

Widder Group's Catalogue Booklet



Widder Industrial Group.

The Widder Ind'l Group is a composed of two companies so called Widder Engineering Co. LTD. & Arawid Limited. The Widder Eng. Co. has been formed at 1991 in Tehran, and then started her activities in field of packaging industries' machinery since establishing date. Also has started marketing and sales and also providing aftermarket services for industrial Ink Jet printers (Coders) and label Applicator machinery as Willett Co.'s exclusive representative in Iran territory.

The Widder Eng. Co. has also entered in a new field of activity from 1995 that was designing and manufacturing of Label applicator stations and various models of Contact Coding machinery.

Widder Eng. Co. is a known and well reputed company in Iran now, thanks to more than 23 years experienced, qualified and well trained specialist engineers and personnel, also relying on distributorship of Willett Co.(as British supplier of CIJ coding and Labeling machinery), Beijing Kenuohua Co.(as Chinese supplier of CIJ coding printers), and Autonics Co.(as Japanese supplier of industrial Label printers).

Widder Eng. Co. has been established her new workshop by developing, specializing and upgrading of her after sales services & technical department in new industrial region since 2001 Successfully performing her responsibilities for several customers, factories in all over of Iran.

Widder Ind'l Group in field of packaging industries' machinery has known as a supplier and integrator of complete production and packaging (Bottling) lines for Viscose liquids and Non-carbonated beverages, from Water treatment equipment, P.E.T. bottle blow molding machinery, Rinsing/Filling/Capping (Tri-block) machine, Labeling machinery as self-adhesive labeling/shrink label sleeve /cold or hot glue labeling, shrink pack machinery to conveying / distributing systems either manufactured by Widder Ind'l Group or supplied by well-known European, Chinese and Asian south east manufacturers in Iran.

The Widder Eng. Co. managing of products manufacturing and services have been qualified to receive the ISO 9001:2008 and CE mark Certificates in 2012. Arawid Limited Company has been formed as Widder Industrial Group's member to perform marketing, sells and aftermarket services of her group products in Europe and related markets as well.

Packaging Machinery

Tri-Block

*The Automatic Non-Carbonated PET Bottling line
Main Machine*

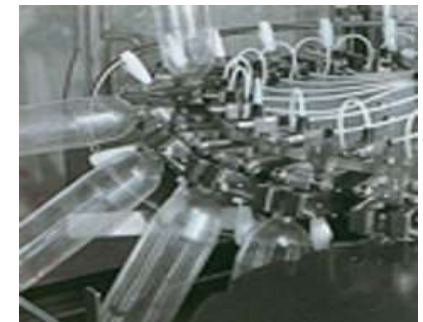
Tri-Block

The Automatic Non-Carbonated PET Bottling line Main Machine

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery. Super block series composed of an automatic rinsing, high performance filler, and precise screw capper all mounted on a heavy duty chassis synchronously working together providing output from 2000-18000/ bph. and over per order.

Main Features:

- Rinsing unit's neck holding bottle



Rinse's neck holding bottle
Grippers

grippers keep bottles tightly but no damage during rinsing cycle.

- Filler ring bowl, made up of stainless steel,- Filler unit`s automatic filling valves are without opening star and degassing button suitable for non- carbonated/flat liquids in gravity filler.

- Filler`s nozzles with easy adjustable liquid level with replacement little O-rings.

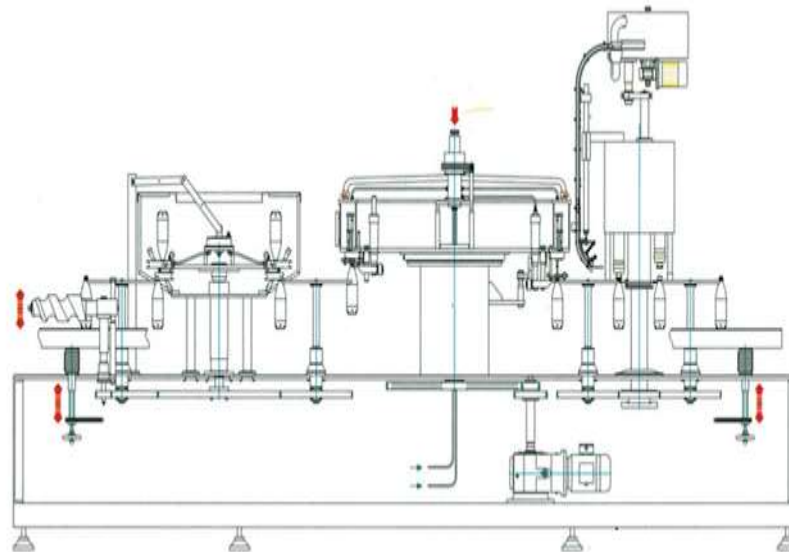
- Filling valves equipped by lifting fork enabling the bottles to be centrally positioned under filling nozzles.

