

Industrial Dispensing Equipments

CATALOGUE OF PRODUCTS

Third edition

DISPENSING IS OUR JOB,
PRECISION IS OUR PERFORMANCE



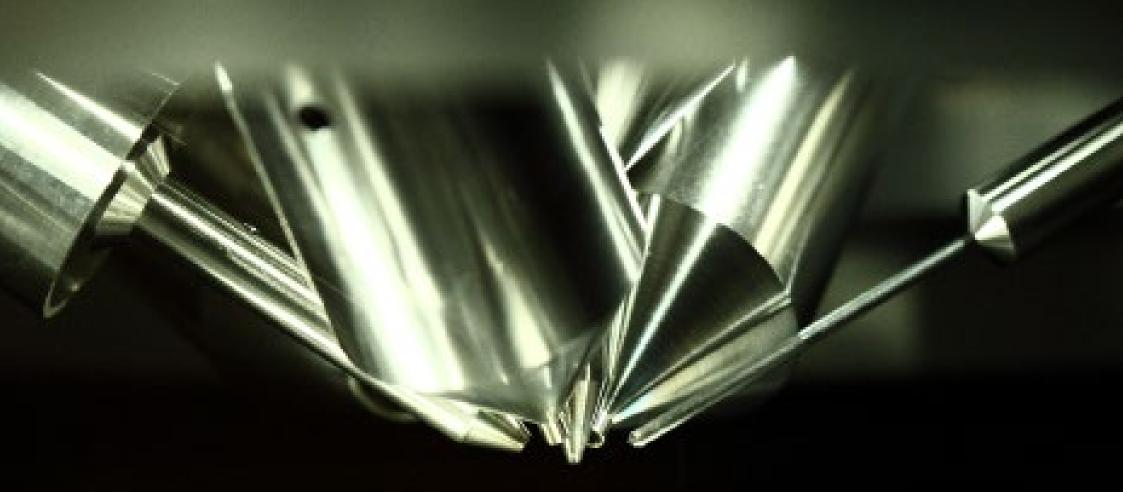












SPECIALISTS IN DISPENSING

Dispensing a liquid with accuracy and in repetition during the manufacture procedure is our specialty.

Knowing that liquids are usually instable and invariable depending on heat conditions, hygrometric conditions etc. we offer you a choice between concepts as time, pressure and for each type of application.

Being convinced that our expertise should be as complete as possible, we also provide you tools preparing your liquid (mixing and degasification) and polymerize your adhesives after dispensing (UV insolation).

GENTEC, a Belgian company, total commitment is to provide you the largest and most comprehensive range available on the market with the highest quality and best prices.

Our expendable materials, needles, syringes and mixing valves are generally considered as the best materials available on the market (price, quality and reactivity).



As experienced specialists in dispensing solutions, we provide you a wide range of reliable, tested and efficient dispensing equipments. Those equipments have provided our clients solutions in line with their financial and technical expectations. Our partners, POLY DISPENSING SYSTEMS, PVA, GRACO, JANOME, EXCELITAS, PHOSEON, EIT, COX, THINKY, LARIUS, SEMCO, PRECI FLUID DISPENSING, etc. are known for their relevance and innovations.

DURABILITE

We deliver reliable, tested and efficient dispensing equipments to dispense easily and permanently all industrial liquids and pastes: adhesives, lubricants, welding pastes, solvents, silicones, dyes, activators, RTV's, paints, UV, medical and food products.

All our products are available for industrial sectors like aeronautics, electrics, automotive, jewellery, medical and food industry.

SATISFACTION

Our total commitment is the satisfaction of our clients and we exert every effort to give them the most complete service during pre-sales and post-sales. The acquisition of our products guarantees you:

- Better quality, sanitary conditions
- Higher productivity
- Lower production costs and less product consumption
- Progress on ecological concern of fabrication

PRECIFLUID CONCEPT

DISPENSING SYSTEMS 10



PreciFluid Concept

PreciFluid accessories

Air - Pulse Dispenser 7050 (Pick Up)

Air - Pulse Dispenser Pedal

Air - Pulse Dispenser 7150

Air - Pulse Dispenser 7250

Air - Pulse Dispenser 7350

Air - Pulse Dispenser 100ETC

Air - Pulse Dispenser 7550

Air - Pulse accessories

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PosiDot needles

Precision needles

Oval needles

Plastic needles

Brush needles

Stainless needles

Special needles

Selection guide

Static mixers

Air - Pulse consumables

PreciFluid consumables

VALVES SYSTEMS 32



MV metering valves

CA Diaphragm

FC High pressure

FCM No Contact

FCS Augur valve

Valves with feeding auger

PC Two - Component

Valve controllers

GRACO DISPENSING SYSTEMS

50



Dispensing systems PR70, PR70V, PR70E

MD2 Dispensing Valve

HFR Metering System

High performance valve PD44

Display Module

Controller

Power supplies

DOSING ROBOTS 81



Cartesian robots: JRN Series
Cartesian robots: JRNF Series

Scara robots : JS Series

Scara robots : JSR Series

Applications



125



PRECIFLUID CONCEPT

DEVICES AND ACCESSORIES



Manual pump MATO

Pneumatic pump DYNA - MITE

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Pneumatic pump CHECK MATE

SmartWare technology

Pneumatic pump HUSKY

Gearing pump BEINLICH

Metered pump

Pressure tanks

OMNICURE UV LAMP 97



UV sources ARC: Serie S

Radiometer R2000

Accessories Serie S

LED UV sources : Serie LX

LED Light Meter

Accessories Serie LX

LED block

COX GUNS 132



Mono-component guns Bi-component guns Special guns

PLANETARY MIXERS 113



Applications

ARE 250: High quality mixer SR 500 : Solder paste mixer

ARV 310: High quality vacuum mixer

ARE 930 : Twin vacuum mixer

ARE 500: Higher load mixer

ARE 400 TWIN: Flexible lab twin mixer

ARV 5000 : Planetary centrifugal vacuum

ARC 40H: Vacuum syringe charger

SEMCO CONSUMABLES

Cartridges Pistons

Semkit

Nozzles

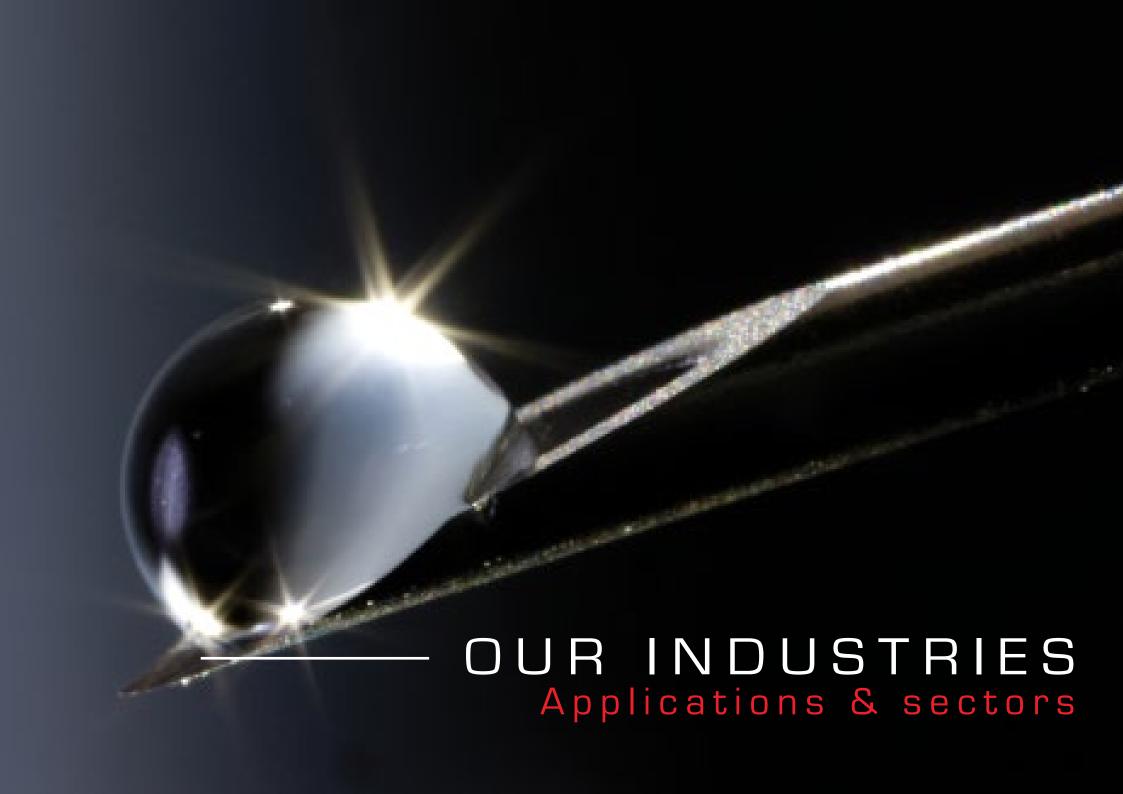
Spatulas

Connections

Caulking guns

Semkit mixing valves











FI FCTRONICS

The accurate dispensing systems of Gentec guarantee a reliable and repetitive dispensing which makes it possible to optimize the assembling process of electronics for any application: dot deposits, lines or even varnishing.

The dispensers optimize your manufacture capability for different types of assembling. With volumetric dispensing systems, dispensing bi-component epoxies or other fluids with a variable viscosity has never been that easy. With the different valve systems you substantially increase your productivity on automatic and semi-automatic operations.

Operations like coating on cards, Gentec presents the dispensing robot Janone, a compact and autonomous unit which offers you the possibility to make highly precise movements to dispense. In the optoelectronic industry, the Omnicure range is highly recommended for the treatment of polymers.

Materials

- Solder pastes
- Epoxies
- Silicones
- UV resins
- RTV
- Cyanoacrylates

Dispensing application

- Optical fibres
- Electronic chips
- Touch screens
- Hyper frequent components
- Circuit board assemblies
- Condensers, fuses, relays
- Electric connectors
- Printed circuits for CMS
- Mobile phones
- Cameras

MEDICAL

The need of equipments in the medical industry is more and more demanding in terms of reliability and cleanliness. Forced to respect these rigorous regulations, this sector is an important market for Gentec.

GENTEC helps you with the manufacture of medical devices from prototypes until manufacturing on high scale.

Our equipments are used for applications such as assembling plastic materials, glass and metals, equipments of lubrication, coating, distribution of UV adhesives for assembling needles, catheters and other plastic, glass and metal components. Additionally, dispensing systems are used to apply little quantities of lubrication of medical level, components in flexible rubber before their assembly to syringes or other components.

Dispensing valves, potting and coating are examples of other possible applications.

Materials

- UV glues
- Epoxies
- Cyanoacrylates
- Silicones
- RTV
- Abrasar creams
- Lubricants
- Hydrophilic coating
- 2-components
- PU, silicones

Dispensing application

- Catheters
- Cardiac pacemakers
- Contact lenses
- Lubrication
- Chirurgical and dental instruments
- Defibrillator
- Hearing aids
- Medicine





The use of bi-component adhesives, silicones, foams and coatings is often necessary for construction applications such as securing chemical anchors, repairing cracks and seals.

Gentec provides you products of the COX and MIXPAC range which makes dispensing of sealing products and embedding in sub-trade possible.

The products are manual, pneumatic or electric guns as well as numerous nozzles guaranteeing accurate dispensing and limiting rejections.

Materials

- Epoxies
- Polyurethanes
- Silicones
- Polyesters
- Lubricants
- Cements
- Methacrylates

Dispensing application

- Sealing jointures
- Chemical embeddings
- Repairing cracks
- Dispensing silicone
- Window and door seals



RENEWABLE ENERGIES

Facing the interest in environment and renewable energies by industrial constructors combined with their demand in terms of rapidity, Gentec provides you the PVA and PRECI FLUID DISPENSING range.

These products are used in numerous applications in the solar assembly process. Solder pastes, sealing systems, coatings and electric termination of a thin sealing foil and other fluids are the main application used in the fabrication of photovoltaic cells.

Gentec offers you a complete range of products to optimize your manufacture process as quick as possible and with the lowest production costs.

Starting with valve systems, really quick dispensing spurts on precise coating systems.

- The most known applications:
- Solder paste dispenser for the connection of cables of the junction box
- Board/ sealing frame
- Junction box put in a jar to protect the environment
- Encapsulation of fluid cells
- Coating of the back side with a thin layer
- Sealant electric connection/ lubricant
- Structural adhesive for fixation

Materials

- Ethanol/Phosphor
- Solder paste
- Fluxed paste
- Printable ink
- Silicones
- Conductor adhesives

Dispensing application

- Doping
- Spraying of ink on modules with thin foil
- Tabbing
- Stringing
- Frame sealing of the modules
- Line dispensing
- Engraving
- Coating







AEROSPACE

The accuracy, reliability and traceability are essential in the production and assembly of aerospace pieces. The main actors count on Gentec equipment to mix and dispense with accuracy lubricants, solvents, mastics, adhesives and pastes.

The increase on the aerospace market which has been highly driven by the development of the civil aviation and the renewal of military equipments makes of Gentec the key supplier in this sector which leans on the quality of products and the ability to react.

The dispensing equipments of Gentec are mainly used in the following aerospace categories:

- Assembly, structure of planes and spare parts
- Manufacture of satellites and missiles
- Manufacture of research devices, detection devices and arming devices

Materials

- Lubricants
- Solvents
- Sealing products
- Adhesives
- Epoxies
- Anaerobics
- Solder pastes

Dispensing application

- Coating by selective spraying
- Communication tools
- Activation systems and remote control
- Sealing and bonding
- Record flights
- Mix of mastics
- Measuring instruments
- Military munitions
- Electric systems
- Satelites

AUTOMOTIVE

The automotive industry knows numerous distribution problems, going from coating by selective spraying, potting to dispensing sealing jointures or even the application of adhesive dots and lubricants. Gentec represents a supplier of choice for automotive manufacturers and equipment suppliers. They choose our products and our services to overcome many manufacturing problems.

The automotive industry is in permanent evolution. Their requirement in terms of effectiveness, innovations but also savings is so much higher. That is why they carefully choose their dispensing equipment supplier. For each new sensor, injector, cooling system or sun visor, the production rate and quality are more and more higher. Therefore, Gentec provides you solid, coherent and reliable machines on which manufacturers can long-term rely on.

Materials

- RTV
- Anaerobics
- Lubricants
- Cyanoacrylates
- UV adhesives
- Epoxies
- Methacrylates
- Cements

Dispensing application

- Brakes and suspensions
- Windscreens
- Airbags and wheels
- Air-conditionina
- Motors and components
- Electric systems
- Power supplies
- Lights and alarms
- Mirrors
- Cables and electric bundles
- Sensors, relays, regulators



— DISPENSERS
Volumetric and pneumatic systems



PRECIFLUID CONCEPT

FEATURES

Adaptable to 2.5 oz cartridges on demand

Resistant fixing of the screw step by step using a magnetic system

Minimum volume is going until 0.06 micro liters

Pushing capacity is going higher than 500,000 cps

Instinctive use

Programmable sequences

Solid conception in anodized aluminum

Weights less than 100gr

Exists in 3 types: Standard - Integration Kit

Exists in 3 versions: 3.5. 10cc - 30cc - 55cc

All PreciFluid consumables are provided



PRESENTATION

PreciFluid is a high developed technology offering quality dispensing. This volumetric dispenser which is compatible with all types of fluids (from the most liquid to the most viscous types) combines speed and accuracy while keeping a simple and ergonomic structure.

By the motion of a stepping motor which performs a repetitive and controlled movement of a volume, this range goes beyond expectations in terms of pneumatic dispensing systems (at least 7 times more accurate) and allows remarkably more little deposits than volumetric dispensers

available on the market, with its minimum volume starting at 0.06 micro liters. This patented dispenser is the only one which guarantees you a volumetric deposit with such accuracy.

Designed and manufactured in Switzerland by PRECI FLUID DISPENSING, the electro-mechanic motion of PreciFluid guarantees an accuracy record regardless the viscous variations of the dispensed fluid.

PreciFluid provides you also a high pushing capacity going beyond 500.000 cps thanks to the torque multiplication.

- Consistent volumetric dispensing
 - Compensation of the viscous variations
- Regular and smooth linear movement
- No separation of complex fluids
- Programmable dispensing speed
- Manual ergonomic/automatic gun
- Patented system

PRECIFIUID: FEATURES

DropTips Needles

- Size from 14G to 32G
- Coded and colored nozzles
- Silicone free certified

DropTube Holster

- Adaptable size
- Stabilization magnet
- Aluminum Conception

BarrelDrop Syringes

- Sizes: 3, 5, 10, 30cc
- UV protection
- Certified Silicone free

PistonDrop Piston

- Magnetic holding
- Without dripping
- Straight walls



PreciFluid Guns

The system of linear distribution with a stepping motor and a magnetic feeding augur guarantees an identical movement (forward, backward) for each deposit until the syringe is empty. Stability is the most important factor to get a consistent deposit of the fluid.



FEATURES

I LATOTILO			
Command	Manual/Pedal/PLC		
Minimal deposit	0.06micro liters		
Gun length	170 mm		
Gun weight	< 100 gr		

OPERATING

The micro-drive system operates with a linear stepping motor which generates a consistent movement of the product in the syringe.

In comparison to pneumatic dispenser which operates with air pressure, the deposit of the PreciFluid volumetric dispenser is controlled and more efficient in terms of accuracy, speed and repetition.

Moreover the outstanding performances, the use of PreciFluid remains instinctive. Sequenced by already registered programs, the push actions are regular and consistent. You only have to

numerically introduce the volume and the speed to perform the dispensing. The dispenser will make the calculations. There is no need to adjust the entries in function of the temperature and the place of dispensing conditions.

Enter numerically the volume, the requested speed of deposit and the dispenser will make the calculations.

PreciFluid is provided with a revolutionary attach system. The screw and the piston are fixed with a magnet which offers an optimal stability and push action, without any risk of shocks or warming-up of the fluid.

- No separation or warming-up
- No shocks or pressured air
- Consistent and regular pushing
- Optimal repetitiveness
- Certified without silicone
- Maximal flexibility
- Adaptable to all fluids



PRECIFLUID: ACCESSORIES

Gun Device

PreciFluid device is easy to handle and give an ergonomic use of the gun possible which is easier for its use. Completely manufactured in aluminum

■ DropTube holder

The holder closes strongly the syringe on the gun. They exist in 3, 5, 10 and 30cc but they are adaptable on demand in case you have specific contents.

BarrelDrop Syringes

Developed for high performances, the syringes with a round nozzle are available in 3, 5, 10 and 30cc. They are certified without silicone and are available in black or brown to protect from UV.



More accessories and consumables at : www.gentec-benelux.com

CONSUMABLES

DropTips Needles

The DropTips needles are certified without silicone and are conform to industrial demands, which is an important item for accurate dispensing.

They are strongly fixed on the syringe thanks to an easy LuerLock screwing. Available diameters from 14G to 32G.

PistonDrop Pistons

In opposition with standard pistons, the PistonDrop pistons with metallic inserts are moulded with accuracy in order to obtain a regular flow and a uniform movement. However, these are equipped with a metal nozzle which guarantees a fixation with the magnetic screw of the gun.

FingerDrop Command

The FingerDrop interruptor replaces the pedal and is directly connected on the PreciFluid.

AIR - PULSE CONCEPT



PRESENTATION

The electro-pneumatic dispensers are recommended for a consistent deposit of liquid products, fluids or pastes of any kind, and this repetitively and calibrated.

The universal dispensers Air-Pulse exist in version O-1 Bar for very liquid products and in O-7 Bar for any other product.

They are equipped with a precise adjustment to get a consistent debit of the product and an

adjustment of dispensing time from 0.01s to 60s.

In a syringe, a constant pressure during a given time, makes it possible to deliver repetitively a quantity of product by a simple impulsion on the pedal or the push button.

A venture system (vacuum) makes it possible to maintain the product in suspension in the syringe.

USE	7050	7150	7250	7350	100ETC
Thick paste	NA	++	++	++	++
Fluid to a liquid product	NA	++	++	++	++
Cyanoacrylate liquid	NA	+	+	+	+
Solder paste	NA	++	+	++	+
Bi-components	NA	++	++	++	++
Resins, charged products	NA	+	++	+	++
Micro dots	NA	++	++	++	++
Potting and filling	NA	+	+	+	+
Mixed and frozen product	NA	++	++	++	+

BASE CONTENT	7050	7150	7250	7350	100ETC
Foot pedal	++	++	++	++	++
Manual	++	++	++	++	++
Venturi	++	++	++	++	++
Mixer	NA	0	0	0	0
Needles kit	NA	++	++	++	++
Syringes and pistons kit	NA	++	++	++	++
Syringe adapter	NA	++	0	++	++
Regulating filter 5 microns	In option	0	0	0	0
Drying-regulating filter	In option	0	0	0	0
Holding system	++	NA	NA	NA	NA



The Pick-Up venturi systems are made in order to manipulate little pieces, small components, chips, etc. They are equipped with a vacuum-air valve which is electrically actioned with the pressure of the foot pedal.

FEATURES

Material	Industrial metal box	Pressure Display	Venturi adjustment
Models	1.33 - 7 Bars	İ	
Dimensions	13.9 x 17.7 x 6.6 cm		
Weight	1.14 kg		
Control	Pedal		
Air entry	20 - 100 psi		
AC entry	110 or 220 VAC		
Display	Pressure indicator	Pressure adjustm	nent Pick-Up



DISPENSER PEDAL

Dispensers with pedal are built to dispense product quantities which are visible by the human eye. They deliver the fluid by a simple impulsion with the pedal which makes it able to reduce or prevent manual tiredness of the user.

Material	Metal and plastic	Command	Venturi adjustment
Models	0 - 7 Bar	pedal	,
Dimensions	25.7 x 14.2 x 13		
Weight	1.38 kg		10
Control	Pedal		
Air entry	100 psi		TOT I
AC entry	No		Gun
Rate	NA	Pressure disp	lay ————— entry



DISPENSER 7250 ······



The dispenser 7250 which only exists in 0-7 bar provides a time/pressure calibrated dispensing in more economic formats than the dispenser 7350 and is provided with a dispensing time in hundreds of seconds.

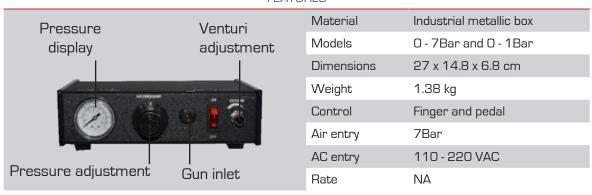
FEATURES

Manual/ P	ressure	e Venture	Material	Industrial metallic box
· · · · · · · · · · · · · · · · · · ·	ljustment	adjustment	Models	0 - 7Bar
			Dimensions	21.9 x 15.1 x 6. 7 cm
			Weight	1.82 kg
			Control	Pedal
			Air entry	7Bar
Time '			AC entry	110 - 220 VAC
adjustment	adjustment display Inlet	Inlet	Rate	500 cycles / minutes

DISPENSER 7150

The dispenser 7150 exists in 0-1 bar version for very liquid products and in 0-7 bar for other products. The dispensing is auctioned by a pedal as "the operator judgement".







The calibrated time / pressure 7350 dispenser exists in version 0-1 bar, for highly liquid products, and 0-7 bar for other products. It is equipped by a MAC solenoid valve offering a constant flow rate and adjusting dispense time in hundredts of seconds.

FEATURES

Material	Industrial metallic box	Pressure Time	Venturi
Models	0 - 7 Bar and 0 - 1 Bar	display display	adjustment
Dimensions	21.9 x 15.1 x 6. 7 cm		
Weight	2.01 kg	AN PRODUCE OF THE PROPERTY OF	
Control	Finger and pedal		· 2
Air entry	7Bar		01
AC entry	110 - 220 VAC		_
Rate	More than 600 cycles/min	Pressure Gun adjustment Inlet	



DISPENISER 100FTC

The 100ETC dispenser (digital) calibrated time / pressure exist in 0-1 bar and 0-7 bar. Equipped by a MAC solenoid valve offering a constant flow rate and adjusting dispense time in hundredts of seconds.

Material	Industrial metallic box	Pressure Time Venturi
Screen	LED	display display adjustment
Models	0 - 7 Bar et 0 - 1 Bar	
Dimensions	21.9 x 15.1 x 6. 7 cm	
Weight	1.68 kg	
Control	Finger and pedal	
Air entry	0 - 100 psi et 0 - 15 psi	
Cadences	More than 600 cycles/min	Pressure adjustment Gun entry





DISPENSER 7550 ·····

A dispenser and a Pick-Up in one. The dispenser 7550 time/pressure calibrated exists in 0-1 bar and in 0-7 bar. With its MAC solenoid valve, the dispenser makes it possible to dispense with accuracy very little quantities of products and simultaneously, it enables a movement of little pieces by aspiration (like the Pick-Up dispenser).

This double function enables you to gain time, money and place. They are delivered with a kit of starter consumables as well as an input pen.

Dispensing

The first function of the PDS7550 is the dispense of fluids thanks to the application of a consistent pressure during a time laps. It delivers repetitively a quantity of product by the simple impulsion of a push-button or a pedal.

Pick - Up

The dispenser 7550 has also a venture system which enables to maintain a small item in suspension at the top of the gun.

By one easy action of the manual command or pedal, the system aspires. Once in position, you simply have to release the command to liberate the item.



Material	Industrial metallic box
Models	0 - 7Bar et 0 - 1Bar
Dimensions	25.7 x 12.7 x 6.7 cm
Weight	1,68kg
Control	Finger and pedal
Air entry	7Bar
AC entry	110 - 220 VAC
Rate	More than 600 cycles / minutes



AIR - PULSE: ACCESSORIES

SYRINGE SUPPORTS

A handy and stable support which enables to hold the syringes.



FINGER SWITCH

The finger switch replaces the pedal which is directly connected to the dispenser.



TRAP FILTER

A trap filter for the syringe adapter which prevents the fluid to move back up in the dispenser.



NEEDLES KIT

A selection of 50 PosiDot needles for the Air - Pulse dispenser.

Possibility of a bulk packaging to get a bigger quantity.



The regulator is equipped with a drying filter which purifies air. It is recommended for dispensing cyanoacrylate.



Many other accessories and consumables are available on : www.gentec-benelux.com

CONSUMABLES

Accessories ada

oted on your needs



30c Dispo





All our consumables are qualified and approved in France, precision - manufacture, without silicone and certified to be conform to the industrials demands.

SYNOPTIC



POSIDOT NEEDLES

Straight but flexible

The needles made of polypropylene are burr-free and guarantee an accurate control of dispensing. They are recommended for use with fluids that react to metals or to avoid stripes.



GAGE	12.7mm	38.1mm
15G	Z532115	Z534115
18G	Z532118	Z534118
20G	Z532120	Z534120
25G	Z532125	Z534125

Perfectly straight stainless steel

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free



GAGE	6.35mm	12.7mm	25.4mm	38.1mm *
14G	Z511114	Z512114	Z513114	Z514114
15G	Z511115	Z512115	Z513115	Z514115
16G		Z512116	Z513116	Z514116
18G	Z511118	Z512118	Z513118	Z514118
19G		Z512119	Z513119	Z514119
20G	Z511120	Z512120	Z513120	Z514120
21G	Z511121	Z512121	Z513121	Z514121
22G	Z511122	Z512122	Z513122	Z514122
23G	Z511123	Z512123	Z513123	Z514123
25G	Z511125	Z512125	Z513125	Z514125
27G	Z511127	Z512127	Z513127	Z514127
30G	Z511130	Z512130	N/A	N/A

Teflon® coating

The Teflon® needles are burr-free guaranteed and assure accurate control of dispensing. They are recommended for use with fluids that react or adhere to metals like cyanoacrylates and prevent scratching.



Ø INSIDE	12.7mm	COLORS
0.51mm	Z592121	Grey
0.15mm	Z592125	Pink

Microdot

PosiDot hub in polypropylene with polished 304 Stainless Steel tubing out burr-free. Manufactured in a little size to dispense microdots.



