

YELLOW BELLIED SUMP SUCKER™

*FILTER AND REMOVE SOLIDS
THOROUGHLY WITH
MINIMAL DOWNTIME*



FLUID RECYCLING EQUIPMENT

YELLOW BELLIED SUMP SUCKER™

FILTER AND REMOVE SOLIDS THOROUGHLY WITH MINIMAL DOWNTIME

EQUIPMENT THAT PAYS OFF.

Master Chemical Corporation's **XYBEX® Fluid Recycling Equipment** offers you fluid management solutions that can make all the difference to your bottom line.

Every metalworking plant faces the problem of how to clean machines thoroughly and effectively yet minimize the downtime for machine tools. If you want the job done right, nothing works better than the **XYBEX Yellow Bellied Sump Sucker™** (YBSS). With solid holding capacities to 5.3 cubic feet, and liquid capacities to 1,000 gallons, the YBSS can clean virtually any machine tool sump quickly and thoroughly.

THE YBSS IS FAST!

Machines are cleaned with a YBSS in a fraction of the time of other methods. So machine tools aren't idle for extended periods of time. Get your machines back up and running parts quickly with a YBSS!

Typical example: a cylindrical grinder sump with 120 U.S. gallons (454 liters) of coolant and 700 pounds (318 kilos) of sludge was completely cleaned, the coolant filtered, and returned to the sump in just ten minutes. That's fast!

GETTING THE JOB DONE RIGHT.

During the machine cleaning process, the YBSS removes coolant, sludge, and chips from the sump, then filters the sludge and chips from the coolant in the integral filter liner and returns filtered coolant back to the sump.

When the machine cleaning is complete, the chip basket is hoisted from the YBSS so that chips and sludge can be dumped from its remote-activated trap door.

A UNIT JUST RIGHT FOR YOUR NEEDS:

- > single compartments from 50 to 1,000 gallons
- > twin compartments from 40/40 to 500/500 gallons
- > tow units up to 1,000 gallon single or 500/500 gallon twin units
- > truck-mounted units up to 400 gallon single or 200/200 gallon twin units
- > push-around models up to 275 gallon single to 100/100 twin units

For large plants, the tow, truck-mounted, or push units would be suitable, as the sump sucker size is determined by the size and number of machine tool sumps in the plant.

There are 17 models, plus variations and options, so be sure to consult your Master Chemical Corporation distributor for help selecting the sump sucker best suited for your needs.

You can't afford NOT to clean your sumps with a Yellow Bellied Sump Sucker; have machines back up and running parts faster with a YBSS! (3-phase electric model shown on right)





FILTER AND REMOVE SOLIDS THOROUGHLY WITH MINIMAL DOWNTIME

BUILT TO PERFORM, BUILT TO LAST.

Our sturdy, dependable Yellow Bellied Sump Suckers are built XYBEX tough – for years of reliable, leak-free service.

YBSS COMMON FEATURES:

CHIP/SLUDGE BASKET

- > polypropylene reusable mesh basket liner filters to 50 microns
- > optional single-use paper basket liners filter to 20 microns (as for grinding)
- > solid steel “trap-door” bottom with positive locking bolt and our exclusive safety remote cable release
- > operator does not risk injury removing or emptying the basket
- > lid secured with our exclusive quick open/quick close toggle clamps
- > lid fitted with jam-resistant, smooth long-radius elbow suction inlet and 2” NPT suction valve

CHIP/SLUDGE BASKET CAPACITY

- > 3.5 ft.³ (0.10 m³) for these units: 65, 100, 40/40, 50/50 gal. (246, 380, 151/151, 190/190 l.)
 - > 5.3 ft.³ (0.15 m³) for these larger units: 175 and 275 gal. (660, 1000 l.)
- Chip baskets hold up to 800 lbs. (360 kg.)

