Mepaco

RELIABLE BY DESIGN



Equipment Catalog www.mepaco.net

Welcome to experience, application ingenuity and service support to drive your food processing goals.

Mepaco°

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Thank you for your interest in Mepaco® food processing equipment solutions.

The Mepaco® food processing equipment brand has been supporting processors for over 90 years. We are known for our formulating, cooking and blending equipment and systems.

In the past few years, we have been interviewing and surveying customers to learn how we can bring more value to our equipment and service. Your feedback has brought on a lot of initiatives to strengthen our partnerships.

- Investing in cooking and blending equipment offerings with test units and laying groundwork for a future test kitchen.
- Researching process solutions that solve unmet processing needs.
- Strengthening parts, maintenance and field service support by leveraging experienced technicians and creating a library of technical content.

Customers surveyed indicated that equipment quality and attention to food safety, sanitation efficiency, and personnel safety is the reason why they partner with Mepaco[®]. Application engineering that drives food processing goals and our continued service support, keeps customers coming back.

Mepaco® is part of the Apache Stainless Equipment Corporation family. Apache is a wholly owned ESOP (Employee Stock Ownership Plan), and is located in Beaver Dam, Wisconsin. We have a strong work-ethic, created by our rural roots and employee-owner culture.

We have a strategic team with tenured technical and engineering professionals working alongside technology-driven graduates to assure consistency and innovation with our products and services in the years to come.

Whether you are a long-time customer who is looking at equipment updates, or someone checking out our equipment and service solutions to solve a processing goal, welcome to Mepaco®!

The Mepaco® Team

INDUSTRIES

DAIRY

FRUITS/ VEGETABLES

> MEAT/ POULTRY

> > PET FOOD

PLANT BASED FOODS

PREPARED FOODS

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RELIABLE BY DESIGN

Reliability is the cornerstone that transcends our products and services. Great strides are taken to exceed expectations in performance, quality, workmanship, longevity, safety, sanitary design and overall value. Reliability must be realized by all who come in contact with products, services and team from Mepaco®.



Mepaco® has a test cooker for processors that have products or recipes that require cooking and blending trials.



Apache Stainless is adding capacity to passivation and electropolishing operations to satisfy an increase in demand for high-end food safe material finishes.



Coming soon, the Mepaco® portal provides equipment maintenance and installation videos, tech tips and preventative maintenance downloads.

THERMABIEND® COOKERS

The ThermaBlend[®] provides up to 50% more heat transfer area than conventional hemispherical kettle or other conventional jacketed cookers. The agitator design minimizes shear and the bidirectional scraper system minimizes burn-on, making these cookers a superior thermal processing solution.





ThermaBlend® cookers are engineered for multiple processes:

- Cooking
- Cooling
- Chilling
- Sautéing
- Blending



Single Ribbon



Dual-Ribbon



Patented, metal detectable scraper system showing coil spring design

Agitator Options

- Single and dual ribbon
- Paddles
- Split ribbons
- Thermal screws



Thermal Screw

MIXER-COOKERS

Mixer-Cookers are also a versatile thermal processing solution used in applications absent of burnon challenges. Mepaco®'s thermal processing solutions are modified to meet production goals.





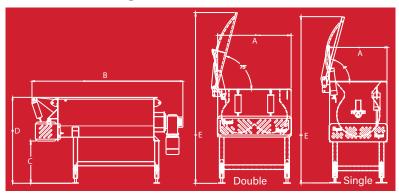
APPLICATION CUSTOMIZATION

- Reversing agitators with VFD speed control from 6 - 30 RPM
- Wrap around steam jacket,
 90 130 PSI with SS heat shields
- RTD probe with digital steam controller
- Hinged, air operated, domed gasketed cover
- Single or dual air-operated discharge doors
- Solenoid air valves control cover and discharge doors

- Direct or indirect steam injection
- Vacuum cooling package
- Electropolished interior finish
- Cryogenic cooling
- Direct steam injection
- Kettle valve options
- Serpentine liquid jacket
- CIP seal assemblies, spray balls

Controls

- NEMA 4x controls: recipe and batch
- Multistep control packages
- Heavy-duty drive upgrade
- Cooling water control package
- Dual zone steam jackets
- Load-cell weighing system
- Storage and data Acquisition
- HMI (Human Machine Interface)



THERMABLEND® COOKER

Specifications and Dimensions

All specifications are approximate and are subject to change pursuant to the application. Models range from 75 gallon capacity to 1000 gallons.

