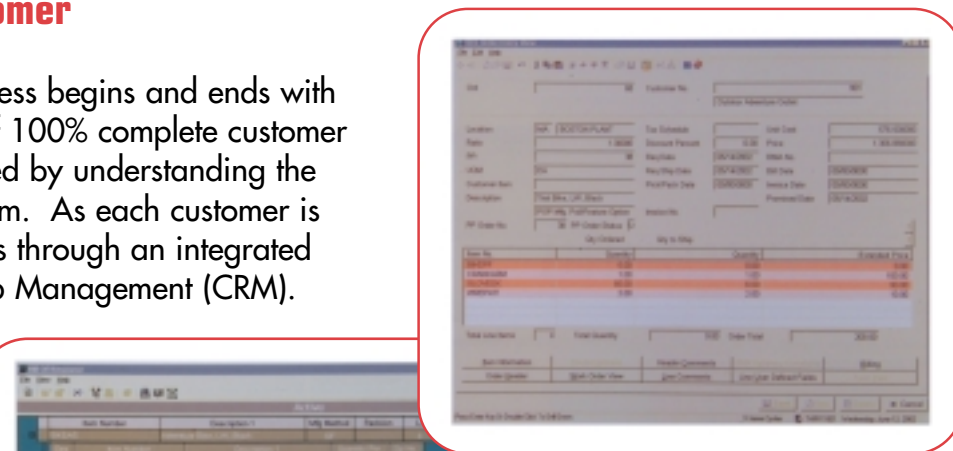
Packing

All Hago nozzles are individually packed and identified as to spray angle and fluid flow. For our OEM customers we have the ability to "egg crate" nozzles and bulk pack them using precisely fitted vacuum formed trays for ease of use in their manufacturing operations.

Office Automation: Customer Service & Customer Relationship Management

The heart and soul of our business begins and ends with our customers. The objective of 100% complete customer satisfaction can only be achieved by understanding the wants and needs of each of them. As each customer is unique, we manage this process through an integrated system of Customer Relationship Management (CRM).

This comprehensive customer database allows us to see, manage, communicate and act upon any customer's requirements in real time. All communications and activities concerning a customers account may be seen by all those who have contact with that customer. Unique profiles are set and understood at a glance, reducing information delays and providing top quality customer service based upon an in depth knowledge of a customers history, product preferences, price points and logistics information. Order confirmation and shipment notifications are sent automatically via the CRM system that is directly tied into manufacturing and accounting information. Any piece of information concerning a customer's account is accessible quickly and simply. Given that Hago services over 4,000 customers world-wide, the CRM system is critical to our objective of 100% on time shipping.



