

Global Leader Manufacturer of Quality Fluid Handling Equipment in Taiwan



# For industry practitioners and experts in:

- Building and Construction Companies
- Metal Treatments
- Marine and Shipyard Buildings
- Furniture and Timber Works
- Railroads, Streets and Public Facilities
- Chemical Industry
- Fluid Handling Application

ISO 9001:2008 Certification



#### **Ching-Yea MECHANICAL INDUSTRY**

Fluid Handling Equipment Manufacturer No.8, Alley 6, Lane 15, Sec. 2, Jiayuan Rd., Shulin District, New Taipei City 238, TAIWAN Tel: +886-2-2668-7799 Fax: +886-2-2668-8991 www.cosmo-star.net; cosmostar@chingyea.com CosmoStar- Handle with Care Experience • Quality • Care

# **BUILDING AND CONSTRUCTION**

CosmoStar airless sprayer series are used throughout the construction process from paint spraying, insulating and applying protective coating.

#### Steel Construction

CosmoStar provides airless sprayers for spraying protective coatings e.g., anti corrosion applications and wall/floor water proofing.

- Insulation and Plastering
  - CosmoStar provides multi-component sprayers for polyurethane (PU) and foam insulation for roofs and walls.
- Decorative Painting

CosmoStar provides spray units for decorative painting for new constructions and renovations.

#### **Applicable Materials:**

Oil-based paint, water-based coatings, waterproof coatings, sound-insulation paint, heat preservation, fire-resistant coatings, anti-rust paint, cement mortar, adhesive layer, putty, etc.





**Airless Sprayer** 

CosmoStar Airless Sprayers are designed for heavy duty applications. Huge pressure output makes it suitable for marine and shipyard painting application.

#### **Features**

- ✓ Higher pressure ratio for higher flows, superior atomization
- ✓ Wide spraying coverage
- ✓ High mobility



High volume mechanical proportioner that replaces the manual pre-mixing of plural component materials and reduces the cost of wasted paint and labor.

# **METAL TREATMENT**

cosmoStar spray equipment is used to treat metal surfaces. High Pressure Airless Sprayers are the best to use when applying thick coating e.g., Primer, anticorrosion, while Diaphragm Pump Sprayers are necessary to apply high quality finishing (painting).



# High Pressure Airless Sprayer

At present, high-pressure airless sprayer is widely used, especially for large parts' steel/metal coating. It is mainly due to the following characteristics:

- As the coating fluid does not include the compressed air, it can eliminate the moisture, oil and other impurities usually generated by the compressed air. It also can avoid loss of material which is caused by compressed air being sprayed onto the surface and put an end to the bubble formation.
- With the high pressure applied on the coating, it can penetrate the pore inside the structure, hence results in good adhesion.
- A high pressure spray generates a thick coating (up to 0.3 mm.), thereby reducing the time of spray. Measured coverage area/spray is up to 300 -500 mm with spraying flow rate between 0.5-15 l / min. When used in large-scale construction the spraying rate up to 200-600 square meters/hour is extremely efficient.
- Appropriate for spraying thick-heavy coatings, high solids composition coating and a heavy viscosity coating. It saves the organic solvents, and reduces environmental pollution.
- Makes automatic coating implementable i.e., industrial automation production line and unmanned coating (coating robots).

#### **Applicable Materials:**

- High inorganic zinc coating
- Epoxy iron red coatings
- Anti-rust coatings
- Peel able coatings



#### CY-1300 30:1 COMPACT Airless Sprayer

Built to satisfy the need of low cost sprayers. Designed with a compact size, **COMPACT** 30:1 Airless Sprayer is suitable for high mobility usage. When low cost, easy maintenance and mobility is your main preferences, **COMPACT** 30:1 Airless Sprayer is surely the best thing you can get.

#### **Feature and Benefits**

- Low maintenance cost
- Easy maintenance
- Compact volume
- High mobility



# **CY-0900-10** DPP Air Spray Finishing Package

COSMOSTAR CY-0900-10 is designed especially for customers who require better coating process. Application of coating regulator and accumulator provide excellent effect in terms of steady output pressure.

#### **Feature and Benefits**

- High-quality-finish and low pulsation output deliver a consistent spray pattern
- Easy-to-use, quick color changes and fast material refills save more time and money

# MARINE AND SHIPYARD BUILDING

CosmoStar specialized solutions for the marine market include anti-corrosion sprayers and lubrication systems.