- Capper unit`s capping heads are equipped with adjustable magnetic clutch for pre-threaded plastic screw caps.

- Capper unit is equipped with stainless steel centrifugal caps hopper which mechanically sort and collect the caps with correct orientation.

- Switch board cabinet made up of

Tri-block



Tri-block Diagram



Filler`s stainless steel ring bowl & Bottle movement neck handling system with star discs and external guides

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stainless steel provides all electrical and electronically controls in same place.

- The main drive supplied by a 3 phase electromotor equipped with heavy duty gearbox and inverter controlling soft start and variable speed.
- The bottle movement has been facilitated with neck handling system by star discs and external guides.
- The most interesting advantage of Widder Tri-block is the possibility of bottle size Change over just with replacement of one component which is last outlet star of capping unit and adjustment of telescopic screw of the inlet conveyor as per bottle`s height.

The unique design of this machine has minimized lubrication of all mechanical components need and enables quick access to them for assembling and disassembling easily and quickly.

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Automatic filling valves work smoothly but fast



Possibility of different bottle size change over

Rotary Viscos Liquids Filling Machine

High speed viscose liquids filling machine

Rotary Viscos Liquids Filling Machine

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. group viscose liquids filling machine consists 8/12 or 16 stainless still cylinders which each capacity could be up to 1.5 liters, have been mounted on a stainless still two ways valve. All above mentioned parts have been installed around of a stainless still tank with capacity of 65 to 130 liters. Filling nozzles are installed under the valves. All mounted on a heavy duty chassis synchronously working together providing output from 2000-7000 / bph.

Main Features:

- The conveyor chain moves empty bottles smoothly to the inlet star and get deliver filled bottles from outlet star of filling machine under polling pressure of its driving system Conveyor's chain width defers with bottles bottom size from 80mm up to 190mm.

- Referring to the machine model, 8/12 or 16 stainless still cylinders which each capacity could be up to 1.5 liters, has been mounted on a stainless still two ways valve. All above component have been installed around of a stainless still tank with capacity of 65 to 130 liters. Which suck in the filling liquid from tank and inject it in to the bottles in each cycling period of filling machine.



Front View of viscose liquids filling machine



Adjustable pistons rail



Bottle handling system

- Adjusting of machine for different heights of bottles could be done easily by turning a handle which has installed inside of machine basement cabinet.

- Adjustment of filling liquid capacity or liquid height inside of bottles could be done easily and precisely by turning an escrow jack which change the pistons rail slant.

- The bottle handling system Consists two inlet & outlet stars and related guiding part which can be changed by appropriate size part so easily.

The machine driving system is a combination of appropriate 3 phase electromotor which equipped directly with a well choose reducing unit.

- The electric driving and controlling parts as well as an electronic inverter are mounted inside a box which installed inside of basement cabinet.

- All above mentioned components and parts have been installed on a stainless still basement heavy duty cabinet.



Stainless still 2 way Valves

stainless still cylinders & two ways

Linear Viscos Liquids Filling Machine

Linear Viscos Liquids Filling Machine

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. Group viscose liquids filling machine consists 4/6 stainless still pneumatic filling valves which have been mounted on a stainless still moveable Rig. All above mentioned parts have been installed in side of a conveyor. Filling nozzles are installed under the valves. All mounted on a heavy duty chassis synchronously working together providing output from 900-1500/bph.