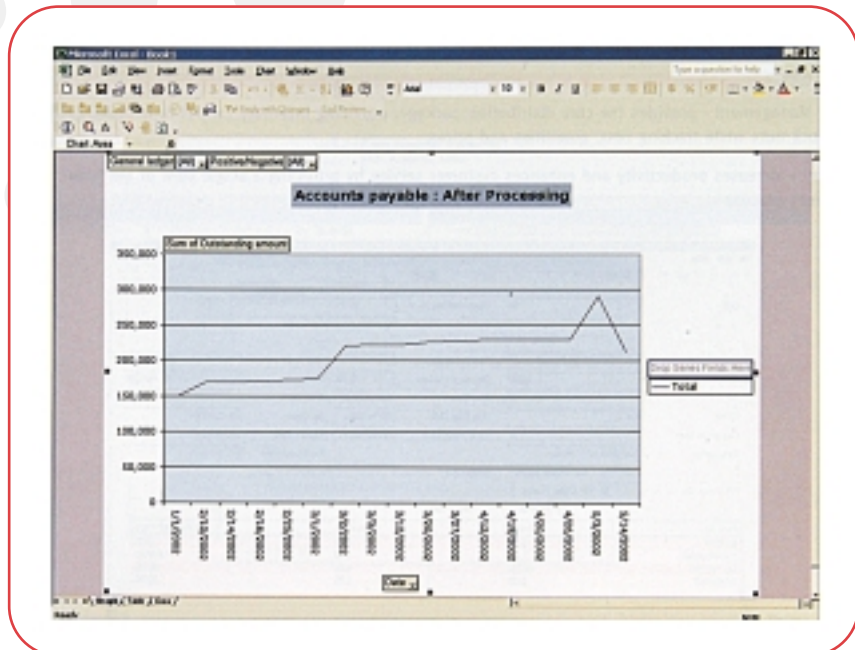
Accounting

Although a privately held company, Hago takes great care to see that our accounting practices are in keeping with generally accepted accounting principles. Hago's tradition of integrity includes the proper and fair handling of financial records. Relationships with customers and suppliers are based upon the highest ethical standards of behavior.

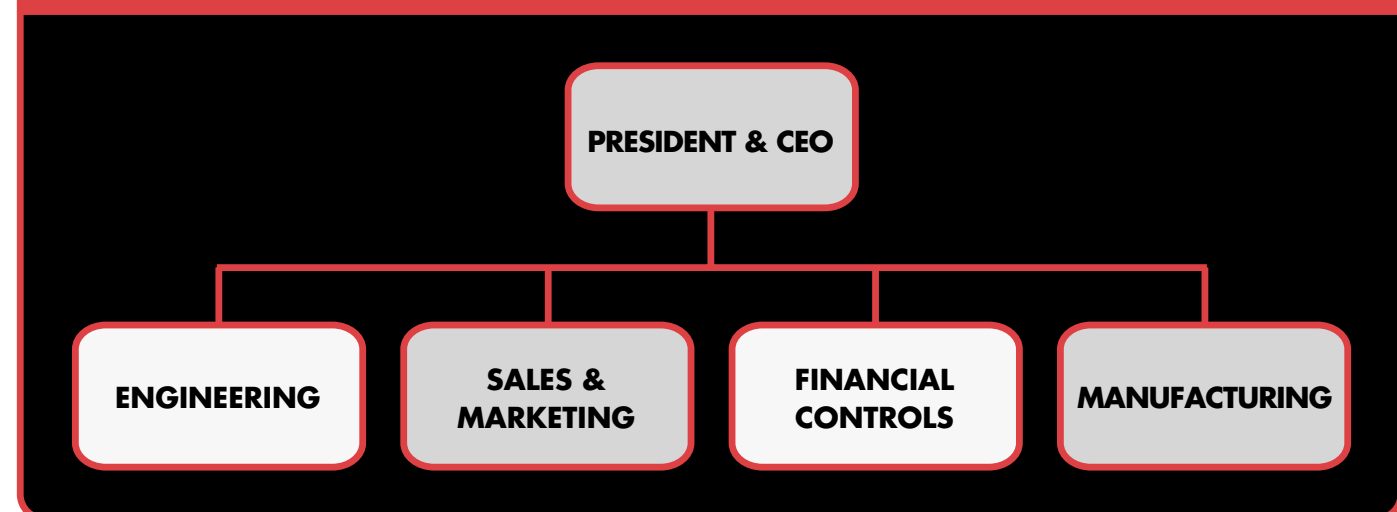
Management

Our management structure is kept flat and our senior team small so that we can react quickly to ever-changing and dynamic markets.

Hago managements' objective is to lead by example, listen carefully to all team members and take decisions that are in the best interest of the company and its valued employees and customers.



HAGO MANAGEMENT STRUCTURE



Hago Products

Why Buy A Hago Product?

Hago products are precision designed and manufactured with quality, service and long life in mind. We understand that the most common problem in oil burner callbacks is nozzle plugging and as a result our nozzles are configured to reduce plugging

based upon contaminants that are found in most oil heat systems. We test every nozzle with fuel oil to ensure correct spray, flow rate and to capture any defects prior to shipping. We can assure our customers that burner call backs are not related to the nozzle, but rather to the customers oil. Our objective is that every nozzle leaving our facility be free of defects and that our customers are free from worry.

Our products have features and benefits that make them unique and each can be proven based upon our people and process.



