CRANEtrol
Products & Services

Pre Engineered Control Packages
Custom Control Packages
Magnetic Controls
Brake Controls
Retrofits & Upgrades
Rebuild Packages
Stand Alone Variable Frequency Drives
Dynamic Braking Resistors
Custom Drive Software
Automation Services
Radio Controls
Pendants
Festoon Systems
Conductor Bar Systems

VG7 Features:

- Multiple Programmable I/0
- Multiple Control Modes
  - 5-step
  - 3-step
  - 2 infinitely Variable Modes
  - Analog Control
- Microspeed
- Load Proportional Control
- 2 Zero Servo Modes
  - Load Float with Open Brake
  - Load Float with Closed Brake. Ideal for Magnet Cranes & permanent hook loads.
- Brake Monitoring Circuitry for enhanced safety (Load Catch®) Custom software available upon request
- COMPLETE PARAMETER SET STORED IN KEYPAD

- ***Many other standard features .....***
- UL, cUL, CE
- Designed for CMAA Class A-F
- V/F, Open Loop Vector, Closed Loop Vector
- Two Methods of Motor Auto-Tuning Static -Stationary Motor Tuning Dynamic -Spinning Motor Tune
- Built-in Dynamic Braking Module through 150HP
- 5-line LCD Keypad
- Speed control accuracy of ±0.005%
- Speed response of 100Hz
- Current response of 800Hz
- Torque control accuracy of ±3%
- Microsoft Windows driven inverter support software includes these functions, and **many more**:
  - Function list editing
  - Trial operation screen
  - Real-time trace
  - System monitor

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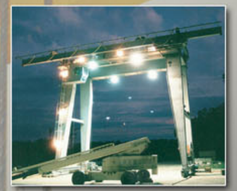
VG7 Variable Frequency Drive Sizes:

Larger Sizes Available Upon Request

Part Number	Ref. HP		Max. Amps
FRN3.7VG7S-4	5	5	9.0
FRN5.5VG7S-4	7.5	7	13.5
FRN7.5GVG7S-4	10	9.4	18.5
FRN11VG7S-4	15	14	24.5
FRN15VG7S-4	20	19	32.0
FRN18.5VG7S-4	25	24	39.0
FRN22VG7S-4	30	28	45.0
FRN30VG7S-4	40	38	60.0
FRN37VG7S-4	50	47	75.0
FRN45VG7S-4	60	57	91.0
FRN55VG7S-4	75	70	112.0
FRN75VG7S-4	100	93	150.0
FRN90VG7S-4	125	111	176.0
FRN110VG7S-4	150	136	210.0
FRN132VG7S-4	175	161	253.0
FRN160VG7S-4	200	196	304.0
FRN200VG7S-4	250	244	377.0
FRN220VG7S-4	300	267	415.0
FRN280VG7S-4	350	341	520.0
FRN315VG7S-4	400	383	585.0
FRN355VG7S-4	450	432	650.0
FRN400VG7S-4	500	488	740.0

Other PRODUCTS:

- **VIRGINIA CRANE®**
  - Overhead
  - Gantry
  - Stacker
- *FEATURE SERIES* HOISTS
- ENGINEERED SYSTEMS
- TRANSFER CARS
- TRANSFER TABLES
- LOCOMOTIVE TURNTABLES
- BELOW HOOK DEVICES



Foley Material Handling has built its reputation serving steel mills, railroads, shipyards and power companies.

FMH customers include the finest foundries, paper mills, steel distribution centers, aerospace and defense contractors, municipalities and general manufacturing companies.

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(804) 798 1343 - Fax (804) 798 7843

FOLEY
MATERIAL HANDLING Co., Inc.
EMPLOYEE OWNED

VALUE SERIES HOISTS, CRANEtrol, CRANEtrux

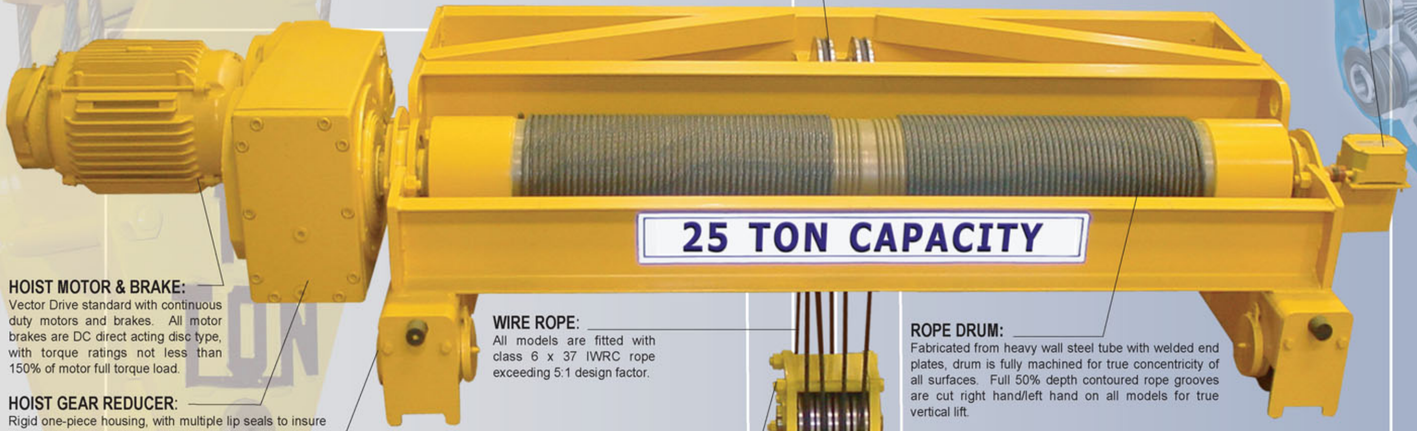
Value Series Hoists

Models in **5 TON** through **40 TON** capacity.
TRDG Trolley and Deck Mounting Styles.