GAGE	6.35mm	7.92mm	COLORS
27G		Z518127	Clear
30G		2518130	Lavander
32G	Z511132		Yellow

Conical HiFlow

The precision cone allows to flow a fluid without restriction reducing stringing and ooze. Polyethylene molded with UV light block. These needles are equipped with the PosiDot base.



GAGE	FLEXIBLE	RIGID
14G	Z520114	Z580114
16G	Z520116	Z580116
18G	Z520118	Z580118
20G	Z520120	Z580120
22G	Z520122	Z580122
25G	Z520125	Z580125
27G	Z520127	Z580127



POSIDOT NEEDLES



Precisely Bent Stainless Steel

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free. They are bent at 45 and 90 degrees angles.

GAGE	12.7mm 45°	12.7mm 90°	38.1mm 45°
14G	Z562114	Z572114	Z564114
15G	Z562115	Z572115	Z564115
16G	Z562116	Z572116	Z564116
18G	Z562118	Z572118	Z564118
19G	Z562119	Z572119	Z564119
20G	Z562120	Z572120	Z564120
21G	Z562121	Z572121	Z564121
22G	Z562122	Z572122	Z564122
23G	Z562123	Z572123	Z564123
25G	Z562125	Z572125	Z564125
27G	Z562127	Z572127	Z564127
30G	Z562130		

	COLORS	GAGE	DIMENSIONS Ø ID.	DIMENSIONS Ø OD.
			mm	mm
C	Olive	14G	1.54	1,83
7	Amber	15G	1.36	1.65
	Oark Grey	16G	1.19	n/a
G	Green	18G	0.84	1.27
L	ight Green	19G	0.69	1.07
F	Pink	20G	0.61	0.91
F	Purple	21G	0.51	0.82
E	Blue	22G	0.41	0.72
C)range	23G	0.33	0.65
F	Red	25G	0.25	0.52
C	Clear	27G	0.20	0.42
L	.avander	30G	0.15	0.31
Υ	'ellow	32G	0.10	0.23



Thick pastes

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free. A length of $6.35 \, \mathrm{mm}$ designed to use thick pastes or charged pastes.

GAGE	6.35mm
18G	Z511118
20G	Z511120
21G	Z511121



Thin surface

PosiDot hub in polypropylene with in polished 304 stainless steel tubing out burr-free. The chamfered needle reduces surface tension and enables an easy dispensing of the fluid on thin surfaces.

GAGE	6.35mm
18G	Z511118
20G	Z511120
21G	Z511121



Anti-UV shield

One-piece shield slides over the tips and blocking light from penetrating the PosiDot polypropylene hub fits at the end of the syringe ideal for UV and light sensitive materials.

SYRINGE	12.7mm	COLORS
5cc	0993971	Noir
3.10-55cc	0999971	Noir

DISPENSING NEEDLES

PRECISION NEEDLES



The conical form of these needles makes it possible to let the fluid easily flow with a progressive reduction and loss of charges. The result is that there is a bigger flow than when you use a stainless cannula needle for an identical pressure. Hereby you can work with less pressure in order to manage the material.

- Needle sizes inferior to 50 microns
 Codified and coloured needles
 - High accuracy/low costs
 - High flow

Code: A-100-00-00-XX (XX - Rate)

mm	mm	
	4.0.45	
18 1.041	1.245	
19 0.864	1.067	
20 0.686	0.889	
21 0.609	0.813	
23 0.564	0.635	
25 0.437	0.508	
27 0.335	0.406	
30 0.233	0.305	
06 0.16	0.24	
04 0.11	0.20	
02 0.06	0.16	

OVAL NEEDLES



These needles enable a dispensing of thick materials like putty and epoxies in flat lines.

COLORS	GAGE	ØOD
Ambre	15	1.98 x 0.41mm

NEEDLES IN POLYPROPYLENE AND P.E.

Flexible needles made in polypropylene and plastic which can be cut at the requested length.



GAGE	ØID
	mm
14	1.60
16	1.19
18	0.84
20	0.58



The Teflon $\ensuremath{\mathfrak{B}}$ flexible needles in plastic can be cut at the requested length.

GAGE	ØID	
	mm	
15	1.32	
18	0.84	
20	0.58	
25	0.25	



BRUSH NEEDLES

SERIE B









	PDS - 1005	PDS - 1006	PDS - 1007	PDS - 1008
	Flat	Flat	Flat	Flat
	4 mm	5 mm	6 mm	6 mm
	42 mm x 6 mm			
	Caliber : 14,15,18,20,21, 22,23,25,27 G			
	Flexible or rigid bristle	Flexible or rigid bristle	Soft bristle	Soft bristle









PDS - 1009	PDS - 1010	PDS - 1011	PDS - 1012
Flat	Flat	Flat	Conical
7 mm	10 mm	11 mm	4 mm
42 mm x 6 mm	42 mm x 6 mm	42 mm x 6 mm	42 mm x 6 mm
Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G	Caliber : 14,15,18,20,21, 22,23,25,27 G
Soft bristle	Flexible or rigid bristle	Soft bristle	Soft bristle

SERIE A ·····

These brush needles are equipped with a luer lock hub tube in stainless steel wrapped in a nickel-plated tube. There exist 6 different bristle materials going from soft to very hard. They are available with different gages with the same international colour code as the general needles. Other sizes are available on demand.





STAINLESS STEEL NEEDLES



Laboratory/ Industry
Nickel-plated cannula with a polished stainless steel 303 tube. LuerLock connection.

GAGE	12.7 mm	25.4 mm	50.8 mm
8G	E121201	E122201	E124201
10G	E121191	E122191	E124191
11G	E121181	E122181	E124181
12G	E121171	E122171	E124171
13G	E121161	E122161	E124161
14G	E121151	E122151	E124151
15G	E121141	E122141	E124141
16G	E121131	E122131	E124131
18G	E121111	E122111	E124111
19G	E121101	E122101	E124101
20G	E121091	E122091	E124091
21G	E121081	E122081	E124081
22G	E121071	E122071	E124071
23G	E121061	E122061	E124061
25G	E121041	E122041	E124041
27G	E121021	E122021	E124021
30G	E121010	E122010	E124010



High pressure

Nickel-plated cannula prefect for high pressures. Polished stainless steel 303 tube. Thread 1/4NPT or 1/8NPT.

GAGE	THREAD	12.7 mm	25.4 mm	50.8 mm
7G	1/4 NPT	E161211	E162211	E166211
8G	1/4 NPT	E161201	E162201	E166201
10G	1/4 NPT	E161191	E162191	E166191
11G	1/4 NPT	E161181	E162181	E166181
12G	1/4 NPT	E161171	E162171	E166171
13G	1/4 NPT	E161161	E162161	E166161
14G	1/4 NPT	E161151	E162151	E166151
15G	1/4 NPT	E161141	E162141	E166141
16G	1/4 NPT	E161131	E162131	E166131
18G	1/4 NPT	E161111	E162111	E166111
19G	1/4 NPT	E161101	E162101	E166101
20G	1/4 NPT	E161091	E162091	E166091
7G	1/8 NPT	E151211	E152211	E156211
8G	1/8 NPT	E151201	E152201	E156201
10G	1/8 NPT	E151191	E152191	E156191
11G	1/8 NPT	E151181	E152181	E156181
12G	1/8 NPT	E151171	E152171	E156171
13G	1/8 NPT	E151161	E152161	E156161
14G	1/8 NPT	E151151	E152151	E156151
15G	1/8 NPT	E151141	E152141	E156141
16G	1/8 NPT	E151131	E152113	E156113
18G	1/8 NPT	E151111	E152111	E156111
19G	1/8 NPT	E151101	E152101	E156101
20G	1/8 NPT	E151091	E152091	E156091



Stainless steel needles are made for high or low pressure syringes, dispensers and valves.



These stainless steel needles can be used with high or low pressure dispensers or valves.



SPECIAL NEEDLES

Special dispensing needles designed par DL Technology are manufactured in one stainless steel block which enables to have the smoothest internal profile and to improve the liberated flow. Their outputs of chamfered needles have an embossed design to enable a close dispensing to the component during the dispensing and it enables to totally control the liberated quantity.

NEEDLES FOR A "DOUBLE" MICRO DISPENSING

- Applications: solder pastes, filled epoxies and other fluids which need a fixed distance between the needle and the substrate.
- Available sizes: 12 to 32G.
- Length: 6.35mm and 8.89mm

NEEDLES FOR SINGLE MICRO DISPENSING

- Applications: dispensing in electronics of solder pastes and filled epoxies.
- Available sizes: 12 to 32G.
- Length: 6.35mm and 8.89mm.

ENCAPSULATION NEEDLES

- Applications: encapsulation and under fill
- Available sizes: 12 to 28G.
- Length: 6.35mm and 8.89mm.

LUFB NFFDLFS

- Applications: epoxy dispensing, solder pastes and solder masks, filled adhesives.
- Available sizes: 22 to 28G.
- Length: 6.35mm



- Applications: x form is designed to dispense filled epoxies in "die bonding" applications
- Sizes are going from 0.5x5mm to 5x5mm.
- Length: 6.35mm



CONICAL NEEDLES

- Applications: any types of application, they are perfect for very loaded or viscous fluids.
- Available sizes: 18 to 21G.
- Length: 6.35mm



CERAMIC NEEDLES

Ceramic needles are available in standard or Luer Lock version. They are non-porous similar to glass and allow a as fluids flow.

- Applications: Filled epoxies and other fluids.
- Available sizes: 22 to 28G.
- Length: 6.35mm



PERSONNALIZED NEEDLES

We are able to manufacture needles on request such as multiple outlets, with a specific angle, length and diameter.



SELECTION GUIDE

MM	V cc	MM	V cc	•••••
	0.00003	7.6	0.116	
	0.0001			
1.0	0.0003	8.9	D 19/	
	0.0005	0.3	0.104	
	0.001	100	0.275	
2.3	0.003	10.2	0.275	
2.8	0.006	11.4	n 201	
3.3	0.009	11	0.001	
3.8	0.014	40.7	0.500	
4.3	0.021	12./	0.536	
4.8		•••••	•	
5.6	0.046	19.1	1.210	
6.1				

APPLICATIONS	CONIC	METAL	FLEXIBLE	TEFLON®
Very low viscosity fluid		/	√	√
Particle charged paste	✓	✓	++	
Micro-deposit		✓	++	√
Reactive fluid to metal	✓		✓	√
Deposits cavity	++	✓	✓	++
Product spreading	√	++	✓	++
Fast setting adhesive	✓	++	✓	√
Stripes, lines	✓	✓	✓	++
Fragile surface	✓	++	✓	✓
FLUIDS	CONIC	METAL	FLEXIBLE	TEFLON®
Adhesive	✓	\checkmark	\checkmark	\checkmark
Anaerobic	\checkmark	++	\checkmark	++
Coating product	✓	++	++	
Cyanoacrylate	\checkmark	++	\checkmark	\checkmark
Cyanoacrylate Gel	\checkmark	++	\checkmark	++
Epoxie	\checkmark	\checkmark	\checkmark	
Grease	✓	✓	✓	
Light sensitive adhesives		++	++	
Oil	++	✓	✓	++
Painting	++	✓	✓	
Silver epoxy		++		
Solder paste	✓	✓	++	
Solder mask	✓	✓	++	
Solvent		√	✓	✓
UV adhesive	✓	++	++	++



STATIC MIXERS



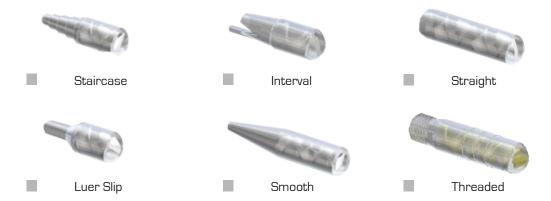
Elements to define: A: Inside diameter / B: Inlet Diameter

C: Outlet diameter / D: Number of inside elements

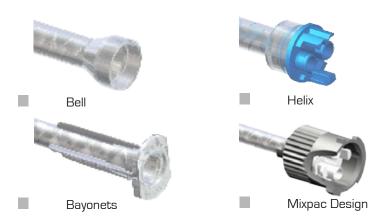
The choice of the mixer is made in function of many parameters:

- Viscosity difference between two mixed products
 - The difference in the ratio between the two components
- The expected rate, the length and diameter

OLITLET TYPES



INLET TYPES



PRESENTATION

Static mixers have a long and narrow shape and are screwed to the extremity of the two-component cartridges.

Designed for rapid mixing of two-component fluids, they are made disposable. With the integrated mixing device, the two components are mixed through the elements in order to obtain perfect homogenity. The contact between the two components is made only a few seconds before the application. The result is an uniform and perfectly controlled dispensing. There are all kinds of inlet and outlet types and sizes.

The turbo version being shorter, reduces space with a similar result.

Static mixers 50ml

The series of static plastic mixers MA and MX series are designed with a simple connection system: the twist-lock mounting. These mixers are intended primarily for cartridges [or syringes] 50 ml double with Parts A and B separated.

Different models avalaible in function of your mixing ratios and the type of product : epoxy, silicone, urethane, acrylic, polyester etc.

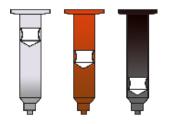
Static mixers 200 / 400ml

The series of static plastic mixers MC and MCX series is designed with a simple mounting system: 7 / 8-9 thread.

These mixers are intended primarily for cartridges (or needles) Dual 200 ml and 400ml with Parts A and B separated. Different models to suit your mixing ratios and the type of product: epoxy, silicone, urethane, acrylic etc.

AIR - PULSE CONSUMABLES

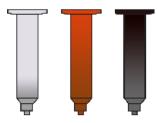
SYRINGES WITH PLUNGER



- Clear for normal fluids
- Amber for UV sensitive fluids
 - Black for sensitive to visible light fluids

Same number of syringes and plunger, protected by an anti-static bag. Packed in boxes or bulk.

SYRINGES WITHOUT PLUNGER



- Clear for normal fluids
- Amber for UV sensitive fluids
 - Black for sensitive to visible light fluids

Protected by an anti-static bag. Packed in boxes or bulk.

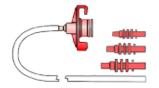
PLUNGER



The pistons push the product while scraping the walls of the syringe. They also maintain the product in the syringe to prevent leakage from the needle.

- No drip for thin to thick fluids
- Right walls for very thick fluids

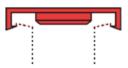
SYRINGES ADAPTER



Made in polypropylene, the adapter in one piece allows to attach the syringe to the dispenser.

The system includes a polyurethane tube of $1/8\,\mathrm{inch}$ and a connection lock.

WATERPROOF CAPS



- Caps available in 3, 5,10, 30 and 55cc
- Free-contaminant pressure caps
- Available in orange and blue

SIZE	CLEAR	AMBER	BLACK	Qty/PACK
Зсс	0102051	0102061	0102071	50
5сс	0103131	0103141	0103151	40
10cc	0104171	0104181	0104191	30
30cc	0106211	0106221	0106231	20
55cc	0107471	0107481	0107491	15
SIZE	CLEAR	AMBER	BLACK	Qty/PACK
SIZE 3cc	CLEAR 0012051	AMBER 0012061	BLACK 0012071	Qty/PACK 50
3cc	0012051	0012061	0012071	50
3cc 5cc	0012051 0013131	0012061 0013141	0012071 0013151	50 40
3cc 5cc 10cc	0012051 0013131 0014171	0012061 0013141 0014181	0012071 0013151 0014191	50 40 30

SIZE	DRIPFLOW	SWFLOW	Qty/PACK
Зсс	0022051	0032051	50
5cc	0023131	0033131	40
10cc	0024171	0034171	30
30cc	0026211	0036211	20
55cc	0027211	0097211	15

SIZE	TUBE 0,9m	TUBE 1,9m	3pi WITH FILTER
Зсс	B820111	B800111	B840111
5cc	B820211	B800211	B840211
10cc	B820311	B800311	B840311
30cc	B820411	B800411	B840411
55cc	B820511	B800511	B840511

SIZE	REFERENCE	Qty/PACK
Зсс	0272051	50
5cc	0273131	40
10cc	0274171	30
30cc	0276211	20
55cc	0277471	15





All our consumables are qualified and approved France, precision manufacture, silicone-free and certified conform to industrial requirements.

SIZE	CLEAR	AMBER	BLACK	Qty/PACK
Зсс	BD03CNR	BD03UVN	BD03U0N	50
5cc	BD05CNR	BD05UVN	BD05U0N	40
10cc	BD10CNR	BD10UVN	BD10UON	30
30cc	BD30CNR	BD30UVN	BD30U0N	20
55cc	BD55CNR	BD55UVN	BD55UON	15

SIZE	REFERENCE	Qty/PACK
Зсс	BDET003	1
5cc	BDET005	1
10cc	BDET010	1
30cc	BDET030	1
55cc	BDET055	1

SIZE	ORANGE	BLUE	GREEN	Qty/PACK
Зсс	BDEC03N	BDECO3N - B	BDECO3N - G	50
5cc	BDEC05N	BDEC05N - B	BDECO5N - G	40
10cc	BDEC10N	BDEC10N - B	BDEC10N - G	30
30cc	BDEC30N	BDEC30N - B	BDEC30N - G	20
55cc	BDEC55N	BDEC55N - B	BDEC55N - G	15

SIZE	BLUE	Qty/PACK				
Unique	BDEB050	50				

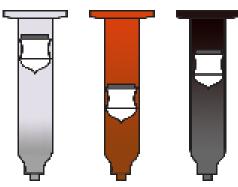
BarRELDROP SYRINGES WITH PLUNGERS

- Clear for normal fluids
- Amber for UV sensitive fluids
- Black for sensitive to visible light fluids

The rounded design of BarrelDrop improves fluid flow and minimizes turbulence and shear stress during filling and dispensing.

Packed in boxes or bulk.

Metal scraps PistonDrop pistons are molded accurately for uniform movements and a secure connection.





The unique design of the DropTube locks the position of the syringe to the gun. They are available in 3,5,10 and 30cc, and are available upon specific request.



CAP

- Caps available in 3, 5,10, 30 and 55cc.
- Available in orange, blue and green







- Caps for contaminant proof sealing
- Available in blue











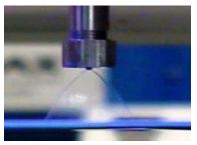
VALVES SYSTEMS

For all fluids

Acrylic / Activator / Glue / Anaerobic / Paste Solder / Chip Bonder / Cyanoacrylate / Epoxy / Epoxy filled / RSS / Grease / Inks / Hiding / Oil / Paint / Primer / Reatice RTV / Silicone / Solder paste / Solvents / Urethane / UV Glue / Water

* List of non-limiting example







In order to optimize your performance, Gentec offers a wide range of valves with all appropriate control systems, and also all tanks, pumps or pressurized cartridge holders.

Ideal for assembly lines, online production and manufacturing that require high autonomy and high fluid pressure, our volumetric metering valves allow the production of tens of millions cycles without interruption, nor drop formation nor maintenance.

To better meet your degrees of precision, your dispensing volume and your variety of fluids that require full compatibility, we have extended the range to specific valves models.

We are able to dose all kinds of fluids.

Each of our valves are tested in our manufacturing plant.

PRESENTATION APPLICATIONS REMARKS

Micro point	
Lines	
Potting	
Gluing	
Spraying	
эргаунту	
Coating	

SELECTION GUIDE

		ont Closing Va		ſ 	Micro Valve		Two Component Film Valve			Suck Back Valve	
				C.o. A.o.							
OPTIONS	FC100	FC300	FC300-C	FCM100	FCM200	VPX - 450	VPX - 2K	FC100CF	SB200	SB200 - C	
Micrometer Option	✓	√	√	S	S			S			
Interchangeable Nozzle				✓	✓		✓	\checkmark			
Handheld Operation	\checkmark	✓	\checkmark	✓					✓	\checkmark	
APPLICATION	FC100	FC300	FC300-C	FCM100	FCM200	VPX - 450	VPX - 2K	FC100CF	SB200	SB200 - C	
Micro Dots				√	√	√					
Dots	\checkmark	\checkmark	\checkmark	✓	\checkmark	√	\checkmark		✓	\checkmark	
Bead / Gasket	\checkmark	✓	✓	✓	\checkmark	✓	√		✓	\checkmark	
Potting	\checkmark	\checkmark	\checkmark			√	\checkmark		✓	✓	
D "										,	
Bonding	\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		✓	\checkmark	
Spray	\checkmark	√	\checkmark	√	√	✓	✓		√	√	



SELECTION GUIDE

Spra	Closing y Valve		gm Valve	Metering Valve						Auger Valve	
						De la constantina della consta					
FCS300	FCS300ES	CA300	CA753	MV200	MV250	MV300	MV500	MV600	SV200	SVX	/ RC
S	S	✓		✓	S	✓					
					\checkmark					\checkmark	
✓	\checkmark	✓	S	✓	✓	✓			√		
FCS300	FCS300ES	CA300	CAM200	MV200	MV250	MV300	MV500	MV600	SV200	SVX	RC
				√	√	√				√	✓
		✓	✓	✓	\checkmark	✓			✓	✓	√
		✓	✓						✓	✓	\checkmark
		✓	✓				\checkmark	√			
		✓	\checkmark	✓	✓	✓	\checkmark	✓	✓	✓	\checkmark
\checkmark	✓										
√	\checkmark										\checkmark

Many others models on : www.gentec-benelux.com



	Front Clo	losing Dispens			Micro Valve	е Т	Two Compone Valve		Suck Back Valve			
FLUIDE	FC100	FC300	FC300-C	FCM100	FCM200	VPX - 450	VPX - 2K	FC100FC	SB200	SB200 - C		
Acrylic	✓	√		√	√	\checkmark	√	√	√			
Activator	✓			\checkmark	✓	\checkmark	\checkmark					
Adhesive	✓	\checkmark		\checkmark	✓	\checkmark	✓		✓			
Anaerobic												
Brazing Paste			✓			\checkmark				✓		
Chip Bonder				\checkmark	✓	\checkmark						
Conformal Coating	✓			\checkmark	✓			\checkmark				
Cyanoacrylate												
Ероху	✓	\checkmark		\checkmark	✓	\checkmark	\checkmark		✓			
Filled Epoxy			✓			✓	✓			✓		
Flux	✓			\checkmark	✓	\checkmark						
Grease	✓	\checkmark	✓			\checkmark			✓	✓		
Heat Sink Compound			✓			\checkmark				\checkmark		
Ink	✓			✓	✓	✓		✓				
Masking	✓	\checkmark				\checkmark			✓			
Oil	✓	✓		✓	✓	✓			✓			
Paint	✓	\checkmark				\checkmark			✓			
Primer	✓			✓	✓	✓		✓				
Reactive	✓			\checkmark	✓	\checkmark						
RTV	✓	\checkmark	✓			\checkmark			✓	✓		
Silicone	✓	\checkmark	✓			\checkmark	\checkmark		✓	✓		
Solder paste			✓							✓		
Solvent	✓			\checkmark	✓	\checkmark		\checkmark				
Urethane	✓	\checkmark		\checkmark	✓	\checkmark	✓	\checkmark	✓	✓		
UV Curable	✓	\checkmark		\checkmark	\checkmark	\checkmark		\checkmark	✓			
Water	✓			\checkmark	\checkmark	\checkmark		\checkmark	✓			



Front Closing Spray Valve		Diaphragm Valve		Metering Valve		Auger Valve		Jetting 			
FCS300	FCS300ES	CA753	CAM200	MV200	MV250	MV300	MV500	MV600	SV200	SVX	RC
√	√	√	√	✓	√	√	√	√			✓
✓	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark				
✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		✓	\checkmark								
									\checkmark	✓	
				✓	✓	\checkmark			\checkmark	✓	✓
✓	\checkmark	✓	✓	✓	✓	✓	✓	✓			\checkmark
		✓	✓								
✓	\checkmark	✓	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	\checkmark
								✓	✓	✓	\checkmark
✓	\checkmark	✓	\checkmark	✓	✓	✓					\checkmark
✓	✓			✓	✓	√	✓	✓	\checkmark	✓	✓
									✓	✓	
✓	✓	✓	✓	✓	✓	√	✓				✓
✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	\checkmark
✓	✓	√	✓	✓	✓	√	✓	✓			✓
✓	\checkmark	✓	✓	✓	✓	✓	✓				\checkmark
✓	✓	√	✓	✓	✓	√	✓				
		✓	✓	✓	✓	✓	✓				
✓	✓			✓	√	√	√	√	√	✓	
✓	✓			✓	✓	✓	✓	✓	✓	✓	\checkmark
									✓	√	
✓							✓				\checkmark
✓	√	√	√	✓	✓	√	√	✓			✓
✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	\checkmark
\checkmark	\checkmark	✓	✓	✓	✓	✓	✓				✓

METERING VALVES (MV)

MV metering valves are linear motion valves. The MV series [200, 250, 300 and 500] offer great precision dispensing and are ideal for one-component material dispensing as dosing, filling, potting or assembly.

Made with quality materials : stainless steel fluid chamber, seals in Viton or Teflon®, divorced valve control body in anodized aluminum.

Each valve is precisely manufactured with high quality standards to ensure the reliability of operations and are laboratory tested before shipment. The design is durable, the maintenance is easy and the calibration is quick.

COMPATIBLE PRODUCTS ······

Glue / Activator / Lubricants / Oils / RTV / Epoxy/ Solvent / Alcohol / Fluid grease / Inks / Painting

DISPENSING NEEDLES

The performance of the dispensing system also depends on the precision of needles. A starter kit (free silicone) is supplied with the valve.

IN OPTION

- XYZ automated dispensing robot :
 These 3 or 4 axes tables offer excellent repeatability of the drops.
- Tank under pressure from 1 to 200 L
 - Extrusion pump from 1KG to 200KG
- Pressurized cartridge holder



MV200

- Micro-deposits (0,0015cc to 0,0120cc)
- Liquids, fluids and pastes
- Minimum repeatability of ± 2%
- Manual or automatic applications
- Simple and easy to calibrate
- Applications requiring high precision

Dimension	160mm x 19mm
Weight	340g
Maximum pressure fluid	26,6 Bar
Pressure control	4,8 Bar
Volume filled	0,0015cc - 0,0120cc
Fluid chamber	303 stainless steel
Valve body	Hard anodized aluminum
Rate	> 600 cycles / min.



MV250

- Small deposits (0,0001cc to 0,0120cc)
- Liquids, fluids and pastes
- Minimum repeatability of ± 2%
- Simple and easy to calibrate
- Manual or automatic applications
- Provides excellent repeatability of the drops

Dimension	162mm x 19mm
Weight	227g
Maximum pressure fluid	20,7 Bar
Pressure control	4,8 Bar
Volume filled	0,0015cc - 0,0120cc
Fluid chamber	303 stainless steel
Valve body	Hard anodized aluminum
Rate	> 600 cycles / min.



METERING VALVES (MV)



MV300

- Average deposits (0,010cc to 0,125cc)
- Liquids, fluids and pastes
- Minimum repeatability of ± 1%
- Simple and easy to calibrate
- Manual or automatic applications
- Applications requiring high precision

Dimension	203mm x 29,2mm
Weight	277g
Maximum pressure fluid	20,7 Bar
Pressure control	4,8 Bar
Volume filled	0,010cc - 0,125cc
Fluid chamber	303 stainless steel
Valve body	Hard anodized aluminum
Rate	> 600 cycles / min.



MV400

- Large deposits (0,15cc to 4,5cc)
- Liquids, fluids and pastes
- Minimum repeatability of ± 2%
- Simple and easy to calibrate
- Semi-automatic or manual applications
- Applications requiring high precision

Dimension	229,1mmx121,2mm
Weight	1361g
Maximum pressure fluid	82,7 Bar
Pressure control	5,5 to 8 Bar
Volume filled	O, 15cc -4,5cc
Fluid chamber	303 stainless steel
Valve body	Hard anodized aluminum
Rate	>600 cycles / min.



MV500

- Large deposits (0,10cc to 4 cc)
- Liquid, fluid, pasty and very thick
- $\bullet \hspace{0.5cm} \hbox{A minimum repeatability of $\pm 2\%$}$
- Reinforced pressure system for emptying the fluid chamber for very thick product
- 5: 1 boost

Dimension	159mm x 59 mm
Weight	1361g
Maximum pressure fluid	34,47Bar
Pressure control	5,5 to 8Bar
Volume filled	0,10cc - 4cc
Fluid chamber	303 stainless steel
Valve body	Hard anodized aluminum
Rate	>600 cycles / min.