FEATURES	BENEFITS	PROOFS
100% Stainless Steel Construction	Corrosion Resistance	416 & 300 Series Stainless Steel Bar Stock
100% Product Quality Control Testing	Assurance Of Quality & Consistency	Computer/ Visual Inspection
100% Product Performance Guarantee	Return For Replacement Or Credit	Return Policy
Dual Filtration Nozzle Products	Extends Nozzle Life, Reduces Plugging	Millions In Use In Europe
Variable Flow Nozzle Products	Produce Turndown Ratio Of Up To 4:1	No Spray Angle Variation
Eco-Valve Anti-Drip Valve	Solves After Drip At The Nozzle	Razor Sharp Cutoff
Extensive Product Line	Wide Selection For OEM & Replacement Use	Catalogue, Exchange Chart
Express Shipping	Inventory When Customers Require It	Increase In Express Stock
Innovative and New Products	Greater Product Line Selection	W Nozzle, Siphon Nozzle, Waste Oil & Water Products
Industrial Product Design	Engineered To Meet Any Application	Industrial Products Produced

Hago Oil Burner Nozzles

We design, engineer and manufacture a full line of precision nozzles for the oil heating industry. All of our products are meant to perform flawlessly upon installation and to last, even under stressful conditions. Our aim is to prevent unnecessary burner callbacks and to make the oil technicians life easier. Hago designs nozzle to meet every application or specification.

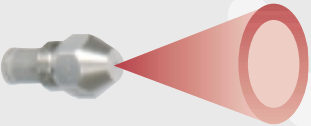
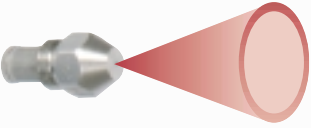
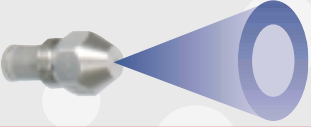
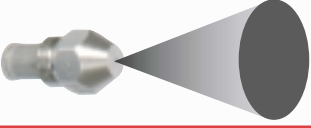

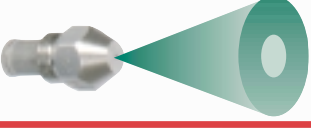
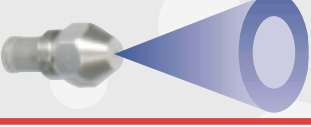
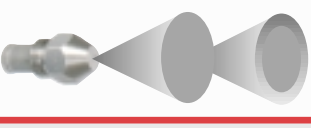
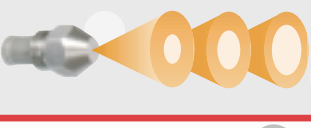
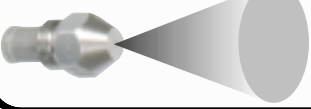


Hago Simplex Nozzles

These nozzles represent the core products within our nozzle line. They meet a virtually limitless variety of applications. Our nozzle design, quality, uniformity and construction have no equal.