MODEL	0075 SGL	DBL	0100 SGL	DBL	0300 SGL	DBL	0500 SGL	DBL	0750 SGL	DBL	1000 SGL	DB
Capacity	75 gal	75 gal	100 gal	100 gal	300 gal	300 gal	500 gal	500 gal	750 gal	750 gal	1000 gal	1000 gal
Working	10 ft ³	10 ft ³	13 ft ³	13 ft ³	40 ft ³	40 ft ³	67 ft ³	67 ft ³	100 ft ³	100 ft ³	134 ft ³	134 ft ³
Volume	284 ltr	284 ltr	379 ltr	379 ltr	1136 ltr	1136 ltr	1893 ltr	1893 ltr	2839 ltr	2839 ltr	3785 ltr	3785 ltr
Heat Transfer Surface Area	13 ft ²	13 ft ²	23 ft ²	17 ft ²	41 ft ²	42 ft ²	56 ft ²	57 ft ²	73 ft ²	81 ft ²	92 ft ²	97 ft ²
Motor Size	3 hp	3 hp	3 hp	3 hp	7.5 hp	7.5 hp	10 hp	10 hp	15 hp	15 hp	20 hp	20 hp
(1 sgl, 2 dbl)	2.2 kw	2.2 kw	2.2 kw	2.2 kw	5.6 kw	5.6 kw	7.k kw	7.k kw	11.2 kw	11.2 kw	14.9 kw	14.9 kw
ELEC REQ	-	-	-	-	-	-	-	-	-	-	-	-
Volts AC	460/230	460/230	460/230	460/230	460/230	460/230	460/230	460/230	460/230	460/230	460/230	460/230
Phase	3	3	3	3	3	3	3	3	3	3	3	3
Hertz	60	60	60	60	60	60	60	60	60	60	60	60
Amps	9/18	9/18	9/18	9/18	22/44	22/44	27/54	27/54	38/76	38/76	52/104	52/104
A	28 in	58 in	32 in	58 in	46 in	68 in	53 in	74 in	59 in	84 in	65 in	84 in
Overall Width	71 cm	147 cm	81 cm	147 cm	117 cm	173 cm	135 cm	188 cm	150 cm	213 cm	165 cm	213 cm
B	74 in	97 in	92 in	113 in	114 in	120 in	130 in	155 in	138 in	168 in	158 in	192 in
Overall Length	188 cm	246 cm	234 cm	287 cm	290 cm	305 cm	330 cm	394 cm	350 cm	427 cm	401 cm	488 cm
C Discharge Height	30 in 76 cm	34 in 86 cm	34 in 86 cm	34 in 86 cm	34 in 86 cm	34 in 86 cm	34 in 86 cm					
D	60 in	59 in	65 in	59 in	80 in	68 in	92 in	76 in	100 in	78 in	108 in	78 in
Load Height	152 cm	150 cm	165 cm	150 cm	203 cm	173 cm	234 cm	193 cm	254 cm	198 cm	274 cm	198 cm
E	84 in	91 in	102 in	91 in	131 in	117 in	150 in	130 in	163 in	130 in	177 in	162 in
Overall Height	213 cm	231 cm	259 cm	231 cm	333 cm	297 cm	381 cm	330 cm	414 cm	330 cm	450 cm	411 cm

Mixing - Blending



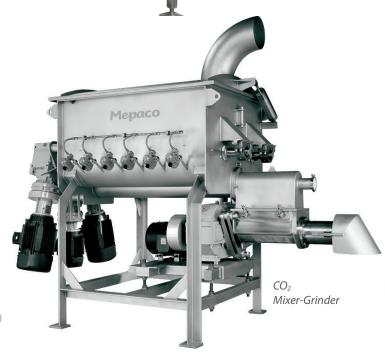


Vacuum Mixer - Blender

Designing sanitary and safe equipment is vitally important to the users of our equipment and consumers of the product produced in our mixer-blenders. Our engineers constantly innovate on even the smallest details to exceed our customer's sanitation efficiency and regulatory compliance goals.

times to maximize productivity goals.





VERSATILE OPTIONS & CONFIGURATIONS

Mixer-Grinders

Our Mixer-Blenders can be equipped as a Mixer-Grinder. With superior blending paired with a precision grinder, the Mixer-Blender can be adapted for small and large production demands.