Main Features:

- The conveyor chain moves empty bottles smoothly to the inlet pneumatic divider and get deliver filled bottles from outlet pneumatic divider of filling machine under polling pressure of its driving system. Conveyor's chain width defers with bottle's bottom size from 80mm up to 190mm.

- Referring to the machine model, 4 or 6 stainless still valves which, have been mounted on a stainless still Rig. All above components have been installed beside of a conveyor. Which inject filling liquid pumped from tank in to the bottles in each cycling period of moveable installation board.

- Adjusting of machine for deferent heights of bottles could be done easily by moving valves mounting block on Rig.

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Linear viscose liquids filling machine

- Adjustment of filling liquid capacity or liquid height inside of bottles could be done easily and precisely by changing the filling time digits on PLC controller of machine.

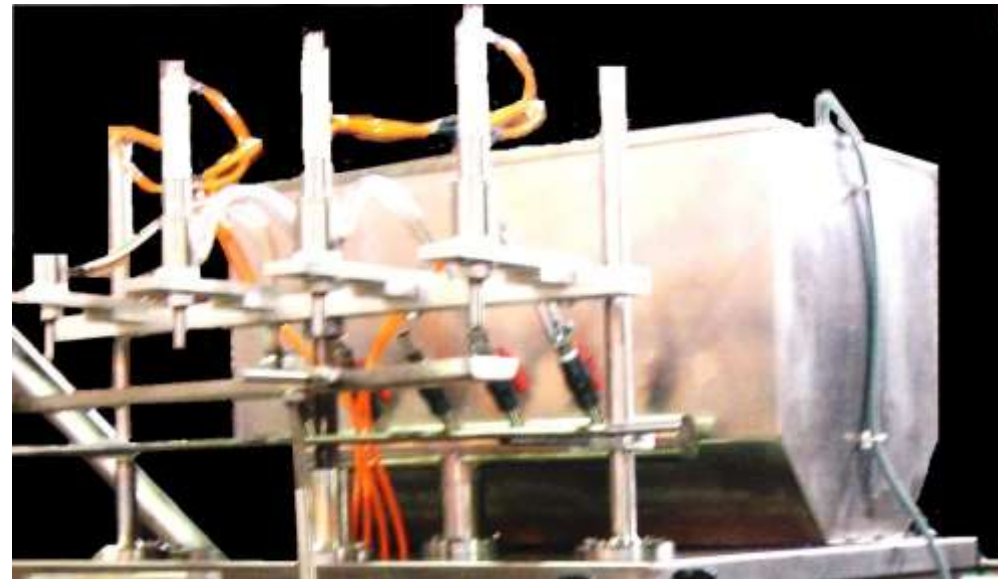
- The bottle handling system Consists two inlet & outlet pneumatic dividers and related guiding part which can be adjusted with bottle size easily.

The machine driving system is a combination of appropriate 3 phase electromotor which equipped with a viscos pump unit.

The stainless still viscos pump which has been mounted on a platform which has installed on chassis by using vibration absorbers, sucks the viscose liquid from tank and deliver it to the pneumatic valves.

- The electric driving and controlling parts as well as a PLC controller and an electronic inverter are mounted inside a box which installed on accessible place of machine cabinet.

- All above mentioned components and parts have been installed on a stainless still basement heavy duty cabinet.



Penumatic dividers of bottle handling system

Liquid tank and valves Rig

Rotary Capping machine

Rotary Capping machine with cap sorting unit

Rotary Capping machine with cap sorting unit

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. group Rotary Capping machine consists 4/6/8 or 12 stainless still capping heads which are equipped with Magnetic clutch, has been mounted at the end of moving arms. All have been installed around of a rotary unit. All mounted on a heavy duty chassis synchronously working together providing output from 4000-14000 / bph.

Main Features:

- The conveyor chain moves filled bottles smoothly to the timing screw and then to inlet star and get deliver



Front View



Caps Hopper

caped bottles from outlet star of capping machine under polling pressure of its driving system. Conveyor's chain width defers with bottles bottom size from 80mm up to 190mm.