DIAPHRAGM VALVES (CA)

CA dispensing valves are diaphragm valves. The CA series (300, 200 and 100) offer great precision dispensing and are ideal for the determination of mono-component products for dosing, filling, potting or assembly.

Made with quality materials: Delrin and Teflon® for the fluid chamber, seals in Teflon® or Viton and a patented diaphragm silicone covered with a Teflon film. The valve body is hard-anodized aluminum with an ergonomic shape and size. Each valve is precisely machined with high quality standards to ensure the reliability of operations and are laboratory tested before shipment. The design is durable, maintenance

COMPATIBLE PRODUCTS ······

is easy and calibration is quick.

Cyanoacrylates / Anaerobic / Glue / Activator /
Lubricants / Oils / Epoxies / Solvents - Alcohols / Fluid
Grease / Ink - Painting / Electrolyte

DISPENSING NEEDLES

The performance of the dispensing system also depends on the precision of needles. A starter kit (free silicone) is supplied with the valve.

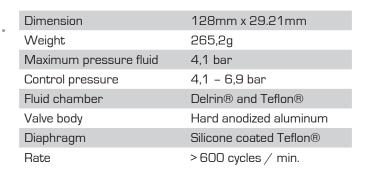
IN OPTION

- XYZ automated dispensing robot:
 These 3 or 4 axes tables offer excellent repeatability of the drops.
- Tank under pressure from 1 to 200 L
- Extrusion pump from 1KG to 200KG
- Pressurized cartridge holder



CA300

- Small to medium quantities
- Liquids fluids
- Ideal for automated applications
- Steering dual effect
- Accurate and repeatable with a perfect seal
- Automatic applications or pedal
- Only the drive of the diaphragm is moving, which implies a very low maintenance





CAM200

- 100% manual. Dispense by «operator judgement»
- Small to large quantities
- Liquids fluids
- Ideal for applications that require operator action filed by constant rate
- Ergonomic grip
- Simple and quick to start up. Few maintenance.
- Only 100gr

Dimension	163.83 mm x 55.88 mm	
Weight	105g	
Maximum pressure fluid	7 bar	
Control pressure	4,1 - 6,9 bar	
Fluid chamber	Delrin® and Teflon®	
Valve body	Hard anodized aluminum	
Diaphragm	Silicone coated Teflon®	
Rate	NA	



DIAPHRAGM VALVES (CA)



CA753

- Small to large quantities
- Liquid fluids
- Rate more than 600 cycles per minute
- Lightweight and compact
- Few or no maintenance
- Ideal for dispensing cyanoacrylates, anaerobic and other reactive fluids.

Dimension	86.02 mm x 43.90 mm
Weight	174.1
Maximum pressure fluid	7 bar
Control pressure	5 - 6.9 bar
Fluid chamber	Acetal
Valve body	Hard anodized aluminum
Diaphragm	Inert polymer
Rate	> 600 cycles / min.

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HIGH PRESSURE VALVES (FC) (SB 200)

FC metering valves and SB 200 are high-pressure valves. The FC and SB 200 series valves were designed specifically for products with high / medium viscosity and have a very good resistance to very high pressures.

Designed with quality materials: 303 stainless steel (316 on request) for the fluid chamber, seals in Viton or Teflon®, divorced valve control body in anodized aluminum

Each valve is precisely manufactured with high quality standards to ensure the reliability of operations and are laboratory tested before shipment. The design is durable, the maintenance is easy and calibration is quick.

COMPATIBLE PRODUCTS ······

Grease / Sealant / Lubricant / RTV / Epoxy / Silicone / Glue

DISPENSING NEEDLES

The performance of the dispensing system also depends on the precision of needles. A starter kit (free silicone) is supplied with the valve.

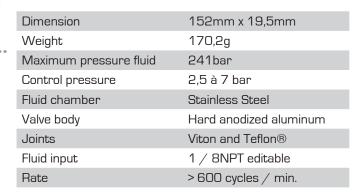
IN OPTION

- XYZ automated dispensing robot:
 These 3 or 4 axes tables offer excellent repeatability of the drops.
- Tank under pressure from 1 to 200 L
- Extrusion pump from 1KG to 200KG
- Pressurized cartridge holder



FC100

- Medium quantities
- Liquids, fluids and pastes.
- High resistance to pressure (241bar)
- Minimum repeatability ± 5%
- Simple and easy to calibrate
- Manual or automatic applications
- Suck Back





FC300

- Significant quantities
- Liquids, fluids and pastes.
- High resistance to pressure (241bar)
- Minimum repeatability ± 5%
- Simple and easy to calibrate
- Manual or automatic applications
- Suck Back

Dimension	201mm x 29,21mm
Weight	539g
Maximum pressure fluid	241 bar
Control pressure	2,5 à 7 bar
Fluid chamber	Stainless Steel
Valve body	Hard anodized aluminum
Joints	Viton and Teflon®
Fluid input	1 / 4 NPT
Rate	>600 cycles / min.



NO CONTACT VALVE (FCM)



SB 200

- High pressure type «snuff back»
- Average high viscosity products
- 2x more speed higher than the valves of the FC series
- For fluids with aggressive expension
- Provided with a carbide stem to improve the usury resistance

Dimension	115mm x 25mm
Weight	430g
Maximum pressure fluid	> 100 Bar
Control pressure	4.1 à 6.9 Bar
Fluid chamber	lnox
Valve body	Hard anodized aluminum
Inlet	1/4" NPT Female
Outlet	Male Luer Lock or 1/4" NPT Female

The FCM100 is a non contact valve for dispensing dots and lines of low to medium viscosity material with a substrate.

The complete system includes an FCM average deposits valve, a simple or expanded controller (trigger pedal or 5V signal), as well as fittings, hoses and other accessories.

Usually a tank, a cartridge or pump provides the feeding to this valve. The quality of each component, the inspection and quality control ensure reliable overall performance and durability. Simple and easy to calibrate, FCM valve is used in automatic applications on platforms

APPLICATIONS FCM100 ET RC200 ······

Silicone deposited before insertion of a piston in a syringe. Dispense solvent in a syringe. Dispense paint in a tube.

The performance of the dispensing system also depends on the precision of needles. A starter kit (free silicone) is supplied with the valve.

IN OPTION

- XYZ automated dispensing robot:
 These 3 or 4 axes tables offer excellent repeatability of the drops.
- Tank under pressure from 1 to 200 L
- Extrusion pump from 1KG to 200KG
 - Pressurized cartridge holder



FCM100

- Amount of very small volume deposits
- Valve designed for jetting. Dots and lines.
- Low to medium viscosity
- Minimum accuracy of ± 2%
- Distance: 1 to 100 mm from the support
- High speed dosing

Dimension	152 mm x 19 mm
Weight	340 g
Maximum pressure fluid	240 bar
Control pressure	2 à 7 Bar
Fluid chamber	Inox 303
Valve body	Hard anodized aluminum
Range of viscosity	1 cps - 20 000 cps
Fluid input	1 / 8 NPT
Rate	>600 cycles / min.

AUGER VALVE (FCS) (RC200)

LOW VOLUME LOW PRESSURE : LVLP TECHNOLOGY

FCS series valves and RC 200 were specifically designed to uniformly perform a film of product without residual elements.

They are ideal for dispensing low to medium viscosity single component materials and mark-tracking applications. These low-pressure spray valves are stainless steel and incorporate the technology of double-acting valves associated with a compact pneumatic motor and a custom spray nozzle.

Designed with quality materials: 303 stainless steel for the fluid chamber, or Viton seals Teflon® separated valve body in anodized aluminum.

COMPATIBLE PRODUCTS ······

Coating / Fluid Grease / Marking Ink / Lubricant / Oil / Silicone / Solvent - Alcohol / Adhesive / Ink - Painting / Activator

DISPENSING NEEDLES

The performance of the dispensing system also depends on the precision of needles. A starter kit (certified silicone) is supplied with the valve.

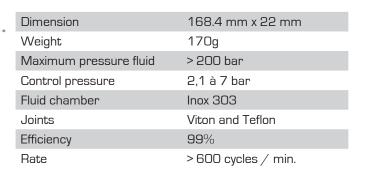
IN OPTION

- XYZ automated dispensing robot:
 These 3 or 4 axes tables offer excellent repeatability of the drops.
- Tank under pressure from 1 to 200 L
- Extrusion pump from 1KG to 200KG
- Pressurized cartridge holder



FCS300

- Small to medium quantities
- Works on the principle of low pressure low volume
- Separation of fluid and air to the valve output
- Points of 5 mm diameter
- Manual or automatic applications





RC 200

- Deposing neat film and uniform films
- Liquid and fluid products
- Minimum accuracy of + -2%
- 360 ° coverage
- Interchangeable nose
- Homogeneous distribution

Dimension	229,1mmx121,2mm
Weight	1361g
Maximum pressure fluid	> 80 Bar
Control pressure	5,5 à 8 Bar
Fluid chamber	Inox 303
Valve body	Hard anodized aluminum
Rate	>600 cycles / min



AUGER VALVE (SV200) (SVX)

The SV200 series valves have been designed specifically for charged products containing particles and specific viscosity materials that may for example deteriorate under pressure. The pressure on the product being very low serves only to drive the product into the pitches.

Micro Valve SVX is specifically designed to dispense the micro volumes product in an accurate and repeatable manner.





COMPATIBLE PRODUCTS SV200

Cyanoacrylates / Anaerobic / Glue / Activator / Lubricants / Oils / Epoxies / Solvents - Alcohols / Fluid • Grease / Ink - Painting / Electrolyte

DISPENSING NEEDLES

The performance of the dispensing system also depends on the precision of needles. A starter kit (free silicone) is supplied with the valve.

XYZ automated dispensing robot : These 3 or 4 axes tables offer excellent repeatability of the drops.

- Very small to medium amounts
- Charged products, solder pastes, adhesives, epoxies
- Deposits of about 0,0001cc
- Minimum 3% accuracy
 - 3 versions: very hard stainless steel screws in 32, 16 and 8 pitch depending on the size of the filler and the • viscosity
- Dimension 139.7 mm x 69mm Weight 265a Maximum pressure fluid 6,9 Bar Fluid chamber SS 24V DC Servo Engine
- Yield 99% Auger Screw Reinforced Steel hardness > 400 cycles / min. Rate

- Designed for micro volumes
- The brushless motor controls the rotation of the screw
- Programmable encoder
- More than 57,000 increment per 360degree revolution
- Fixed distribution or footed needle
- Auger and fluid chamber in carbide

Dimension	167 mm x 72 mm
Weight	367g
Maximum pressure fluid	6,9 Bar
Fluid chamber	Inox
Engine	Servo Motor
Yield	0.13mm
Worm	Steel reinforced hardness
Rate	> 600 cycles / min.

TWO COMPONENT VALVES (PC) (MD2)

PC series valves are ideal for the dispensing of points, cords, potting or encapsulation. They can be integrated with an automated dispenser or mixer according to your operations and are compatible with static mixers. In addition, the valves are separated to avoid a possible contamination of the control part.

MD2 distribution valve mixes and dispenses precisely waterproof products and multi-component adhesives. It has a full modular design adapted to different installation requirements and no special tools are required.

COMPATIBLE PRODUCTS ······

Epoxies / Urethanes / Silicones and other viscous products

DISPENSING NEEDLES

The performance of the dispensing system also depends on the precision of needles. A starter kit (free silicone) is supplied with the valve.

INI OPTIONI

- XYZ automated dispensing robot:
 These 3 or 4 axes tables offer excellent repeatability of the drops.
- Tank under pressure from1 to 200 L
 - Extrusion pump from 1KG to 200KG
- Pressurized cartridge holder
- Gears pump



PC100

- Stainless steel fluid body
- Divorced valve to avoid possible contamination
- Fluid part and portion control completely separated to prevent pollution and residue
- Reversible valve seat
- Closing the valve assisted by spring for secure distribution
- · High pressure capability. Uniform treatment
- For single ratios 1: 1

Dimensions	167.64mm x 22.23 mm
Weight	623g
Range of viscosity	1 cps - 400,000 cps
Control pressure	2,1 à 7 bar
Maximum pressure	34.7bar
Fluid chamber	Inox



MD2

- Suitable for a wide range of products
- Reduces maintenance time and costs while maximizing uptime
- Designed with fewer parts. Easy to clean
- Streamlines maintenance and servicing
- Fully modular design which adapts to different installation requirements
- No specific tools needed

More information about this valve in chapter

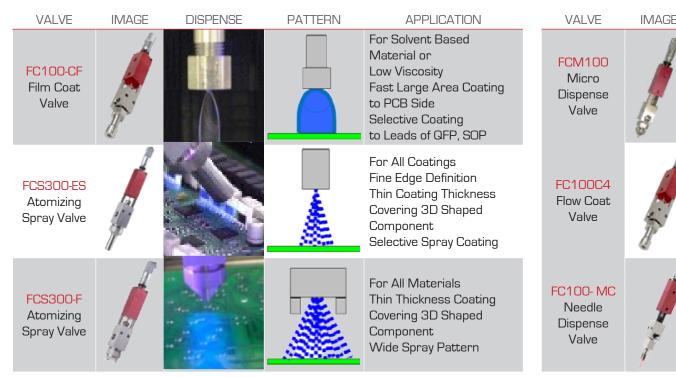
Dispensing systems

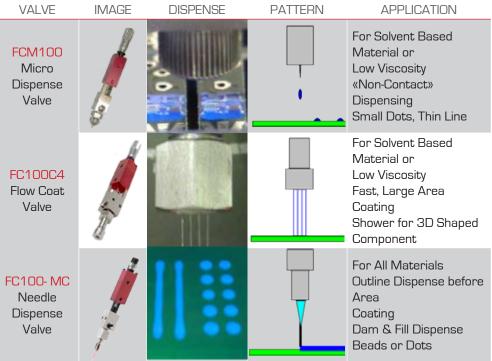
or

www.gentec-benelux.com



SELECTION GUIDE: COATING VALVE





STANDARD CONTROLLER: ST100





ST100 valve controller is used for the majority of the valves. Using a preset time during the application provides a precise quantity of fluid, repeatable, from low to high viscosity products.

Valve controllers can be used either manually or inserted in automatic lines. Controllers combined with the use of the valve, ensure the control of the dispense with high accuracy.

The dispense is repeatable with a precise setting of the digital time, a very short response time and high-quality electronical components.

No programming, mechanical modification, the adjustment is quick and easy, and does not require production shutdown.

All communicates with any PLC or interface by simply exchanging dry-5V-24V contact.

MV

CA

■ FC

SB 200

■ FCM

RC 200

	SPECIFICATIONS
Input Voltage	90-120 VAC and 220 VAC
Dimensions	25,7cm x 15,08cm x 2,63cm
Weight	1,68kg
Cadence	> 600 cycles/min.
Control signal	5v-24v
Air inlet	5,6 à 7 bar
Opening	Within 4mm connector
Closing	Within 4mm connector
Air Supply	Within 6mm connector



SPECIFIC CONTROLLERS







VALVE CONTROLLER: FCS SERIES

This valve controller is used to control the spray valves of the FCS series.

It has a second solenoid valve to control the atomization and precise adjustment of the pressure, and also the size of the spray jet. The result is an exceptional spraying control without mechanical adjustment or programming.

VALVE CONTROLLER: VALVE SV200

The SVC100 controller can control the SV200 valve. The controller adjusts the rotational speed of the screw, the snuff-back by reversing the direction of rotation and the pressure of the pilot on the container (syringe or cartridge). The controller comes with a foot pedal for manual use.

The steering can be performed by a controller or a cartesian table using either serial port (9pin) or outlet pedal.

PROGRAMMABLE CONTROLLER

In addition of collecting all the standard controller functions, this advanced controller features a memory system that allows you to record your programs and get exactly the same results.

This controller can benefit specific development according to your requests. Thus, each parameter can be modified to suit your needs.

SPECIFICATIONS

Input Voltage	90-120 VAC et 220 VAC
Dimensions	25,7cm x 15,08cm x 2,63cm
Weight	1,79kg
Atomization (Spray)	0 - 7 bar et 0 - 2 bar
Control signal	5v-24v
Air inlet	5,6 à 7 bar
Opening	Within 4mm connector
Closing	Within 4mm connector
Air Supply	Within 6mm connector

SPECIFICATIONS

Input Voltage	115VAC et 230VAC
Dimensions	24.1cm x 16.8cm x 7cm
Weight	2,27 kg
Internal voltage	24V DC
Repeat	0.005 sec
Air inlet	6,9 Bar
Opening	Within 4mm connector
DCosing	Within 4mm connector
Air Supply	Within 6mm connector

BENEFITS

End of cycle signal
Robust and efficient
Emergency stop
Ergonomic grip
Malfunction alarm
Specific developement
15 customizable programs
Advanced information exchange
Multi-function steering valves





DISPENSING SYSTEM PR70

BENEFITS

Fixed or variable ratio

Dispensing accuracy of 1%

Accuracy ratio 1%

Perfectly volumetric

Different pump sizes and ratios

Two-component system at affordable price

Wide range of options available (heating - agitation etc.)

All stainless steel system for a long term use

Requires no maintenance

Optimisation of tightness

Adjustable power

Reinforcement of steel parts in Chromex ™









PRESENTATION

Major actor in the field of fluid transfer systems, $Graco^{TM}$ focused since many years on the technical excellence of his products.

Main distributor of the brand in the Benelux, Gentec offers systems with fixed and variable ratios of all PR70 range, dispense systems recognized for their quality with a unanimous success throughout all users. The complete serie of dispense systems PR70, dispenses, mixes and distributes accurately two components material, of a high-low viscosity, for the flows, gaskets, sealing, pottings, coatings and filling of the syringe.

So all the features you want are grouped into a single, compact and modular machine.

NDUSTRIFS

- Electronics Consumer electronics
- Composites Sporting goods
- Aeronautics Appliances
 - Automotive components Medical
- Equipment assembly

DISPENSING SYSTEM PR70









		PR70 E (LCM)	PR70 (DM)	PR70 (ADM)	PR70 V (ADM)
System	System configuration	No	Yes	Yes	Yes
Ratio	Fixed ratio	1:1 to 12:1	1:1 to 12:1	1:1 to 12:1	NA
nauu	Variable ratio	NA	NA	NA	1:1 to 24:1
	Number of doses	1	5	50	50
	Doses based upon percentage of the piston stroke	Yes	No	No	No
Doses	In weight doses	No	Yes	Yes	Yes
	Dispense > to the piston stroke	No	Yes	Yes	Yes
	Sequencing of dispense	No	In option	Yes	Yes
Supervision	Pressure control	No	In option	In option	In option
Super vision	Control ratio	No	In option	In option	In option
	Local control module (lcm)	Yes	No	No	No
	Display module (dm)	No	Yes	No	No
	Advanced display module (adm)	No	In option	Yes	Yes
Data Control	Gel timer	No	Yes	Yes	Yes
	Plc compatibility	No	Yes	Yes	Yes
	Usb download	No	In option	Yes	Yes



DISPENSING SYSTEM: PR70

MD2 Valve

High-pressure accuracy with multiple seat styles and adjustable snuffback for clean, precise dispensing

Intuitive User Interface

Digital shot size entry, machine monitoring and feedback for total control

Compact Benchtop Unit

Stable, strong machine base for secure installation. Small footprint saves valuable space

Long-Life Design

Optimized pump support, seal design, and Chromex rods provide twice the life of other systems



Multiple Feed Systems

A variety of feed package options are available:

- Polyethylene tanks
- Stainless steel tanks
- Off-board tanks for high-volume applications and reduced material refills
- Accumulators for high-viscosity materials

Fluid Control Module

Offers a simplified wiring system and board-level diagnostics

Modular approach is easier to operate, easier to maintain

Proven Ratio Accuracy

Multiple tube sizes to pinpoint specific target ratios and deliver ratio accuracy to $\pm 1\%$

Vacuum



A standard basic machine with standard optional elements

- Rugged, reliable and durable
- Long-lasting wear parts mean lower cost of ownership
- Cast pump bodies for improved seal alignment
- Chromex[™] shafts and Severe Duty[™] cylinders combined with stainless steel fittings provide long pump life with no corrosion
- Shaft seals designed for extended life and easy replacement
- Preventive maintenance counter to plan system rebuilds around your production schedule
- Linear thrust bearings eliminate side loading to maximize seal life and performance

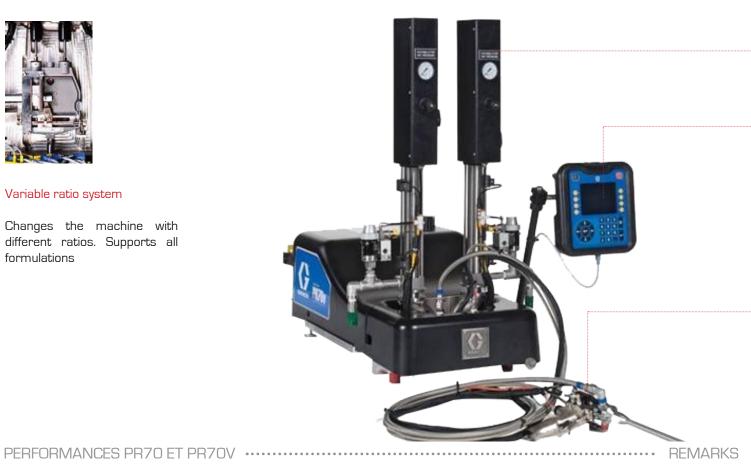
- Handles most two-component materials
- Stainless steel design reduces the chance of a material incompatibility
- Positive displacement pumps deliver ratio accuracy to ±1%
- Linear transducer monitors piston velocity to provide ratio assurance, and reduce scrap and re-work
- Shot size ranges from 2 to 70 cc's
- Ratio range from 1:1 to 24:1 with variable drive

DISPENSE SYSTEMS: PR70 V



Variable ratio system

Changes the machine with different ratios. Supports all formulations



Optional accumulator

Allows you to manipulate high viscosity products

Advanced Display Module

Advanced Control screen for extended functions, including:

- Recirculation
- Programmable distribution, including independent sequences and up to 50 doses
- Cycle counters
- Keypad for easy data entry

Option dispensing valve

Choose between a fixed installation or a manually operated handle for better adaptation to your application

- Reliability and durability to maximize system performance
- Body molded pumps for better alignment of seals.
- The piston rods Chromex and Severe Duty cylinders piston associated with stainless steel fittings ensure a long service life of the pump without corrosion.
- Seals piston rods designed for extended life and easy replacement.
- Preventive maintenance counter advise

maintenance of the unit based on the production schedule.

Linear thrust bearings which eliminate side loads to maximize the lifetime and the performance of seals.

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DISPENSING SYSTEM: PR70 E

Multiple Feed Systems

- Polyethylene tanks
- Stainless steel tanks
- Off-board tanks for high-volume applications and reduced material refills

Compact Benchtop Unit

Stable, strong machine base for secure installation Small footprint saves valuable space

Long-Life Design

Optimized pump support, seal design, and rods provide twice the life of existing systems



MD2 Valve

High-pressure accuracy with multiple seat styles and adjustable snuffback for clean, precise dispensing

Local Control Module (LCM)

Digital shot size entry

Proven Ratio Accuracy

Multiple tube sizes to pinpoint specific target ratios and deliver ratio accuracy to ±1%

The entry system

The PR70 E is the ideal model for anyone who is looking for a simple and intuitive dispense system, but providing reliable and accurate performance at a much lower cost than the PR70 or PR70 V.

Indeed, all the major functions you need are in this compact and modular design. The PR70E, mixes and dispenses the precise shot from low to medium viscosity for molding, sealing, coating and filling syringe.

Included:

- Fixed ratio basis
- Pipe 0.8 m long
- PE tank 8L
- MD2 valve
- Local Control Module (LCM)

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PR70 - PR70V : SPECIFICATIONS



Stainless Steel Tank (SST)

Tank size

- Capacity 3 to 7.5 liters (stainless steel, AI)
- Capacity 8 liters (polyethylene, PE + AI)
- Capacity 30 to 60 liters (separated + Al)
- Our options for tanks
- Covers for agitation kits
- Covers for degassing kits
- Covers for drying kits
- Dust covers
- Machine options
- Control gear
- Fluid recirculation
- Power systems
- Heating piping and tank
- Auto filling tanks
- Input / Output

INSTRUCTIONS MANUALS

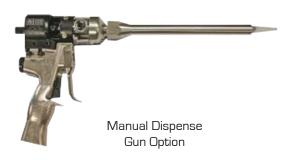
PR70 with Display Module Operation & Maintenance	312393
PR70/PR70v with Advanced Display Module	312759
MD2 Valve Instructions and Parts	312185
PR70/PR70v Repair and Parts	312760
PR70/PR70v Feed System	312394
PR70v Integrated Heat	312761

SPECIFICATIONS

Metering Pump Effective Area	0.124 - 1.49 in2 (80 - 960 mm2) per side
Small Air Cylinder Effective Area	7.07 in2 (4560 mm2)
Large Air Cylinder Effective Area	15.9 in2 (10260 mm2)
Maximum Stroke Length	1.50 in (38.1 mm)
Minimum Stroke Length	0.23 in (5.8 mm)
Volume per Cycle	0.12 - 4.3 in3 (2 - 70 cc)
Pump Cycles per 1L (.26 gal)	500 - 14.3
Ratios (fixed)	1:1 to 12:1 depending on cylinders selected
Ratios (variable)	1:1 to 24:1 depending on cylinders selected
Maximum Fluid Working Pressure	3000 psi (207 bar, 20.7 MPa)
Maximum Air Input Pressure	100 psi (7 bar, 0.7 MPa)
Maximum Cycle Rate	30 cpm
Maximum Operating Temperature	70° C (160° F) nylon pistons 50° C (120° F) UHMWPE pistons or PE tanks
Air Inlet Size	1/4 NPT[f]
Pump Fluid Outlet Size	-03, -04, -06, -08 or -12 JIC fittings for 3/16 in (4.8 mm), 1/4 in (6.4 mm), 3/8 in (9.5 mm), 1/2 in (12.7 mm), 3/4 in (19.1 mm) hoses
Wetted Parts	303/304, 17-4 PH, hard chrome, Chromex™, carbide, chemical resistant O-rings, PTFE, nylon, UHMWPE
Weight - PR70	120 lb (55 kg) typical with two 7.5 l tanks 330 lb (150 kg) typical with two 60 l tanks
Weight - PR70v	160 lb (73 kg) typical with two 7.5 l tanks 370 lb (168 kg) typical with two 60 l tanks
Weight - PR70e	100 lb (46 kg) typical without tanks
Electrical Power	100-240V 50/60Hz 1 phase for machine – 80 watts 208-240V 50/60Hz 1 phase for heat – 10 kW max 120 or 240V 50/60Hz 1 phase for on-board agitators
Compressed Air	< 10 scfm typical (varies with cycle time)



MD2 DISPENSING VALVE





Lever-Actuated Dispense Valve

Minimizes maintenance time and costs while maximizing dispense time

Designed with fewer parts and is easy to clean

Streamlines maintenance and service

Complete modular design adapts to different installation needs

No unique tools required

Adjustable Snuff-back Control

Dispenses material only where you need it

Independent Air Cylinder

Improves mean time to repair (MTTR)

Chromex ™ Shafts

Extends shaft life to better handle abrasive materials

Grease Isolation Chamber

Ideal for moisture-sensitive materials Accessible grease fittings for easy maintenance

All-SST Wetted Section

Maximizes material compatibility



Flexibility during system installation Minimizes dead spaces in fluid path

HER METERING SYSTEM



SPECIFICATIONS

Dimensions	122 x 150 x 86 cm (48W x 59H x 34D in)
Mix ratio range	Fixed ratio, 1:1 to 16:1, shot to continuous flow
Ratio tolerance range	Up to +1%
Fluid filtration	20 mesh standard
Minimum Flow rates	7.5 cc/s (0.12 gpm)
Maximum Flow rates	316 cc/s (5.0 gpm)
Fluid inlets without feed kits	3/4 npt
Max. mixed fluid working pressure	207 bar, 20,7 MPa (3000 psi)
Min. pump inlet fluid pressure	0.3 bar, 0,03 MPa (50 psig)
Max. ambient temperature	49°C (120°F)
Weight Base machine	287,6 kg (634 lb)
Weight Fully configured	393,7 kg (868 lb)
Wetted parts:	
Pumps (A and B)	Stainless steel, PTFE, UHMWPE, tungsten carbide
Manifold	Aluminum or stainless steel
Applicator	Varies based on applicator chosen
Primary heaters	Aluminum, carbon steel
Fluid viscosity range	Until 30 000 cp

PRESENTATION

The piston rods Chromex and Severe Duty cylinders associated with stainless steel fittings ensure a long service life of the pump without corrosion. Seals piston rods designed for extended life and easy replacement. Preventive maintenance counter to predict maintenance of the unit based on the production schedule. Linear thrust bearings which eliminate side loads to maximize the lifetime and the performance of seals.