OIL BURNER NOZZLE SERIES

SPRAY PATTERN	DESCRIPTION	SPRAY ANGLE	FLOW RATE RANGE
	"H" - HOLLOW CONE - RED CAPS This series distributes the atomized oil particles evenly toward the outside of the spray cone. These nozzles are particularly well suited for low firing rates and burners with a hollow air pattern. Normally used in wider spray angles.	30° 45° 60° 70° 80° 90°	.65 - 9.00 GPH .40 - 9.00 GPH .40 - 9.00 GPH .40 - 9.00 GPH .40 - 9.00 GPH .50 - 9.00 GPH
	"EH" - EXTRA HOLLOW CONE - RED CAPS The type "EH" is an extension our hollow cone series. Available from 4.00 GPH through 30.00 GPH, it is specified in many commercial applications.	45° 70°	4.00 - 30.00 GPH 4.00 - 30.00 GPH
	"S-S" - SEMI SOLID CONE - BLUE CAPS Most suitable for general applications where exact air pattern or spray pattern requirements can't be established. Droplet distribution is relatively even across spray cone in smaller flow rates, but becomes more hollow as flow rates increase.	30° 45° 60° 70° 80° 90°	.65 - 20.00 GPH .40 - 35.00 GPH .40 - 35.00 GPH .40 - 35.00 GPH .40 - 35.00 GPH .50 - 20.00 GPH
	"B" - SOLID CONE - BLACK CAPS Designed to give optimum combustion efficiency on high static pressure flame retention burners which specify a "B" pattern. As compared to our "ES" pattern, somewhat more fuel is concentrated towards the center of the spray.	30° 45° 60° 70° 80° 90°	.40 - 2.00 GPH .40 - 2.00 GPH .40 - 2.00 GPH .40 - 2.00 GPH .40 - 2.00 GPH .40 - 2.00 GPH
	"ES" - SOLID CONE - GREEN CAPS Our original solid cone series for low flow rates. Available for applications specifying a solid "ES" pattern.	30° 45° 60° 70° 80°	.40 - 1.75 GPH .40 - 1.75 GPH .40 - 1.75 GPH .40 - 1.75 GPH .40 - 1.75 GPH
	"P" - SOLID CONE - GREEN CAPS The "P" type is an extension of our "B" and "ES" series for firing rates of 2.00 GPH and above. It produces a solid cone pattern in the low rates and becomes more hollow as the flow rate increases. Specially designed with a pocketed disc to reduce combustion noises and pulsation.	30° 45° 60° 70° 80°	2.00 - 15.00 GPH 2.00 - 35.00 GPH 2.00 - 35.00 GPH 2.00 - 35.00 GPH 2.00 - 35.00 GPH
	"LC" - LARGE CAPACITY - BLUE CAPS These nozzles are uniquely designed for outstanding combustion in large commercial burners. They have large internal passageways to accommodate high flow rates. They produce a semi-solid "universal" pattern.	45° 60° 80°	35.00 - 120.00 GPH 35.00 - 120.00 GPH 35.00 - 120.00 GPH
	"DFN" DUAL FILTRATION - WHITE CAPS Available in hollow (DFN-H) and solid cone (DFN-B) patterns, the DFN nozzles give enhanced protection against clogging in the very low flow rates.	45° 60° 70° 80°	.30 - 1.00 GPH .30 - 1.00 GPH .30 - 1.00 GPH .30 - 1.00 GPH
	"W" UNIVERSAL NOZZLE - ORANGE CAPS For installations where the use of a defined hollow or solid nozzle does not provide the combustion results desired.	30° 45° 60° 70° 80° 90°	.40 - 8.00 GPH .40 - 8.00 GPH .40 - 8.00 GPH .40 - 8.00 GPH .40 - 8.00 GPH .40 - 8.00 GPH
	"SIPHON" NOZZLE - GRAY CAPS Air atomizing nozzle for the combustion of waste oil and other variable waste oil products.	3-PSIG Air 4-PSIG Air 5-PSIG Air	.20 - 1.00 GPH .20 - 1.00 GPH .20 - 1.00 GPH

Hago “DFN” – Dual Filtration Nozzles

The use of Hago’s dual filtration products in millions of heating installations throughout the world is proof that our dual filter technology is leading the way in reducing plugging and extending nozzle life. The nozzle comes equipped with a ribbed sintered bronze external filter that provides up to 30% more filtration than any competitive product. In addition, a second internal filter of sintered bronze catches impurities that the primary filter may have missed. This additional filtration provides technicians with an additional 35% more surface filtration area, assuring resistance to clogging and plugging that are the most common types of burner technician callbacks. Both filters are composed of grade 68 HP bronze powder and are nominally rated at 30-40 microns each.



The DFN is available in two distinct spray patterns, the DFN-B solid cone and the DFN-H hollow cone. Whichever your specification, this low flow rate nozzle assures reliability against premature burner shut down.



Siphon Nozzles, Air Atomizing Nozzles

Our siphon nozzles are the ideal solution for applications requiring the finest atomization at lower air pressures. They have been developed for the specialized waste oil market that requires finer atomization for efficient combustion. This nozzle produces a solid cone spray pattern that is the finest in the industry. Based upon its’ innovative technology that mixes air with fuel using low air consumption, it is a perfect choice for combusting #2, #4, # 5 and #6 fuel oils. Given its design and the nature of air atomizing nozzles, the flow rates, spray angles and droplet size can be affected and changed by the variations within the application. These variations include air velocity and lift. Our siphon nozzle selection is broad and we can also customize nozzles to your particular application.