- Caps feed by Hopper conveyor to the cap sorting unit to be sorted in same direction and feed to the cap shooting rail transferring to the cap applicator.
- Referring to the machine model, 4/6/8 or 12 stainless still capping heads which have been installed around of a rotary unit ,in each cycling period of rotating set on top of caps which have been putted on bottles mouths and turn around fastening plastic caps as per their pre adjusted torch .
- Adjusting of machine for deferent heights of bottles could be done easily by turning a handle which has installed inside of machine basement cabinet.
- Adjustment of fastening torch of capping heads could be done easily and precisely by turning escrows which

Capping Heads equipped with Magnetic Clutch



are on each capping head.

- The bottle handling system Consists a timing escrow, two inlet & outlet stars and related guiding part which can be changed by appropriate size part so easily.

The machine driving system is a combination of appropriate 3 phase electromotor which equipped directly with a well choose reducing unit.

- The electric driving and controlling parts as well as an electronic inverter are mounted inside a box which installed inside of basement cabinet.

- All above mentioned components and parts have been installed on a stainless still basement heavy duty cabinet.



Sorting unit

Linear Labeling machine

Roll feed self-adhesive linear labeling
machine

Linear Labeling machine

Roll feed self-adhesive linear labeling machine

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. group Roll feed self-adhesive Linear labeling machine consists of 1 / 2 / 3 labeling applicators and container timing and /or wrap around conveyors which have been installed in one or both sides or above of a one/ or two level conveyor. All mounted on a heavy duty chassis synchronously working together providing output from 3500-8500/bph.

Main Features:

- The conveyor chain moves filled or empty bottles smoothly to the timing belts then the upper conveyor push them from top, to



Two side labeling machine



Stand alown label applicator

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move them from the labeling applicators area applying labels and would pass them to the wrap around unit if applicable, under polling pressure of its driving system.

- The main conveyor's body has made from stainless still and the chain is acetyl resin. It's width defers with bottles bottom size from 80mm up to 190mm with 2500-3000mm long.

- The top level conveyor's body has made from stainless still and equipped with timing belt with 1900mm long and has equipped with motorized escrow jack elevator for height adjustment.

- Two horizontal timing conveyors have been installed on Adjustable stand with Set screws in the both sides of the main conveyor entry.

- There are a combination of 1,2 or 3 units of label applicators have been installed on Adjustable Tripod System with Set screws around the main conveyor each one has equipped with fast driven stepping motor.

- One horizontal belt conveyor and related front press have been



Wrap Around labeling machine



Thrie side labeling machine



Top labeling machine

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installed on adjustable stand with Set screws in the both sides of the main conveyor exit. (Wrap Around models).

- The machine driving system is a combination of appropriate 3 phase electromotor which equipped directly with a well choose reducing unit.

- The electronic control which has been equipped with touch screen system has installed on top of top conveyor or on top of base cabinet (in wraparound models) with 180 degree woundable.

- The electric driving and controlling parts as well as an electronic inverter are mounted inside a box which installed inside of base cabinet which have been choose from best European licensed brands .

- All above mentioned components and parts have been installed on a 1000X1300mm stainless still heavy duty cabinet.



Two side top labeling machine



Four side labeling machine

Linear Roll Feed Hot Glue Labeling machine

Hot Glue linear labeling machine

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Widder Industrial group's packaging / Bottled up machinery is the result of practical experience, following of unique, specific & special rolls and industrial standards and also using of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. group Linear Roll Feed Hot Glue Labeling machine consists of one labeling applicator and container timing and /or wrapping around station which have been installed in sides of one level conveyor all mounted on a heavy duty chassis synchronously working together providing output from 3500-10000/bph.

Main Features:

- The conveyor chain moves filled bottles smoothly to the timing star, the pneumatic jack pushes them to be fit in to timing star to move and feed them to the labeling applicator area, applying labels and passes them from the wrap around unit under Traction pressure of machine Main driving system.
- The main conveyor's body is made of stainless steel and the chain is acetyl resin (or stainless steel as optional). The width of chain is 190mm with 2500-3000mm long.
- One horizontal timing Star have been installed on Adjustable stand with Set screws in one sides of the main conveyor entry.
- The label applicator which has been installed in one side of conveyor has equipped with changeable vacuumed Drum System and reliable Clincher.
- One especial horizontal front press unit has been installed on adjustable stand with Set screws in the sides of the main



Roll Feed Hot Glue Labeling machine (Right view)

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conveyor exit. (Wrap Around unit).

