



H. C. DAVIS SONS Manufacturing Co., Inc.

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INDUSTRIAL MIXING EQUIPMENT

designed and built by the Davis family for four generations. We are dedicated to product quality, reliability, longevity and personal attention to each customer.

We realize that our future depends on satisfied customers.



Maximum Duty Model MD5

with optional foot mounted gear box and 25 H.P. Motor. Shown with protective guards removed.

We build mixers for a wide variety of applications:

- Plastics
- Soils & Sand
- Spices
- Chemicals
- Fertilizer
- Colorings
- Minerals
- Detergent
- Crumb rubber
- Rubber mulch
- Metal powders
- Food products
- Cementitious products
- Bird Seed & Grass Seed
- Fly & Bottom Ash
- Livestock Feed
- Drywall Compounds
- Sludge and Garbage

Davis mixers are built in five levels of construction to fit practically any mixing application. We will help you choose the correct model based on your specific requirements. The key factor to consider is the average bulk density of your mixture. However, flow characteristics are also extremely important. Ingredients that are sticky, stringy or wet will affect flow and cause the material to pull hard in the mixer. Material that is not completely free flowing may require more mixing volume, time and/or more power to properly mix. With our wide range of experience we can help to get the right size mixer with the right drive and agitator for your application.



Heavy Duty Model HD30

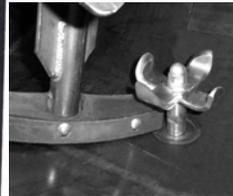
with optional shaft mounted gear box, high legs, roller knife gate with square to round adapter, and mechanical seals. Shown with protective guards removed.



Maximum Duty Model MD30

with 115 cubic feet of mixing capacity, high legs, foot mounted gear box, dimple jacket, 4 high speed choppers and mechanical seals. Shown with protective guards removed.

Below: High Speed Chopper blade inside mixer.



Ultimate Duty Model UD10

with 60 cubic feet of mixing capacity, high legs, basic double chain reduction drive, 2 high speed choppers and mechanical seals. Shown with protective guards removed.



We offer various drive options to suit each customer's application and budget. Triple speed reduction is required to reach the appropriate final speed recommended by Davis Manufacturing.

The options include:

- Basic Drive (V-belt – Chain – Chain)
- Shaft Mounted Gear Drive (V-belt - Gear – Gear)
- Foot Mounted Gear Drive (Gear – Gear - Chain)
- Direct Gear Drive (Gear – Gear – Gear)

Hours of service, Operating environment and desired maintenance schedule are some of the factors that must be considered when selecting the best drive for your application.