TANK AND OVERFILL PROTECTION

- > positive-sealing, electric float rises with fluid level to monitor fill level
- > suctioning automatically stops when unit is full to prevent spills, leaks, or pump damage

HOSES

- > light, flexible, oil-resistant, and wire-reinforced for extra durability
- > suction hose is 2” ID
- > discharge hose is 1 1/2” ID

- > hose length is 10’ on smaller units, 15’ on larger units, and 25’ for truck-mounted units
- > rugged, lightweight gasoline-type discharge nozzle.
- > quick disconnects standard

CLEANING TOOLS

- > 2” x 36” hose-cleaning tool included
- > optional cleaning tools for 2” and 1 1/2” diam. hoses: crevice tools, curved tools, floor and hand gulpers, and floor squeegee

MANEUVERABILITY

- > “push-around” units are easily maneuverable
- > solid center-mounted main wheels and swivel end-mounted casters for low rolling resistance
- > forklift brackets built into units of 100 gal. and larger
- > optional tow packages available

Once the machine cleaning process is complete, the chip tower (shown below in cut away) can be hoisted from the YBSS so that chips and sludge can be dumped from the remote-activated trap door.



MOTOR-DRIVEN YBSS UNITS

Yellow Bellied Sump Suckers are available in gasoline or LP gas and are fitted with twin-cylinder, pressure-lubricated industrial engines. Engines are complete with ignition switch, gear-driven starter, alternator, hour meter and 12 volt battery.

Very dependable and needing very little maintenance, our 3-phase electric YBSS units are powered by heavy-duty TEFC drive motors. They feature reversing motor starters for suction and discharge operations.

YBSS units with LP gas engines feature a liquid withdrawal regulator for liquid or vapor withdrawal LP gas bottles. (LP gas bottles are not supplied.)

PUMP

High volume, positive displacement rotary vacuum/pressure air pump. (Liquid and solids are moved by the reduction or increase air pressure in the sump cleaner tank; the sump cleaner pump moves air only, not liquids or solids.)

Yellow Bellied Sump Suckers, the workhorses of the coolant industry, are available in a variety of configurations of YBSS for every operation. (LP unit shown on right).

TANK CAPACITIES AVAILABLE

"PUSH-AROUND" UNITS

- > single compartment:
100, 175, 275 gal.
(380, 660, 1000 l.)
- > dual compartment:
50/50, 100/100 gal.
(190/190, 380/380 l.)

"TOW-AROUND" UNITS

- > single compartment:
175, 275, 300, 400 gal.
(660, 1000, 1134, 1500 l.)
- > dual compartment:
100/100, 150/150, 200/200, 250/250 gal.
(380/380, 565/565, 750/750, 945/945 l.)
- > tow hitch included

INDUSTRIAL TRUCK-MOUNT UNITS

- > single compartment:
300, 400 gal. (1134, 1500 l.)
- > twin compartment:
150/150, 200/200 gal.
(565/565, 750/750 l.)

TANK ACCESS

- > quick on/off 12" diam. external, leakproof access port
- > 2" NPT drainhole on each compartment for 100-, 175-, and 100/100-gal. units

ELECTRICAL CONTROLS

NEMA 12 enclosure with

- > pushbuttons for "suction," "discharge" and "stop"
- > fused disconnect with door interlock

MOTORS

Powered by: 5 to 10 HP (3.7 to 7.5 kw)
230/460 volt, 3-phase TEFC
continuous-duty motor

Other voltages available by special order.

SPECIFICATIONS AND UTILITIES

Vacuum limit: 12" Hg.

(Factory preset vacuum relief valve)

Pressure limit: 5 psi

(Factory preset pressure relief valve)





120 VOLT AND 220 VOLT YELLOW BELLIED SUMP SUCKERS AND LI'L SUCKER UNITS

120- AND 220-VOLT ELECTRIC YBSS

The safety and convenience features of our standard sump suckers are also available in easy-to-use, powerful, virtually maintenance-free electric models for 120- or 220-volt operation. These sump cleaners perform close to our motor-driven models – with high suction rates for minimum machine downtime during coolant pumpouts and machine cleanings.