With the Graco HFR Metering System, you accurately mesure a specific ratio and volume – first time, every time. As the machine dispenses material, it automatically fine-tunes and adjusts to achieve a consistent material flow or pressure. With a +1% ratio accuracy, you reduce scrap and rework with accurate, on-ratio dispensing.

The Graco HFR Metering System is a high-quality meter, mix and dispense system that offers more technology and functionality – at a lower price than traditional custom RIM systems. A low initial investment allows you to participate in the marketplace where it may not have been possible before.

The system's horizontal pumps can be rebuilt at your facility, eliminating costly rebuilds and the need for backup pumps. Less downtime, reduced maintenance costs, and lower parts inventory mean more profits for your company.



HER: PERFORMANCES

Advanced Display Module

Provides easy setup, monitoring and system diagnostics USB drive for data reporting Stores 100 shot sizes and five sequences of 20 positions each

IsoGuard Select System

Prevents isocyanate crystallization - less maintenance,





more uptime

Fully Configurable

Select what you need for your material and application no more, no less Shorter lead time than custom solutions Standard wear parts are quickly available



Motor Control Module

In constant communication the Advanced Display and Motor Control Modules make real-time adjustments to deliver a highly precise dispense

Power Distribution Box

Modular assembly replaces complex wiring

Graco Z-Series Horizontal Pumps

Provide precision control to eliminate pressure spikes Positive displacement pumps are easy to service with easy-to-replaced cartridge packings, seals and pumps

Compact Design

Small footprint saves valuable space in your plant 122 x 150 x 86 cm (48W x 34D x 59H in)

And with Graco's established global distribution network, service is there when you need it.

	Provides	precision	control to	o eliminate	pressure	spikes
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Close loop control on pressure and flow

ADVANTAGES	• • • • • • • •		REMARKS
A modular design gives you the freedom and		Provides precision control to eliminate pressure spikes	
flexibility to configure the components that are essential for your specific application requirements		Positive displacement pumps are easy to service	
- no more, no less. Standard configured equipment can be delivered to your door much faster than a		"Real" positive displacement pump	
custom solution.		Elastomeric seals and positive ball checks	
And with Graco's established global distribution		Wide variety of materials - Fillers, high viscosity, abrasive fluids	
network, service is there when you need it.		Close loop control on pressure and flow	

GRACO FP POUR GUN











Easy Mixhead Rebuilds

The Graco EP Pour Gun is sure to change the way the industry thinks about mixheads. That's because it's engineered to be reliable, light and versatile with features and technology that reduce your cost of ownership in the long run.

The Graco EP Pour Gun is truly an innovative advancement for the polyurethane processing industry. First of all, it's engineered with technology that allows for on-site rebuilds. Which means significantly less downtime and no more expensive backup mixheads. Secondly, it's affordable, with a low initial investment. Best of all, the Graco EP Pour Gun provides accurate on-ratio dispensing and handles a variety of materials.

Low initial investment

Maintains accurate mix ratio

- Updated technology allows for on-site rebuilds
- Responsive trigger delivers repeatable and

Reduces downtime

accurate shots

Eliminates expense of backup mixheads

- Weighs 6.4 to 7.4 lb (2.9 to 3.4 kg)
- Processes both rigid and flexible polyurethanes
- Manual and automated capabilities

Handles filled materials

Graco HFR Metering System™



PR70 - HFR: ADVANCED DISPLAY MODULE

MATERIALS

Polyurethane foams

Polyurethane elastomers

Epoxies

Silicones

Polyureas

Soft filled materials



APPLICATIONS

Polyurethane processing

Coating

Potting

Encapsulating

Vacuum infusion





ADVANCED DISPLAY MODULE

The Graco HFR Metering System features intuitive user interfaces based on the Graco Control Architecture, $^{\text{TM}}$ a modular system of processing and control components. Products using Graco Control Architecture provide similar interface functionality across your plant and simplify training. Maintenance and service is easier too, thanks to built-in troubleshooting tools and simple, modular part replacement.

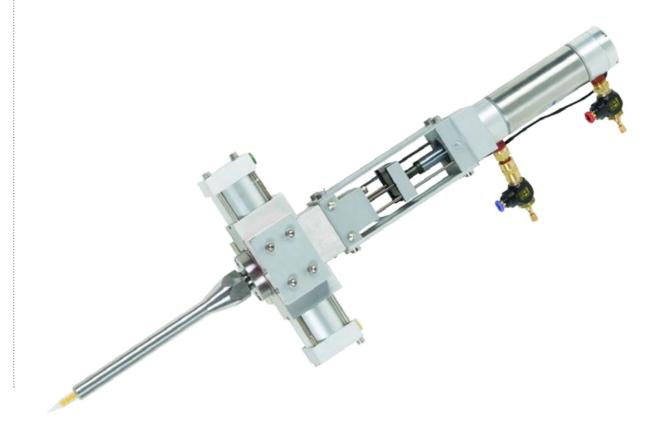
Material dispensing reaches a new level of precision due to proprietary algorithms and adaptive technology. The Graco

Metering System uses advanced controls to monitor the system and control the dispensing and material conditioning processes. The system is capable of producing either a constant pressure material output or a constant flow rate material output.

The advanced Display Mode is easy to understand and operate. Because it's easy to use, you spend less time on training and reduce operator error as well.

- Programmable shot sizes and sequencing
- Easy configuration of integrated temperature controls
- Immediate access to error/event history
- Material usage and pump cycle counter
- Simple interface for machine calibration
- Allows you to archive valuable setup parameters

PD44 DISPENSING SYSTEM: HIGH PERFORMANCE VALVE



BENEFICES

The PD44 is specifically designed to dispense small amounts of water thin to paste viscosity materials from 0.005cc's to 5cc's. The metering rods are matched with machined seals for improved seal life. There are no material hoses between the rod pump outlets and mixer inlet which eliminates potential ratio or shot size problems (phasing) due to hose expansion and contraction.

Improved low viscosity spool design

Rod positive displacement metering

Precise mix ratio and shot repeatability

Eliminates cleaning and potential hardening of materials in the valve





PRESENTATION

The patented PD44 valve features balanced inlet/outlet spool assemblies that do not displace material while shifting from the reload to the dispense position. This allows pressure feeding of the "A" and "B" components up to 1200 psi during reloading while isolating the materials from the mixer inlet. Upon shifting to the dispense position without any material displacement, an accurate volume of "A" and "B" components is injected into the disposable mixer inlet by rod displacement metering technology.

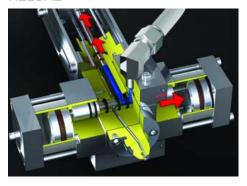
The PD44 provided by Gentec is specifically designed to dispense small amounts of thin water to paste viscosity materials from 0.005cc's to 5cc's. The metering rods are matched with machined seals for improved seal life. There are no material hoses between the rod pump outlets and mixer inlet which eliminates potential ratio or shot size problems (phasing) due to hose expansion and contraction.

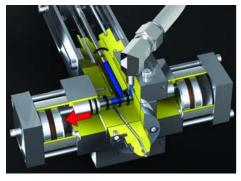
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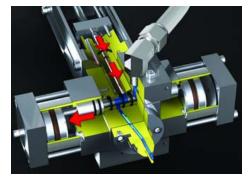


PD44: HOW IT WORKS

RELOAD





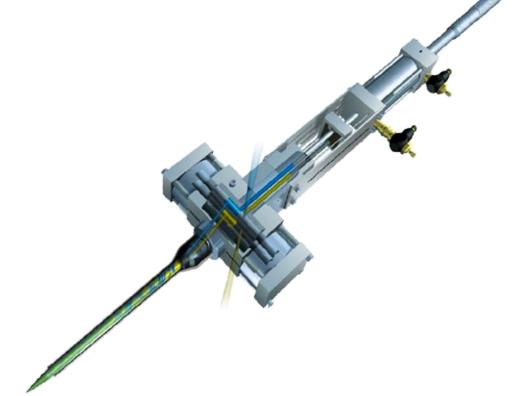


- Spools shift to the right
- Material feed inlets are opened
- Materials are transferred into the metering chambers by a pressurized feed system
- Outlet ports are blocked
 - Metering rods are retracted to a precise position determining the volume of each material

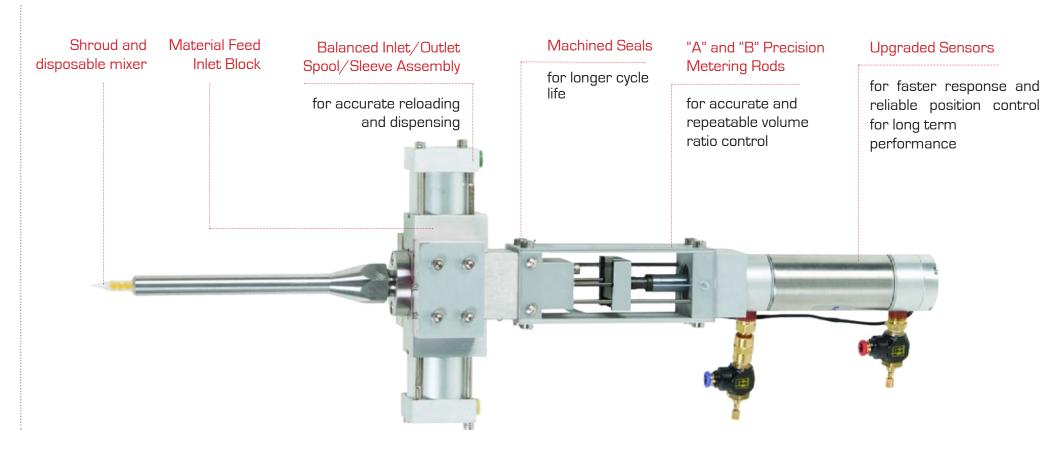
- The balanced spool assemblies shift to the dispense position
- Material path to the mixer inlet is opened
- Material feed inlet ports are blocked
- Metering rods remain in the retracted position

RELOAD SHIFT DISPENSE

- Metering rods drive down
- A and B materials are simultaneously dispensed from the metering chamber into the disposable mixer
- A and B materials are dispensed at the predetermined ratio
- Upon completion of the dispense stroke, the metering rod and spool assemblies shift back to the reload position



PD44: VALVE



PATENTED PD44 METERING VALVES

Manual control of shot size



Pneumatically-driven valves have micrometer adjuster to easily set the desired shot size. The micrometer features a locking mechanism to fix the selected shot size

Programmable Shot size control



Linear actuator provides shot size control.

Useful feature when a different programmable shot size is required.

Programmable flow and shot size control



Electric drive motor allows programmable shot size and flow rate. This is important when adapting the PD44 valve to X-Y-Z motion tables and to provide precise flow rate control when applying continuous beads of material.



"A" and "B" Metering Rods	A wide selection of standard size metering rods are available depending on the ratio and shot sizes desired. Custom sized metering rods can be machined to accommodate most material ratios. The standard construction of the main body is 303/304 stainless steel. The standard construction of the metering assembly is a nitrided tool steel rod and a nitrided tool steel tube. Optional materials include stainless steel rod with UHMW polyethene tube and a tungsten rod with UHMW polyethylene tube.
Ratio Range	1:1 to 25:1 by volume depending on the size of the metering rods selected.
Shot Size Capability	0.005 cc's to 5.0 cc's depending on the size of the metering rods selected.
Cycle Rate	Up to 60 cycles per minute with pneumatic drive Max cycle depends on the length of the stroke, size of metering rods, material viscosity, mixer, outlet needle employed and any back pressure or flow limitations created by the product into which material is being dispensed.
Balanced Inlet/Outlet Spool Assemblies	The pneumatically actuated spool assemblies keep the «A» and «B» materials separate in the valve and isolate the material inlets from the outlets to the mixer. The standard construction of the spool assembly is a nitrided tool steel spool and a nitrided tool steel sleeve. Optional materials include stainless steel spool with UHMW polyethylene sleeve and a tungsten spool with UHMW polyethylene sleeve.
Material Feed System	Pressure feed systems including cartridges, tanks and transfer pumps, can be employed to feed «A» and «B» components up to 1200 PSI. The appropriate selection of feed equipment is dependent on material viscosity and processing requirements.
Accessories	Level controls, agitators, follower plates, vacuum degassing, nitrogen blanketing, etc. are readily available
Mixers	Disposable Posimixers are available in sizes from 1/8" (3.175mm) to 3/8" (9.525mm) in diameter and in a various number of elements to provide through blending of most reactive resin systems. Lab tests may be required to determine the specific mixer required for a particular application.
Disposable Needles	From 14 gauge to 30 gauge. A variety of Luer Lock needle sizes are available to adapt to the Posimixer outlets.
Metering Drives	The standard drive is an air cylinder with a precise manual stroke adjustment. Additional drive options include: A linear resistive transducer air cylinder providing electronic shot size control. A stepper or servo ready lead screw actuator for precise shot and flow control
Machine Controls	Free standing table-top control panels are available for air cylinder and motor driven valves. Standard hardware includes: Monochrome touch screen, audio alarm and foot switch. Standard features include: Purge timer, cycle counter and totalizer. Motor driven controls include a NEMA 23 stepper motor featuring shot size and flow rate control
Dimensions	Body - 15" (381mm) H x 4 1/8" (105mm) L x 7 9/16" (192mm) Width Mixer - Add 4" (100mm) to 14 3/4" (375mm) H to the height. Pneumatic Controller - 15" (381mm) W x 12" (305mm) D x 13" (330mm) Height Electric Controller - 20" (508mm) W x 8" (203mm) D x 20" (508mm) Height
Weight	PD44 valve only - 6.35 kg - 6.80 kg (depends on drive). PD44 bench stand and controller - 22.68kg to 34.02kg (depends on options)
Service Requirements	Normal industrial compressed air supply - 0.1 (0.0028 m 3 /min) to 2.58 CFM (0.07m 3 /min) at 80psi (5.62 Kglcm 2). Electric - 120/230V, 50/60Hz

CONTROLLER





- Used for Manual and Programmable dispensing
- Shot Size Control

Sensors in the valve monitor the position of the spool assemblies and metering rods. These sensors interface with the control panel to assure proper valve operation. PD44 systems can help you save material and labour costs for a variety of dispensing applications, whether you are using manual, semi-automated or automated manufacturing processes.

PNEUMATIC CONTROLLER ELECTRIC CONTROLLER

- Used for Programmable dispensing
- Flow and Shot Size

This free-standing table-top controller includes a NEMA 23 stepper motor for precise flow and shot control. Other features include:

- A monochrome touch screen, audio alarm and foot switch
- Seven programmable shot sizes and flow rates
- Customer I/O connections for integration with auxiliary equipment.



SYSTEMS

Cartridge Feed Systems

Cartridges of various sizes can be placed in pressurized retainers to allow low to medium viscosity materials to transfer to the PD44 valve

Transfer Pumps and Rams

Low to high viscosity materials can be pumped directly from bulk containers using pail and drum rams, transfer pumps and feed hoses as required.

Reservoir Tanks

Various sized reservoir tanks can be used to transfer low to medium viscosity materials to the PD44 valve.



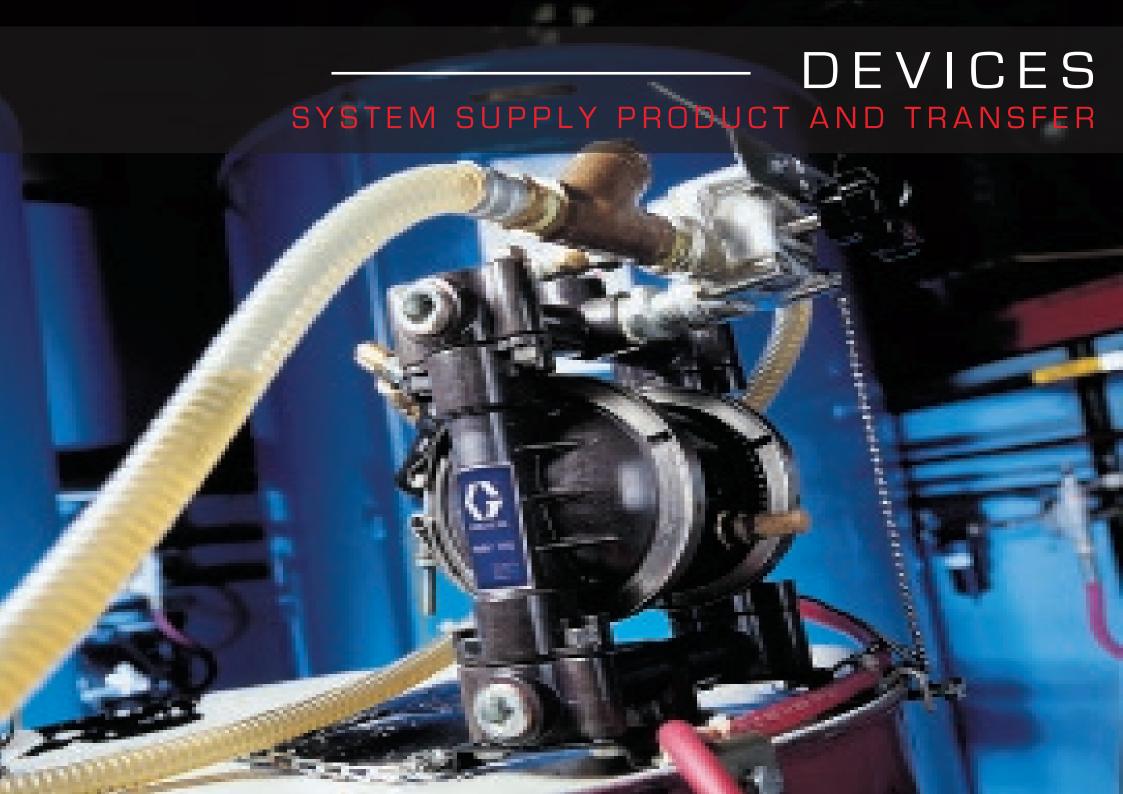




Complete System

PD44 with pneumatic controller, manual micrometer shot adjuster and dual one gallon transfer pump feed package.

More informations at power units and devices chapter or at www.gentec-benelux.com





DEVICES AND ACCESSORIES







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MATO MANUAL PUMP

Gentec provides all the Mato lubricating device programs. Products like grease or hydraulic oil is handled through a system of intelligent pumps with accessories. The two most common models are the Eco-Fill filler and standard grease gun Lube-Shuttle®

FILLER STANDARD ECOFILL



Grease filler pumps with standard lid 3 side screw tightening, follower plate for grease NLGI 000-2 class. [Supplied without grease gun]

MODELS

IVIODELS	
ECOFILL 5-s for 5 kg bucket ø-int. 165 - 200 mm	The most economical and simple solutions
ECOFILL 10-s for 10 kg bucket ø-int. 215 - 230 mm	Easy grip for user
ECOFILL 15-s for 15 kg, ø-int. 255 - 282 mm	Solid material that prevents leaks
ECOFILL 18/20-s for 18/20 kg bucket ø-int. 265 - 285 mm	Long life and low maintenance
ECOFILL 20-s for 20 kg, ø-int bucket 285 - 300 mm	Quantity to collect accurate
ECOFILL 25-s for 25 kg, ø-int bucket 300 - 335 mm	Minimal waste of product
ECOFILL 50-s for 50 kg, ø-int bucket 355 - 387 mm	Ergonomics for ease of movement



Grease Cartridges Lube-Shuttle® system galvanized high quality steel. Ergonomic handle, ecological cardboard packaging. Operating pressure 400 bar high pressure up to 800 bar. TÜV approvals, DLG, BLT

MODELS

Lube-Shuttle® without accessories , thread R1/8»	Opening of the cartridge without tools Fast and clean loading of the grease cartridge without opening
Lube-Shuttle® with rigid connector E4024, thread R1/8»	the pump Control of the grease level and fast identification of the grease
Lube-Shuttle® with flexible PH-30C, thread R1/8»	type without unscrewing the cartridge Maximum grease using with a functional follower piston
Lube-Shuttle® with flexible RH-30C, thread R1/8»	Possible filling of empty cartridges with filler pumps ECOFILL type and the Lube-Shuttle® adapter



PNEUMATIC PUMP: DYNA - MITE (1 - 3KG)

SPECIFICATIONS

	TIGATIONS
Maximum fluid pressure output	6,0 MPa (60 bars)
Air supply pressure range	243-700 kPa (2,4-7,0 bars)
Maximum viscosity of the product	600 000 cps
Stroke volume (distribution only on downstroke)	5 cc
Advised in continuous operation regime	40 cpm
Maximum pump speed recommended	60 cpm
Maximum flow (250,000 cps product)	940 cc/mn; Used air 0,162 m3/mn to 0,7 MPa (7 bars)
Race	19 mm
Maximum operating temperature	60° C
Air inlet	1/4 npt[f]
Product outlet	1/4 npt[f]
Weight	Approx. 8,4 kg
Parts in contact with the product	Stainless Steel 304 and 17-4 pH; PTFE, Viton,
Sound pressure at 0.7 MPa (7 bar) 40 cpm	64,12 dB(A)
Sound power at 0.7 MPa (7 bar) 40 cpm	70,84 d B(A)



PRESENTATION

The Dyna-Mite pump 190 designed by Graco is the perfect solution for your small quantity applications, like glue or sealant in a container from 1 to 3 liters. The installation of a pump allows you to apply these products through a distribution valve, either manual or automatic.

Its positive displacement process, operated by a priming piston facilitates the loading of a wide

range of very viscous or pasty fluids, used in the assembly of precision parts.

The Dyna-Mite 190 pump is a compact, and lightweight pump that requires little work space and can easily adapt to a production line.

Made of stainless steel, the pump is quite solid and sturdy to withstand the toughest conditions in industrial work.

Extrusions of viscous fluid from a

0.95 to 3.79 L pot

Made of stainless steel. Compact and

lightweight

High precision fluid dispensing

Robust design for the toughest conditions

Glue

Potting

Encapsulants

Greases

Inks

IIIKS

Dyes

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PNEUMATIC PUMP: CHECK MATE (3 - 200KG)







Pneumatic elevator

Serie	14:1*	26:1	29:1	55:1*	63:1*	68:1*			
Volume per cycle	500 cc	500 cc	250 cc	250 cc	200 cc	200 cc			
Flow rate of 60 cpm * I / min.	26,0	26,0	13,0	13,0	5,2	10,4			
Max pressure product (bar)	96,5	179,3	200,0	379,2	310,3	356,5			
Engine size	NXT 3400	NXT 6500	NXT 3400	NXT 6500	NXT 3400	NXT 6500			
Air inlet (bar)	6,9	6,9	6,9	5,2	5,0	5,4			
Line length	Jusqu'à 30,5 m	Jusqu'à 76 m	Jusqu'à 76 m	Jusqu'à 76 m	Jusqu'à 76 m	Jusqu'à 152 m			
Annual consumption	Jusqu'à 9 072 kg								
Points distribution	1	1 à 2	4 ou plus	1 à 2	1 à 2	1 à 2			

GREASE PUMP CHECK MATE

Gentec provides the Check-Mate pumps, equipped with NXT technology that will boost your productivity. This system designed by Graco offers the best quality - price ratio, faster repairs and a longer lifespan.

Equipped with the Data Trak system, the control level is optimal and the stopping of the pump is automatical when there is no more product or when a flexible has broken. Thanks to a precise measure of output, the DataTrak system ensures quality control and eliminates

product loss. It monitors and displays the product usage level, the volume flow and also indicates the amount of product remaining in the drum.

The pump provides his own diagnosis for easy maintenance, monitoring and indicates when this must be done.

Its DataTrak system also permits the diagnosis of the bottom of the pump by indicating if the race is up or down.

- Delivers up to 26 kg of grease per minute
- Intuitive controls, providing pump running diagnostics to trace the product and schedule routine maintenance
- Durability Results of the Check-Mate pumps have been tested through time and have been proven
- Reduces the noise the new NXT air motor is up to 50% quieter than previous models
- Controls the lift and integrated pump, easy to use

^{*}The Check-Mate NTX Pump is available with ground fixing or pneumatic elevator



SMARTWARE TECHNOLOGY

SPECIFICATIONS

Volume capacity	6 cc to 3,785 l
Precision	From 0,25 to 4 $\%$ depending of the product
Power requirements	110 or 220 VCA
Manual	3A0294



DataTrak Control

Protection - Pump diagnostics - Tracking

Local control module

Offer a sequential mode to deliver a series of varying doses - up to 14 different The dispensing mode shows a single dose and indicates the quantity dispensed



Pressure sensor

Guarantees a precise distribution

PRESENTATION

The metered dispensing kit SmartWare lets you turn your Graco pump into an economic and accurate metering system, allowing you to dispense a preset amount of product. It is a great alternative to manual methods such as mechanical counters, scales or custom systems and ensures more savings than fully automated systems.

The system guarantees accurate metering without flow meter, or gear flow meter in the fluid flow. Instead, a sensor detects the position of the pump so that the latter operates as a flow meter. The dispensed quantity is thus based on the pump size.

Compatible with DuraFlo or Check-Mate pumps equipped with technology and most Graco supply systems.

- Metering a predetermined amount of product with your Graco pump
- An economical alternative to automatic systems
- The volumes of the discharge ranges are 6cm³ to 3785 liters (1000 gal)
- The accuracy of the ranges is from 0.25 to 4%, depending on the product and the size of the discharge

- Filling
- Cast
- Encapsulation
- Molding
- Batch

PNEUMATIC: HUSKY SERIE (+200KG)



Graco doesn't have limits when it comes to designing pumps that exceed your expectations. Air-Operated double diaphragm pumps are the optimal answer to the most diverse pumping problems. The diaphragm pumps are used for transfer, dispense or fluid mixture and allow the pumping of viscous, abrasive or corrosive products and also accept some liquids which contain particles. They will enable you to perform your transfers in a precise period of time and with maximum efficiency.

BENEFITS

Low internal volume reduces waste and makes clean-up easy

Patented pneumatic valve

Durable high precision and replaceable parts

Common exhaust port preventing vapors from attacking pneumatic motor seals

Outer building reinforced corrosion resistant, leak-proof

Concept of perfect sealing

High-strength washers thus preventing costly downtime

Long rod with excellent resistance to corrosion

Easy alignment

Wide range of seats and balls for excellent compatibility with your fluids

ACCESSOIRES HUSKY ······

CycleFlo remote

The CycleFlo is a microprocessor control system designed to computerize batch processing functions and dispensing of the Husky pumps which is remotely controllable. Built when the pumps are controlled remotely, the CycleFlo counts the pump strokes and measures the amount of product dispensed.

Anti - rams

The anti-ram reduces pressure spikes caused by the pumping diaphragm pumps.

Placed at the entrance of the pump, the anti-rams compensate pressure fluctuations and acceleration loss that can lead to cavitation.

Leak detector

Designed to detect and prevent leakage on double diaphragm pumps, it retrieves the ejected product from the escapement when a diaphragm breaks. Two versions:

- Parties in polypropylene
- Parties in stainless steel product

Kit stop valve

Prevents penetration of product into the leak detector of the pump station.

The kit includes:

Pipe connection 1/4"[6.35 mm] x 1/8" closure sleeve, 3/4"[19.05 mm] in stainless steel, brass T sleeve without sleeve.