Product Temperature Control

Code-stamped, ASME rated, high-pressure dimple or stay-bolt jackets (including heat shields) are available with direct or indirect steam options. Cooling jackets, insulation/cladding or injection systems (CO_2 or N_2) are also available with applicable solenoid controls, manifolds, injectors and exhaust covers.

Vacuum Sampling Systems

The optional sampling system quickly and systematically retrieves random samples from the product blend providing a safe and sanitary method for obtaining samples.



MIXING & BLENDING



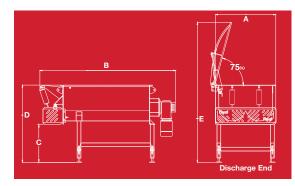
APPLICATION CUSTOMIZATION

- CO₂ or N₂ systems
- Direct or indirect steam injection
- Vacuum construction system
- Cover options: split, rear or side hinge, and slide
- Variable speed drives

- Vacuum cooling package
- Electropolished interior finish
- Cryogenic cooling
- Direct steam injection
- Kettle valve options
- CIP seal assemblies, spray balls

Controls

- NEMA 4x controls: recipe and batch
- Multistep control packages
- Heavy-duty drive upgrade
- Full temperature control
- Storage and data Acquisition
- HMI (Human Machine Interface)



MIXER-BLENDER

Specifications and Dimensions

All specifications are approximate and subject to change pursuant to the application. In most applications, Mixer-Blenders up to 160 ft³, are equipped with a solid agitator shaft, and those greater than 160 ft³ are outfitted with a hollow agitator shaft.

*Working capacities are based on an assumed product density of 50 lbs/ft³ and could vary.

WORKIN CAPACIT	G Y [*] lbs (kg)	WORKING Volume ft³ (L)	MOTOR SIZE x2 hp (kW)	A - OVERALL TUB WIDTH in (mm)	B - OVERALL TUB LENGTH in (mm)	C - DISCHARGE HEIGHT in (mm)	D - LOAD HEIGHT in (mm)	E-CLEARANCE Vacuum CVR in (mm)
50	(23)	1 (28)	1 (.75)	24 (610)	39 (991)	30 (762)	45 (1143)	65 (1651)
100	(45)	2 (57)	1 (.75)	27 (686)	51 (1295)	30 (762)	50 (1270)	81 (2057)
250	(113)	5 (142)	2 (1.5)	27 (686)	70 (1778)	30 (762)	50 (1270)	81 (2057)
500	(227)	10 (283)	3 (2.2)	38 (965)	70 (1778)	30 (762)	60 (1524)	101 (2564)
750	(340)	15 (425)	3 (2.2)	38 (965)	93 (2362)	30 (762)	60 (1524)	101 (2564)
1000	(454)	20 (566)	5 (3.7)	46 (1168)	88 (2235)	30 (762)	64 (1626)	114 (2896)
1500	(680)	30 (850)	5 (3.7)	46 (1168)	106 (2692)	30 (762)	64 (1626)	114 (2896)
2000	(907)	40 (1133)	7.5 (5.6)	54 (1372)	110 (2794)	30 (762)	69 (1753)	125 (3175)
2500	(1134)	50 (1416)	7.5 (5.6)	54 (1372)	122 (3099)	30 (762)	69 (1753)	125 (3175)
3000	(1361)	60 (1699)	10 (7.5)	54 (1372)	134 (3480)	34 (864)	73 (1854)	129 (3277)
4000	(1814)	80 (2265)	15 (11.2)	68 (1727)	129 (3277)	34 (864)	82 (2083)	152 (3861)
5000	(2268)	100 (2832)	20 (14.9)	68 (1727)	151 (3835)	34 (864)	82 (2083)	152 (3861)
6000	(2722)	120 (3398)	25 (18.6)	68 (1727)	166 (4216)	34 (864)	82 (2083)	152 (3861)
8000	(3629)	160 (4531)	30 (22.4)	78 (1981)	176 (4470)	34 (864)	90 (2286)	171 (4343)
10000	(4536)	200 (5663)	40 (29.8)	78 (1981)	201 (5105)	46 (1168)	102 (2591)	182 (4623)
12500	(5670)	250 (7079)	50 (37.3)	93 (2062)	202 (5131)	46 (1168)	110 (2794)	186 (4724)
15000	(6804)	300 (7620)	60 (45.76)	102 (2591)	202 (5131)	46 (1168)	114 (2896)	195 (4953)

Pump - Feeder with extended Safety Shields



Leveling Ribbon



Swing away pump mount with compression tube access cover removed



Electropolished food contact surfaces

PUMP-FEEDERS

Mepaco® pumping solutions provide an alternative material handling option to the traditional methods of dumping, screw or belt conveying.