-The Gluing system consisted of one glue tank equipped with a powerful glue pump and related piping & tube system which prepare, transfer & return the hot glue, to the gluing Drum, all are equipped with 24 V. Steel Covered heater elements.

- The machine driving system is a combination of appropriate 3 phase Electro motor which is equipped directly with a well-chosen reducing unit and a powerful Servo motor.

- The machine interface which has been equipped by touch screen LCD monitoring system (HMI), has installed on its stainless steel stand in the side of Main cabinet with 180 degree Rotation capability.

- The electronic controlling parts like as PLC and an electronic inverter & etc... are mounted inside a box which is installed in the side of Main cabinet which has been choose from best European licensed brands (Delta).



Roll Feed Hot Glue Labeling machine (Left view)



- All above mentioned components and parts have been installed on a 1000X1600X850mm stainless steel heavy duty cabinet.

Shrink Wrap machine

Secondary packaging machine with
sewing system

Shrink Wrap machine

Secondary packaging machine with sewing system

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. Group Shrink machine consists of one filled bottle sorting system and one shrink plastic feeding/cutting & sewing unit And a tunnel kiln equipped with bottle transfer system within it. All mounted on a heavy duty chassis synchronously working together providing output from 4000-3000/bph.

Main Features:

- The conveyor chain moves filled bottles smoothly to the bottle inlet sorting system of shrink machine under polling pressure of its driving system. Conveyor's chain width 190mm.
- Bottles become sorted as per 2X3 or 3X4 format packages by sorting unit's pneumatic jacks acting, then pushes to the shrink film feeding/cutting & sewing unit by pneumatic feeding jack.



Shrink pack machine equipped with bottles sorting system



Pneumatic bottles forming system



Bottles stainless still dividers

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- Packages become wrapped with shrinkable plastic film in the shrink film feeding/cutting & sewing unit.
- The wrapped package passes the tunnel kiln by its individual conveying system.
- The package's shrinkable film take its form by heat of kiln.
- The shrinkable film become cold and hard when the packages arrive under cooling fans after exiting from kiln keeping fasten the bottles.
- Width of inlet conveyor is 190mm and width of tunnel kiln conveyor is up to 7500mm.
- The shrink plastic feeding/cutting & sewing unit is consisting of Two film rolls opening systems that have been designed in Motorized and freewheeling duty which will provide shrink film and a pneumatic device which is equipped with a special blade for cutting and sewing task is in charge of the wrapping film.
- The tunnel kiln has been made with double walls which has been heat isolated with high density rock wool .the kiln has equipped with stainless still covered heating elements which have been installed in a cartridge providing easy maintenance and change over even within production. The kiln tunnel also has been equipped by heat transfer fan on it,



Shrink pack machine equipped with bottles sorting system



Plastic Cover roll feeding system



Completed shrink packed package

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sucking hot air within the heating cartridge and blowing it to the packages from both sides.

- The machine driving system is a combination of appropriate 3 phase electro motors which equipped directly with well choose reducing units.

- The electric driving and controlling parts as well as an electronic inverter are mounted inside a box which installed in right side of machine.

- All above mentioned components and parts have been installed on a heavy duty still body which well-covered by using industrial paint.



Pneumatic bottle feeding Jack & Micro-switches



Industrial Conveyors

Material and Bottles Transferring/Reservoir
Conveying system

Industrial Conveyors

Material and Bottles Transferring/Reservoir Conveying system

Widder Industrial group's packaging / bottling machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Widder Ind'l. group Conveyor is a combination of a stainless still body, one or more stainless still /asetal resin chains or PVC laminated belt which equipped with Appropriate driving system all has been mounted on Stainless steel bases hank with strong ABS fittings.



The wide width Conveyor equipped with drier fans



U form Mass conveying system

Main Features:

The conveyor chain moves smoothly under polling pressure of driving system on Z bands which have been mounted in both sides of conveyor body and pass return path under conveyor as well.

Chain width defers in conjunction of conveyor usage from 80mm up to 350mm.

The conveyor driving system is a combination of appropriate electromotor which equipped directly with a reducing unit.