HUSKY SERIE: SPECIFICATIONS

	HUSKY 205	HUSKY 307	HUSKY 515	HUSKY 716	HUSKY	7 1050	HUSKY	Y 1590	HUSK'	Y 2150	HUSKY	/ 3300
matter	Plastique	Plastique	Plastique	Métal	Plastique	Métal	Plastique	Métal	Plastique	Métal	Plastique	Métal
dimension connections	6,3 mm	9,4 mm	12,7 and 19,1 mm	19,1 mm	25,4 mm	25,4 mm	38,1 mm	38,1 mm	50,8 mm	50,8 mm	76,2 mm	76,2 mm
Thread Type	NPT or BSP	NPT or BSP	NPT or BSP	NPT or BSP	Bride ANSI/ DIN	NPT or BSP	Bride ANSI	NPT or BSP	Bride ANSI	NPT or BSP	DIN/ANSI	NPT and BSP DIN/ ANSI
Air Valve	Standard distance	Standard	Standard distance	Standard distance		elligent and à ance	Standard ar	nd à distance	Standard	d distance	Standard	Standard
Max speed	19 l/mn (5 gpm)	26 l/mn (7 gpm)	57 l/mn (15 gpm)	61 l/mn (16 gpm)	189 l/mr	n (50gpm)	379 l/mn	(100 gpm)	568 l/mn	(150 gpm)	1 059 l/mn (280 gpm)	1 135 I/ mn (300 gpm)
Maximum pressure delivery	7,0bars (0,7 MPa, 100 psi)	7,0bars (0,7 MPa, 100 psi)	7,0bars (0,7 MPa, 100 psi)	7,0bars (0,7 MPa, 100 psi)		(0,9 MPa, 5 psi)		(0,8 MPa,) psi)		(0,8 MPa,) psi)	7 bars (0,7 MPa, 100 psi)	8,6 bars (0,9 MPa, 125 psi)
Available building materials	PP, PVDF, acetal	PP, acetal	PP, PVDF, acetal	Alu, SS 316	PP, PP conductor, PVDF	Aluminium, SS 316, Hastelloy	PP, PVDF	Aluminium, SS 316	PP, PVDF	Aluminium, SS 316, ductile iron	PP	Aluminum, SS 316
Available central section	PP	PP	PP	PP	PP and PP conducteur	Aluminium coated, PP and PP conducteur		minium, SS, 16	Aluminium re	evêtu, SS 316	PP	Aluminium, PP
	0,9 kg PP	2,2 kg Acétal	2,9kg PP	3,9 kg Aluminium	8,2 kg PP	10,4 kg Aluminium	16 kg PP	15,2 kg Aluminium	22 kg PP	26,3 kg Aluminium	90,7 kg	68 kg Aluminium
Weight of the pump	Max solids.	2,4 kg PP	3,5 kg Aceta	8,2 kg SS	11,8 kg PVDF	16,5 - 18,6 kg SS	22 kg PVDF	40 kg SS	31 kg PVDF	50,3 kg SS		115,6 kg SS
	1,3 kg PVDF		3,9 kg PVDF			18,6 kg Hastelloy				59 kg ductile iron		
	1,5 mm	1,6 mm	2,5 mm	2,5 mm	3,2 mm	3,2 mm	4,8 mm	4,8 mm	6,3 mm	6,3 mm	12,7 mm	12,7 mm

GEAR PLIMP : BEINLICH





	SERIE ZPA	SERIE ZPB	SERIE ZPD	SERIE ZPDA	SERIE ZPI
Туре	Transfer pumps, lubrication and hydraulic	Transfer and lubrication pumps for highly viscous liquids	Dosing and transfer pumps	High precision dosing pumps	Transfer pumps, lubrication and hydraulic
Gears	External/Outer	External/Outer	External/Outer	External/Outer	
Displacement	0,12 600 cc/tr	0,1900 cc/tr	0,12 600 cc/tr	0,126 cc/tr	1207 cc/tr
Max pressure	200 bar	100 bar	200 bar	150 bar	100 Bar
Viscosity	101 000 cSt	101 000 000 cSt	1 000 000 cSt	10150 000 cSt	10 100 cSt
Temperature	-40+120°C	-40+120°C	-55+400°C	-10+200°C	-10+200°C
Specificity	Cast iron or steel body	Connection to the intermediate plate	For dispensing applications	High accuracy	Extremely quiet operation

Beinlich gear pumps are declinables in several series, depending on the nature of the application (hydraulic, dosing, transfer, lubrication etc.). Thanks to the very precise adjustment of the play operation, it is possible to pump all types of liquids, from low to the high viscosity, and thus to ensure a minimum internal leakage.

Depending on the fluid, Gentec offers you many types of materials for pump structure and strategic parts : cast iron, steel, stainless steel standard, steel 316L, Hastelloys, bronze, titanium etc. In parallel, there are also various

options for the treatment of parts : nickel, PTFE, DLC etc.

Sealing is an ongoing concern. Depending on the application, several options are available, from simple lip seal with magnetic coupling through the gland, the seal chamber, gasket mechanical contact.

For more demanding applications, many options are available, such as integrated flowmeter converter, tachometer, transmitters etc.

Applications areas:

- Hydraulic

Silicone

Skydrol

Resins

Lubrication

- Vehicle fire
- PU foams (polyols, TDI, MDI)
- Test bench Machine tools etc.

Agri - Food



POSITIVE DISPLACEMENT FLOWMETER

SIZE	MEASURI	NG RANGE	FACT	TOR K
	l/min	GPM	lmp./I	lmp./Gal.
VS 0.02	0,0022	0,00050,53	50 000	189 272
VS 0.04	0,0044	0,00111,06	25 000	94 636
VS 0.1	0,01 10	0,00262,64	10 000	37 854,4
VS 0.2	0,0218	0,00534,76	5 000	18 927,2
VS 0.4	0,03 40	0,007910,57	2 500	9 463,6
VS 1	0,0580	0,013221,13	1 000	3 785,44
VS 2	0,1 120	0,026431,70	500	1 892,72
VS 4	1250	0,264266,00	250	946,36
VS 10	1,5525	0,3963138,69	300	1 135,63



PRESENTATION

Volumetric flowmeter series VS

Positive displacement flowmeters VS are devices able to measure the volumetric flow of liquids using the principle of sprockets.

Two perfectly calibrated sprockets take place in a cavity machined accurately. The rotation of the wheels is detected by a contactless sensor system. Each tooth generates a digital pulse. Hollow teeth, once prisoners of the cavity, are the measuring chambers. Thus, the liquid that flows is broken down into discrete volumes. Each discrete volume is a volume measurement per pulse [Vm] and its unit is cm3 / imp. It is used to set the size of the flowmeter.

VSI high-resolution systems

The preamplifier of VSI flowmeters delivers digital signal in high resolution.

Depending on the program selected, it is possible to appreciate an angular step divided by a factor between 4 and 64, a maximum frequency multiplier 16, and a K factor multiplied by 64. At full rate, the frequency maximum can reach 26 kHz.

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GRACO PRESSURE TANKS



MODEL (1	.05 - 7bars)	8 LITER	19 LITER	38 LITER	57 LITER
Models with	Height (cm)	66	77.5	88	113.2
agitators	Weight (kg)	17	34	39	46
Models without	Height (cm)	65.5	77.5	88	132.2
agitators	Weight (kg)	14	30	35	42

A new optional air regulator kit gun can be added to all tanks. All 19, 38, 57 I (5, 10 and 15 gallons) tanks are equipped with agitators reducers.

PRESENTATION

Pressure Pots are a crucial element of the finishing system and can be used in a variety of applications including:

Fluid Supply Systems for Air Spray or Feeding Other Equipment: They provide pulse-free, ultraprecise fluid delivery at low pressures and flow rates that are not reliably obtained with pumps and other equipment. This is ideal for customers that demand reliable, affordable and easy fluid delivery.

Sealed Reservoir for Moisture Sensitive or

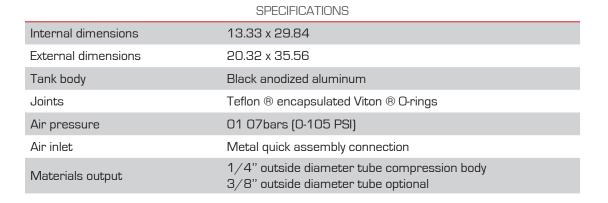
Corrosive Materials: Store your catalyst and other moisture sensitive materials in our sealed pressure tanks to protect humidity sensitive materials. Pressure tanks are ideal for supplying 2K proportioners with resin or catalyst to ensure an effective and consistent sealing surface for your finishing operation.

Vacuum Tank: When you need to remove entrapped air from material for precision mixing, Graco pressure tanks provide a great degassing option to eliminate foam from your material to reduce surface defects and pitting.

- Heavy-duty gear-reduced agitator provides more power for high solids
- Improved access with a bottom outlet kit reduces material waste
- Polyethylene tank liners available for quick color change
- Stainless steel construction allows for use with all materials
- Inexpensive, flexible, and easily upgraded to add functionality compared to other systems



PVA PRESSURE TANKS



feeding the pressure in the tank.



PRESENTATION	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	REMARKS
The pressurized 1 liter tank designed PVA intended for small quantities have a significant contribution to the		Available in 1, 2 and 5 liters	
performance of the dispensing system.		Air safety valve 70 psi	
To use it, remove the two threaded screws and lift the tank lid. Insert the container (as uncapped material)		,	
inside the tank and replace the cover on top of the pressure tank, ensuring that the dip tube is positioned		Accepts bottled packaged materials	
inside.	_		
Tighten both screws evenly, connect all the air lines		Full opening	

Easy to use with UV and anaerobic materials





DOSING ROBOT

ADVANTAGES	BENEFITS
System in accordance with the European Directive 2006/42 / EC	Accurate and repeatable dispensing
Integrated control systems and metering	Higher production yield
Rigid structure	Precision and reliability guarantee
Interface production line	Economic automation
Emergency stop and reset	High quantity treatment process
Camera option	Frees operators for other tasks
Different communication modes	Integrated and autonomous system



PRESENTATION

With its integration partner MA Systeme (since 2009), Gentec has a complete and efficient expertise on dosing robot solutions ready for use.

Robots Janome offer a competitive advantage by increasing the quality and productivity of their manufacturing process. By providing you with these high performance devices, Gentec put the costs reduction as priority with a range of new generation robots that eliminate expensive automation and reduce human intervention.

Innovative and versatile manufacturer, Janome produced patented industrial equipment since 20 years.

The robots can be used in many sectors: electronics, automotive, aerospace, medical or cosmetic.

Associated with the appropriate application system, they can perform several types of applications: points, lines, potting, dam & filling, underfilling, encapsulation, coating, jetting etc.

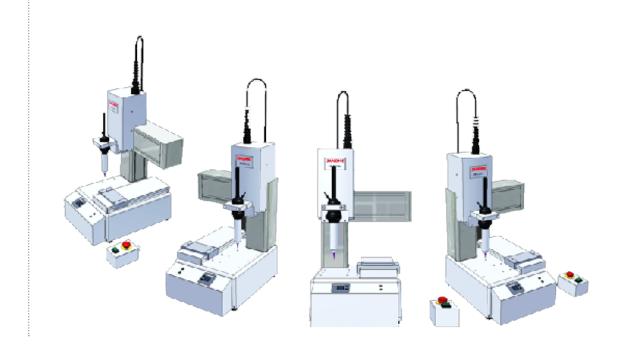
Cartesian robot

These tables available in version 3 or 4 axes have displacement capacities ranging from 200 to 600 mm. Mainly used for dispensing, screwing and grip, they are very accurate.

Scara robot

They have an action field of 250 to 550 mm and a working area of 650 to 1000 mm. The weight carried by the Z axe is from 4 to 20 kg. Welding applications, gluing and displacement are suitable for these types of robots. Their CPU has 37E and 40S to handle related functions.

CARTESIAN ROBOTS: JRN SERIES



CARTESIAN ROBOTS

PART NUMBER	AXE X, Y	AXE Z	AXE R
JR2203N	200 x 200 mm	50 mm	
JR2204N	200 x 200 mm	50 mm	±360°
JR2303N	300 x 320 mm	100 mm	
JR2304N	300 x 320 mm	100 mm	±360°
JR2403	400 x 400 mm	150 mm	
JR2404N	400 x 400 mm	150 mm	±360°
JR2503N	510 x 510 mm	150 mm	
JR2504N	510 x 510 mm	150 mm	±360°
JR2603N	510 x 620 mm	150 mm	
JR2604	510 x 620 mm	150 mm	±360°

Points - Lines - Potting - Dam & Filling - Underfilling - Encapsulation - Sealing - Coating - Jetting

PRESENTATION

Gentec offers a complete range of dosing robots to respond to your more specific demands in terms of positioning and dispensing. These dosing robots operate with syringes and valve systems, to a working area from 200 mm x 200 mm to 510 mm x 620 mm. So these robots are the ideal solution for optimizing precision works and reducing production costs.

Designed to be easy to program, a software has been specifically created to make the handling of the device accessible by avoiding the use of a complex programming language. In addition, the interface is programmable via a control unit or PC (Dispensing software included).

The Cartesian robot tables have robust and reliable units in aluminum ensuring the rigidity whatever operation is performed.

They offer a wide range of work areas for a small obstruction. These devices are ideal for autonomous operations and can easily be integrated on automated assembly lines.

- Optical encoders of displacement control
- Auto shutdown in case of error detection
- No time wasted and maximization of the productivity
- Heavy-duty aluminum structure
- Memory capacity : 30 000 points or 255 programs
- Modular RS232 C interface to connect to a PC, RS-422 port for learning case and I / O system



SPECIFI	CATIONS	JR 2203N	JR 2204N				
	Х	200 mm	200 mm				
Δ	Υ	200 mm	200 mm				
Axes	Z	50 mm	50 mm				
	R		±360°				
	PTP (X,Y)	5-550 mm/sec	5-550 mm/sec				
Chood	PTP (Z)	2,5-250 mm/sec	2,5-250 mm/sec				
Speed	PTP (R)		6-600°/sec				
	CP (X,Y,Z)	0,1-500 mm/sec	0,1-500 mm/sec				
	Axe X, Y	±0,01 mm	±0,01 mm				
Accuracy of repeatability	Axe Z	±0,01 mm	±0,01 mm				
ropeduability	Axe R		±0,02°				
\Maight load	Piece	7kg	7kg				
Weight load	Tool	3,5kg	3,5kg				
Acceptable Ine	ertia Moment						
Learning meth	nod	Distance Learning (JOG)	or manual data input (MDI)				
Learning Syste	em	JR C-Points software designed for the user via the I $/$ C					
Interpolation for	unction	Three-dimensional interpolation of lines and arcs					
Training Syste	m	Stepper mot	or / 5 phases				
Control system	n	PTP a	and CP				
Number of axi	S	3	4				
External interf	ace		2 channels for external device ox only for learning				
External I / O		I / O-SYS Input: 16 / Output:	16-input: 5 / output 7 are free				
PLC function		I / O-1 - Input: 8 / Output: 8	8 (4 relay contacts) - all free				
Capacity progr	rams	100 programs (100	O steps / 1 program)				
Memory Capa	city	255 pr	rograms				
Dimensions (V	V x D x H)	320 x 377 x 536 mm	320 x 377 x 655 mm				
Weight		18 kg					
Power Source		CA 180-250 V, 50 Hz, 200 VA					

CARTESIAN ROBOT: JR2200N



PRESENTATION

The JR2200N model is the first representative of a large series of innovative cartesian robots. With a size of only $320 \times 387,5$ mm, the device is very compact. Like all models in these series, it is easy to program the system by using the software.

Cartesian dosing robots provided by Gentec are used to interpolate lines and curves automatically in all axes. The JR2204N version is equipped with a fourth axis of rotation for 3D movement. The programming software, easy to use, allows you to create programs quickly thanks to its support system. Within a few minutes, the device is ready for use. The system is equipped with an I / 0 signal interface [16 x inputs / 16 x outputs] to allow you to control external systems.

CARTESIAN ROBOT: JR2300N



PRESENTATION

The robot JR2300N series is the most popular of the range of robotic tables. The Cartesian dosing robot has a working area of 300 x 320 mm.

Cartesian dosing robots provided by Gentec are used to interpolate lines and curves automatically in all axes. The JR2304N version is equipped with a fourth axis of rotation for 3D movement.

The programming software, easy to use, allows you to create programs quickly thanks to its support system. Within a few minutes, the device is ready for use. The system is equipped with a signal interface I / S (16 x inputs / 16 x outputs) to allow you to control external systems.

SPECIFIC	CATIONS	JR 2303N	JR 2304N				
	Х	300 mm	300 mm				
A	Υ	320 mm	320 mm				
Axes	Z	100 mm	100 mm				
	R		±360°				
	PTP (X,Y)	8-800 mm/sec	8-800 mm/sec				
Speed	PTP (Z)	3,2-320 mm/sec	3,2 - 320 mm/ sec				
Speed	PTP (R)		8-800°/sec				
	CP (X,Y,Z)	0,1-800 mm/sec	0,1-800 mm/sec				
	Axe X, Y	±0,01 mm	±0,01 mm				
Accuracy of repeatability	Axe Z	±0,01 mm	±0,01 mm				
	Axe R		±0,02°				
Weight load	Piece	11kg	11kg				
vveignicioad	Tool	6kg	6kg				
Acceptable Inc	ertia Moment		90 kg . Cm ²				
Learning meth	od	Distance Learning (JOG) o	or manual data input (MDI)				
Learning Syste	em	JR C-Points software designed for the user via the I $/$ O					
Interpolation fu	unction	Three-dimensional interpolation of lines and arcs					
Training Syster	m	Stepper moto	or / 5 phases				
Control system	า	PTP a	ind CP				
Number of axis	5	3	4				
External interfa	ace		2 channels for external device ox only for learning				
External I / O		I / O-SYS Input: 16 / Output:	16-input: 5 / output 7 are free				
PLC function		I / O-1 - Input: 8 / Output: 8	3 (4 relay contacts) - all free				
Capacity progr	rams	100 programs (100)	O steps / 1 program)				
Memory Capa	city	255 pr	ograms				
Dimensions (V	V x D x H)	560 x 529 x 649 mm	560 x 529 x 840 mm				
Weight		35 kg 35 kg					
Power Source		CA 180-250 V, 50 Hz, 200 VA					



SPECIFIC	CATIONS	JR 2403N	JR 2404N			
	Χ	400 mm	400 mm			
Δ	Υ	400 mm	400 mm			
Axes	Z	150 mm	150 mm			
	R		±360°			
	PTP (X,Y)	8-800 mm/sec	8-800 mm/sec			
Canad	PTP (Z)	3,2-320 mm/sec	3,2-320 mm/sec			
Speed	PTP (R)		8-800°/sec			
	CP (X,Y,Z)	0,1-800 mm/sec	0,1-800 mm/sec			
	Axe X, Y	±0,01 mm	±0,01 mm			
Accuracy of repeatability	Axe Z	±0,01 mm	±0,01 mm			
торошины	Axe R		±0,02°			
\Maight load	Piece	11kg	11kg			
Weight load	Tool	6kg	6kg			
Acceptable Ine	rtia Moment		90 kg . Cm ²			
Learning meth	od	Distance Learning (JOG) o	or manual data input (MDI)			
Learning Syste	m	JR C-Points software design	ned for the user via the I $/$ O			
Tnterpolation f	unction	Three-dimensional interp	polation of lines and arcs			
Training Syster	m	Stepper moto	or / 5 phases			
Control system	1	PTP a	nd CP			
Number of axis	6	3	4			
External interfa	ace		2 channels for external device ox only for learning			
External I / O		I / O-SYS Input: 16 / Output: 1	16-input: 5 / output 7 are free			
PLC function		I / O-1 - Input: 8 / Output: 8	3 (4 relay contacts) - all free			
Capacity progr	ams	100 programs (1000	O steps / 1 program)			
Memory Capac	city	255 pr	ograms			
Dimensions (W	/ x D x H)	584 x 629 x 799 mm	584 x 629 x 890 mm			
Weight		42 kg 42 kg				
Power Source		CA 180-250 V, 50 Hz, 200 VA				

CARTESIAN ROBOT: JR2400N



PRESENTATION

With its large working area of $400 \times 400 \text{ mm}$, the JR2400N dispensing robot takes less than 629 mm² workspace. This robot has an opening on the side for easy handling unhardy objects in and around the work area.

Cartesian dosing robots provided by Gentec are used to interpolate lines and curves automatically in all axes. The JR2404N version is equipped with a fourth axis of rotation for 3D movement.

The easy-to-use software program allows you to create programs quickly thanks to its support system. Within minutes, the device is ready for use. The system is equipped with an I / O signal interface [16 x inputs / 16 x outputs] to allow you to control external systems.

CARTESIAN ROBOT: JR2500N



Offering a wide working area of 510 x 510 mm, the robot JR2500N dosing yet takes less than 727 mm² workspace. The JR2500N robot has an opening on the side for easy handling unhardy objects in and around the work area

Cartesian dosing robots provided by Gentec are used to interpolate lines and curves automatically in all axes. The JR2504N version is equipped with a fourth axis of rotation for 3D movement.

The easy-to-use programming software allows you to create programs quickly thanks to its support system. Within a few minutes, the device is ready for use. The system is equipped with an I / O signal interface [16 x inputs / 16 x outputs] to allow you to control external systems.

SPECIFI	CATIONS	JR 2503N	JR 2504N		
	Χ	510 mm	510 mm		
	Υ	510 mm	510 mm		
Axes	Z	150 mm	150 mm		
	R		±360°		
	PTP (X,Y)	8-800 mm/sec	8-800 mm/sec		
Conned	PTP (Z)	3,2-320 mm/sec	3,2-320 mm/sec		
Speed	PTP (R)		8-800°/sec		
	CP (X,Y,Z)	0,1-800 mm/sec	0,1-800 mm/sec		
	Axe X, Y	±0,01 mm	±0,01 mm		
Accuracy of repeatability	Axe Z	±0,01 mm	±0,01 mm		
ropododomoy	Axe R		±0,02°		
Moight load	Piece	11kg	11kg		
Weight load	Tool	6kg	6kg		
Acceptable Ine	ertia Moment		90 kg . Cm²		
Learning meth	od	Distance Learning (JOG) or manual data input (MDI)			
Learning Syste	em	JR C-Points software design	ned for the user via the I $/$ O		
Tnterpolation f	unction	Three-dimensional interpolation of lines and arcs			
Training Syste	m	Stepper motor / 5 phases			
Control systen	า	PTP and CP			
Number of axis	5	3	4		
External interfa	ace	RS 232C 1 channel for PC, 2 channels for external device optional RS422 box only for learning			
External I / O		I / O-SYS Input: 16 / Output:	16-input: 5 / output 7 are free		
PLC function		I / O-1 - Input: 8 / Output:	8 (4 relay contacts) - all free		
Capacity progr	rams	100 programs (100	O steps / 1 program)		
Memory Capa	city	255 pr	rograms		
Dimensions (V	V x D x H)	676 x 728 x 799 mm	676 x 728 x 890 mm		
Weight		43 kg	43 kg		
Power Source		CA 180-250 V, 50 Hz, 200 VA			



SPECIFI	CATIONS	JR 2603N	JR 2604N		
	Χ	510 mm	510 mm		
Axes	Υ	620 mm	620 mm		
Axes	Z	150 mm	150 mm		
	R		±360°		
	PTP (X,Y)	8-800 mm/sec	8-800 mm/sec		
Speed	PTP (Z)	3,2-320 mm/sec	3,2-320 mm/sec		
Speeu	PTP (R)		8-800°/sec		
	CP (X,Y,Z)	0,1-800 mm/sec	0,1-800 mm/sec		
	Axe X, Y	±0,01 mm	±0,01 mm		
Accuracy of repeatability	Axe Z	±0,01 mm	±0,01 mm		
· -	Axe R		±0,02°		
Weight load	Piece	11kg	11kg		
vveignt load	Tool	6kg	6kg		
Acceptable Ine	ertia Moment	90 kg . Cm²			
Learning meth	nod	Distance Learning (JOG) or manual data input (MDI)			
Learning Syste	em	JR C-Points software designed for the user via the I $/$ O			
Tnterpolation f	function	Three-dimensional interpolation of lines and arcs			
Training Syste	m	Stepper motor / 5 phases			
Control systen	n	PTP and CP			
Number of axi	S	3	4		
External interf	ace	RS 232C 1 channel for PC, 2 channels for external device optional RS422 box only for learning			
External I / O		I / O-SYS Input: 16 / Output:	16-input: 5 / output 7 are free		
PLC function		I / O-1 - Input: 8 / Output: 8	8 (4 relay contacts) - all free		
Capacity progr	rams	100 programs (100	O steps / 1 program)		
Memory Capa	city	255 pr	ograms		
Dimensions (V	V x D x H)	788 x 731 x 800 mm	788 x 731 x 800 mm		
Weight		44 kg	44 kg		
Power Source		CA 180-250 V, 50 Hz, 200 VA			

CARTESIAN ROBOT: JR2600N



PRESENTATION

With its large working area of 620×510 mm, the JR2600N dispensing robot takes less than 787 mm^2 workspace. The JR2600N robot has an opening on the side for easy handling unhardy objects in and around the work area.

Cartesian dosing robots provided by Gentec are used to interpolate lines and curves automatically in all axes. The JR2604N version is equipped with a fourth axis of rotation for a 3D displacement.

The programming software, easy to use, allows you to create programs quickly thanks to its support system. Within few minutes, the device is ready for use. The system is equipped with an I / 0 signal interface (16 x inputs / 16 x outputs) to allow you to control external systems.

CARTESIAN ROBOT: JR2000NE (ENCODER)



BENEFITS

Version 3 or 4 axes. Stepper motor with encoder

Integrated control systems and metering

Solid structure to ensure accuracy

Interface production line

Emergency stop and reset

Choose from 10 different display languages

Switch between the coordinate values displayed

Extended Memory Up to 255 programs and 30 000 points

Possibility of an established system or standalone

PRESENTATION

Dosing robot JRNE series, sister of JRN series, is a Cartesian robot equipped with an encoder, allowing feedback on the actual position.

This ensures an even more precise positioning.

5 different model ranges are available, with an operating size from 200x200mm to 510x510mm.

These robots work with dispensing syringes and valve systems and is the best way to optimize your most sensibles precision works. Equipped with the same programming software as the JRN series, the JRNE series is just as intuititive and easy to program as the JRN serie.

- Rigid structure : extruded aluminum column, base in aluminum molded under pressure
- Mechanism labyrinth: Prevents intrusion of foreign objects under the work table
- Smooth movement : microstepped control system
- Simple learning: Software «JRC-Points» allowing the user to easily figure out the robot or to create original programs
- Embedded optical encoders continuously control the axis movement and automatically stop the operation by detecting position errors
- Simple Sequencer: single sequencer functions are built independently, allows up to 1000 steps



JR2000NE SERIE: SPECIFICATIONS

SPECI	FICATIONS	3 AXES (SYNCHRONOUS CONTROL)					4 AXES (SYNCHR	ONOUS CONTROL)
		JR2203NE	JR2303NE	JR2403NE	JR2503NE	JR2204NE	JR2303NE	JR2404NE	JR2504NE
	Χ	200	300	400	510	200	300	400	510
A.,	Υ	200	320	400	510	200	320	400	510
Axes	Z	50	100	150	150	50	100	150	150
	R (degrees)					±360	±360	±360	±360
Weight load	Piece (kg)	7	11	11	11	7	11	11	11
vveignicioad	Tool (kg)	3,5	6	6	6	3,5	6	6	6
	Axe X Y [mm/sec]	700 (7-700)	800 (8-800)	800 (8-800)	800 (8-800)	700 (7-700)	800 (8-800)	800 (8-800)	800 (8-800)
Speed (max) PTP	Axe Z [mm/sec]	250 (2,5-250)	320 (3,2-320)	320 (3,2-320)	320 (3,2-320)	250 (2,5-250)	320 (3,2-320)	320 (3,2-320)	320 (3,2-320)
	Axe R (degré/sec)					600 (6-800)	800 (8-800)	800 (8-800)	800 (8-800)
Speed (max) CP	Axes X,Y,Z combined (mm/ sec)	500 (0,1-500)	800 (0,1-800)	800 (0,1-800)	800 (0,1-800)	500 (0,1-500)	800 (0,1-800)	800 (0,1-800)	800 (0,1-800)
	Width	320	560	584	676	320	560	584	676
Dimensions	Depth	387	529	629	728	387	529	629	728
	Height	540	649	799	799	655	840	890	890
Robot weight (k	g)	18	35	42	43	18	35	42	43
Power Source					CA 90 - 132 V /	CA 180 – 250 V			
Output					200	o W			
Learning Syster	n			Points JR-C	programming des	igned for the user	via the I / O		
Learning metho	od			Direct input via tea	ach pendant (option	nal). Offline - Learni	ng via PC (optional)	
Capacity progra	ams				255 pr	ograms			
Storage capacit	ty				30,000	O items			
Languages				English / Germa	nn / French / Spar	nish / Italian / Chi	nese / Japanese		

SCARA ROBOT: JS SERIE



SPECIFIC	CATIONS	JS250	JS350	JS450	JS550
Acceptab	le Inertia		0.1 k	g. M²	
Detection	n position		Absolute	encoder	
Control	system	PTP comm	and (point to point)	. CP control (contin	uous path)
Interpolation	Interpolation function		Three-dimensional interpolation of lines and arcs		
Learning	method	Direct learning / Distance Learning (JOG) / Manual Data Entry (MDI)			
External interface	E/S	1/0-1-	input: 18 output: 2	Output: 14 - all cove 2 (4 relay contacts out: 4 (2 relay conta) - all free
series	RS232C	1 channel for PC (COM1), 2 channels	for external device	es (Com 2 COM 3)
	Locking		Reverse L	ock Signal	

PRESENTATION

The Scara robot (Selective Compliance Assembly Robotic Arm) proposed by Gentec is the ideal answer to your automation on assembly line needs. They bring you the flexibility to work either as stand-alone systems or as key components of an automated dispensing solution.