#### Coating

CosmoStar provides airless sprayers for spraying protective coatings e.g., Anti fouling coating and anti corrosion coating.

#### Insulation

CosmoStar provides plural component airless sprayers and injection system for applying polyurethane and resin. Engineered to handle the toughest protective coatings, the Multi-Component Sprayer provides precise ratio control for efficient work.

#### **Painting**

CosmoStar airless sprayers generate high volume painting with large coverage area and paint flow rate; make the highest painting efficiency possible.

#### Applicable materials:

Anti-fouling coating, water-based coatings, waterproof coatings, sound-insulation paint, heat preservation, fire-resistant coatings, anti-rust paint, cement mortar, adhesive layer, putty, etc.



#### **Double Diaphragm Pump**

CosmoStar double-diaphragm pumps are ideal for corrosive ,abrasive fluid transfer and lubrication. Mainly used for bearing grease to ship propeller shafts and engines.

#### **Features**

- ✓ Deliver up to 620 liter/min
- ✓ Lubrication-less operation









#### **Airless Sprayer**

CosmoStar airless sprayers are designed for heavy duty applications. Huge pressure output makes it suitable for marine and shipyard painting application.

#### **Features**

- ✓ Higher pressure ratio for higher flows, superior atomization
- ✓ Wide spraying coverage
- ✓ High mobility

# FIXED RATIO PLURAL COMPONENT SPRAYER

# Durable, Dependable and built to last

The CosmoStar CY-0610 Plural-Component Sprayer is designed for spraying any high viscosity fluid, high solid content material coating. The gravity feed, flush pump and fluid heater can be implemented to achieve variety functionality equipment to face the hardest environment and any coating application.

#### Fluid Manifold

The system of dual shutoff and dual drain valve can easily be started or stopped as well as fast process daily ratio-checked.

#### **Precision Ratio**

Materials are proportioned by precision positive displacement pumps and mixed accurately.

#### **Mixing Manifold**

CosmoStar pneumatic based, explosion proof mix manifold, injector and airless gun ensure a proper mixing ratio for fast-curing materials to be either injected or sprayed.

#### **High Pressure Sprayer**

High pressure to handle high viscosity and high solid content coating. Rugged Air Motor body can stand any hardest application environment.

#### **Heating System**

Heating system
upgradeable based on
your need, which includes
fluid heater, heated tank
and heated hose.

# Solvent Flush Pump

Mounting with CosmoStar 4" Enco high pressure flush pump, it can provide enough pressure force to push materials out of manifold and mixing hose immediately.

#### **Three-wheel Cart**

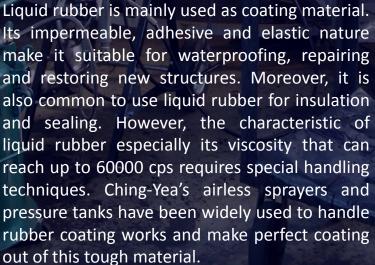
Three-wheel cart design provides the best mobility to move your equipment to any tough location.





# LIQUID RUBBER COATING

CosmoStar provides airless sprayers and pressure tanks for rubber coating industries. Pressurized and agitated liquid rubber coat in the pressure tank is extracted and sprayed by high pressure airless sprayer. The high pressure will guarantee a perfect atomization to make your coating work seamless and efficient.



CosmoStar COMPACT 30:1 Airless Sprayer is built to satisfy the need of low cost sprayers. Designed with a compact size, COMPACT 30:1 Airless Sprayer are suitable for high mobility usage. When low cost, easy maintenance and mobility are your main preferences, COMPACT 30:1 Airless Sprayer is surely the best thing out there.

Multi functioned CosmoStar pressure tanks are highly portable and compact. This allows flexible operations in tough environment with limited space. Available in low and high pressure, CY-057X comes with 10, 20, 40 and 60 liter models.







# Airless Sprayer Series: PNEUMATIC



Airless Spray Gun

CosmoStar

CosmoStar Airless Sprayers offer highly reliable performance even in the harshest environment. The combination of extreme pressure ratio, high flow rate and rugged design make HULK 73:1 Airless Sprayers ideal for handling extremely viscous fluids. COSMOSTAR HULK 73:1 Airless Sprayer is the answer for your heavy-duty spray applications.