CHOOSE THE RIGHT BATCH MIXER FOR YOUR APPLICATION

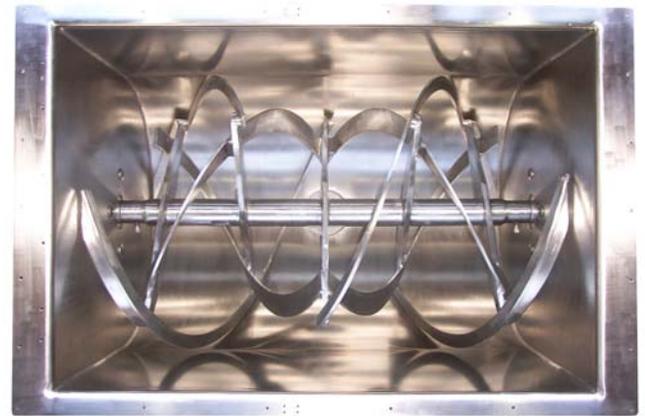
MIXING CAPACITY IN CUBIC FEET

LEVELS OF CONSTRUCTION	6	12	18	30	60	90	115	150	180	250	330	360	460	515	575
STANDARD DUTY for up to 35 pounds per cubic foot	S-1 1.5 HP	S-2 2 HP	S-3 2 HP	S-5 5 HP	S-10 10 HP	S-20 10 HP	S-30 15 HP	S-40 30 HP	S-60 40 HP	S-80 40 HP	S-100 50 HP	S-120 60 HP	S-140 75 HP	S-160 100 HP	S-200 125 HP
HEAVY DUTY for up to 50 pounds per cubic foot	HD-1 2 HP	HD-2 2 HP	HD-3 3 HP	HD-5 5 HP	HD-10 15 HP	HD-20 20 HP	HD-30 25 HP	HD-40 40 HP	HD-60 40 HP	HD-80 50 HP	HD-100 75 HP	HD-120 100 HP	N/A	N/A	N/A
SUPER DUTY for up to 70 pounds per cubic foot	SD-1 2 HP	SD-2 3 HP	SD-3 5 HP	SD-5 10 HP	SD-10 20 HP	SD-20 30 HP	SD-30 40 HP	SD-40 40 HP	SD-60 60 HP	SD-80 75 HP	SD-100 100 HP	N/A	N/A	N/A	N/A
ULTIMATE DUTY for up to 100 pounds per cubic foot	UD-1 3 HP	UD-2 10 HP	UD-3 10 HP	UD-5 15 HP	UD-10 30 HP	UD-20 40 HP	UD-30 50 HP	UD-40 75 HP	UD-60 100 HP	N/A	N/A	N/A	N/A	N/A	N/A
MAXIMUM DUTY for up to 150 pounds per cubic foot	MD-1 5 HP	MD-2 10 HP	MD-3 15 HP	MD-5 25 HP	MD-10 40 HP	MD-20 60 HP	MD-30 100 HP	MD-40 125 HP	N/A	N/A	N/A	N/A	N/A	N/A	N/A



Standard Duty Model S3

with 18 cubic feet of mixing capacity, built with Stainless Steel Construction, Double Ribbon Agitator, Shaft Mounted Gear box, and 2 H.P. motor.



EXCLUSIVE Davis Flat Paddle Agitator

Built for non free flowing sticky products. We designed the Flat Paddle Agitator for ease of cleaning.



Davis Mixers can be ordered with various lids and inlets depending upon the processing system that it needs to fit into. You can load the mixer from any type of conveying system (screw, belt, drag, pneumatic, bucket, etc). You can also load manually with a bag dumping station or with a front end loader. The lids can include vents to draw off dust or vapor. Davis Mixers can be equipped with one or more outlets and discharge into any type of conveying system, bagging system, surge hopper, etc. The outlet can be equipped with any type of gate including manual slide gate, drop bottom, plug gate, dust tight or liquid tight knife gate, butterfly valve, rotary air lock, iris valve, etc.



Super Duty Model 30

with 115 cubic feet of mixing capacity, high legs and electronic scale. Shown with protective guards removed.



Maximum Duty Model MD5

with 30 cubic feet of mixing capacity, high legs and Moyno Pump on outlet for filling pails. Shown with protective guards removed.



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Super Duty Model SD10
with 60 cubic feet of mixing capacity, foot mounted gear box, and 20 H.P. motor. Shown with protective guards removed.

We offer free test mixing of your products.

Super Duty Model SD10
with 60 cubic feet of mixing capacity, high legs, roller knife gate, shaft mounted gear box, and 20 H.P. motor. Shown with protective guards removed.



CHOOSE THE RIGHT CONTINUOUS MIXER FOR YOUR APPLICATION

Model #	TANK DIMENSIONS			MIXING VOLUME	MAXIMUM PRODUCTION CAPACITY	
	width	length	depth		4 min. avg. retention	3 min. avg. retention
CM-936	9"	36"	15"	1.3 cubic feet	19 cubic feet/hour	26 cubic feet/hour
CM-1248	12"	48"	18"	3 cubic feet	45 cubic feet/hour	60 cubic feet/hour
CM-1872	18"	72"	26"	10 cubic feet	150 cubic feet/hour	200 cubic feet/hour
CM-2496	24"	96"	32"	25 cubic feet	375 cubic feet/hour	500 cubic feet/hour
CM-32130	32"	130"	40"	60 cubic feet	900 cubic feet/hour	1200 cubic feet/hour
CM-41160	41"	160"	51"	120 cubic feet	1800 cubic feet/hour	2400 cubic feet/hour
CM-48196	48"	196"	60"	200 cubic feet	3000 cubic feet/hour	4000 cubic feet/hour
CM-51196	51"	196"	65"	225 cubic feet	3375 cubic feet/hour	4500 cubic feet/hour



CM-41196
with 147 cubic feet of mixing capacity high legs, foot mounted gear box with 40 H.P. and air cylinder on outlet. Shown with protective guards removed.

CM-1248
with 3 cubic feet of mixing capacity, shaft mounted gear box, and 3 H.P. motor.