-The conveyor has been mounted on stainless still bases hank with strong ABS fittings.

The bases have been equipped with horizontal bipods and related level compatible and height adjustable base plates.

-The guide system is included two stainless still rods or one shadow line sheet which has been installed on both sides of conveyor body by using adjustable ABS fittings.



Wide width Conveyor with modular chain



Hopper conveyor with reservoir

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- The conveyor body has been enforced by tick stainless still plates where driving system has been installed.



Conveyor equipped with Heating tunnel



The Mass conveying system



Reservoir round desk system

Industrial Printers

Coding & Printing on products by Non-Contact/Contact printing Technologies

Small character Ink Jet Coder KN3030

KN3030 Continuous Inkjet (CIJ) Printer

FEATURES AND BENEFITS

- Brand-new Hydraulic System & 32 Bit Microprocessor
- Easy interaction based on Linux platform
- Convenient to realize on-line print and upgrade
- 10.4 inches color touch screen, stainless steel enclosure
- Timing shutdown, automatic flushing, convenient to maintain
- One Button Stop-start Control
- User-friendly Interface
- Print Messages Access Easily and Quick
- 10000 Messages storage with 64M memory
- Chinese / English / Logos / Symbols
- CE / IEC 61000-4 EMC Standards

TECHNICAL SPECIFICATION



KN3030 CIJ Printer



Industrial Group

- Weight: 26kg
- Rated current: 3A
- Ambient temperature: 5-40 C. Degrees

- Humidity: 30-95%(no condensing)
- Length of the print-head conduit: 3m
- Dimensions: 300mmX400mmX545mm
- Power supply:100-240VAC±10%, 50Hz/ 60Hz

PRINTING FEATURES

- Timing and counting printing
- Bold: Up to 9 times
- Automatic show of products counting, batch numbers, shift numbers
- Printing speed: Up to 660 characters/second
- Variable characters/languages/logos/fonts printing
- Reversal and inverse etc., printing
- Printing lines: 1~3 Lines
- Message delayed printing
- Printing height: (7x5) single line. 2-



KN380Y CIJ Printer



Printing on Aluminium cans



Industrial Group

5mm (16x16) single line. 5-10mm

- Character matrix: 5x5, 7x5, 7x7, 10x7, 12x12, 16x16, 24x24
- High protection level, working normally in dusty and damp environment
- Anti-static and interference design to ensure a stable operation in complex environment

CONSUMABLES & ACCESSORIES

- Solvent: Kenuohua special solvent
- Ink: black, blue, red, green, UV ink (Kenuohua special ketone based inks)
- Accessories: photo sensor, print-head stand, etc.
- Optional accessories: handheld print-head bracket, convey belt



plastic tube or

cable

Printing on



Printing on thinplate surfaces

Small character Ink Jet Coder KN380Y

KN380Y Continuous Inkjet (CIJ) Printer

FEATURES AND BENEFITS

- Special Hydraulic System with internal compressor.
- English and Unicode Input Methods
- One Button Stop-start Control
- User-friendly Interface
- Print Messages Access Easily and Quick
- 200 Messages Database Input /Output
- Chinese / English / Logos / Symbols
- ISO9001- CNAB028-Q

TECHNICAL SPECIFICATION

- Weight: 55kg
- Rated current: 3A
- Ambient temperature: 5-40 Degrees
- Humidity: 10-90%(no condensing)



KN300AE CIJ Printer



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- Length of the print-head conduit: 3m
- Dimensions:
545mmX420mmX320mm
- Power supply: 220VAC±10%, 50Hz
- Altitude:0-2000m

PRINTING FEATURES

- Timing and counting printing
- Bold: Up to 9 times
- Automatic show of products counting, batch numbers, shift numbers
- Printing speed: Up to 660 characters/ second (7x5 single line)
- Variable characters/languages/logos/fonts printing
- Reversal and inverse etc., four directional inkjet printing
- Printing lines: 1~3 Lines
- Message delayed printing
- Printing height: (7x5) single line. 2.5-5mm (16x16) single line. 5-10mm
- Character matrix:7x5, 7x7, 10x7, 16x10, 12x12, 16x16, 24x8