CosmoStar CY-0116 HULK Airless Sprayer

#### includes:

- Switch Tip and Guard
- Contractor Airless Spray Gun
- 3/8 in x 50 ft [9.5 mm x 15 m] Airless Hose
- 1/4 in x 3 ft [6.4 mm x .9 m] Whip Hose

#### **TECHNICAL DATA**

Air motor diameter

Pressure ratio

**Maximum Fluid Working Pressure** 

**Maximum Air Input Pressure** 

Maximum volume flow rates

Maximum Recommended Pump Speed

Air inlet size

Fluid inlet size

Fluid outlet size

10 in (HULK)

73:1

5220 PSI (360 Bar)

72.5 PSI (5.0 Bar)

11.0 LPM

60 CPM

3/4 npt(f)

1-1/2 npt(f)

1 npt(f)

# Airless Sprayer Series: GAS-POWERED

CosmoStar presents Gas-Powered Airless Sprayer series that work under the heaviest environment while maintaining reliable performance, high durability and efficiency. WALKER is our answer of the demand of high quality yet mobile spraying machine. The combination of rugged design and high quality Gas Engine provides a reliable system that does the job whenever and wherever perfection is required.

#### **Features and Benefits**

- Higher pressure ratio for higher flows
- Longer lines and better atomization
- Wide spraying and coating covered area
- High mobility to work under the harshest environment





#### **Airless Sprayer**

- Save paint
- Precise lines
- Eliminate rounded/fuzzy edges
- No extra materials needed

#### Air Sprayer

- Waste paint
- Uneven lines
- Produce rounded/fuzzy edges
- Extra materials needed to prevent excessive overspray

#### **Typical Applications**

- Marine and shipyard
- Off-shore
- Railcars and other transport vehicles
- Chemical and petrochemical plants
- Public works facilities
- Pulp and paper mills
- Nuclear and conventional power
- Facilities
- Pipeline
- Metals and mining

#### Materials

- Asphalt
- High solids epoxy primers and coatings
- Pulp and paper mills high solids
- Pulp and paper mills polyurethane coatings
- Pulp and paper mills waterborne coatings





# Airless Sprayer Series: GAS-POWERED

High capacity hydraulic pump Applicable up to giant **230** bar working fluid pressure and **11.5** liters/min flow rate



**Airless Spray Gun** 



includes:

Switch Tip and Guard

• Contractor Airless Spray Gun

• 3/8 in x 50 ft [9.5 mm x 15 m] Airless Hose

• 1/4 in x 3 ft [6.4 mm x .9 m] Whip Hose

WALKER is the perfect sprayer for the entry-level contractor who craves for maximum power in a compact, lightweight and mobile package





#### HONDA

**GX** Engine

delivers maximum performance

#### **Features**

- Honda OHV commercial-grade engine
- Horizontal shaft
- Electronic ignition/oil alert
- EPA/CARB compliant

Engine (Honda)	Model	Maximum Fluid Pressure	Maximum Volume Flow Rate	Max Tip Size
5.5 HP	CY-1150	230 bar	6.6 LPM	0.48"
11.5 HP	CY-1156	230 bar	11.5 LPM	0.58"

CY-1150 Walker Engine Power: 5.5HP Max. flow rate: 6.6 LPM



#### Choose your pump in two easy steps:

- 1. Select pressure and flow rate
- 2. Select power source
  - Air-operated
  - Gas-powered

#### **Compressor Size - Rule of Thumb**

- Approximate CFM = Pump Ratio x GPM
- Horsepower (Electric Compressor) = CFM/4

# **Airless Sprayer Selection**

#### **Airless Sprayer Series: PNEUMATIC**

CosmoStar airless sprayers offer highly reliable performance even in the harshest environment. The combination of extreme pressure ratio, high flow rate and rugged design make **HULK** 73:1 Airless Sprayer ideal for handling extreme viscous fluids. COSMOSTAR **HULK** 73:1 Airless Sprayer is the answer for your heavy-duty spray applications.