Mepaco® Pump Feeders provide low-profile surge capacity where space is limited. Depending on the application, an optional leveling ribbon can be added to prevent bridging or recirculation of product.

The benefit of a Mepaco® Pump Feeder design is to provide a "first in – first out" product delivery to mitigate shear, temperature rise or other changes that would impact product integrity.

APPLICATION CUSTOMIZATION

- Single or dual agitators
- Heating or cooling jackets
- Insulation and cladding
- Vacuum construction system
- Cover options: split, rear or side hinge, and slide
- Variable speed drives
- Vacuum construction
- Vacuum cooling package
- Electropolished interior finish
- CIP seal assemblies, spray balls

Controls

- NEMA 4x controls: recipe and batch
- Multistep control packages
- Heavy-duty drive upgrade
- Full temperature control
- Storage and data Acquisition
- HMI (Human Machine Interface)



The PosiFlo Automatic Chub Feeder is a pump feeding unit that integrates with a variety of chub packaging systems.

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PUMPING

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VACUUM STUFFER

The Mepaco® Vacuum Stuffer is designed to pull and maintain full vacuum (29" Hq.) The stuffer gently agitates product in its vacuum chamber to expose more area to deaeration, which results in greater density and yield. It also prepares the product for gas or vacuum packaging with better color and shelf life.

Adaptable Feed Pressure

The speed of the metering pump is adaptable from 0 to 100% in order to maintain the set feed pressure for satisfying the demands of downstream devices.

Simple Operation and Control

The product continuously feeds through a Deaeration Enhancing Inlet Valve (DEIV) connected by 6" tubing to any upstream device. The inlet valve automatically opens and closes according to the level of product in the chamber. Product entering the vacuum chamber is deflected by the cone-shaped DEIV and is spread out to expose more area to vacuum.



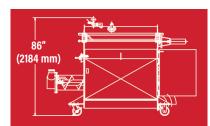
Vacuum Stuffer with Emulsifier

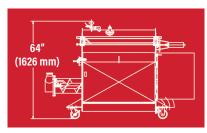


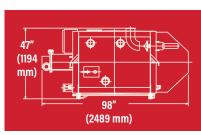
Onboard Vacuum Pump

Throughput

Product feed rate can be set for various operations. The metering pump will generate the required pressure needed to maintain the set feed rate within hydraulic drive parameters.







	SPECIFICATIONS
Size	Length: 98 inches (2489 mm) Width: 47 inches (1194 mm)
Height	Open Height: 86 inches (2184 mm) Closed Height: 64.38 inches (1626 mm)
Deaeration Chamber Capacity	24 cu ft (.68 cu m,) 1200 lbs (544 kg) nominal
Maximum Pressure	150 psi (10.34 bar)
Electric Power Unit	20 HP gearmotor on the feedscrew
Vacuum Pump	5 HP (3.7 kw)
Air Required	2 cu ft (.056 cu m) at 100 psi (6.89 bar) per cover opening
Outlet Size	3 inches (7.62 cm)

^{*}Maximum throughput dependent on product, screw type and drive.

STANDARD EQUIPMENT

- Power operated cover with 1.25" FPT vacuum fitting, Lexan view windows and safety interlock
- Onboard load sensing system
- Conductance style probe Hi/Lo level control
- Combination solid flight/paddle agitator
- 3" stainless steel feed pump
- Stainless hydraulic oil reservoir and base frame
- Large capacity hydraulic oil heat exchanger (water cooled)
- NEMA 4X control enclosure, 230/460 VAC, 3 phase,
- 115 VAC control package with Power On/Off and Feedscrew On/Off

APPLICATION CUSTOMIZATION

- Clean-in-place (CIP) spray ball / system
- Non-standard deaeration chamber size
- Installation supervision and start-up service
- Parts cart

LARGE CAPACITY DUMPERS

Mepaco® dumpers are all stainless and designed to comply with the strictest of sanitary design standards. Throughout our family of dumpers, we pay close attention to designing dumpers that are easily cleanable, reliable and safe.