Siphon Nozzle Capacity Chart

Applications

For the combustion of waste oil and other variable waste oil products

Materials/Construction

Nozzle parts are 416 Stainless Steel with Brass Stem
Brass Stem Uses Viton™ “O” Ring

Nozzle Number	Nozzle GPH	3 PSIG Air		4 PSIG Air		5 PSIG Air		Lift Height (Inches)
		Fuel (GPH)	Air (CFM)	Fuel (GPH)	Air (CFM)	Fuel (GPH)	Air (CFM)	
SN902	.20	.19	.36	.23	.45	.25	.49	1
		.16	.36	.20	.45	.22	.49	4
		.14	.36	.17	.45	.20	.49	7
SN903	.30	.29	.41	.33	.49	.36	.55	1
		.26	.41	.30	.49	.33	.55	4
		.23	.41	.27	.49	.30	.55	7
SN904	.40	.38	.45	.44	.54	.49	.61	1
		.34	.45	.40	.54	.45	.61	4
		.30	.45	.36	.54	.41	.61	7
SN905	.50	.48	.50	.54	.59	.58	.65	1
		.43	.50	.50	.59	.53	.65	4
		.38	.50	.46	.59	.48	.65	7
SN907	.65	.63	.59	.72	.67	.78	.76	1
		.57	.59	.65	.67	.72	.76	4
		.51	.59	.58	.67	.66	.76	7
SN908	.75	.75	.63	.83	.74	.93	.87	1
		.65	.63	.75	.74	.84	.87	4
		.59	.63	.67	.74	.75	.87	7
SN909	.85	.84	.71	.93	.80	1.04	.93	1
		.75	.71	.85	.80	.95	.93	4
		.66	.71	.77	.80	.86	.93	7
SN9011	1.00	.96	.73	1.10	.91	1.15	1.02	1
		.84	.73	1.00	.91	1.06	1.02	4
		.72	.73	.90	.91	.97	1.02	7

Ordering Information

Specify the GPH & CFM requirements

Industrial Burner & Specialty Product Design

Hago designs and produces extensive lines of air operated or direct pressure nozzles and products for firing rates up to 600 GPH.

These nozzles embody the spirit of innovation and exceptional design that Hago is known for after nearly seventy years of nozzle manufacturing experience. We accept challenges from firms seeking unique solutions to complex fuel metering and atomization problems.



By-Pass Burner Nozzles

Also known as "variable flow" nozzles, they are capable of producing turndown ratios of 4:1. They are unique in that they maintain a very steady spray angle across the entire turndown range. Competitive products often vary up to 15 degrees from the open to close by-pass line. In addition, the nozzle produces a straight-line curve of pressure versus flow, allowing an enhanced control of flow modulation.



Humidifying Nozzles

The popularity of humidifying applications within agricultural and pest control markets is expanding and Hago's expertise in this area is well known. Although our oil nozzles can be used for water spray humidification, we have developed nozzles that meet critical "fine atomization" needs operating at very low flow rates. **Our 4023 nozzle in particular has shown explosive growth because of its unique built in check valve system.**

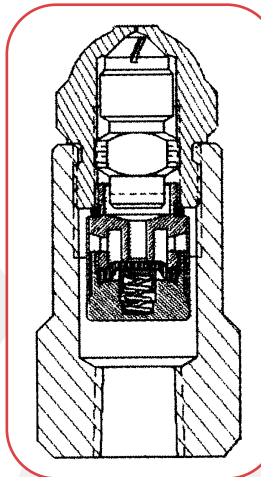
This system provides instant spray shut off at a variety of pressure points and eliminates after drip. The 4023 has shown enormous success within the pest control industry.



Hago's **mini-nozzle** line is available in stainless steel or brass and is widely used for green house humidification and provides cooling "fog" solutions for the poultry and livestock industry. In addition, atomization effects are also used in the entertainment business.