	Air Motor	Model	Maximum Fluid Pressure	Maximum Volume Flow Rate
73:1	Hulk (10 in)	CY-0116	360 Bar	11.0 LPM
65:1	Hulk (10 in)	CY-0115	360 Bar	12.0 LPM
45:1	Hulk (10 in)	CY-0110	360 Bar	15.0 LPM
30:1	Flash (7 in)	CY-0120	240 Bar	11.5 LPM
30:1	Compact (6 in)	CY-1300	240 Bar	4.0 LPM
23:1	Enco (4 in)	CY-1450	160 Bar	2.0 LPM







# Double Diaphragm Pump Sprayer

Ching-Yea provides double diaphragm pump spray set that applies fine finishing on metal and wood surfaces. Ching-Yea provides a more effective system to overcome limitations of the conventional spraying system.

#### HIGH QUALITY FINISH

Low pulsating system and precision regulator deliver a consistent spray pattern.

**EFFICIENT WORK** 

Steady control of air and material flow ensures minimum overspray thus save money.

ROBUST CONSTRUCTION

Stainless steel and aluminum double-diaphragm pump deliver a wide variety of fluids in the harshest environments.

Spraying stains, sealers, lacquers and top coats for:

- Wooden furniture and Cabinetry
- Timber framing for construction
- Customized lumber application

# Ching-Yea Double Diaphragm Pump Finishing Spray Unit

#### CY-0900-9 High Quality Finish **System**

High Quality Fine Finish, Quick Color Compact Change and Fast Material Refills Fluid Regulator, Fluid Filter, Agitator, Fluid Regulator, Agitator & Tank & Elevated Mount

#### CY-0900-5 Circulation and **Finish Spray System**

Circulation with Quality Finish Spray Package Tank

#### CY-0900 Diaphragm Pump Sprayer

High quality finish spray package for wood and metal applications Fluid Regulator & Paint Reservoir









# Air Spray Finishing Packages

#### Customize your own system as you like it.

We understand that different applications requires flexibly-adjustable system. **CosmoStar** sprayer comes with high flexibility of settings. Contact your local distributor and ask for a system that suits you.



COSMOSTAR CY-0900-9 is designed especially for customers who require better coating process. Application of coating regulator and accumulator provide excellent effect in terms of steady output pressure.





# Air Assisted Airless Sprayer



CY-1300AA 30:1 COMPACT Air-assisted Airless Sprayer

COSMOSTAR CY-1300AA
30:1 air-assisted airless
sprayer applies air-assisted
technology allows our
customer to spray with the
highest finishing quality,
speed and transfer
efficiency.

#### **Feature and Benefits**

- High quality finish
- Increase productivity
- Reduce paint material cost
- Easy maintenance
- Save time and money

#### **Typical Applications**

- Wood furniture
- Cabinetry finishing applications
- High quality finishing process
- General metal finishing applications



fluid regulator
Applying air-assisted
technology allows you to
spray with the best
finishing quality, more
speed and higher transfer
efficiency.

CY-0925 High Pressure Fluid Regulator



Air Regulator Set
Air hose from different
connector is no longer
needed as two air
regulators can be directly
connected to two airassisted guns.

CY-0925 High pressure

**Dual Air Regulators Set** 

CY-0927 3/8" High Pressure Filter Protects and improves the quality of air-assisted system, regulator and spray gun as well as

reducing pump pulsation.

High Pressure Filter



Filter	Air Assisted Gun
# 60, 100, 200	

#### **Specification**

Air Motor Diameter	6 in (COMPACT))
Pressure Ratio	30:1
Maximum Working Pressure	3600PSI (240Bar)
Maximum Air Input Pressure	120PSI (8Bar)
Maximum volume flow rates	4LPM
Air Inlet Size	3/8 or ¼ npt(f)
Fluid Inlet Size	3/4 npt(f)
High pressure fluid regulator	CY-0925
Maximum Spray Guns	2 guns



# Diaphragm pumps for chemical supply and transfer

#### Supply or transfer with ease!

Cosmostar Air-Operated Double Diaphragm pumps are ideal for bulk transfer of your solvent or water-based, low to medium viscosity inks and ingredients. They offer easy maintenance with an extremely reliable patented air valve for true non-sticking operation.