All ratings in accordance with CMAA Class D Service requirements

CRANEtrux

CMAA Class D duty service rated.
Standard travel speeds up to 180 FPM.
Suitable for **Single Girder** and **Double Girder crane construction.**



UPPER SHEAVE NEST:
Upper idler sheaves are physically interchangeable with the lower block sheaves. Design provides a lift-out sheave assembly, accessible from above.

LIMIT SWITCHES:
All models are fitted with final upper weight limit and rotary upper & lower limits as standard. Trolley travel limits are available as optional equipment.

RAIL SWEEPS:
Supplied as standard to displace any loose obstructions along rails in crane travel path.

RUBBER BUMPERS:
Supplied as standard in accordance with CMAA 70-4.14.1

HOIST MOTOR & BRAKE:
Vector Drive standard with continuous duty motors and brakes. All motor brakes are DC direct acting disc type, with torque ratings not less than 150% of motor full torque load.

HOIST GEAR REDUCER:
Rigid one-piece housing, with multiple lip seals to insure against oil leakage. All gearing helical type, parallel shaft, hardened and finished up to AGMA class 13 standards.

TROLLEY WHEEL ASSEMBLY:
Wheel tread & flanges hardened to BHN 400-450. Direct drive rotating axle style, fitted with double row spherical roller bearings. Tubular truck frames line bored to insure proper wheel alignment.

TROLLEY HOIST FRAME:
All welded construction, braces and gusseted to insure proper permanent alignment of mechanical components.

CONTROLS (optional):
Flux vector hoist and variable frequency trolley drives standard, mounted & wired in NEMA 12 enclosure. Control enclosure assembly supplied trolley mounted or unmounted for installation on bridge—when unmounted trolley will be prewired to terminal box for incoming lead connections.

WIRE ROPE:
All models are fitted with class 6 x 37 IWRC rope exceeding 5:1 design factor.

LOAD BLOCK ASSEMBLY:
Forged steel load hook fitted with roller thrust bearing as standard, sized for full 5:1 design factor. Swinging trunnion facilitates engagement with lifting bails & load rings, etc. Steel sheaves with machined contour rope grooves are fitted with lifetime lubricated ball bearings, with thrust collars to maintain sheave positions on center, preventing contact with adjacent sheaves and/or block frame.

TROLLEY DRIVE:
Dual motor, direct drive is standard. All gearing is helical type, parallel shaft, hardened & finished up to AGMA class 13 standards. All gearing is enclosed in a one piece oil-tight housing with multiple lip seals to insure against oil leakage. All drives are equipped with direct acting DC disc brakes as standard.

ROPE DRUM:
Fabricated from heavy wall steel tube with welded end plates, drum is fully machined for true concentricity of all surfaces. Full 50% depth contoured rope grooves are cut right hand/left hand on all models for true vertical lift.

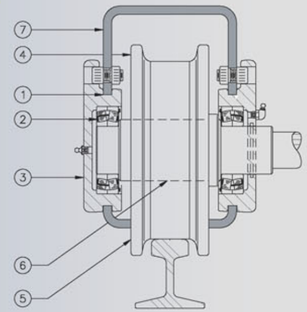
WHEEL ASSEMBLY:
Wheel tread & flanges hardened to BHN 400-450. Direct drive rotating axle style, fitted with double row spherical roller bearings. Tubular truck frames line bored to insure proper wheel alignment.

TUBULAR FRAME:
All welded construction, gusseted to insure proper permanent alignment of mechanical components.

TRUCK DRIVE:
Dual motor, direct drive is standard. All gearing is helical type, parallel shaft, hardened & finished up to AGMA class 13 standards. All gearing is enclosed in a one piece oil-tight housing with multiple lip seals to insure against oil leakage. All drives are equipped with direct acting DC disc brakes as standard.

OPTIONS AVAILABLE

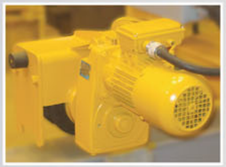
- Trolley wheel configurations in lieu of bridge wheels.
- Girder mounting kits.
- Optional travel speeds.
- Poly or hydraulic bumpers.
- Control Packages.



1. *Line bored bearing cap seats*
2. *Double row spherical roller bearings*
3. *Ductile Iron bearing housings*
4. *Flame hardened wheel tread and flanges - BHN 400-450*
5. *Tapered tread drive wheels on bridge trucks. Straight tread wheels on trolley trucks*
6. *Rotating axle design*
7. *Tubular frame*

WHEEL TREAD DIAMETER	RAIL SIZE / MAXIMUM WHEEL LOAD^					WHEELBASE RANGES AVAILABLE												
	30lb	40lb	60lb	85lb	135lb^^	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'
6	11200	13200																
8	14900	17600	18600															
10		22000	30800															
12		26400	37000		37800													
15			46200		49500													

^ Based on Kwl value = .85 (ref. CMAA 4.13.3.4)
^^ Crane rail classification, all others ref. ASCE listing



Larger Models available through 36" dia. wheels - Consult factory for details.