It consists of an articulated arm mounted on a vertical axis, which allows to cover a very large area of work and make rapid and accurate movements. Versatile and compact, it is easy to program and integrate into a production line.

JS series uses an exclusive Janome bearing configuration

coupled with AC servomotors to allow high movement speed and optimum precision.

Integrated in automation, it offers the ability to control a variety of external equipment and communicate with complex controllers.

I / O preconfigured connections allow an easy integration of a syringe or a dispensing valve system while the built-in sequencer simplifies installation of a dosing arm on online transfer systems, rotary tables or pallets assembly lines.

- Increased precision thanks to double-shaft mechanism
- Memory up to 255 programs or 30 000 points
- Speed standard cycle time: 0.4 seconds on average
- Maximum speed: 6,300 mm / Sec7
- Programming method JR C-Points software, easy to use
- Digital imaging in option
- Automatically detect and correct height, ideal for dispensing



SCARA ROBOT: JS SERIE

SPECIF	ICATIONS	JS250	JS350	JS450	JS550
Δ	xes	4 (synchronous control)			
	Arm J1	100 mm	125 mm	225 mm	325 mm
Arm length	Arm J2	150 mm	225 mm	225 mm	225 mm
	Arm J1 et J2	250 mm	350 mm	450 mm	550 mm
Operating range form)	(in a X Y square	206 mm	210 mm	306 mm	349 mm
	Arm J1	±130°	±130°	±130°	±130°
Operating range	Arm J2	±145°	±150°	±145°	±150°
operating range	Axe Z	150 mm°	150 mm°	150 mm°	150 mm°
	Axe R	±360°	±360°	±360°	±360°
Portable maximu	ım weight	4kg	6kg	6kg	6kg
	J1 and J2	4.200 mm/sec	6.300 mm/sec	5.600 mm/sec	6.200 mm/sec
Top speed	Axe Z	1.400 mm/sec	1.850 mm/sec	1.850 mm/sec	1.850 mm/sec
	Axe R	1.750 °/sec	1.900 °/sec	1.900 °/sec	1.900 °/sec
	Axe X and Y	± 0.01 mm	± 0.01 mm	± 0.015 mm	± 0.015 mm
Accuracy of repeatability	Axe Z	± 0.01 mm	± 0.01 mm	± 0.01 mm	± 0.01 mm
. opedadamey	Axe R	± 0,01 °	± 0,01 °	± 0,01 °	± 0,01 °
Standard cycle t	ime	0.39 sec (1kg)	0.38 sec (1kg)	0.39 sec (1kg)	0.41 sec (1kg)
Simple sequence	er		100 pr	ograms	
Aberrante detec	tion		Auto function	n - Diagnostic	
Installed aliment	ation		AC 180-250 \	/ (single phase)	
Installed power		950 VA		1.050 VA	
Temperature			0 to 40 ° C, 20-95% relativ	e humidity (non-condensing)	
Weight		27 kg	28 kg	28 kg	29 kg
Control box weig	ht	20 kg			

SCARA ROBOT: JS SERIE



SPECIFIC	CATIONS	JS650	JS750	JS880	JS1000
Acceptable in	ertia moment		0.2 k	g. M²	
Detection	n position		Absolute	encoder	
Control	system	PTP comm	and (point to point)	. CP control (contir	nuous path)
Interpolation	on function	Three	-dimensional interp	oolation of lines and	l arcs
Learning	Learning method		Direct learning / Distance Learning (JOG) / Manual Data Entry (MDI)		
Learning	Learning System		Janome Software: JR - R Points		
Programmi	Programming capability		255 programs or 30000 points		
External interface	E/S	1/0-1-) - SYS Input: 15 / (input: 18 output: 2) - H Input: 4 / Outp	2 (4 relay contacts	s) - all free
series	RS232C	1 channel for PC (COM1), 2 channels	for external device	es (Com 2 COM 3)
	Lock		Reverse L	ock Signal	
Wiring and pip	es		14 cables for sig	nals, 4 air ducts	

PRESENTATION

Easy to program and to implement in the production chain, the multi-axis dispensing robot Scara proposed by Gentec is ideal for use with conveyors or for heavy or bulky products.

Although it offers a small obstruction space with its «all-in-one» compact structure and integrated control unit, the materials it is made by allow it to be rigid and strong in order to be able to exploit effectively your heaviest materials.

Its flexible interface allows you to easily program your specific operations with expanded memory up to 255 programs and 30,000 points recorded. It is accessible and easy to learn even without major knowledge in computer science.

- A unique software avoids the use of a complex programming language
- Programmable interface via a control unit or a PC
 - Compact size and built-in sequencer allows easy integration of automated assembly lines
- Robust and reliable units
- Ideal for operations in autonomous and automated mode
- Possibility of making samples before buying the product



SCARA ROBOT : JS SERIE

SPECIFI	CATIONS	JS650	JS750	JS880	JS1000
А	xes	4 (synchronous control)			
	Arm J1	300 mm	400 mm	400 mm	520 mm
Arm length	Arm J2	350 mm	350 mm	480 mm	480 mm
	Arm J1 et J2	650 mm	750 mm	880 mm	1000 mm
Operating range square)	(in the form of XY	436 mm	505 mm	602 mm	748 mm
	Arm J1	±130°	±130°	±130°	±130°
Operating range	Arm J2	±150°	±150°	±160°	±160°
Operating range	Axe Z	200 mm°	200 mm°	200 mm°	200 mm°
	Axe R	±360°	±360°	±360°	±360°
Portable maximu	m weight	20 kg	20 kg	20 kg	20 kg
	J1 and J2	6.700 mm/sec	7.200 mm/sec	6.500 mm/sec	7.000 mm/sec
Top speed	Axe Z	2000 mm/sec	2000 mm/sec	2000 mm/sec	2000 mm/sec
	Axe R	1.800 °/sec	1.800 °/sec	1.800 °/sec	1.800 °/sec
	Axe X and Y	± 0.02 mm	± 0.02 mm	± 0.025 mm	± 0.025 mm
Accuracy of repeatability	Axe Z	± 0.01 mm	± 0.01 mm	± 0.01 mm	± 0.01 mm
. 565454	Axe R	± 0,01 °	± 0,01 °	± 0,01 °	± 0,01 °
Standard cycle T	ime	0.44 sec (1kg)	0.46 sec (1kg)	0.47 sec (1kg)	0.50 sec (1kg)
Simple sequence	r		100 pro	ograms	
Aberrante detec	tion		Auto function	ı - Diagnostic	
Installed alimenta	ation		CA 180	- 250 V	
Installed power			1.90	O VA	
Weight Robot		65 kg	67 kg	68 kg	70 kg
Weight Control u	ınit		27	kg	

SCARA ROBOT: JSR



PRESENTATION

Accurate and easy to use, the Scara robot motor stepper JSR4400N series offers a convenient and inexpensive way to automate your workflow. Its innovative technology ensures a smooth and precise movement.

Also meet the environmental standards, it is designed to maintain extremely low power levels. Featuring an intuitive and accessible teaching method, it allows you to save considerable time savings by programming the device.

Applications:

- Dispensing
- Pick-Up
- Assembly
- Palletization
- Removing
- Welding

SPECIFICATIONS		JSR4403N	JSR4404N		
A	xe	3	4		
	Arm J1	260 mm	260 mm		
Arm length	Arm J2	180 mm	180 mm		
3	Arm J1 and J2	440 mm	440 mm		
	Arm J1	±90°	±90°		
Operating	Arm J2	±150°	±150°		
range	Axe Z	100 mm	100 mm		
	Axe R	±360°	±360°		
		1500 mm/sec (1kg load)	1500 mm/sec		
	J1 and J2	1400 mm/sec (3kg load)	1400 mm/sec		
Top speed		1300 mm/sec (5 kg load)	1300 mm/sec		
	Axe Z	320 mm/sec	320 mm/sec		
	Axe R		900°/sec		
	Axe X and Y	±0,02 mm	±0,02 mm		
Accuracy of repeatability	Axe Z	±0,01 mm	±0,01 mm		
repeated may	Axe R		±0,02 mm		
Learning	j method	Direct Learning, Distance Learnin	ng (JOG), manual data input (MDI)		
Training	System	Stepping motor in 5 steps (controlled by encoder)			
Control	system	PTP command (point to point), continuous path control (PC)			
Interpolation	on function	3D linear interpolation and bows			
External	interface	RS232C 3 Channels for external control box + PC			
I/OE	xternal	I / O-SYS Input: 16 / Output: 16-Input 2 / Output: 6 free I / O-1 - Input: 8 / Output: 8 (4 relay contacts) - available			
Programmi	ng capability	255 Programs			
Storage	capacity	30,000 points o	r 255 programs		
CF	PU	32	Bits		
Dimensions	(W x D x H)	880 x 773 x 840 mm	880 x 858 x 840 mm		
We	ight	41 kg	41 kg		
Power	supply	CA 180-250 V, 50 Hz, 200 VA			



APPLICATIONS

ELECTRONICS

- Coating for printed circuits
- Distribution glue for mobile device circuit
- Distribution paste for control circuit
- Clamping screw
- UV glue dispensing
- Pick and place small parts













CARS

- Spray
- Pick and place fuse box
- Epoxy resin deposited by car relay
- Sealing for vehicle lighting part
- Joint casting for the engine
- Lubrication of air conditioner parts













MEDICAL

- Capping system
- Fill solutions
- Many heads of dispensing system
- Weight management system









OTHERS

- Ink application on spoons, glasses
- Removal of red ink in the database
- Fill molds with chocolate
- Cans fill with syrup











UV CURING SYSTEMS OmniCure UV Curing Lamp & LED Systems





OMNICURE UV CURING LAMP

OmniCure® S Series UV light curing systems are used for precision adhesive curing in industries such as medical device bonding, electronic assembly, and optoelectronics applications. Due to the accuracy requirements and critical nature of these devices, a repeatable process with reliable UV curing equipment is essential to product performance.

OmniCure S Series delivers stronger, faster cures of UV adhesives resulting in improved product quality, rapid production and reduced manufacturing costs. Significant UV light curing systems expertise and innovative design goes into every curing machine to ensure peace-of-mind when selecting the most reliable spot curing equipment in the industry.

S1500

High Pressure 200 Watt Mercury Vapor Short Arc

2000 hours (guaranteed)

Available Filters: Standard: 320-500nm

Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm

Panel Controls: Power On/Off, LED Display, Up/Down Adjust Buttons, Start/Stop Button

Panel Displays: Accumulated lamp usage, exposure time, iris setting, lamp on/warm-up status, shutter open, Light Guide detection, shutter/lamp error

Warm-up Period: 4 minutes (typical)

Power In: 100-240VAC, 50/60Hz

Power Supply: High efficiency, switch mode, line isolated

Dimensions (LxWxH): 13.30 x 7.10 x 7.90 (33.8cm x 18.0cm x 20.1cm)

Weight: 9.9lbs (4.5kg)



S2000

70% improvement of shutter activation latency increasing productivity, especially for high volume manufacturing.

Downloadable StepCure® Software: Download customized multi-phase cure profiles directly to the unit. No need for a permanently connected PC.

Modified PLC Level Mode: Provides trigger signal versatility by selecting either edge or level modes.

Provides up to 30W/cm2 of output and a guaranteed 2000 hour lamp life, lower operating costs.

Intelli-Lamp Technology to cool lamp and monitor lamp hours

2 UV Lamp Options: Special UV lamp technology for acrylic adhesives provides a tack-free surface cure.

Closed-Loop Feedback Technology: Automatically monitors and maintains a constant output for a repeatable spot UV curing process using an integrated UV sensor.

Typically, UV lamp intensity will diminish over time which affects the results and consistency of a UV curing process. The closed-Loop Feedback technology automatically compensate this effect with a tolerance of +/-5%

Adjustable light output in 1% increments: Allowing very precise control of the light curing system output.

Easily combined with the R2000 Radiometer: Calibrate and set absolute UV curing system irradiance levels from a single reference point.

OMNICURE SERIE 1500



\$1500	R2UUU
Filtre (nm)	Irradiance (mW / cm²)
320-500 nm	$23000\mathrm{mW/cm}2$
320-390 nm	14 500 mW/cm2
365 nm	$7300\mathrm{mW/cm2}$
400-500 nm	5 900 mW/cm2
250-450 nm	19 100 mW/cm2
No Filter	27 70 mW/cm2



04500



 $D \cap C \cap C$

PRESENTATION

The OmniCure® S1500 spot UV curing lamp provides automated manufacturers with industry leading control, reliability, and high intensity irradiance in a versatile UV mercury lamp system. Offering precise control of UV lamp output and high-speed shutter activation capabilities, the OmniCure S1500 spot UV curing lamp is ideal for the high throughput UV adhesive curing and automated bonding processes involved in microelectronic and optoelectronic manufacturing.

Recognized as the global leader in bonding systems for precision assembly with light-cured adhesives, the OmniCure® family of products provides the power, control and repeatability demanded by high-speed automated

manufacturing assembly. The OmniCure® S1500 UV Spot Curing System builds on that leadership by providing first-rate quality, precision and versatility in an easy-to-use, cost-effective system. The OmniCure® S1500 is also designed to adhere to regulatory validations and is RoHS compliant.

Powerful 200 Watt Intelli-Lamp®

At the heart of the OmniCure S1500 & S2000 UV curing system is the unique Intelli-Lamp technology. The OmniCure Intelli-Lamp is guaranteed to strike for a minimum of 2000 hours operation with a maximum-use lifetime up to 4000 hours. Snap-in insertion enables quick and easy Intelli-Lamp installation, while ensuring consistent optical tube and UV

sensor alignment. Each Intelli-Lamp chip module automatically records and maintains the UV lamp hours of use to facilitate activation of lamp warranty if required. The Intelli-Lamp provides output across virtually the entire visible and UV spectrum, making it suitable for a wide range of adhesive/substrate bonding applications.

Intelligent Operation

The OmniCure® S1500 has a multitude of built-in features that provide greater control, precision and versatility. Features include an adjustable iris, patented Intelli-Lamp® technology, selectable bandpass filters, process alarms, and 'lock out' protection, most of which are found only in higher-priced curing systems.



S1500: PERFORMANCES

SPECIFICATIONS	BENEFICES		
Fast Shutter Activation Time	Improved shutter activation latency increasing productivity		UV Curing Lamp Technology: High Pressure 200 Watt Mercury Vapor Short Arc
Modified PLC Level	Provides trigger signal versatility by selecting either edge or level modes		UV Curing Lamp Life : 2000 hours (guaranteed)
200W lamp technology with 2000 hour lamp life guarantee	Less frequent lamp changes for lower operating costs		Available Filters :
Shutter / Aperture sophisticated roulette	Tested more than 6 million times to inspect to their reliability		Standard: 320-500nm Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm
Intelli-Lamp® Technology to cool lamp and monitor lamp hours	Maintain optimum operating condition, stable lamp output, longer lamp life, accumulated lamp hours		Panel Controls : Power On/Off, LED Display, Up/Down Adjust Buttons, Start/Stop Button
Adjustable light output in 1% increments	Allowing very precise control of output		Panel Displays :
External PC Controlled	Beneficial for automated assembly processes		Accumulated lamp usage, exposure time, iris setting, lamp on/warm-up status, shutter open, Light Guide detection, shutter/lamp error
Guaranteed Long UV Lamp Life	The OmniCure S1500 Intelli-Lamp is guaranteed to strike for a minimum of 2000 hours operation with a		Warm-up Period: 4 minutes (typical)
Pre-Aligned & Focused	maximum-use lifetime up to 4000 hours. Snap-in insertion automatically senses the Intelli- Lamp, eliminating the need for operator alignment or		Power In : 100-120 V c.a. / 200-240 V c.a., 50/60 Hz
<u> </u>	focusing.		Power Supply :
Automatic Lamp Hour Tracking	Each Intelli-Lamp chip module automatically records and maintains the UV lamp hours of use to facilitate		High efficiency, switch mode, line isolated
Automatic Lamp Hour Tracking	activation of lamp warranty if required.		Dimensions (LxWxH):13.30 x 7.10 x 7.90 (33.8cm x 18.0cm x 20.1cm)
Broad UV Spectral Output	The Intelli-Lamp provides output across virtually the entire visible and UV spectrum, making it suitable for a wide range of adhesive/substrate bonding applications.	:	Weight: 9.9lbs (4.5kg) Includes:
Built-In Reflector	Each Intelli-Lamp includes an integrated reflector, eliminating the need for a separate replacement reflector in the UV curing system.		UV Curing Lamp Module, Selected Filter (installed), Protective Eyewear, Grounded and Shielded Power Cord, Foot Pedal, Manual
	Automatic temperature monitoring cools the UV		

curing lamp and protects against accidental hot-

striking to further extend UV lamp life.

Hot-Strike Prevention

OMNICURE SERIE 2000



S2000	R2000
Filters (nm)	Irradiance (mW / cm²)
320-500 nm	24 700 mW/cm2
320-390 nm	9 830 mW/cm2
365 nm	$7280\mathrm{mW/cm2}$
400-500 nm	16 550 mW/cm2
250-450 nm	26 640 mW/cm2

DRESENITATION

Recognized as the global leader in bonding systems for precision assembly with light-cured adhesives, the OmniCure® S2000 provides the power, control and repeatability required for high-speed automated manufacturing assembly.

Offering a powerful 200 Watt lamp with a guaranteed life of 2000 hours, the OmniCure®S2000 also offers Closed-Loop Feedback technology and a flexible PC software interface for computer-controlled operation. When combined with OmniCure®'s R2000 Radiometer, the OmniCure®S2000's precision and reliability is unmatched. The OmniCure®S2000 is also designed to adhere to regulatory validations and is RoHS compliant.

Fast Shutter Activation

The OmniCure® S2000 is equipped with a fast shutter activation time, providing a maximum trigger shutter activation latency of only 50ms in PLC mode.

Closed-Loop Feedback

Over time, lamp intensity diminishes effective curing. The OmniCure® S2000 internal intensity sensor monitors light output in real time and opens the iris to automatically correct light output within \pm -5%, ensuring repeatable and measurable doses of energy every time.

Downloadable StepCure®

StepCure® software can download a customized multiphase cure profile directly to the system. This option offers users greater cure control.

200 Watt Intelli-Lamp®

The powerful 200 Watt Intelli-Lamp® provides even faster curing with high UVA irradiance of up to 30W/cm2. With automatic lamp hour tracking and broad spectral output, the OmniCure® S2000 suitable for a wide range of adhesive/substrate bonding applications.



S2000: PERFORMANCES

SPECIFICATIONS	BENEFICES		
Faster Shutter Activation Time	70% improvement of shutter activation latency increasing productivity, especially for high volume manufacturing		Lamp :
Downloadable StepCure® Software	Download customized multi-phase cure profiles directly to the unit. No need for a permanently connected PC		High Pressure 200 Watt Mercury Vapor Short Arc Lamp Life: 2000 hours (guaranteed)
Modified PLC Level Mode	Provides trigger signal versatility by selecting either edge or level modes		Available Filters :
200W lamp technology with up to 30W/cm2 of output and a 2000 hour lamp life guarantee	Lower operating costs	_	Standard: 320-500nm Optional: 250-450nm*, 365nm, 320-390nm, 400-500nm
Intelli-Lamp® Technology to cool lamp and monitor lamp hours	Maintain optimum operating condition, stable lamp output, longer lamp life, accumulated lamp hours		Panel Controls : Power On/Off, Display Mode, Adjust Up/Down, Start/Stop, Lock/Unlock
2 Lamp Options	Special lamp technology for acrylic adhesives provides a tack-free surface cure		Panel Displays : Accumulated lamp usage, Exposure time (0.2 - 999.9sec), iris setting
Closed-Loop Feedback Technology	Automatically maintains a constant output for a repeatable curing process		(0-100%) / irradiance level (0.2W/cm² - 40W/cm²), lamp on/warm-up, shutter open, calibrated, Light Guide detection, shutter/lamp error
External PC Controlled	Beneficial for automated assembly processes		Warm-up Period : 4-minutes (typical)
Adjustable light output in 1% increments	Allowing very precise control of output		Power In : 100-120VAC / 200-240VAC, 50/60Hz
Easily combined with the OmniCure®R2000 Radiometer	Calibrate and set absolute irradiance levels wirelessly from a single reference point		Power Supply :
Pre-Aligned & Focused	Snap-in insertion enables quick and easy Intelli-Lamp installation, while ensuring consistent optical tube and UV sensor alignment.		High efficiency, switch mode, line isolated Dimensions (LxWxH): 13.3" x 7.1" x 7.9" (33.8cm x 18.0cm x 20.1cm)
Automatic UV Lamp Hour Tracking	Each Intelli-Lamp chip module automatically records and maintains the UV lamp hours of use to facilitate activation of lamp warranty if required.		Weight: 9.9lbs (4.5kg) Includes: Lamp Module, Selected Filter (installed), Protective Eyewear,
Broad Light Curing System Spectral Output	The Intelli-Lamp provides output across virtually the entire visible and UV spectrum, making it suitable for a wide range of adhesive/substrate bonding		Grounded and Shielded Power Cord, Foot Pedal, Manual

applications.

OMNICURE R2000 RADIOMETER



SPECIFICATIONS

Wavelength Range	250nm - 1µm (with suitable calibration)
Maximum Range	Power: 1mW-12W Irradiance: 5mW/cm² - 60W/cm² (with 5mm Light Guide)
Resolution	Power: 1mW Irradiance: 5mW/cm² (with 5mm Light Guide)
Accuracy	+/- 5% typical; +/- 10% maximum
Auto-ranging	Power: 1-990 mW; 1.0-12.00W Irradiance: 5-990mW/cm²; 1.0-60W/cm²
	Irradiance and power measurement
Functions	Automatic light guide detection,
	Calibration due message
Power supply	Lithium battery 3.6V
Dimensions (LxWxH)	7 1/2" x 4 3/8" x 2" (19.0cm x 11.1cm x 5.0cm)

PRESENTATION

Radiometry is an essential link for measuring the light output from a UV curing system in order to maintain a repeatable process. The OmniCure® R2000 UV Radiometer can be combined with the OmniCure S2000 Spot UV Curing System to provide a complete curing station with unmatched control and repeatability. Special electronics built into the R2000 UV Radiometer also allow for the connection of custom sensors that measure light energy directly at the cure site or within cure ring bonding fixtures.

Accurate radiometry is essential to maintaining a calibrated and repeatable UV curing process suitable for consistent, high-quality production. The OmniCure® R2000 Radiometer is the most advanced and accurate tool for measuring irradiance or power from your UV Spot Curing System. Developed in cooperation with the OmniCure® Platform of UV Curing Systems, the portable OmniCure® R2000 Radiometer offers unmatched performance to calibrate and set irradiance levels on your OmniCure® S2000 Curing System.

- Using a single Radiometer, maintain process control and save setup time by calibrating multiple systems with a preferred irradiance set point
- Proprietary detector system for accurate wideband measurements suitable for many different light sources
- Proprietary optical interface that virtually eliminates beam profile dependence and significantly improves measurement accuracy
- Memory for storing data and communicating with PC software for downloading
- Ready for use with additional custom accessories such as the Cure Ring Detector and the Cure Site Detector



OMNICURE SERIE S : ACCESSORIES

ADJUSTABLE COLLIMATING ADAPTOR

The adjustable collimating adaptor is ideal for any application that requires a uniform spot from 1" up to 6" [2.54cm to 15.2cm].



Available in 3, 5 and 8mm tip diameters, these Light Guides are an economical choice for light delivery.



LIGHT LINE

The Light Line will convert the Light Guide's spot of light into a focused, linear beam of curing energy.



HIGH POWER FIBER LIGHT GUIDE

The Lumen Dynamics High-Power Fiber Light Guide supplies an equal distribution of UV energy to multiple cure sites from a single light curing system.



UV CURE RING ······

UV Cure Ring technology allows a Light Guide 360° of curing power. The standard ring for use with Liquid Light Guides is available in solid or slotted versions.



HIGH POWER FIBER LIGHT LINE

The High Power Fiber Light Line utilizes technology developed in the High Power fiber light guides to provide a high output linear beam of UV curing energy.



Many other accessories and consumables available: www.gentec-benelux.com

OMNICURE LX400





Interchangeable/Replaceable focusing lens options

PRESENTATION

Building on the simplicity of the OmniCure® LX Series plus the ability to control up to four UV LED Heads simultaneously or independently. Building on the simplicity of the OmniCure® LX Series plus the ability to control up to four UV LED Heads simultaneously or independently.

Highest Power LED Technology

With peak irradiance of 8,000mW/cm2 with the 365nm UV LED Heads, 9,500mW/cm2 at 385nm, and 9,000mW/cm2 at 400nm, as well as up to four LED. Heads installed, the OmniCure® LX400 UV LED Curing System provides the highest power and most reliable UV LED technology currently available with variable UV power output. Where multiple LED Heads are required, irradiance on each head is uncompromised and consistent.

Versatile System

The OmniCure® LX400 offers the ability to control up to four UV LED Heads simultaneously or independently. This ability makes the product ideal for manufacturing setups where single or multiple foot pedals are needed to control multiple curing stations simultaneously.

To enable a higher level of control, each UV LED Head can be set for different exposure times and intensity levels. The intensity levels for each head are set in 1% increments in a group or each head independently.

The focusing lenses are replaceable. Such flexibility enables the OmniCure® LX400 users to change the lenses to accommodate the applications without the need to replace the UV LED Heads. This also reduces the downtime to reconfigure the OmniCure® LX400 for other applications.

Support for Multi-wavelength UV LED Heads

The OmniCure® LX400 controller can operate four UV LED Heads, each of different wavelengths (e.g. 365nm UV LED Head, 385nm UV LED Head, and 400nm UV LED Head).