**CY-0906 1" DDP** Size: 1 in (25.4 mm) Max. flow rate: 175 LPM



**HE-0300 1" DDP**Size: 1 in (25.4 mm)
Max. flow rate: 133 LPM



Model	CY-0908	CY-0906	HE-0306
Material available	Aluminum	Aluminum	Stainless steel
Typical fluids handle	Chemicals, contaminated surface water, resins, latexes and paints.	Chemicals, contaminated surface water, resins, latexes and paints.	Chemicals, contaminated surface water, adhesives, Varnishes and stains, Resins and primers, inks

# CY-0903 3/4 " DDP Size: 3/4 in Max. flow rate: 120 LPM

**CY-0902 3/8" DDP** Size: 3/8in (9.5mm) Max. flow rate: 23 LPM



**HE-0302 3/8" DDP** Size: 3/8in (9.5mm) Max. flow rate: 23 LPM



Model	CY-0908	CY-0907	CY-0906 & HE-0306
Material available	Aluminum	Aluminum & stainless steel	Aluminum & stainless steel
Typical fluids handle	Chemicals, contaminated surface water, resins, latexes and paints.	Chemicals, contaminated surface water, resins, latexes and paints.	Chemicals, contaminated surface water, adhesives, Varnishes and stains, Resins and primers, inks

# COSMOSTAR

# **Pneumatic Transfer Pumps**

#### Pumping your highest volumes and viscosities!

With higher pump pressures and flow rates, CosmoStar priming piston pumps handle a broad range of inks with ease. They offer durability, power and reliability in any ink manufacturing or printing application.

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Pressure Ratio	Air Motor	Model	Air Inlet Pressure	Max. Operation Pressure	Max. Volume Flow Rate
20:1	Hulk (10 in)	CY-0168	8 BAR (116 PSI)	160 BAR (2320 PSI)	46 LPM
10:1	Hulk (10 in)	CY-0169	8 BAR (116 PSI)	80 BAR (1160 PSI)	60 LPM
12:1	Flash (7 in)	CY-0164	8 BAR (116 PSI)	96 BAR (1392 PSI)	40 LPM
10:1	Flash (7 in)	CY-0165	8 BAR (116 PSI)	80 BAR (1160 PSI)	46 LPM
5:1	Flash (7 in)	CY-0166	8 BAR (116 PSI)	40 BAR (580 PSI)	60 LPM

# **Compact 6 in/ Enco 4 in Air Motor Pneumatic Transfer pumps**

Compact 6 in/ Enco 4 in

#### **Typical Fluids Handled:**

- Solvent borne and waterborne fluids
- Resins
- Cleaning fluids
- High solid coatings

- High solids, plural component coatings
- Stains, lacquers and varnishes
- Acid-catalyzed materials



Pressure Ratio	Air Motor	Model	Air Inlet Pressure	Max. Operation Pressure	Max. Volume Flow Rate
30:1	Compact (6 in)	CY-1300-A	8 BAR (116 PSI)	240 BAR (3480 PSI)	4 LPM ( 1 GPM)
23:1	Enco (4 in)	CY-1450-A	8 BAR (116 PSI)	184 BAR (2668 PSI)	2 LPM (0.5 GPM)
10:1	Compact (6 in)	CY-1312	8 BAR (116 PSI)	80 BAR ( 1160 PSI)	10LPM (2.6 GPM)
7:1	Compact (6 in)	CY-1315	8 BAR (116 PSI)	56 BAR ( 812 PSI )	18 LPM ( 4.7 GPM)
5:1	Enco (4 in)	CY-1302	8 BAR (116 PSI)	40 BAR ( 580 PSI)	10 LPM (2.6 GPM)
5:1	Compact (6 in)	CY-0185	8 BAR (116 PSI)	40 BAR ( 580 PSI)	28 LPM (7.4 GPM)
3:1	Compact (6 in)	CY-0182	8 BAR (116 PSI)	24 BAR ( 348 PSI)	38 LPM (10 GPM)



# About COSMOSTAR

#### **EXPERIENCE • OUALITY • CARE**

Established in 1980, Ching-Yea has been a front runner among fluid handling equipments manufacturers in Taiwan. The key to our long success is exceptional experience, technical excellence and dependable customer service. Having obtained EN-ISO 9001:2008 certification, we maintain our high quality control through world class management.

Our products cover various areas of fluid handling applications including spray finishing, fluid agitating, sealant, lubrication, adhesives and large scale power application equipment for the contractor industry.

# Sales/ Distribution/ Service

#### **ASIA HEADQUARTER**

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How to contact us

Call us today for product information or demonstration inquiry or visit us at www.cosmo-star.net

Ching-Yea is registered to EN-ISO 9001:2008