Eco-Valve Anti-Drip Technology

The only solution to problems associated with nozzle "after-drip". The strainer and check valve screw directly onto the nozzle body and work in the place of a nozzle filter or strainer. No adjustments are required at the pump and the nozzles spray characteristics are not changed in any way. The Eco-Valve produces a razor sharp cut off of the spray at burner shut down. As a result, there is no after drip caused by pressure dissipation or air bubbles. After drip created by the heat expansion of the oil is greatly reduced as well. Since the shut off is right at the nozzle instead of in the pump or further back at the solenoid, the closure is instantaneous and immediate. Our Eco-Valve features a wide differential between opening and closing points and is equally effective over a wide range of flow rates and operating pressures.



MODEL	PRESSURE RANGE	
LC	OPENS	90 PSI (6.2) BAR
	CLOSES	55 PSI (3.8) BAR
MC	OPENS	115 PSI (7.9) BAR
	CLOSES	70 PSI (4.8) BAR
HC	OPENS	135 PSI (9.3) BAR
	CLOSES	80 PSI (5.5) BAR

Each valve is individually tested and then calibrated for true opening and closing points. Large internal passages resist clogging. At 100 PSI: 0 PSI pressure drops on nozzles rated to 5.0 GPH, 1 PSI pressure drops on nozzles rated to 8.0 GPH and 5 PSI pressure drops on nozzles rated to 15 GPH.

The Hago Eco-Valve represents the ultimate in product design simplicity accomplishing maximum product effectiveness.

EcoValves are available in three different models for Low (100 psi & up), Medium (135 psi), and High pressure (150 psi & up) operation.

Pumps and Valves

Hago offers a line of application proven and highly efficient pumps and solenoid valves by Delta. Delta pumps are easy to install and have the following features:

- Special design mechanical high pressure seal.
- Standard or high speed cutoff models.
- Air bleeder port is convenient and a bleeder tube is supplied with each pump.
- Pumps are 100% factory tested and calibrated.
- Quiet operation solenoid valves are available in several voltage ratings with your choice of flexible conduit cable or attached connector plugs.
- Perfect for OEM and replacement parts markets.



Hago Accessory Products

Nozzle Adapters

Hago single nozzle adapters are offered in three sizes. In addition adapters are available in dual and double formats (single and two stage). This allows two nozzles to spray simultaneously or independently of one another. Our standard construction is made of brass but special orders for 303 or 316 stainless can be fulfilled. Adapters are available with 1/8" or 1/4" NPT female connections.



Strainers & Filters

Our strainers and filters have been designed in several configurations. All are based upon standard flow rates of 1.35 GPH and above. Strainer and Filter bodies are made of brass. Stainless steel construction is available as a special order. All screens are specialty designed mesh stainless steel wire cloth. Wire cloth special mesh is also available for fractional size nozzles as a special order. Sintered bronze filters rated to 40 microns are supplied on all low flow nozzles rated up to 1.35 GPH. Strainers and filters are supplied on nozzles above this GPH rating. All strainers and filters are made with 3/8" – UNS male thread to match the Hago nozzle.

Technician Inspection Mirrors

Hago's selection of flame inspection mirrors feature chrome plated telescoping handles and a highly polished, optical quality stainless steel mirror. Handles and replacement mirrors are available separately as well.



Nozzle Boxes

Our nozzle boxes are constructed of rugged and durable heavy gauge steel. The single nozzle box holds 50 nozzles and measures 10-1/4" x 7-1/4" x 1-5/8". Space within the box has been made for 3 nozzle adapters.

The double-tiered box holds up to 100 nozzles and has space for 6 nozzle adapters. This box measures 10-7/8" x 7" x 3-1/4".

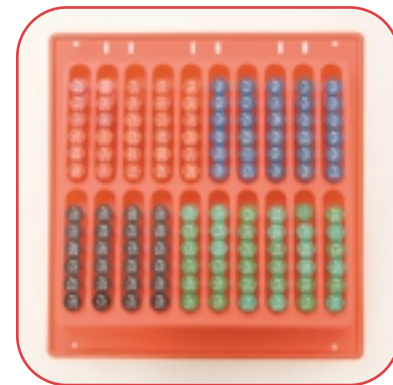
Both include plastic inserts that accommodate a variety of branded nozzles.