CD1000 COLUMN DUMPER

- Left or right-handed
- Heavy-duty T304 Stainless Steel construction
- Access doors mounted on hinges with safety interlock
- Motor starter in a NEMA 4 enclosure
- Push button operator controls with e-stop
- 1 1/2 HP brake-motor (1.12kW)
- Lock-out/tag out equipped

- Nickel plated flange bearings
- Working capacity: 750 lbs. (340 Kg)
- Column height: CD1000-120" (305 cm) and CD1000-144 (366 cm)
- Standard discharge height: 60-96" (152-244 cm)
- 3/4" (19 mm) thick base plate
- Pickle passivated finish
- USDA approved
- Customized heights available
- Optional 60 degree dump angle



DP3000 PIVOT DUMPER HD3000 HIGH DUMPER LD3000 LIFT DUMPER





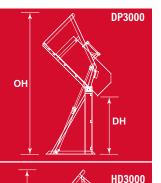


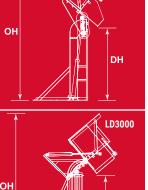
- Heavy-duty T304 Stainless Steel construction
- Nyloil bearings
- Manually adjustable combo/ container hold-down bar
- Dual hydraulic cylinders designed with counter-balance valves
- Flow divider
- Pickle passivated finish
- Side-load configurations available in DP and HD models only
- USDA approved

APPLICATION CUSTOMIZATION

- Pallet retention system (PRS) *DP and LD models only
- Combo/liner hold down
- Stainless cylinders
- Push-button controls
- Flashing beacon light
- Hydraulic power-pack (painted mild steel or stainless steel) cover and stand
- Safety side-shields
- Juice/product catcher
- Electropolished surfaces
- Alternative chute designs
- Portability packages
- Side-load configurations (DP & HD models only)
- Custom safety cages
- Custom carriages for non-standard containers

MODEL	FOOTPRINT	DISCHARGE Height (DH)	OVERALL HEIGHT (OH)	WEIGHT	REACH	CYCLE TIME 7.5 GPM / SEC.	CYCLE TIME 12 GPM / SEC.
DP3000-48	78"w x 66"d 198 cm x 168 cm	48" 122 cm	141" 358 cm	1913 lbs 868 kgs	9" 23 cm	55	35
DP3000-60	78"w x 66"d 198 cm x 168 cm	60" 152 cm	162" 411 cm	2032 lbs 922 kgs	9" 23 cm	64	40
DP3000-72	78"w x 66"d 198 cm x 168 cm	72" 183 cm	183" 465 cm	2165 lbs 982 kgs	9" 23 cm	74	46
DP3000-84	78"w x 66"d 198 cm x 168 cm	84" 213 cm	203" 516 cm	2287 lbs 1037 kgs	9" 23 cm	83	58
HD3000-84	78"w x 78"d 198 cm x 198 cm	84" 213 cm	172" 437 cm	2784 lbs 1263 kgs	15" 38 cm	64	40
HD3000-96	78"w x 78"d 198 cm x 198 cm	96" 244 cm	184" 467 cm	2894 lbs 1313 kgs	15" 38 cm	74	46
HD3000-108	78"w x 78"d 198 cm x 198 cm	108" 274 cm	196" 498 cm	3019 lbs 1369 kgs	15" 38 cm	83	52
LD3000-121	78"w x 78"d 198 cm x 198 cm	121" 307 cm	193" 490 cm	3430 lbs 1556 kgs	17" 43 cm	86	54
LD3000-139	78"w x 78"d 198 cm x 198 cm	139" 353 cm	212" 538 cm	3597 lbs 1632 kgs	17" 43 cm	95	59
LD3000-157	78"w x 78"d 198 cm x 198 cm	157" 399 cm	230" 584 cm	3765 lbs 1708 kgs	17" 43 cm	104	65
LD3000-175	78"w x 78"d 198 cm x 198 cm	175" 446 cm	249" 632 cm	3933 lbs 1784 kgs	17" 43 cm	112	70









Articulating Screw Conveyor

METERING SCREW CONVEYORS

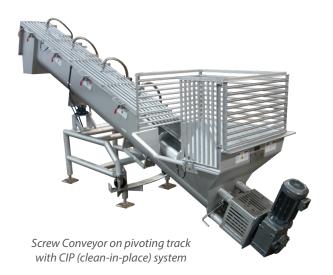
The Mepaco® line of Metering Screw Conveyor Systems offer a variety of configurations and capacities to allow efficient and effective product formulation. Systems are designed for full bulk product containment and rugged sanitation. Our engineers work with your production experts to examine all project parameters in order to design a system that minimizes space while maximizing flexibility for product formulations and production goals.