TANK CAPACITIES AVAILABLE

- > single compartment: 50 (LI'L SUCKER), 65, 100, 175 gal. (190, 246, 380, 660 l.)
- > twin compartment: 40/40, 50/50, 100/100 gal. (151/151, 190/190, 380/380 l.)

TANK ACCESS

- > quick on/off 12" diam. external, leakproof access port
- > 2" NPT drainhole on each compartment for 100-, 175-, and 100/100-gal. units

SPECIFICATIONS AND UTILITIES

Suction rate: average 85 GPM (320 LPM)
Discharge rate: up to 40 GPM (150 LPM)

ELECTRIC UNIT REQUIREMENTS

- 120 VAC, single phase, 50Hz/60Hz unit:
20 amp circuit
Running amp draw approx. 14 amps
(6 amps on 220 VAC)
- 220 VAC, single phase 50Hz/60Hz unit:
10 amp circuit
Running amp draw approx. 6 amps

LI'L SUCKER™

The smallest YBSS unit is the LI'L Sucker.™ With a 50-gallon, single compartment tank, the LI'L Sucker is an excellent addition to a smaller shop with limited floor space. The small push-around units include many of the same features of the larger units.

SPECIFICATIONS AND UTILITIES

- Suction rate: 85 GPM (320 LPM)
Discharge rate: 40 GPM (150 LPM)
Tank capacity: 50 gal. (190 l.)
Dimensions: 41" l x 21.5" w x 48.5" h
(104 cm x 55 cm x 123 cm)
Chip basket capacity: approx. 1.6 ft³ or 12 gal.
(45 dm³ or 45 l.)
Weight: 350 pounds (159 kg)

ELECTRIC UNIT REQUIREMENTS

- 120 VAC, single phase, 50Hz/60Hz unit:
20 amp circuit
Running amp draw approx. 14 amps
(6 amps on 220 VAC)
- 220 VAC, single phase 50Hz/60Hz unit:
10 amp circuit
Running amp draw approx. 6 amps

The 120 volt electric Yellow Bellied Sump Suckers produce high suction rates for minimal machine downtime.



The 50-gallon LI'L Sucker is available as a single-phase electric or air-venturi unit.



AIR VENTURI SYSTEMS

The performance, convenience and safety features of our standard XYBEX Yellow Bellied Sump Suckers are available in air-venturi models. These machines are easy to use and powerful, yet virtually maintenance-free. The air-venturi vacuum generator produces high suction rates for quick, efficient machine cleanouts and pumpouts.

The compact 50-gallon, air-venturi L'L SUCKER fits neatly where other units can't, yet cleans sumps quickly and effectively.

TANK CAPACITIES AVAILABLE

- > single compartment:
50 (L'L SUCKER), 65, 100, 175, 275 gal.
(190, 246, 380, 660, 1000 l.)
- > twin compartment:
40/40, 50/50, 100/100 gal.
(151/151, 190/190, 380/380 l.)
- > larger capacity units:
available by special order

PRESSURE DISCHARGE

- > factory-set pressure regulator and gauge for safely discharging filtered coolant back to the machine
- > additional pop-off safety valve for added protection

SPECIFICATIONS AND UTILITIES

Compressed air: 32-47 CFM @ 60-90 psi
(0.9-1.3 m³/minute @ 4.1-6.2 bar)

Air hose: 1/2" ID unrestricted min.

Air fittings: 1/2"

Suction rate: 110 GPM (420 LPM)

Vacuum: 13" Hg.

Discharge rate: 40 GPM (150 LPM)
@ 5 psi (0.36 bar)

Venturi housing: aluminum

All the features of our standard YBSS are available in easy-to-use, virtually maintenance-free, air-venturi units.





UNITS TO CLEAN INDIVIDUAL MACHINES

DRUM TOP SUMP CLEANER

The Drum Top Sump Cleaner air-venturi unit removes chips and fines and is an economical alternative to a dedicated sump cleaner. Many plants find the Drum Top Sump Cleaner handy for vacuuming chips and solids from the machine tool area and floor.

