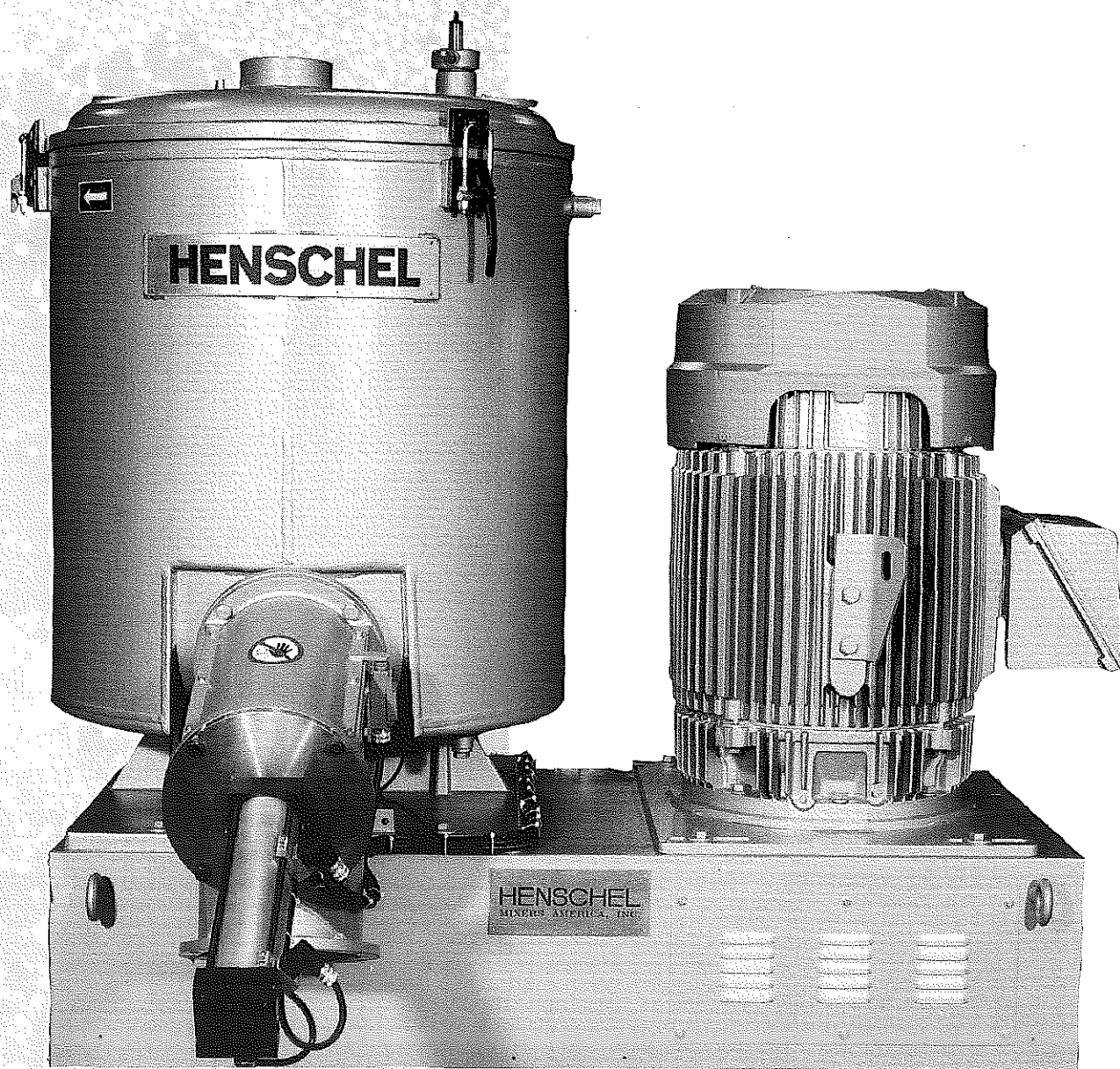


HENSCHEL FM Series High Intensity Mixer



HENSCHEL
MIXERS AMERICA, INC.

P.O. BOX 800607 • HOUSTON, TX 77280-0607
TELEPHONE: (713) 690-3333 • FAX: 713-690-3353

HENSCHEL FM Series High Intensity Mixer

The HENSCHEL FM Series High Intensity Mixer is the original high speed mixer and has been the standard of the industry since its development in 1954.

The HENSCHEL FM offers a fluidized vortex mixing pattern (see drawing). Fluidized mixing allows all particles to move freely regardless of size, density or coefficient of friction. Fluidization combined with a vortex flow pattern provides very fast cycle times. Typically a homogenized batch is obtained in less than 60 seconds.

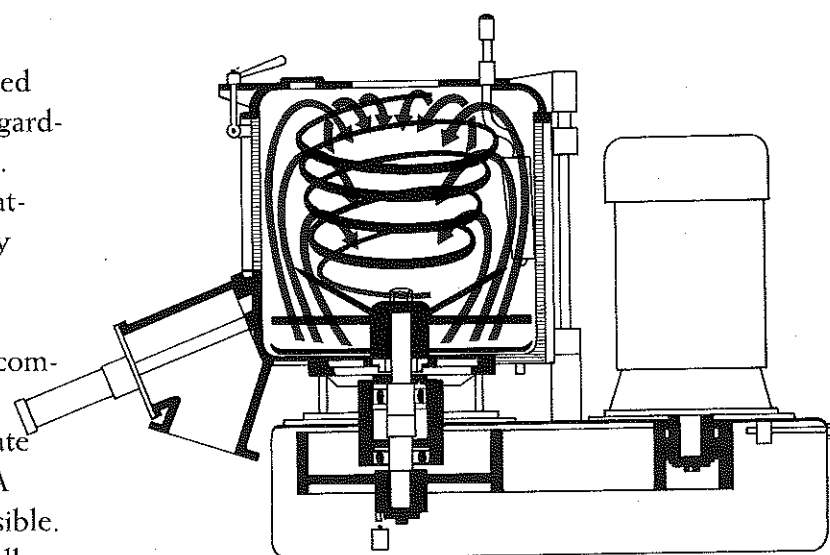
The high speed of the mixing blades accomplishes two other important tasks. First, the HENSCHEL has the ability to deagglomerate and disperse most additives and pigments. A certain amount of size reduction is also possible.