This is unique to the OmniCure® LX400 controller, setting it apart from other UV LED bonding systems available today. This enables it to accommodate more applications

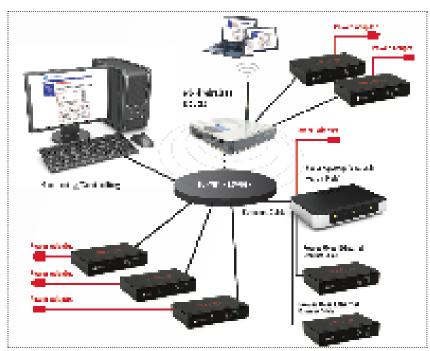


LX400: PERFORMANCES

SPECIFICATIONS		BENEFICES
Connectable Heads		1 to 4 individual heads
LED Indicators		LEDs indicate: Timer Control, Level, Trigger Mode and Emission (UV ON)
Mode Control		Mode and Up/Down buttons to control the display mode
Timer		Programmable trigger mode : • Countdown Mode: Range programmable from 999.9s to 0.1s, in 0.1s intervals • Count Up Mode: User control timing via the front panel or foot pedals
Level		15%-100% (with 1% increments)
Start/Stop		Start/Stop button to control start or stop of the LED Emission
Key Switch		Key Switch to turn on/off controller
Flashing Alarm		Over temperature protection and lamp-off alarm for LED Heads
Foot Pedal		Foot pedal to control start or stop of the LED Emission
External PLC Control	Method	PLC (See the manual for more details)
	External Input	Start/Stop, intensity level select, lock out front panel interface and timer mode select
	External Output	Emission Alarm
Operating Voltage		Controller Supply Input: 12 VDC, 4A Input to AC adaptor: 100-120VAC/ 200-240VAC (+/-10%) & 50/60Hz.
Ambient Temperature/Humidity Range		Controller : 5° to 35°C, 85% max. (no condensation)
Storage Temperature/Humidity Range		Controller: -10° to 60°C, 85% max. (no condensation)

OMNICURE LX180: CONNECTED SYSTEM





3 options to connect : Ethernet, alimentation, WiFi

PRESENTATION

The OmniCure® LX180 UV LED spot curing system introduces a new powerful way for manufacturers to achieve highest productivity with increased manufacturing efficiency and minimal downtime in a most cost-effective way. The LX180 allows manufacturers the ability to ensure optimal production up-time and improve process efficiency through innovative remote monitoring and control capabilities over their UV curing systems and managed from a workstation via their IT network. Process engineers are able to easily pre-configure, monitor and adjust their UV LED systems entirely via remote access ffering greater flexibility and ease while enhancing productivity.

The small compact OmniCure® LX180 UV spot curing system is simple to integrate with new or existing production lines giving users maximum flexibility and reduced operational costs. The LX180 offers the ability to achieve superior UV bonding with faster, more efficient curing through high power UV output with a maximum irradiance of 12,400 mW/cm². The LX180 is simple to use with pre-set exposure times and can easily adapt to specific curing time requirements for use with a variety of UV adhesives through its learning mode.

- Faster, more efficient curing through high UV LED output with maximum irradiance of 12,400 mW/cm2
- Maximum flexibility and ease of use delivered in a compact size
- Higher process efficiency with quick set-up times via remote control and configuration adjustments
- Increased productivity and minimal downtime through network-enabled remote monitoring
- High yields via low temperature curing



LX180: PERFORMANCES

SPECIFICATIONS	BENEFICES
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SI ESI ISATISTIS	BEIVERIGES
Connectable heads	1 à 2 têtes séparées
LED indicators	System status: LED status (CH1 et CH2); LED connection status (CH1 et CH2)
Four selectable modes by DIP switch settings	Top/down buttons to set the display mode
Four selectable modes by DIP switch settings	 1. Intensity Setting: 100% or 60% setting 2. Foot pedal: independent/parallel control 3. Learn mode: Exposure set-up via foot pedal/PLC connector 4. Count Up/External Timer Mode; Count Down/Internal Timer Mode
Irradiance level via Ethernet	15% - 100%
Activation mode	Foot pedal, PLC and Ethernet
Foot pedal	Foot pedal control to start/stop LED emission
External PLC	Exposure trigger signal acknowledgement and alarm indication
Display GUI	Temperature and condition of each LED UV pattern connected
Ethernet remote function	Remote access via web interface for system control (HTTP) Ability to trigger exposures via the Ethernet network. ModBus Protocol for full PLC control via TCP communications Password protected user login/access to set/adjust parameters for: 1. Exposure time 2. LED intensity 3. Foot pedal mode 4. Count Up/Count Down mode 5. All DIP switch settings TCP/IP suite to permit device find functionality and Windows GUI SMTP email notification upon fault detection

LED LIGHT METER



SPECIFICATIONS

Spectral Sensitivity	Selectable wavelengths programmable from 320-750nm
apassi di delibilititi	
Measurement Range	Irradiance: 50mW/cm2 to 25 W/cm2
Wiedear errierio Flarige	Power: 1mW to 500mW
Accuracy	+/- 10%
D 1.:	Irradiance: 1mW/cm2
Resolution	Power: 1mW
	Peak Hold
Fonctions	λnm (Wavelength selection)
	Power/ Irrad (puissance/ irradiation)
Sensor Dimension	165 mm x 100 mm x 44 mm
Meter Dimension	75 mm x 25 mm x 11.95 mm

PRESENTATION

The OmniCure® LED Light Meter offers the ability to accurately measure power and irradiance from an OmniCure® LED UV curing system, or any other LED UV source, directly at the cure site. With the narrow wavelengths emitted from an LED spot source, specific challenges arise when measured with a radiometer calibrated using a broadband source.

The OmniCure® LED Light Meter is specially designed with the ability to select specific wavelengths for measurement. When used with the sensor calibrated with a near monochromatic source, potential inaccuracies in measurement are eliminated that would normally occur due to the narrow spectral distribution of a UV LED source.

Featuring a peak hold function, the OmniCure® LED Light Meter allows users the ability to easily measure narrow beam patterns for capturing peak irradiance.

With a fine aperture that is calibrated with precision, accurate and consistent measurements can be obtained over a broad dynamic range. Manufacturers are able to achieve greater accuracy with ease of use while maintaining a reliable and controlled UV assembly processes. The OmniCure® LED Light Meter is calibrated according to protocol standards traceable to NIST and NRC:

- NIST National Institute of Standards and Technology
- NRC National Research Council

- Small form factor fits into limited spaces
- Peak hold function detects/records peak measurements
- Broad linear dynamic range for measuring from any LED light source
- Multi-point wavelength calibration for accurate measurements
- Offering maximum reliability and control for UV assembly processes



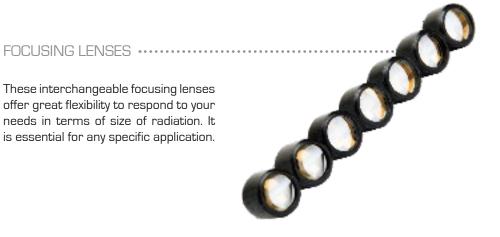
OMNICURE SERIE LX : ACCESSORIES

LED HEAD FOCUSING LENSES ····

Interchangeable LED focusing lenses allow control over UV spot size and irradiance level to meet the needs of your specific application.



These interchangeable focusing lenses offer great flexibility to respond to your needs in terms of size of radiation. It is essential for any specific application.



LED HEAD MOUNTING CLAMPS

The precision machined mounting clamp is designed for installation versatility. The mounting clamp slides easily over the UV LED head and is secured with a single screw.



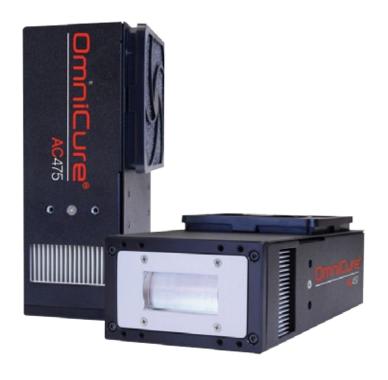
EXTENSION CABLE

Cables extension allows manufacturing process engineers to accommodate applications where the UV curing station needs to be further away from the controller.



Many other accessories and consumables available: www.gentec-benelux.com

SYSTEME UV LED: AC450 & AC 475



SPECIFICATIONS	BENEFICES
Output of over 8W/cm²	High speed curing for adhesives, coatings and inks
Custom front-end optics	Greater flexibility in the curing process via high peak irradiance available at longer working distances
Patented process for addressing individual LED modules	Even and consistent curing through excellent uniformity across the full LED area
Available in 395nm and 365nm	Ability to select the optimum wavelength for the adhesive, coating or ink and also the substrates to best suit specific applications
Air-cooled	Easily integrated into any workstation with no additional venting, ozone extraction or chillers required
I/O Port for remote operation	Ability to automate for increased productivity
Compact size	Easily integrated into any workstation

PRESENTATION

Ideal for curing of adhesives and coatings in electronics, optics and medical device assembly or inks in print, marking and coding applications.

Exceptional Irradiance Performance
The OmniCure® AC450 and AC475 utilize high
emission LEDs which achieve over 8W/cm2 at
the optics window. The systems include advanced
front-end optics to provide high peak irradiance at
long working distances with extended clearance of

conveyed parts. This allows for easier curing, or the option of focusing the light at different working distances for adapting to a specific UV process.

Superior Uniformity & Extendible
Utilizing Lumen Dynamics' patented process
for individually addressing each UV LED module
output, the OmniCure® AC450 and AC475 offers
consistent results by ensuring high longitudinal
uniformity over the entire 50mm [2"] to 75mm

(3") curing area. A uniform exposure area allows for curing of larger and/or multiple parts simultaneously. It also offers the ability to convert a static curing process to one where parts are being cured while in motion in order to increase throughput.

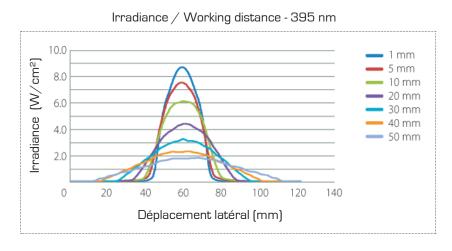
Flexibility with Control

Precise control of the UV irradiance level and time ensures that the correct dose of UV energy at the required wavelength is provided on every exposure for a repeatable curing process. Intelligent system monitoring and control ensures system reliability meets the demands for any application.

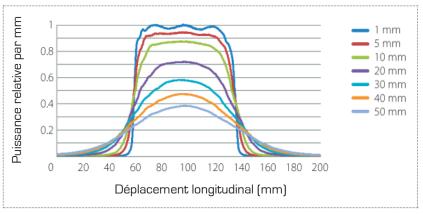


AC450 & AC 475 : PERFORMANCES

		AC.	450	AC.	475
Available Wavelengths		365 nm ± 5 nm, 395nm ± 5nm			
Curing Area		50mm x 25mm		75mm x 25mm	
Typical Irradiance (W/cm2)		365nm	395nm	365nm	395nm
Working Distance	1mm	4.0	8.0	4.0	8.0
	10mm	2.8	5.7	2.8	5.7
	20mm	1.9	3.7	1.9	3.7
	30mm	1.5	2.8	1.5	2.8
	40mm	1.2	2.0	1.2	2.0
	50mm	1.0	1.7	1.0	1.7
Optical Power		45W	90W	68W	135W
Power Consumption		350W	350W	550W	500W
Longitudinal Uniformity		± 10%			
Operating Voltage		48 V DC ± 2 V			
Dimensions		110 x 68 x 190 mm			
Weight		1.1 kg (2.4 lbs)			
Cooling		Air			
Life Expectancy		> 20 000 hours			
Automation		Integrated PLC controls for UV intensity and system alarms			
Acoustic Noise		< 65dBA, load adapting			
Warranty		1 year ; 10,000 service hours (light engine)			



Uniformity in function of the working distance AC475





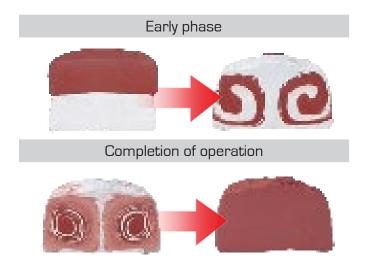


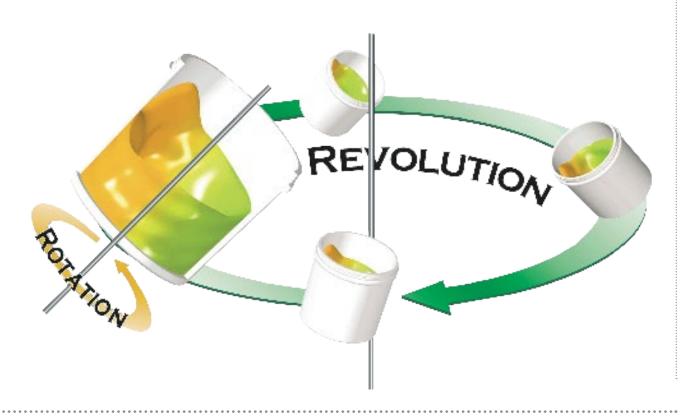
PLANETARY MIXER

ROTATION / RÉVOLUTION

Sample

Mixing process of high-viscosity materials using oil - based day. The mixing of two layers of high - viscosity oil - day has started. In just seven minutes uniform mixing





PRESENTATION

The Planetary Centrifugal System is an innovative mixing technology that achieves «simultaneous mixing and deaeration». Its dynamic motion is much the same as the movement of the Earth as it revolves both on its own axis and around the Sun.

The container with the material is placed into the holder at a perfect 45-degree angle. A clockwise revolution and counter-clockwise rotation is applied to the container. The centrifugal force of

the revolution works as a «power that accelerates deaeration. The interaction between rotation and revolution generates a spiral flow and rising and falling convection currents. Air bubbles within the material are efficiently pressed out the surface, thus enabling mixing and dispersion without bubbles folding back into the mix.

The Thinky Mixer that debuted in the world as the planetary centrifugal mixer was very easily able to achieve the kneading and deaeration viscosity materials that had been impossible up until then

and pioneered a number of material evolutions all at once.

Today, Thinky Mixer has grown into an entire series with full support for the basic materials research stage to mass production, and continues to make contributions to the state-of-the art materials field in the elimination of submicronlevel air bubbles. Its 45 degree angle maximizes the collision frequency of materials and media, and completes the pulverization process in a very short time.

Deaeration

Defoaming

Crushing/Grinding

Dispersion

Emulsification

Stirring/Kneading

APPLICATIONS

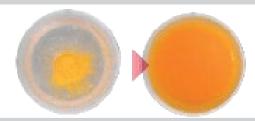
BEFORE/ AFTER

Onguent (Zinc oxide and acrinol powder)



Yellow acrinol powders are uniformly dispersed to create a solid yellow color cream with a smooth feel when applied

Silicone / Silicate



The fluorescent material is uniformly dispersed with no sedimentation throughout the low-viscosity silicone resin

Cosmetic Foundation



Four types of materials are uniformly mixed to a smooth cream consistency.

Epoxy Resin and alumina powder



2 - part resin and white alumina powder are uniformly mixed to a solid green color

MANUAL MIXING / THINKY MIXER

Sealant for white LED

Fluorescent powders with a higher specific gravity are uniformly dispersed without sedimentation



Polyimide

No bubbles. Uniformity mixed



Solder Paste

Smooth Surface. No bubbles





Silicon resin and calcium carbonate

No lumps. Powders turn into a uniformly mixed paste







ARE 250: HIGH QUALITY MIXER

SPECIFICATIONS

Max. processing volume	300 ml
Dimensions	H380 x L300 x P315
Max. weight [net]	250 g
Max. weight (brut)	310 g
Deaeration type	Atmospheric pressure
Mixing function	410G
RPM	Adjustable







PRESENTATION

The THINKY ARE-250 Mixer is an industrial non-contact «planetary» mixer for all compounds. It mixes, disperses and degasses your materials in seconds to minutes, in a sealed or lid-less container such as a jar, beaker, syringe or cartridge. The non-contact mixing principle makes it possible to formulate compounds from very small amounts such as 0.5ml to large production scales.

This is a lightweight benchtop model, which can hold up to 310g of material. The Multi-Step Mixing feature allows you to program 5 different sets of mixing and degassing conditions

(time and speed per mode) in a single batch cycle. Precise control of the process makes it possible not only to improve formulation quality, but also to eliminate human errors or operator skills throughout the process. It is also effective in controlling shear, so as not to damage your materials. Cooled materials or heated materials can be processed with special adapters. The ARE-250 can accept syringes up to 55ml or up to 75ml (2.5 oz) cartridges with optional adapters. Larger THINKY mixers with vacuum capability are also available.

- Vacuum-less processing, degassing and deaeration
- Remove voids and re-disperse filled materials packed in syringes
- Saves significant time and lowers costs
- Produces consistent quality, with digitally controlled processing

SR 500: SOLDER PASTE MIXER



SPECIFICATIONS

Max. processing volume	150 ml
Dimensions	H380 x L300 x P340
Max. weight (net)	520 g
Max. weight (brut)	560 g
Pression type	NA
Mixing function	150 G
RPM	Adjustable





PRESENTATION

Special purpose machine that can optimize temperature and viscosity preparations and dispersion and deaeration of solder paste at the same time.

The mixer SR500 can prepare uniform viscosity in a short time for solder paste just taken from cold storage without bringing it back to room temperature. Metal particles with high specific gravity such as solder particles settle to the bottom of containers in cold storage and cause differences in material viscosity. The SR-500 regulates the viscosity of solder paste in a short time, with uniform viscosity from top to bottom. Also, because it can remove air bubbles thought to cause spattering of solder balls, it contributes to reducing the defect rate.

- Can immediately prepare cold stored solder paste without bringing it back to room temperature
- Viscosity preparation and temperature preparation for solder paste is easy.
- Removes large air bubbles in the paste, which are considered the cause of solder paste defects.
- Restirs and redisperses solder paste that has been used
- Adaptateur pour le mélange du contenu d'une seringue
- Supports solder paste in syringes by using the optional adapter



ARV 310: HIGH QUALITY VACUUM MIXER

SPECIFICATIONS

Max. processing volume	300 ml
Dimensions	H450 x L555x P645
Max. weight (net)	250 g
Max. weight (brut)	310 g
Deaeration type	Vacuum
Mixing function	420 G
RPM	Adjustable







PRESENTATION

Standard vacuum mixer enabling uniform mixing and elimination of submicron-level air bubbles.

Combining vacuum pressure reduction function with rotation and revolutionmixing enables efficient elimination of submicron-level air bubbles. With rotation and revolution movement under vacuum pressure reduction, deareation of high-viscosity materials; which was considered difficult, can now be performed with excellent quality. The processing time can be further reduced compared to the atmospheric mixer. In terms of operation; the centrifugal force of revolution during the mixing process suppresses the material within the container, eliminating the need to keep an eye on the material so that it does not overflow, as is needed with static vacuum chambers.

- Simultaneous mixing, dispersion, and submicron-level air bubble elimination
- Deaeration of high-viscosity materials difficult to be processed by a centrifugal separator
- Reduced processing time and improved deareation performance compared to the atmospheric type mixer
- Centrifugal force of revolution prevents overflow of material during operation

ARV 930: TWIN VACUUM MIXER



*Can be used for 6oz cartridges

SPECIFICATIONS

Max. processing volume	750 ml x 2 ou 550ml x 2
Dimensions	H960 x L760 x P820
Max. weight (net)	830 g x 2
Max. weight (brut)	930 g x 2
Deaeration type	Vacuum
Mixing function	660 G
RPM	Adjustable





PRESENTATION

Manufacturing application mixer that can vacuum process a maximum 1L of materials with twin mixer system.

This product employs a twin mixer system, and supports manufacturing application with the capacity to process a maximum 1L of materials. It is equipped with a vacuum function in order to achieve deaeration at the submicron level, thus it is possible to process uniform mixing and dispersion as well as deaeration at the same time. It has two

deaeration modes as standard features: one is vacuum deaeration mode which combines 400G centrifugal force and vacuum, and the other is Non Vacuum deaeration mode which utilizes powerful centrifugal force of maximum 670G. This enables high precision deaeration even with materials that contain a volatile component that is not suitable for vacuum deaeration. Furthermore, time to reach vacuum is significantly reduced by adopting our unique in-cup-holder vacuum pressure reduction system that minimizes the vacuum volume.

- First tank capacity of the range (1 Litre)
- High power mixing function (660 G)
- No material spillage during operation
- Adjustable rpm allows optimal setting for any material
- Cup holder vacuum system reduces pressure reduction time
- High standard of deaeration for volatile materials



ARE 500: HIGHER LOAD MIXER

SPECIFICATIONS

Max. processing volume	550 ml
Dimensions	H700 x L500 x P630
Max. weight (net)	1 000 g
Max. weight (brut)	1 100 g
Deaeration type	Atmospheric pressure
Mixing function	670 G
RPM	Adjustable







*Allows you to integrate 6oz cartridge

PRESENTATION

This compact floor-standing type comes at a very competitive price and is capable of processing up to 500 ml. The rpm is adjustable, enabling optimal settings for a wide range of materials. The high durability drive system was developed with manufacturing production in mind.

The RPM level (revolution per minute) is adjustable, which allows the treatment of a wide range of materials. A window on the device cover allows you to see the mixture at work and the vibration sensor and lid lock feature ensures the highest level of security

- Rotation/Revolution no-blade mixing system
- Maximum capacity for material processing : 500ml or 1.1 kg
- Simultaneous processing of mixing, dispersion and deaeration (defoaming)

- Coste effective performance
- Membrane switches are easy to see and operate
 - Timer: 5 programmable steps of continuous control for each recipe profile

ARE 400 TWIN: FLEXIBLE LAB TWIN MIXER



^{*}Connected PC version and mesure of the real time temperature

SPECIFICATIONS

Max. processing volume	300 ml x 2
Dimensions	H560 x L460 x P480
Max. weight (net)	250 g x 2
Max. weight (brut)	310 g x 2
Deaeration type	Atmospheric pressure
Mixing function	660 G
RPM	Adjustable





PRESENTATION

The built in mechanism can vary the ratio of rotation, while the twin system is newly developed. Mixes and deaerates a maximum 500ml / 800g of material (gross).

This machine can set and reproduce optimal recipes for materials whose temperature is hard to control because it can detect material temperatures in containers in real time during operation with the combined use of the newly developed sensor unit incorporating noncontact sensors (optional).

A PC connector (USB Type B) is installed on the back of the unit as standard equipment, achieving parameter setting, rotations

- Rotation and revolution independent variable mechanism mounted
- Twin system, maximum capacity 250ml / 400g x 2
- Mixing capacity can mix high viscosity material such as viscous grease with viscosity 4000 Pa s
- Effective in setting recipes for materials that do not like temperature-rise

- Can use a sensor unit that can detect temperature of materials being mixed in real time (optional)
- Through external PC connections, can display recipe settings, rotations during operation, and material temperature in real time (USB type B standard equipement)

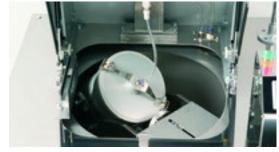


ARV 5000: PLANETARY CENTRIFUGAL VACUUM MIXER

SPECIFICATIONS

Max. processing volume	4 L
Dimensions	H1600 x L1000 x P865
Max. weight (net)	4700 g
Max. weight (brut)	5000 g
Deaeration type	Vacuum
Mixing function	185 G
RPM	Adjustable







*Allows you to integrate 6oz cartridges

PRESENTATION

Mixing, dispersion, and deaeration (defoaming) with a large 3L / 5kg capacity, the ARV-5000 supports mass production and improves productivity and efficiency. A large volume of mixing and deaeration (defoaming) can easily be carried out at one time.

Mixing, dispersion, and deaeration (defoaming) are simultaneously conducted in a short time.

In combination with vacuum technology, the ARV-5000 completely removes submicron air bubbles even with highly viscous materials.

- Large capacity : 3L or 5 kg
- Recipe setting for optimal material processing ensures no spillage during operation
- Adjustable rpm allows optimal setting for any material
- User friendly touch screen
 - Rotation and revolution provides air cooling function

- Digital setting ensures no sample overflow
- Accepts a wide range of containers
- Many accessories.

Intuitive touch screen

ARC 40 H: VACUUM SYRINGE CHARGER



SPECIFICATIONS

Max. processing volume	3 ml, 5 ml, 10 ml et 30 ml
Capacity	4 syringes at the same time
Dimensions	H550 x L200 x P140
Weight	Approx. 10 kg
Operation	Manual
Deaeration type	Vacuum
Mixing function	NA





PRESENTATION

ARC 40H has been developed in order to provide planetary mixer users, the possibility of transferring directly the mixed product from the pot of the mixer to the syringe that permits the operation. It therefore allows a considerable time saving since it greatly shortened the conditioning step of the fluid.

This manual filler is adaptable to small syringes 3,5,10 and 30 ml sizes, and guarantees rapid filling and without bubble. His robust and simple structure, was designed with the perspective to easily clean every room in case of soiling.

- Able to charge materials into 3ml, 5ml and 10ml syringes, which are too small to charge manually
- Up to 4 syringes can be charged at one time effectively
- Capable for materials from low to high viscosity
- The process form mixing and defoaming to charging is integrated by Thinky products
- Easy to clean



SEMCO CONSUMABLES
Packaging & Application Systems

SYNOPTIC





CARTRIDGES AND PLUNGERS



Disposable plastic cartridges are available in 1, 2.5, 6, 8, 12, 20, 32 oz. (approximate metric value 30, 65, 170, 230, 340, 610, 950 cc) and 1/10th gallon capacities. Available in low or high - density natural polyethylene, all sizes are fit with 1/4» NPT (6mm) female thread dispensing orifice. Special colours are available, however minimum order, lead time, and pricing considerations apply.

CP and CWP cartridges are the standard Semco® cartridge with either a P or WP plunger inserted. This inserted plunger allows for filling from the dispensing end, reducing the potential for air entrapment and improving

	CARTRIDGES ONLY	PART NUMBER
	1 oz. (30cc) LD	220307
	1 oz. (30cc) HD	233222
	2.5 oz. (65cc) LD	220315
	2.5 oz. (65cc) HD	220316
	6 oz. [170cc] LD	220317
	6 oz. [170cc] HD	220318
	8 oz. (230cc) LD	220319
	8 oz. (230cc) HD	220320
	12 oz. (340cc) LD	220321
	12 oz. (340cc) HD	220322
	20 oz. (610cc) HD	229734
	32 oz. (950cc) LD	232921
	32 oz. (950cc) HD	232917
	32 oz. (950cc) SHD White	233656
	1/10 gallon, (310cc) LD	230285
	1/10 gallon. (310cc) HD	229689

CARTRIDGES WITH PLUNGERS	PART NUMBER
CP 2.5 oz. (65cc) LD	220323
CP 2.5 oz. (65cc) HD	220324
CP 6 oz. (170cc) LD	220325
CP 6 oz. (170cc) HD	220326
CP 8 oz. (230cc) LD	220327
CP 8 oz. (230cc) HD	220328
CP 12 oz. (340cc) LD	220329
CWP 1 oz. (30cc) LD	232375
CWP 2.5 oz. (65cc) LD	220331
CWP 2.5 oz. (65cc) HD	220332
CWP 6 oz. (170cc) LD	220333
CWP 6 oz. (170cc) HD	220334
CWP 8 oz. (230cc) LD	220335
CWP 8 oz. (230cc) HD	220336
CWP 12 oz. (340cc) LD	220337
CWP 12 oz. (340cc) HD	220338
CWP 20 oz. (610cc) HD	230231

PLUNGERS











Precision molded plungers are available in three styles. Each style has its own functional characteristics. All are designed to fit the cartridge contour, assuring complete dispensing and the elimination of waste.

- WP or Wiper Plunger : highest amount of interference
- The P-plunger has medium interference
- The PRS or Pressure Relief Plunger has the least interference

DESCRIPTION	SIZE	PART NUMBER
Plungers WP BD	1 oz. (30cc)	2323642
Plungers P BD	from 2.5 to 12 oz. [65cc/340cc]	2202522
Plungers WP BD	from 2.5 to 12 oz. [65cc/340cc]	2344122
Plungers WP HD	from 2.5 to 12 (65cc/340cc)	2202592
Plungers PRS BD	from 2.5 to 12 (65cc/340cc)	2202602
Plungers SWP	from 2.5/12 (65cc/340cc)	2297562
Plungers WP BD	20/32 oz.	2292212
Plungers WP HD	20/32 oz.	2323742
Plungers PWP with Purge screw		2202712

SEMKIT



PRESENTATION

The Semkit® package is a complete,multi-component plastic cartridge assembly which stores, mixes, and applies multiple component adhesives, sealants, encapsulants, and other materials. It has been market tested for over 30 years and still represents the best blend of performance and safety available in the market today. Semkit® packages are ideal for epoxies, polysulfides, polyurethanes, and silicones used in the aerospace, electronics, automotive, construction, marine, and telecommunications industries.