Printing on Plastic surfaces



Printing on Aluminium cans

CONSUMABLES & ACCESSORIES

- Solvent: Kenuohua special solvent
- Ink: black, blue, red, green, UV ink (Kenuohua special ketone based inks)
- Accessories: photo sensor, print-head stand, etc.
- Optional accessories: handheld print-head bracket, convey belt



Printing on sholder of plastic bottles



Printing on thinplate surfaces

Large character Ink Jet Coder SX32

SX32 Standard Series of DOD printer

- Jewel nozzles, Long term durability
- Unique plunger provides faster startups with Quick Flush function
- Tubeless manifold prevents clogging and plugged nozzles
- Wide range of models for optimal print size, and speed
- Choice of up to 4pcs of print heads operated on same controller

The SX32 Standard Series of DOD printer is a powerful and flexible solution for all industrial environments. Due to the wide selection of print heads available for this system, it is possible to print 7mm to 64mm text or graphics, and the IP42 classification guarantees safe usage in any industrial environment, regardless of dust or vibrations.

Simple

This system is not only easy to install and start up, it is also very simple to use as it features an icon-based menu structure which gives a good overview of the different options. This, in combination with a selection of "hot keys" on the keyboard, minimizes the risk of errors made by the user.



SX32 Standard Series of DOD printer

Expandable

The SX32 Standard Series of DOD printer can be used with any 7, 16 valve print head from the Standard series. Installing the system requires very little space. Several print heads can be operated from the same work station, and the mounting of the control unit is flexible.

Print heads

- Types: Standard Print Heads 7, 16 Valve
- Print heights: 7-64 mm 1-2 lines
- Print distance: 1-25mm
- Print speed: up to 2m/s
- Print formats (built-in functions):
- Graphics, variable text position, bold, light, inverse, standard Julian date formats, real-time clock, delay function, repeat print, up/down counters, alphanumeric and shift codes, upper and lower case characters,

Control Unit

- Control unit with built-in keyboard. Serial port: RS-232 for connection to PC.

Message storage:

- 100 messages, 128 text strings within all messages. 4000 column capacity.
- 1 User Text (quick access for editing), time codes,



SX32 Print heads on printing

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clocks and graphics.

- Dimensions and Weight: 286 x 251 x 126 mm, 2.5 kg

- Languages: English, Chinese

Ink System

- Type: Standard Ink Supply Unit (3-5psi)
- Two liter capacity: ink and cleaner
- Will drive up to 64valves

Operating Environment

- Temperature: 0 – 45°C
- Humidity: 10-95% non-condensing
- Electrical: 100-240 V, 50-60 Hz

Options

- Speed encoder
- Photocell
- Wall bracket



Printing on Paper Bags



Printing on Cartoons

Hot Foil Printer

Coding on foil's surfaces by Hot Stamping Method

Digital Hot Foil Printer

Consists of one printing applicator and one Digital Control unit, providing output from 3600-8500/print / Hour.

Main Features:

- The printing Ribbon rewind smoothly from feeding reel by Stepping motor's Pulley Puller then Wraps around the collecting reel .

The printer's Stereotype which has been equipped with heating system and has mounted under pneumatic jack prints all variable messages on the foils surfaces by pressure and heat.

Thermal Transfer printing method is transferring ink from printing ribbon to the printable substrate by pressure and heat of stereotype.



Table top Digital Hot Foil Printer

TECHNICAL SPECIFICATION:

- The stereotype has been made from hard phosphor brass material with same alphanumeric letters.
- Up to four lines of printing messages can be print with this printer.
- The print area is 25 x 40 mm W x L
- The printer has equipped with digitally and mechanically ribbon saving systems.
- The controlling system has dual and delay functions and also could control adjusted heating degree of printing head.
- There is printed messages counter and heat of print head digits showing on LCD monitor of controller.
- Control units Dimension are 120 x 320 x 400 mm.
- There are several types of printing ribbons in thickness and colors available.



Digital Controller of Hot Foil printer



Various printing Ribbons



Printing on several type of foils



Printing on Juice package



Hot foil Printer Applicator



Printing on packaging Foils

Handy Rolling stamp

Variable stamp coding on Porous /
Non-Porous surfaces

Widder Industrial group's packaging machinery are the result of practical experience, following of unique, specific & special rolls and industrial standards and also use of non-stop R&D policy in manufacturing of updated, tough & high performance machinery.