Surge Loading Metering Screw Conveyor with Hopper



Surge Loading Metering Screw Conveyor with Hopper



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APPLICATION CUSTOMIZATION

- Hopper Designs: Clean Sweep, Cross Screw or Center Bottom Screw
- Manual or pneumatically controlled safety grating
- Contoured, solid or domed grated covers
- Dual screws
- Insulation and cladding
- Thermal screws
- Load cells
- Single or dual agitators
- Bead blast, pickle passivated or electropolished surfaces
- Gear box mounting styles: Flange mount, shaft mount with torque arm, or chain and sprocket
- Pivoting screw, drop-down conveyor or rail system design
- Cut flighting for pre-breaking
- CIP / Sprayballs
- Heating or chilling jackets
- Reversing horizontal screws





Clean-Sweep



Cross - Screw



Center Bottom Screw

AUXILIARY EQUIPMENT

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SANITARY LIFTS

Mepaco® lifts are ergonomically designed and engineered to minimize lost-time injuries. Designed to USDA specifications, these lifts allow for clean-in-place processes. The EXL2500 and EZ4000 are stock units and are available for quick delivery. Portable and rotary top units are available.





EZL2500 shown in raised position

MODEL EZL2500

- Heavy-Duty T304 SS Construction
- Working Capacity: 2,500 Lbs (1,136 Kg)
- Platform Size:48" (122 cm) x 44" (112 cm)
- Raised Platform Height: 37 1/2" (95 cm) [42" (107 cm) w/Side Rails]
- Beveled Low-Profile Platform
- Relief Valve to Prevent Overloading
- Controlled Descent in Case of Electrical Failure
- Self-Contained Power Unit
- 115 Volt Single Phase Hydraulic Drive w/Power Unit (Remotely Mounted)
- Safety Up-Down Foot Pedal Control
- Narrow 2.5" (6.4 cm) wide sides for easy loading/ unloading
- Totally Enclosed Dual (Synchronized) Hydraulic Lift Cylinders
- Pickle Passivated Finish
- USDA Approved Design



EZL4000 shown with rotary top option

MODEL EZ4000

- Heavy-Duty T304 SS Construction
- Working Capacity: 4,000 Lbs (1,818 Kg)
- Platform Size: 48" (122 cm) x 42" (107 cm)
- Raised Platform Height: 37" (94 cm) [Lowered to 9" (23cm)]
- Relief Valve to Prevent Overloading
- Controlled Descent in Case of Electrical Failure
- Self-Contained Power Unit
- 115 Volt Single Phase Hydraulic Drive w/Power Unit (Integrally Mounted)
- Safety Up-Down Pendant Control
- Dual, Low Pressure Hydraulic Cylinders (White Epoxy)
- Pickle Passivated Finish
- USDA Approved Design

SANITREADTM

SaniTreadTM is all 304 stainless decking designed to eliminate food processing deposits and residue. It is suited for work platforms, walkways or stairs and can be welded, bolted or just set in place.

Evenly spaced holes are punched in 12 gauge stainless steel and raised above the surface to provide food traction in all directions. Drain holes are punched between raised holes, providing optimum safety and clean-ability.





CONTROLS

Mepaco® has in-house controls capabilites that provide the latest in software and device technology to bring the best results in your food processing systems.



TRANSPORT

Apache's air-ride tractor trailers are operated by conscientious employee-owners who take pride in careful and expedited cargo handling.



FIELD SERVICE

We are evolving our service team to provide quick response commissioning, training, repair support and maintenance and efficiency audits.

Why Mepaco

Our application engineering process starts with understanding the technical and operational goals of equipment and systems required by our food processing customers, and customizing proven solutions that ensure the customer's goals are successfuly met. Our equipment is robust and built for long-term service. We are committed to service resources and assistance for our customers for the life of the equipment.

www.mepaco.net



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