When used for fluids vacuuming, the unit should be mounted on an open-head drum with a side spigot for decanting the fluids. (If fluid and chips are vacuumed together, the fluid should be decanted first through the sidemount spigot, then the drum up-ended with an approved lifting device to remove chips.)

FEATURES

- > overflow protection mechanism
- > 2" diam. 10' suction hose
- > 2" diam. 36" cleaning tool
- > customized drum lid

The Drum Top Sump Cleaner converts an existing open top drum into a powerful machine tool cleaning system.



BENEFITS

- > operates on shop air
- > cost-effective removal of tramp oil as well as chips and fines
- > no moving parts

OPTIONS

Drum-dolly is available for ease of decanting fluid.

Note: drum not included.

SPECIFICATIONS AND UTILITIES

Air consumption: 32-47 CFM @ 60-90 psi
(0.9-1.3 m³/minute @ 4.1-6.2 bar)

Air hose: 1/2" ID unrestricted min.

Suction rate: 110 GPM (420 LPM)

Vacuum: 13" Hg.

Discharge rate: not applicable

Venturi housing: aluminum

The MCC Reversible LIQUI-VAC™ readily connects to a closed-head drum and is easy to use.



MCC REVERSIBLE LIQUI-VAC™

Another inexpensive air-venturi sump cleaning solution is the MCC Reversible LIQUI-VAC, which can fill a drum in just 90 seconds.

Though it operates much like the Drum Top Sump Cleaner, the LIQUI-VAC is NOT recommended for chip removal.

The recovered liquid can be capped and stored in the same drum, or a simple turn of the knob pressurizes the drum for discharge of the fluid into another drum.

FEATURES

- > 1" diam. 10' suction hose
- > 1" diam. 18" cleaning tool
- > drum standpipe adaptor and quick-disconnect
- > air-control valve and safety shutoff

BENEFITS

- > operates on shop air
- > attaches to bung on a standard drum
- > no moving parts

SPECIFICATIONS AND UTILITIES

Air supply: 1/4" NPT female connection, 125 psi (8.6 bar) max.

Air consumption: 19 CFM @ 80 psi
(538 LPM @ 5.6 bar)

Suction rate: 20-40 GPM (80-150 LPM)

Vacuum: 6.2"-7.6" Hg (157-196 mm Hg)

Discharge rate: 20-40 GPM (80-150 LPM)
@ 4-6 psi (0.28-0.42 bar)

Venturi housing: stainless steel

Committed Today for a Greener Tomorrow

Our corporation is committed to sustaining our natural resources, protecting our environment, and leaving a smaller footprint on the places we all call home. As a manufacturer of fluids and fluid recycling equipment, we are committed to promoting conservation in manufacturing and helping customers maximize productivity while minimizing waste. Just visit masterchemical.com and click on "Green Policy" to learn more about our commitment to environmental stewardship.



Cutting and Grinding Fluids that Lead the Industry

Master Chemical has been recognized for more than 60 years for its TRIM® family of metalworking fluids for all types of cutting and grinding operations. Known worldwide for superior performance, TRIM meets the demands of specialized industries such as automotive, aerospace, and medical parts manufacturers. For the full range of cutting and grinding applications for synthetics, semisynthetics, and soluble oils, TRIM products deliver longer tool and sump life, better finished parts, and a better bottom line.



CUTTING & GRINDING FLUIDS



CLEAN • COAT • PROTECT

Master STAGES: Products to Clean, Coat, and Protect

Master STAGES™ surface treatments include cleaners and corrosion inhibitors to keep you environmentally compliant, up and running at peak performance, and more profitable.

Have health and safety issues? High disposal costs? Need to prevent rust or clean lubricant from parts? Whatever your production problems and concerns, we have a performance-proven product sure to make the difference. The Master STAGES difference—the right solution for the job at the right price.

For prices or additional information on special units or special applications, contact your Master Chemical Corporation Distributor:



FLUID RECYCLING EQUIPMENT

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Specifications may change without notice in the interest of product improvements. Contact Master Chemical Corporation for full warranty details.

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