



# FHN Parallel Shaft Helical Speed Reducers with Integrated Power Lock

Universal compatibility with NEMA C-face motors, a hollow bore output, and a broad range of power and output torques support many industrial process applications.

The WorldWide Electric FHN Parallel Shaft Helical Speed Reducers use a helical gear design to reduce output speed (RPM) and increase torque for your applications, such as driving belt, screw and chain conveyors, presses, extruders, and gantry cranes.

**Power Lock & Retrofit Benefits** — The power lock removes the need for key alignment, reduces seizing and simplifies installation and removal. The NEMA quill input design allows you to replace a motor or gear reducer separately if either fails. The modular design allows drop-in replacement for most European-produced parallel speed reducers. The hollow bore allows direct connection to the shaft so a coupling is not required.

**Efficient, Strong, and Low Noise** — All housings are cast iron for increased strength and reliability. Precision machined, 20rMo alloy steel gears reduce stress and corrosion while providing efficient rotation and quieter operation. Heat-treated pinions and shafts provide durability.



## Quick Specs

- Ratios: 5:1 – 110:1
- Box sizes: 87 – 97
- Horsepower Range: 3/4 hp to 25 hp
- Housing: FCD45 Cast Iron



**Responsive**  
Service & Technical Support



**Quality Products**  
Competitive Pricing



**In Stock Availability**  
Warehouses Nationwide



**Fast Shipping**  
Same-Day Available

## Product Features

- All cast iron housing for unquestioned strength and reliability
- Precision machined gears for quieter operation and superior strength
- Flanges designed to accept NEMA C-face motors
- Drop-in compatibility with most major European-produced reducer brands
- Power lock bushing included
- Embedded, double-lipped seals on shafts and hubs keep oil in and contaminants out.
- Pre-filled with HD320 Mineral Oil for M1 mounting position
- Two year warranty

## Model Number Selection

Each model number contains the product family, box size, nominal ratio, and motor frame.

<b>FHN</b>	<b>87</b>	-	<b>45/1</b>	-	<b>H</b>	-	<b>145TC</b>	-	<b>PL</b>
Product Family	Box Size		Nominal Ratio				Motor		Power Lock

\*When selecting ration, replace colon wit slash. 40:1 becomes 40/1

## Available Models

Product Family	Box Size	Nominal Ratio	Motor Frame	Power Lock
FHN	87	7:1	145TC	PL
	97	7.5:1	182TC	
		10:1	182/4TC	
		15:1	213/5TC	
		20:1	254TC	
		30:1	254/6TC	
		45:1	284TC	
		50:1		
		60:1		
		65:1		
		70:1		
80:1				
100:1				
110:1				

### Solid Construction

All cast iron FCD-45 housing.

### Durable

A.G.M.A. 11 & 12 treated, SCM415 pinion gears.

### Smooth

Gears supported by generously sized precision ball and tapered bearings.

### Ships Ready

Prefilled with HD320 mineral oil for M1 mounting position.



### Sealed Enclosure

Embedded, double-lipped seals on shafts and hubs keep oil in and contaminants out.

### Adaptable

NEMA quill input supports standard C-face motors.

### Power Lock

Removes the need for key alignment, reduces seizing and simplifies installation and removal.

## Output Options and Accessories

### B5 Output Flange



### B14 Output Flange



WorldWide Electric Corporation is a leading manufacturer of electric motors, motor controls, gear reducers, and generators. Offering fast, often same-day, shipping from seven regional US warehouses, WorldWide Electric takes pride in providing a competitive edge to our customers by responding to their requirements with urgency, technical expertise, and professionalism.

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