The kit assures material performance, optimum quality, and increased productivity on the production line and in the field.

The Semkit® package assures accurate proportioning of the materials since the pre-measured components are stored in separate compartments within the cartridge. It eliminates the labour-intensive tasks of measuring and handling materials while minimizing skin contact and material fumes. All the material contained inside the two-component Semkit® package is mixed within the cartridge and can be extruded with virtually nothing remaining.

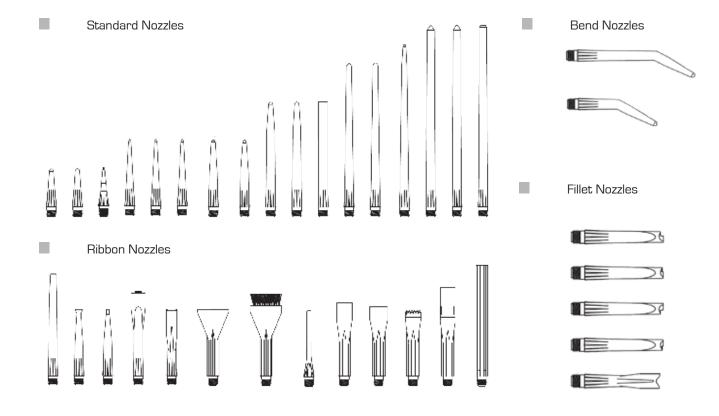
This configuration provides added value by eliminating material exposure and contamination, dramatically reducing waste, and ensuring the correct ratio of each material is used in every application.

There are two styles of Semkit® packages :

- Injection kits are typically used with mix ratios of 10:1 or higher. In this kit, the base material is contained in the cartridge, while the catalyst is stored inside the injection rod
- Barrier style kits are typically used with mix ratios of 1:1 to 10:1.Both materials are contained in the cartridge and are separated by a foil barrier



NOZZLES



P/N	SIZE (cm)	ORIFICE (cm)	DENSITY
2205382	2.5	0.063	Low
2205402	2.5	0.125	Low
2286222	2.5	0.125	High
2205422	4	0.031	Low
2276132	4	No	Low
2205442	4	0.063	Low
2286232	4	0.063	High
2205482	4	0.094	Low
2205502	4	0.125	Low
2222782	4	0.125	High
2205532	6	0.063	Low
2205552	6	0.125	Low
2244942	6	0.375	Low
2205572	8	0.063	Low
2205592	8	0.125	Low
2205610	10	0.063	Low

^{*} More usual part number

See more on: www.gentec-benelux.com

PRESENTATION

These disposable nozzles are precision molded and have a 1/4» (6mm) NPT male thread to fit Semco® 1, 2.5, 6, 8, 12, 20, 32 oz, and 1/10th gallon disposable cartridges. A wide range of lengths and orifice sizes are available to better meet your application needs. Nozzles can be bent to varying degrees, however minimum order,lead time,and pricing considerations apply.

Standard nozzles

These standard nozzles are available in different sizes and diameters port. and can be bent at different angles under control minimum requirement, delivery time and price list.

Ribbon nozzles

A wide range of ribbon nozzles is offered in various thicknesses and widths to better meet your needs.

Bend nozzles

With these bend nozzles, you can choose your elbow curve and length from the tip

Fillet nozzles

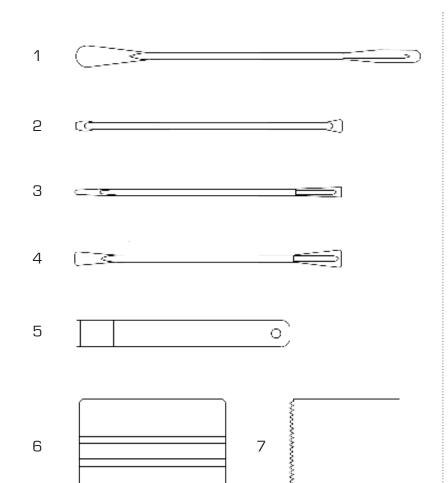
Semco fillet nozzle applied uniformly applied on lap joints. They avoid handling the product with spatulas and increase productivity. Some have a notch to allow the work in difficult corners and confined spaces.

SEALANT SMOOTHING TOOLS AND ADAPTATERS



These special reinforced plastic spatulas and spreaders are for tooling and smoothing sealants and adhesives.

N°	DESCRIPTION	LENGTH (mm)	WIDTH (mm)	PART NUMBER
1	Spatula	240	14	231349
2	Spatula	184	5	226241
3	Spatula	184	3	226242
4	Spatula	184	10	226243
5	Scraper	147	19	234352
6	Spatula spreader	100	70	229394
7	Comb spreader	75	75	229395
8	Spatulas Kit (2,3,4)	NA	NA	226244



PRESENTATION

DESCRIPTION	PART NUMBER
Cartridge Adapters	2318712

These disposable adapters are precision molded and have a 1/4" [6mm] NPT male thread to fit Semco® 1, 2.5, 6, 8, 12, 20, 32 oz.,and 1/10 th gallon disposable cartridges. The syringe filler adapter is designed to allow easy filling of Luer Lock or Luer Slip syringes. The Sem-Luer Adapter converts the 1/4" [6mm] NPT female thread of the standard Semco® cartridge to a male Luer Lock connection, allowing the easy attachment of any Luer Lock needle.





DISPENSING GUN

A GUN



This sealant gun is the standard of the aerospace and electronics industries. It is designed for the quiet, pneumatic application of sealants, adhesives, potting compounds, and other materials.

The Semco® model 250-A gun is available with retainers to fit standard 1, 2.5, 6, 8, and 12 ounce disposable cartridges. Air hoses to operate the gun must be ordered separately (see page 15 for more information). Also the handle can be easily removed to allow better manipulation.

- Operating ranges from 0 to 6.9 bar (0-100 psi)
- Available sizes : 1 2.5 to 6 8 and 12 oz
 - Reduces the cost of application, maximizes accuracy
- Efficient regulation for a smooth and uniform extrusion
- Silent, durable and ergonomic

SEALANT GUN (20 - 32 oz)



The Semco® Model 550 sealant gun is designed for the pneumatic application of sealant, caulking, adhesive, and other compounds packaged in Semco® 1/10th gallon, 20, and 32 oz.cartridges. Parts are available to convert the gun from one size to another. Air hoses to operate the gun must be ordered separately (see page 15 for more information). These lightweight guns are constructed of cast aluminum and other durable materials.

- Operating ranges from 0 to 6.9 bar (0-100 psi)
- Available Sizes: 20 32 oz and 1/10 gallon
- The pressure on the trigger controls the flow
- Efficient regulation for a smooth and uniform extrusion
- Lightweight and ergonomic

MANUAL DISPENSING GUN



The Semco® model 850 gun is a hand-operated, high quality dispensing gun designed to accept Semco® disposable cartridges or Semkit® packages. The ratchet handle is made of metal for tough, durable, long-term use. A threaded retainer provides a tight fit into the ratchet handle, permitting uninterrupted operation. Custom size retainers accommodate Semco® 1, 2.5, 6, 8, 12, 20, 32 oz., and 1/10 gallon disposable cartridges. The retainers are available in metal or plastic.

- Sizes: 1 2.5 to 6 08/12/20 32 oz and 1/10 gallon
- Solid construction
- Distributes a wide range of products
- Accepts thick and viscous products
 - Air source or electrical power unnecessar

HIGH PRESSURE INJECTION GUN



The high pressure injection gun is capable of post assembly injection of high viscosity groove injection sealing compounds into confined areas and voids, including channel sealing.

The gun is available in a manual or reciprocating version. The reciprocating gun provides a continuous bead of material when actuated. The pressure produced is 110 X line pressure used and the maximum pressure rating is 11,000 psi (759 bar).

- Original size : 6oz
- Sizes available option: 8 2 oz
- Size of the piston rod : 8mm diameter
- Ideal for hard to reach areas
- High performance gun

Automatic Semkit Mixer

The Semco® model 388 Semkit® package mixer provides complete automatic mixing of filled Semkit® packages. Use of the mixer reduces worker tiredness and assures the user a more thorough and consistent mix,kit to kit.

FEATURES

Automatic mixing of Semkit® packages

Assures consistent, thorough and uniform mixing

Easy to operate

Timer automatically shuts mixer off at pre-set mix time

Eliminates mixing labour and worker tiredness

Operates on 40 - 90 PSI, 1.2 CFM and 115 VAC. (Transformer included)

Shipping weight 35 kg

SEMKIT PACKAGE MIXER



Semi - Automatic Mixer

The Semco® model 285-A Semkit® package mixer provides semi-automatic mixing of filled Semkit® packages. Use of the mixer reduces worker fatigue and assures a more consistent, uniform mix. The drive spindle rotates the mixing rod while the operator strokes the cartridge vertically. This permits the rotating dasher to thoroughly mix the materials. The bell timer alerts the operator when the mix cycle is completed.

FEATURES

Semi-Automatic mixing of Semkit® packages

Easy to operate

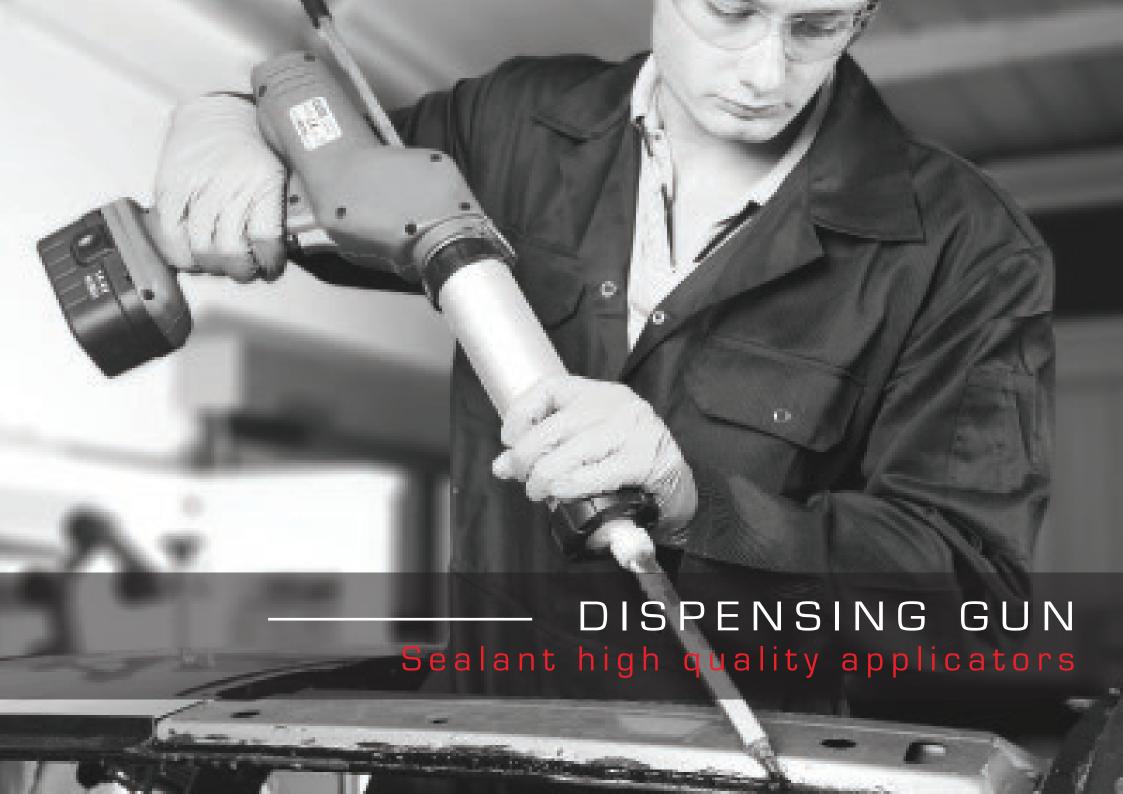
Provides consistent, uniform mixing

Reduces time and effort for thorough mixing

Portable

Bell timer signals completion of mix

Shipping weight 7 kg



DISPENSING GUN

BENEFITS

One year warranty

An innovative range

Attractive prices

Reliability and excellent service

Competitive prices and excellent price/quality value

A lifetime at least 10 times longer than the copies

Strict quality management, compliant with ISO 9001



PRESENTATION

Historic partners of Gentec, Cox offers the widest range of guns and applicators of the world. Thanks to the invention of the mastic gun, COX has become the global market leader of the applicators and choose Gentec for distribution in BENELLIX.

Made in England, recognized for its robustness comparing to conccurents products, it's more than 90 models that help you to succeed your most technical projects and works.

Recognizing the complexity of some task, our applicators suit to your needs thanks to our large

range (for one-component and two-component products), the choice available in the type of pushing (mechanical manual guns, pneumatic or electrical) and in the diversity of components and cartridges sizes (310 - 400ml) two - component bi mixer (50 -150-200- 220 - 235- 330-345-380-400-620) two component axial co (150-220-300-330-380ml) - and bags (310 - 400-600 ml) and the VRAC.

All our products are customizable to your corporate logo (engravings and inscriptions on a minimum purchasing volume)

By combining an innovative design with an excellent manufacturing standards, a strict quality management, a prices policy competitive and a deep understanding of the market of sealants and adhesives, PC Cox $^{\text{TM}}$ has developed a series of manual, electric and pneumatic applicators that respond to the DIY market needs and also to the most sophisticated industrial specialty.

We found in the middle of the keys success factors of COX, his significant commitment for research and development: continuous improvement of his products to meet the growing market demands, new materials research and testing, and new manufacturing techniques.

The company regularly design new applicators to meet customer needs by pioneering products worldwide.



SINGLE - COMPONENT RANGE

Specially designed for DIY professionals, single-component guns offered by Gentec are exclusively manufactured in the United Kingdom. They provided three different ranges of dispensing gun: manual, pneumatic or battery. They allow you to undertake the most demanding work by guaranteeing a long-term use associated with a level of safety and optimal control.



Designed for any kind of product conditionned in single-component cartridges, in pocket or in VRAC whatever their viscosity. You will find a wide range of gun with different trigger having ratios ranging from 7: 1 to 25: 1 and sizes of cartridges or pockets (310 ml, 400 ml and 600 ml)

Ranges: Easiflow - Midiflow - Powerflow - Ultraflow - Ultrapoint

Pneumatic guns

The new generation of pneumatic applicators Airflow 3 offers a fast and effortless implementation of all your products. Ideal for the most demanding applications both inside or outside. The pneumatic gun have a pushing capacity up to 4.1 kN and are used for bags, 310ml cartridges, 400ml and 600ml, and bulk.

Ranges: Airflow III - Jetflow - Ultrapoint

Electric guns

Electric guns are battery-operated applicator that deposits the most viscous products quickly and efficiently, with power up to 3.0 kN. They exist in three sizes for bags and 310 ml, 400ml and 600ml cartridges.

Ranges: Electraflow - Easipower - Floorfix - WallFix





SINGLE - COMPONENT RANGE

Manual Pneumatic









ULTRAFLOW	(3 models)	

Coaxial cartridge 150 ML BULK 600, 800, 1000 ML Bags 310, 400, 600 ML Cartridges 310, 330, 400, 500, 600 ML Reports 12: 1, 18: 1 and 25: 1

Powerflow (6 models)

Specialized and versatile applicator
BULK 2, 3, 4 L
Cartridges / Bags 310,400,600ML
Coaxial ML 150 and a quarter US
Trigger ratio 12: 1 or 18: 1

ULTRAPOINT (1 model)

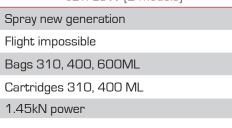
Specialized applicator large volumes BULK 1L Comes with a mixing turbine Use of VRAC materials Trigger 12: 1 ratio

AIRFLOW III (4 models)
New generation applicator
Pressure 145 PSI (10 Bar)
Bags 310, 400, 600ML
Cartridges 310, 400 ML
Power 1.4 KN

Pneumatic

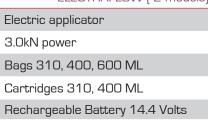








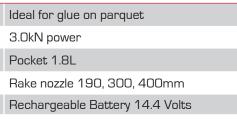
ELECTRAFLOW (2 models)





Electric

FLOORFIX (1 model)



WALLFIX (1 model)

3.0kN power 1.5 The Pocket Many accessories available Rechargeable Battery 14.4 Volts

Ideal for vertical surfaces



TWO - COMPONENT RANGE

Two - components range

The use of two-component applicators and static mixing nozzle cartridge was found to be an effective method for dispensing of reactive substances, such as adhesives and sealants. In recent years, production has increased significantly with the improvement of the use of applicators in all types of industries. Gentec offers you the widest available range of Bi-component applicators in the world:

More than 60 models designed for dual cartridges and co-axial.

STANDARD CARTRIDGES	MANUAL	PNEUMATIC
50ml (1:1) (25+25)	CBM 25 - MPD 50/50	CBA 25
150ml (1:1) Plas-Pak (75+75)	PPM 75	PPA 75LP - PPA 75HP
220ml (1:1) Ritter (110+110)	RBM 100LV - RBM 100	RBM 200X - RBA 200B
380ml (1:1) Ritter (190+190)	RBM 200X	RBA 200B
620ml (1:1) Ritter (310+310)	RBM 310X	RBA 310 B
200ml (1:1) (100+100)	VBM 100 - TBM 100LV - TBM 100 Eclipse 200	VBA 100LP - VBA 100HP - VBA 100LP/1 TBA 100HP/1
400ml (1:1) (200+200)	VBM 200 - VBM 200X	VBA 200A - VBA 200B
235ml (7:1) (206+29)	CBM 235/7	Aucun
235ml (10:1) (213+22)	CBM 235A - CBM 235B - CBM 235C	Aucun
235ml (10:1) (Sulzer 213+22)	CBM 235A	Aucun
330ml (10:1) (300+30)	CBM 330B - CBA 330B	CBM 330A - CBA 330A
345ml (10:1) (314+31)	CBM 330A	CBA 330A



TWO - COMPONENT RANGE

MIXPAC SERIE 200	MANUAL	ELECTRIC	PNEUMATIC
200ml Mixpac (1:1) (100+100)	VBM100 - VBM (MR/1) 200 - VBM (MR/1) 200X - TBM 100LV - Eclipse 200	Electraflow 2C 200 MR	VBA 100LP - VBA 100HP - VBA (MR/1) 200A - VBA (MR/1) 200B
200ml Mixpac (2:1) (140+70)	VBM (MR/2) 200 - VBM (MR/2) 200X	Electraflow 2C 200 MR	VBA (MR/2) 200A - VBA (MR/2) 200B
200ml Mixpac [4:1] VBM [MR/4] 200 - VBM [MR/4] 200X		Electraflow 2C 200 MR	VBA (MR/4) 200A - VBA (MR/4) 200B
200ml Mixpac (10:1) (225+22.5)	VBM (MR/10) 200 - VBM (MR/10) 200X	Electraflow 2C 200 MR	VBA (MR/10) 200A - VBA (MR/10) 200B

MIX PAC SERIE 400	MANUAL	ELECTRIC	PNEUMATIC
400ml Mixpac (1:1) (200+200)	VBM 200 - VBM 200X - VBM (MR/1) 400 - VBM (MR/1) 400X	Electraflow 2C 400 MR	VBA 200A - VBA 200B - VBA (MR/1) 400A - VBA (MR/1) 400B
400ml Mixpac (2:1) (270+135)	VBM (MR/2) 400 - VBM (MR/2) 400X	Electraflow 2C 400 MR	VBA (MR/2) 400A - VBA (MR/2) 400B
400ml Mixpac (4:1) (340+185)	VBM (MR/4) 400 - VBM (MR/4) 400X	Electraflow 2C 400 MR	VBA (MR/4) 400A - VBA (MR/4) 400B
400ml Mixpac 10:1) (450+45)	VBM (MR/4) 4000 - VBM (MR/4) 400X	Electraflow 2C 400 MR	VBA (MR/10) 400A - VBA (MR/10) 400B

CO - AXIALES CARTRIDGES	MANUAL	PNEUMATIC
(1:1) 43.5 mm	CCM 380/1 - CCM 380X/1	CCA 380A/1 - CCA 380B/1
(2:1) 36.5 mm	CCM 380/2 - CCM 380X/2	CCA 380A/2 CCA 380B/2
(3.5-5:1) 26.5-30.5 mm	CCM 380/3.5-5.5 - CCM 380X/3.5-5.5	CCA 380A/3.5-5.5 - CCA 380B/3.5-5.5
(10:1) 43.5 mm	CCM 380/10 - CCM 380X/10	CCA 380A/10 - CCA 380B/10





TWO - COMPONENT RANGE

TWIN CARTRIDGES	MANUAL	PNEUMATIC
50+50ml (1:1) PlasPak	Aucun	TBA 100LP/3 - TBA 100HP/3
75+75ml (1:1) PlasPak et Ritter	PPM 150LV - PPM 150	Aucun
100+50ml (2:1) PlasPak et Mixpac	TBM 100LV - TBM 100	TBA 100LP/2 - TBA 100HP/2
100+100ml (1:1)	TBM 100LV - TBM 100 - Eclipse 200	TBA 100LP/1 - TBA 100HP/1
150+75ml (2:1) PlasPak et Ritter	PPM 150LV - PPM 150	PPA 150LP/2 - PPA 150HP/2
150+150ml (1:1)	PPM 150LV - PPM 150	PPA 150LP/1 - PPA 150HP/1
200+20ml (10:1)	CBM 235	*
300+300ml (10:1) PlasPak/Ritter	PPM 330 - CBM 330B	*
300+75ml (4:1)	PPM 300	PPA 300A - PPA 300B/3
300+150ml (2:1)	PPM 300 - PPM 300X	PPA 300 A - PPA ROO B/2
300+300ml (1:1)	PPM 300 - PPM 300X - Eclipse 600	PPA 300A - PPA 300B/1
600+300ml (2:1) PlasPak	PPM 600X	PPA 600A
750+75ml (10:1) PlasPak	PPM 750X	PPA 750
750+150ml (5:1) PlasPak	Aucun	PPA 1500/3
750+300ml (2.5:1)	Aucun	PPA 1500/2
750+750ml (1:1)	Aucun	PPA 1500/1



SPECIAL DISPENSING GUN

Powerpush range

The PowerPush 7000 features the patented DirectDrive ® system: speed control variable deposits, surge and anti-drip reminder for an efficient and accurate dispensing. The lightweight system offer you most confort for perfect dispense. It also has a quick charging system for a long battery life.

The PowerPush 7000 \circledR tools offer wireless convenience and fast charging system long life batteries. The PowerPush give you all the reliability, versatility and portability for your most complex projects.

Soloclamp range

Thanks to his experience, COX has become an expert in the design of standard models. It's results as an amount of classic and versatile products, which includes the Gentec guarantee of quality, from the mainstream product line.

The manual applicators range Soloclamp perfectly suit your basic needs in term of dispensing.

COX society has long recognized the potential of its standard trigger mechanism. To meet your small application requirements, choose the applicator Soloclamp clips.

Powerpush





POWERPUSH 7000 MR

POWERPUSH 7000 MP

Specialized stun gun	Specialized stun gun
Cartridges 300 + 300ML	400ML cartridges
Speed control	Speed control
1: 1 ratio	Ratio 1: 1/2: 1/4: 1/10: 1
Anti-drip function	Anti-drip function

Soloclamp





SOLOCLAMP 100

SOLOCLAMP 150

Manual applicator	Manual Applicator
Model 100mm	Model 150mm
Clamping force equivalent to 1667 N	Clamping force equivalent to 1667 N
Jaws plastic resin or metal	Jaws plastic resin or metal
Corrosion resistant sliding components	Corrosion resistant sliding components

centimeter (cm)

centimeter (cm)

kilometer(km)

0,069 bar

91,44

1,6



VOLUMES AND CONVERSIONS

MM	V cc	Dots	MM	V cc	Dots
0.8	0.0001	•	7.6	0.116	
1.0	0.0003 0.0005	•	8.9	0.184	
1.8	0.001 0.003	•	10.2	0.275	
2.8	0.006 0.009	•	11.4	0.391	
3.8	0.014 0.021	•	12.7	0.536	
4.8 5.6	0.029 0.046		19.1	1.210	
6.1	0.059		•••••	•••••	



1.0 0.0	0003							
1.3 0.0	0005							
•••••	• • • • • • • • • • • •	•••••						
		VOLUME						
1 fluid ounce	es (fl oz)	29.57 cubic centimeters (cc)						
1 gallon (ga	1)	3785 cubic centimeters (cc)						
1 gallon (ga	l)	3.785 liters (L)						
1 gallon (ga	1)	128 fluid ounces (fl oz)						
1 liter (L)		0.264 gallons (gal)						
1 liter (L)		1000 milliliters (mL)						
1 cubic cent	timeter (cc)	1 milliliter (mL)						
1 microliter	(uL)	0,001 cubic centimeter (cc)						
1 microliter	(uL)	1000 nano liters (nL)						
1 nano liter	(nL)	0.000001 cubic centimeter						
1 nano liter	(nL)	1000 picoliters (pL)						
PRESSURE								
1 psi		0,069 bar						
1 psi		0,070 kgf/cm ²						
1 psi		6894,8 Pa						
1 psi		27,68 in H20@4°C						

WEIGHT								
1 kilogram (kg)	1000 gram (g)							
1 kilogram (kg)	2,2 livres (lb)							
livre (lb)	16 onces (oz)							
1 livre (lb)	453,6 gram (g)							
1 once (oz)	28,35 gram (g)							

MEASUREMENT

1 micron (µ)	0,0000394 pouce (")
1 micron (µ)	0,001 millimeter (mm)
1 centimeter (cm)	10 millimeter (mm)
1 centimeter (cm)	10,000 microns (μ)
1 inch ["]	2,54 centimeter (cm)
1 inch ["]	25,4 millimeter (mm)
1 inch (")	30,48

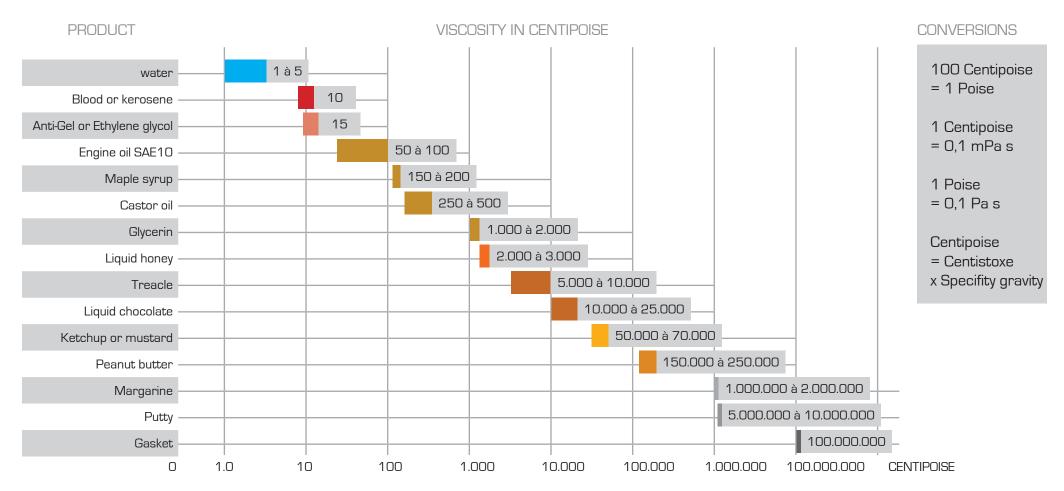
1 foot

1 mile (mi)

1 mile (mi)

PRODUCTS VISCOSITY

The properties of your product, such as his viscosity and his size, are essential elements in order to choose the most appropriate dispensing system for your application. Usually expressed in poise or centipoise (but also in other values), the viscosity is a measure of the internal resistance of a fluid to flow.



MAIN FLUIDS TREATED BY GENTEC

Activator / Anaerobic / Coatings / Cyanoacrylate / Electrolytes / Epoxies / Gels / Greases / Solder Pastes / Solvent / UV Products / White Glue / Lubricants / Oils / Marking Inks / RTV and gaskets

For worldwide technical and sales support, please contact Gentec or visit :

www.gentec-benelux.com/contact-gentec





NOTES

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