

# Drive Solutions for Metals Processing



Parker's Electromechanical & Drives Division provides the latest in high performance AC & DC drives for new and retrofit applications. Parker solutions for the metals industry can be designed to your specific requirements by our authorized network of local systems integrators, or supplied as components to be integrated by OEM's with support from our applications team and authorized distributors.

## Manufacturing Applications:

**Breakdown Mills**

**Pilger Mills**

**Tube, Rod & Bar Mills**

**Slab and Billet Casting**

**Run-out Tables**

**Bar Straighteners**

**Cut to Length Lines**

**Uncoilers and recoilers**

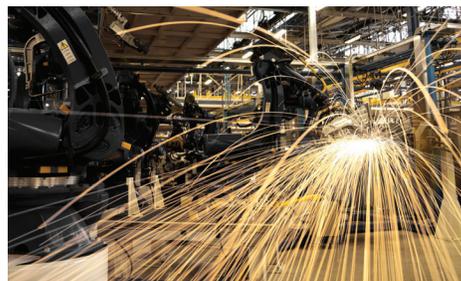
**Coil to Coil Reversing Mills**

**Material Handling**

Parker's 40+ years of industry experience in combination with our network of integration and distribution partners, both electrical and hydraulic, uniquely positions Parker as the complete source to the metals processing industry's motion and control needs.

Metals processing applications require precision speed, torque, tension and position control. Our DSE based solutions provides the flexibility and functionality for the most demanding applications including rotary shears and coil to coil reversing mills.

Our high performance, rugged and reliable solutions will help you increase up-time and deliver high quality products to your customers time after time.



## Finishing Applications:

**Strip Processing Lines**

**Coating, Pickling, Plating**

**Slitting, Edge Trimming**

**Rotary Shearing/Cut-to-Length**

**Hot and Cold Saws**

**Bridle Rolls**

**Controlled Coil Cars**

**Forming Rolls**

**Annealing Lines**

**Galvanizing Lines**



ENGINEERING YOUR SUCCESS.

# Digital AC or DC Drives...your choice.

## AC Drives to 1800 HP

- Volts/Hertz control
- Sensorless vector
- Flux vector with encoder
- Regenerative and active front end types



## DC Drives to 2000 HP

- High resolution analog I/O
- Regenerative and non-regenerative types
- Compact design
- Stack controller for SCR retrofit



# Peer-to-peer communications solutions

Parker has been the leader in peer to peer communications for high performance drive systems since the introduction of our **LINK** fiber optic network in 1988. Shortly after LINK, we launched our **DSD** (Drive System Designer) tools which were graphical, self-documenting, and intuitive. DSD included proven application function blocks and powerful diagnostics to make it easier to design and support complex drive systems. DSD became the standard by which other drive configuration tools were measured. In 2003, we launched **DSE**, an upgraded 32-bit version of the time proven DSD platform. DSE initially supported our AC890 series drives using Firewire 1394A peer to peer comms. In 2015, the power of DSE was extended to the DC590+ and AC690+ drive platforms by means of LINKnet option cards using CAT6 cable as the communications medium. LINKnet allows for both the upgrade of legacy LINK fiber optic networks and the design of new systems using the same DSE tools used with the AC890. In 2017 a **LINKnet** card was introduced for the AC890 allowing AC890 based systems to use either LINKnet CAT6 peer to peer or FireWire 1394A comms with no change in programming. It also allows AC890 drives to share a common network with DC590+ and AC690+ drives. Also in 2017, on-board LINKnet capability was added to the AC30V range of AC drives. With this addition, DSE may be used to design and support all of Parker's system drives on a single peer to peer network. Since LINKnet supports Ethernet/IP, DSE based systems using LINKnet may be interfaced directly to PLC's with Ethernet/IP capability (no interface or gateway devices required)

Parker's DSE platform for coordinated drive systems offers unparalleled flexibility.

For more information on Parker drives, please visit [parker.com/emdusa](http://parker.com/emdusa)

For more information on LINKnet, please visit [solutions.parker.com/linknet](http://solutions.parker.com/linknet)



All Parker systems drives use the same powerful, yet easy and intuitive to use software tools

## How Flexible is DSE?

- Supports FireWire1394A peer-to-peer on AC890 system and LINKnet CAT6 peer-to-peer on all Parker system drives including AC890
- Supports direct connection to Ethernet/IP capable PLCs
- Provides visualization platform choices by connecting directly to Parker's TS8000 series and XT series HMIs
- Supports a wide range of field bus communications via option cards
- Provides an upgrade path for legacy SSD LINK fiber optic based systems
- Retains the ease of use customers have come to enjoy while incorporating the latest features and enhanced diagnostics

## Parker Hannifin

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