Applications:

Printing of variable codes on porous & Non-porous surfaces like as cardboards, papers, wood and textile/ Plastic and etc. as follows:

* Production and expiry date, Product name, Batch number, Serial number, Net gross weight, Price, Packages, specifications, logos, etc.

General Specification:

- Printing method: Transferring of ink by flex-graph drum.
- Print speed: Up to 60 print / minute.
- Print area: 355 mm Length and 98 mm Width.
- Print letters: 20 mm height as standard. Special or Custom designed letters or logos in standard or optional sizes could be supplied.
- Printing lines: up to 4 lines of codes.
- Consumable ink: The specially formulated long lasting ink on stamp roller but fast drying and non-smearing on porous printing surfaces. With black, blue, red, green and magenta ink colors on



Full machine view

customer order.

- Ink stamp roller (Pad): Formulated from special polymer material for high storage capacity of ink, avoiding evaporation of ink in hot environments and transfer of appropriate amount of ink in each print (smear free) Containing about 300 cc of special ink.

- Machine Weight : 1 kg Net

Technical Specification

- Rewinding Spring: This system is equipped by a steady spring for uniform and regular stamping which after each stamping round, automatically rewinds stamp drum to its starting point.

- Letter Lock: Mechanical design, Materials of stamp drum and also Lactic letters are designed as to prevent any displacement and drop of letters. Consequently Typesetting and letter replacement are comfortably being done.

- Ink Recharge: After every use of available ink in the cartridge, the cartridge could be charged with ink through two following methods:

- 1) Immersing cartridge into special ink.
- 2) Adding special ink to cartridge Drop by Drop with bottle.

- Ink Cartridge: Including special Polymer and Plastic Roller core which can be easily replaced. It



Package contains



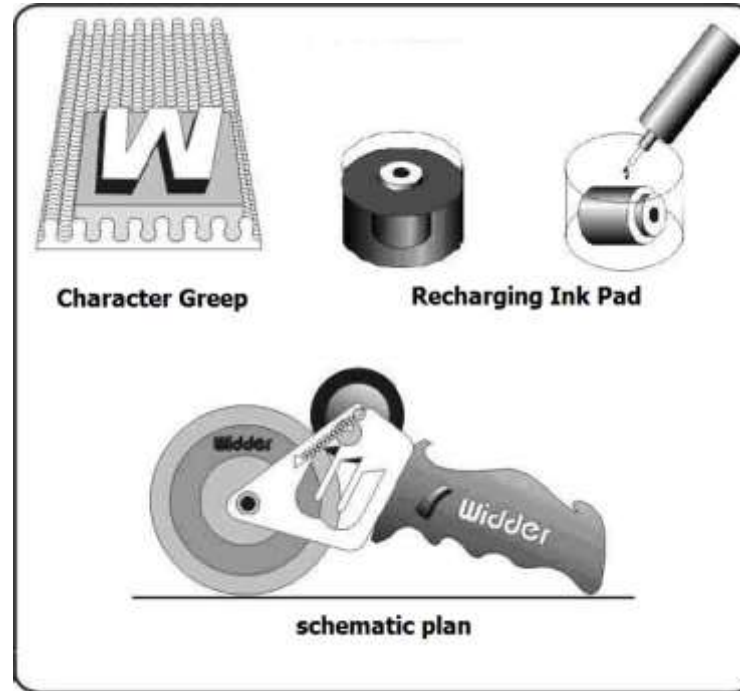
Print on Plastic texture Bags Cartons & Textile Bags

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Industrial Group

works without ink splash and can be used for long period.

- Side Springs: To supply pressure for keeping ink cartridge on printing letters tightly.
- Regulating Screws: They are designed to regulate the cartridge height level with print letters surface and Assures equal, same and even contact of all points of ink cartridge surface with print letters.
- Handle: Is ergonomically designed not only preventing operator to be tired but also ease of operation. It is made up of self-stained rigid plastic and is shock and pressure resistant



diagram



Inking & Typesetting
Print on Craft Paper Bags