Second, the HENSCHEL can dramatically raise the temperature of the material being mixed. This is an important processing tool and can be controlled by the tip speed of the mixing blades and the jacket of the mixing vessel.

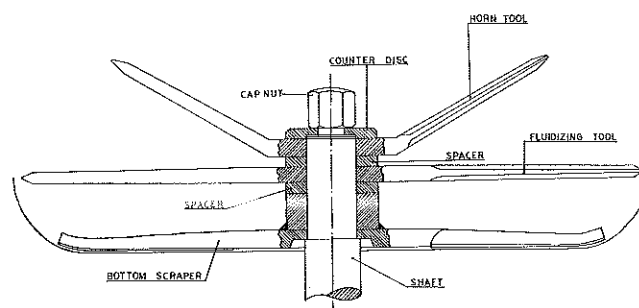
A variety of mixing tools are available for the HENSCHEL FM Series Mixer including special tools for pelletized material, water cooled tools, tools with sharpened edges, etc. However, the standard tools are extremely versatile (see drawing). They are of segmented design which allows a variable spacing to adjust the energy input into the batch. The energy can also be adjusted by adding mixing elements.

Because of the segmented design, the tools are easily removed, even in the largest mixer.

Cleanability is important in many HENSCHEL applications. The interior of the HENSCHEL FM is polished to a mirror finish. To further enhance cleanability, the mixer can be equipped with a swing away discharge gate and a removable deflector (see photo).



Vortex Flow Pattern



Standard Mixing Tool

Features

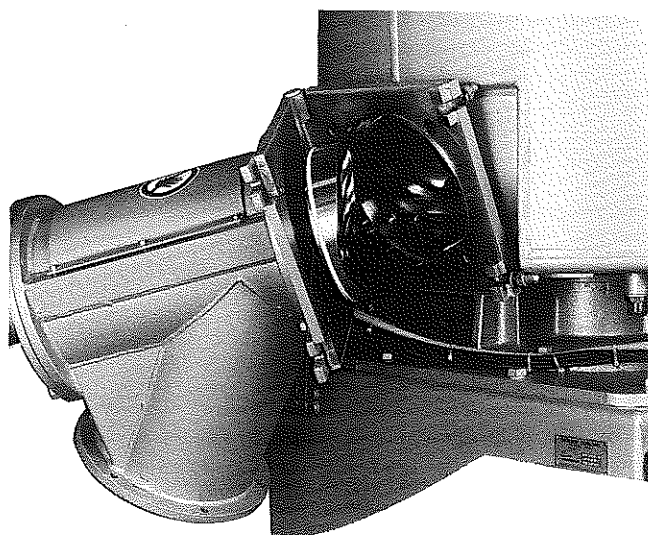
- Highly polished stainless steel interior
 - Prevents buildup on walls, easy cleanup
- Vortex flow pattern
 - Extremely efficient mixing
- Jacketed
- Variable mixing tools with hardened leading edge
 - Self-cleaning, wear resistant
- Low placed discharge gate with contoured face
 - Complete discharge
- Special heavy-duty AC motor
 - Long-lasting reliability
- Temperature monitoring



Removable Deflector

Options

- Hinged inspection door on discharge gate
- Swing away discharge gate (see photo)
- Multiple discharge gates
- Removable deflector (see photo)
- Variable speed drive
- Air purge seals
- Sintered rings
- Special tools available for polyolefins, venting, coloration, and a variety of specific mixing applications
- Vacuum construction



Swing Away Discharge Gate

HENSCHEL FM Series High Intensity Mixer

MODEL	TOTAL CAPACITY (LITERS/FT³)	WORKING CAPACITY (LITERS/FT³)	BATCH SIZE (KG/LBS.)	MOTOR SIZE (HP)
FM-4	4/1.4	3/1.0	1.5/3.2	2
FM-10	9/3	6/2	3/6.4	5
FM-40	40/1.4	32/1.1	15/32	10
FM-75	75/2.6	60/2.1	29/65	20/10
FM-200	200/7.0	160/5.6	81/180	50/25
FM-250	250/8.8	200/7.0	102/225	60/30
FM-350	350/12.4	280/9.9	142/315	100/50
FM-500	500/17.6	400/14.1	200/450	125/62.5
FM-600	600/21.2	480/17.0	245/540	150/75
FM-800	800/28.3	640/22.6	328/725	200/100
FM-1000	1000/35.3	800/28.2	408/900	250/125
FM-1200	1200/42.4	960/34.0	493/1088	300/150
FM-1500	1500/53.0	1200/42.4	617/1360	375/187.5
FM-2000	2000/70.6	1600/56.5	800/1800	500

Note: Working capacities are approximate and batch sizes given are based upon materials having a bulk density of 32 lbs./cu. ft. Actual batch sizes depend on materials being mixed.

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