



*Innovative technology  
results in larger loads  
driven by less energy*

### Features/Advantages

With Jeffrey Rader brand NFE Electromechanical Vibrating Feeders, burden and damping actually boost feeder performance because these feeders are precision tuned near their own natural frequencies. In other words, NFE feeders are “in tune” with the materials they carry.

These sub-resonant tuning characteristics ensure efficient material transference, promote quieter operation and reduce energy and maintenance costs.

#### Rugged Deck Design

A computer-designed deck with rugged drive structure handles large lumpy materials with greater reliability.

#### Exciter Assembly

The exciter assembly transmits vibrating forces to the deck pan, inducing conveying material action in materials. The assembly consists of a pair of vibration motors mounted onto an excitation weight stack. The exciter assembly is 100% maintenance free.

#### Rugged, vibration resistant spring retention

Easy and safe removal of springs without touching exciter assembly. Steel pre-compressed coupling drive springs ensure constant spring rates for greater operation stability. Steel springs feature a low damping coefficient, as well as consume less power compared with other types of drive springs.

#### Vibrating Motors

The vibrator motors are simple and reliable with lubed for life sealed bearings. The motors are 100% maintenance free.

#### Frequency Controls

Remote or local controllers, with automatic manual control circuits, enable plant PLCs to be used for batching and inventory control.

#### Minimum Drive, Maximum Load

Precision sub-resonant tuning drives large mass with minimal horsepower. The burden is critical to the design, and it can actually improve the performance of the unit. Burden has a mass effect and a dampening effect on the mechanical vibration system of the feeder.



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### Minimum Stroke Variation

Maximum stability under varying load requirements is the result of minimal stroke variances between empty and loaded conditions with a properly designed hopper. This stability has been achieved by engineering counteracting mass and damping effect into the system. Adjusting the exciter frequency creates a smooth, effective variation of capacity (conveying speed). A simultaneous increase or decrease of exciter frequency and stroke can be achieved by adjusting motor speed.

### Applications

- Aggregates
- Minerals
- Coal
- Industrial materials
- Various blending materials for steel manufacture

### Other Features

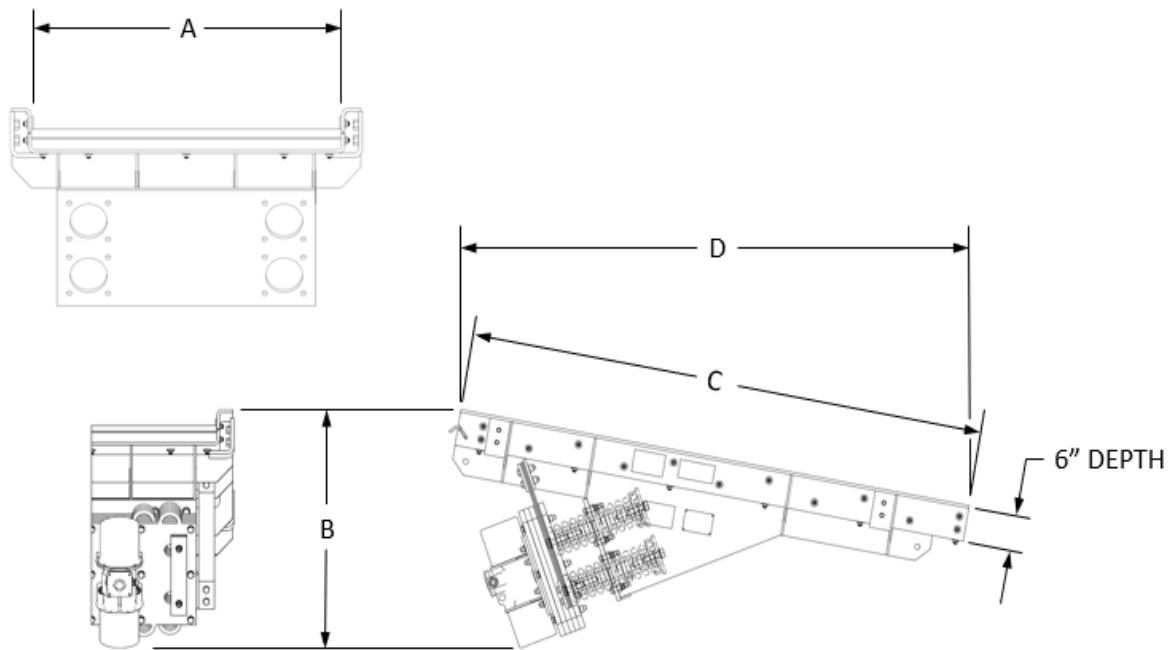
- Reduced energy cost
- CE compliant

### Feeder Capacities and Dimensions

Innovative design features allow for increased capacities. Smaller, more efficient feeders can be specified with systematic application of throat opening to deck length. Under these circumstances, TerraSource Global engineers can advise changes in hopper design for optimum performance.

Precisely matched hopper options are available.

### Dimensions and Weights



Example of standard sizes. Other sizes are available upon request. Contact TerraSource Global for details.

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APPROXIMATE LAYOUT DIMENSIONS\* AND SHIPPING WEIGHTS IN. (MM)

MODEL NO.	CAPACITY (STPH)	HP**	A (DECK WTH)	B (OVERALL HT)	C (DECK LG)	D (OVERALL LG)	LBS (KG)
NFE36072	750	3.0	36" (914)	40.7" (1035)	75.0" (1905)	84.8" (2154)	3010 (1365)
NFE42072	800	3.0	42" (1087)	40.4" (1025)	75.0" (1905)	83.7" (2127)	3083 (1398)
NFE48084	1000	3.0	48" (1219)	41.8" (1063)	87.0" (2210)	90.0" (2286)	4056 (1840)
NFE48096	1075	3.0	48" (1219)	43.4" (1102)	99.0" (2515)	97.5" (2476)	4766 (2162)
NFE54084	1175	3.0	54" (1372)	42.0" (1066)	87.0" (2210)	90.4" (2295)	4707 (2135)
NFE54096	1200	3.0	54" (1372)	43.1" (1095)	99.0" (2515)	97.5" (2476)	5083 (2306)
NFE60084	1350	3.0	60" (1524)	42.0" (1066)	87.0" (2210)	90.4" (2295)	5133 (2328)
NFE60096	1375	3.0	60" (1524)	43.4" (1102)	99.0" (2515)	97.5" (2476)	5800 (2631)
NFE66096	1550	4.8	66" (1676)	45.1" (1146)	99.0" (2515)	97.5" (2476)	6548 (2970)
NFE66108	1775	4.8	66" (1676)	46.9" (1192)	111.0" (2819)	109.3" (2777)	8422 (3820)
NFE72096	1925	4.8	72" (1829)	45.7" (1160)	99.0" (2515)	97.5" (2476)	8305 (3767)
NFE72108	1950	4.8	72" (1829)	47.1" (1195)	111.0" (2819)	109.3" (2777)	9176 (4162)
NFE72120	2175	4.8	72" (1829)	48.8" (1241)	123.0" (3124)	121.1" (3077)	11078 (5025)
NFE84108	2500	4.8	84" (2134)	47.5" (1207)	111.0" (2819)	109.3" (2777)	11917 (5405)

\*Certified drawings will be furnished for installation. Installation supervision is available. \*\*Steady state power consumption is lower than startup.



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