Hago Point of Purchase Displays

Vacuum Formed Wall Displays

This eye-catching merchandiser has a transparent lid to prevent pilferage and holds 140 nozzles. It is also quite compact at 14-1/2" x 15".



Steel Merchandisers

Hago's mass nozzle merchandiser accommodates 648 nozzles within 36 vertical channels for quick and easy access. Measuring 32" x 14-1/2", the display enhances incremental, impulse nozzle purchases.



Floor Mats

Our merchandising objective is to be seen wherever customers look. These mats are proven winners in packaged goods environments and decorate your store as well.



Lighted Signs

Hago lighted signs are a lightweight and dramatic way to enhance both the awareness of Hago and the image of your store. Using a single fluorescent bulb with a line switch, the unit is extremely economical. Our quick snap graphic frame release makes customizing the graphics easy and fast. Want a graphic change to customize the sign for your store? Just call Hago customer service at 1.800.710.HAGO.



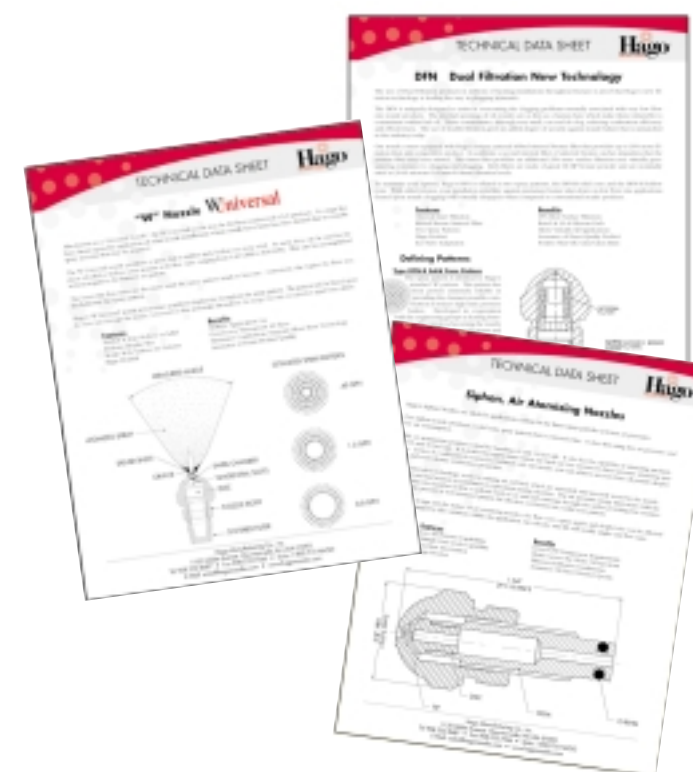
Banners

Banners can be customized to include your name and the message of your choice. In addition, generic Hago branded banners are available.



Literature

A full line of technical data sheets and promotional information materials are available as you require them. You can download all of our printed materials at www.hagonozzles.com under the customer service heading



Counter Mats

With powerful and compelling graphics, our high quality mats include Hago nozzle series descriptions, flow/pressure rates and a brand interchange chart.

Display & Literature Logistics

Displays and literature requests can be easily fulfilled through our web site at www.hagonozzles.com or by calling 1.800.710.HAGO

The Hago Store

Our store includes a variety of premium merchandise that can be used to enhance the sales of Hago nozzles. Hard goods products include stainless steel coffee mugs, clocks, flashlights, pens, golf balls and watches.

Apparel items include 3-season jackets, golf jackets, golf shirts, tee shirts and hats.

All of our premium items are high quality and are in keeping with the brand image of Hago products. All items can be ordered on line at www.hagonozzles.com.



Hago Website

www.hagonozzles.com

Hago's web site has been re-designed to better reflect the positive changes and advancements that have been taking place within our organization. The site is easy to navigate and has a quick search option. In addition, for oil burner techs, there is a special section that allows for continuing education

credits through NORA. Charlie Bursey our Regional Sales & Technical Service Manager will have regular features as a well as an "Ask The Technician" corner. The sites search capability through its "Knowledge Center" makes finding information about a wide variety of fuel metering and atomization subjects simple and fast. You can refrence, download or inquire about any of your



product, merchandising or technical needs through our site. Order transactions and processing will be available soon as will credit card purchases



Terms & Conditions of Sales (For the Domestic Market)

Credit:

Open account is granted only based upon a successful credit check that is approved by the company Controller. The credit application must be completed and returned including at least three (3) supplier and one (1) bank reference. Payments made in a timely manner with satisfactory credit information (history) will be the basis for establishing a credit line. The credit line can be reviewed at any time based upon order patterns and payment history. Open account terms are based upon a 1% discount for payments post marked and mailed within ten (10) days of the date of invoice or net thirty (30) days. Hago reserves the right to rescind cash discount terms if it is found that the terms are being abused in any way. A credit application is available on our website at www.hagonozzles.com.

Shipping Lead Times:

Hago seeks to ship orders for items kept in stock the same day if the order is placed by 2:00PM that day. Non-Stock orders are to be shipped within five (5) days of order receipt if ordered by 2:00PM that day. All other order shipment dates (Industrial Custom Orders) will be quoted and communicated as part of a customer quotation letter and form. Hago cannot be responsible for Acts of God or other factors beyond our control. Shipment dates are based upon defined production policies and information up dated within the company's operating control system. Circumstances beyond the company's control may render shipment commitments inaccurate. As such, we accept no penalty for late shipments unless authorized in writing at the time of order acceptance.

Prices:

All prices quoted will be based upon the latest price list in effect at the time of shipment. Hago reserves the right to increase prices without notice. All prices are ex-production facility, Mountainside, New Jersey 07092, USA unless otherwise noted.

Freight:

All prices for freight are F.O.B., our Mountainside facility unless otherwise quoted at the time of order. United Parcel Ground service will be used unless otherwise specified by a customer. Freight costs are pre-paid and then added to the invoice.

Returns:

Purchases made from Hago may not be returned without written permission from the factory. Goods returned within thirty (30) days of purchase are not subject to a financial penalty. Goods returned after more than thirty (30) days from their purchase date are subject to a minimum fifteen percent (15%) handling and re-stocking charge. No goods will be accepted after more than two (2) years from their date of purchase. Credits issued for any return may only be used against future purchases. No cash refunds will be issued. Please note the following return of products protocol as follows:

- Only unused nozzles in their original containers are acceptable.
- Nozzles verified to have been purchased within the past two (2) years will be credited at the current price, less a fifteen percent (15%) restocking charge.
- A minimum of twelve (12) pieces per size can be returned.
- Nozzles in containers with clear caps will be scrapped, with no credit issued as they are in excess of twenty (20) years old.
- Nozzles which upon re-testing do not meet current production standards will be scrapped with no credit issued.
- Refunds will only be made in the form of a credit to a customers account to be used against current invoices or future orders.
- All items to be returned must be authorized in advance by the factory or a Hago sales representative and assigned an RGA number. This number must appear on all paperwork related to or accompanying the return.
- All returns must be shipped pre-paid.

Warranty:

All Hago products are guaranteed against defects in workmanship and materials. We will replace without charge any nozzle found to be defective upon installation. A suspected defective nozzle must be returned to Hago pre-paid in its original container for our inspection purposes. Nozzles found to be damaged due to misuse or mishandling will not be eligible for replacement or refund. If our inspection finds the nozzle to be defective, we will replace it, and issue a credit for the return freight costs incurred. Hago accepts no responsibility for defective workmanship or materials other than repair or replacement of the item under either the express or implied warranty.



HAGO MANUFACTURING CO., INC.
1120 Globe Avenue, Mountainside, NJ 07092
Telephone: 908.232.8687 / Fax: 908.232.7246
Website: www.hagonozzles.com
Email: sales@hagonozzles.com

Hago Precision Spray Nozzles
100% Tested, 100% Guaranteed, 100% Stainless Steel