

YESTERDAY'S INTEGRITY. TOMORROW'S TECHNOLOGY.

COIL REELS

Motorized Payout

Models: DR40, DR60, DR80



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AUTOMATION

 MADE IN THE U.S.A.

Models: DR40, DR60 & DR80

Motorized Payout

Standard Specifications:

Maximum coil weight.....	4,000 / 6,000 / 8,000 lbs.
Maximum coil width.....	12 / 18 / 24 / 30 / 36 inches
Maximum coil outer diameter.....	72 inches
Mandrel expansion range.....	15 5/8 – 21 1/2 inches

Standard Features:

- ■ Three pad mandrel assembly
- ■ Radiused mandrel pads for maximum coil ID surface contact
- ■ Link type expansion
- ■ Main spindle mounted pillow block bearings
- ■ Heavy duty welded steel cabinet made with 1/2" steel
- ■ Access holes and with covers
- ■ Front and rear adjustable keeper arms (6) with weight reducing bored holes.
- ■ Manual expansion of mandrel assembly via flip out expansion handle
- ■ Guard back plate – 30 Diameter
- ■ 72" Coil OD capacity
- ■ Outboard pressure regulator and gauges for all pneumatic functions (if applicable)
- ■ AC variable speed drive package with variable speed payout
- ■ Inverter duty AC motor and helical gearbox
- ■ Remote jog pendant with retractable coil cord
- ■ Fused disconnect
- ■ Variable speed loop control arm
- ■ Payoff direction (L-R or R-L)

Optional Features:

- ■ Laser loop control system
- ■ Air brake mounted on main spindle (holding brake)
- ■ Hydraulic expansion of mandrel assembly
- ■ Coil hold down arm with non-marking end wheel
- ■ Clock spring safety guard (protects isle from coil)
- ■ Coil width scales recessed into mandrel pads
- ■ Quick clamping coil keeper arms (6)
- ■ Full radius mandrel pads
- ■ Full OD back plate
- ■ Wedge-type expansion
- ■ Traveling coil load car

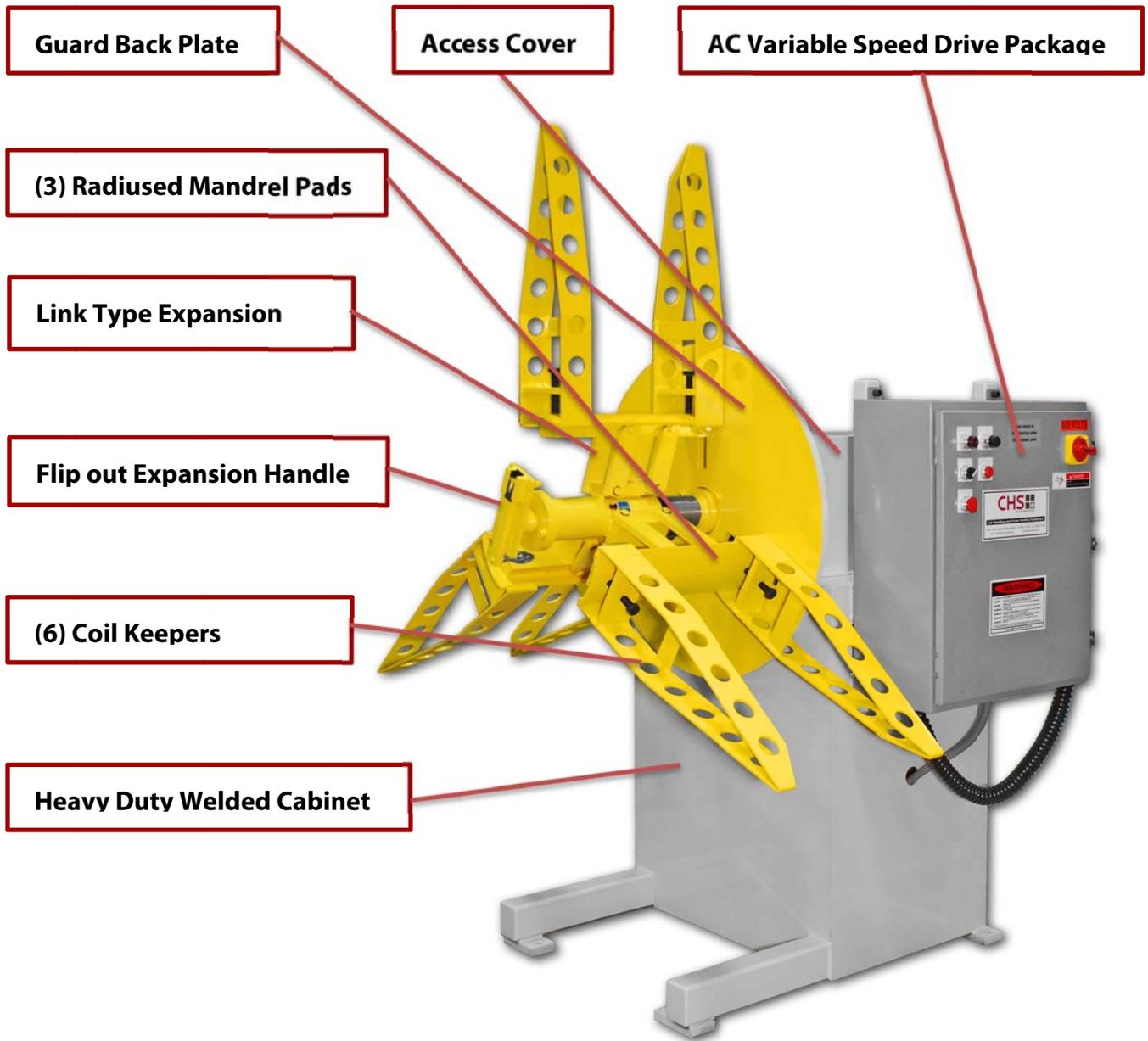
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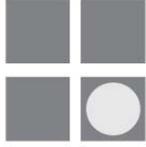
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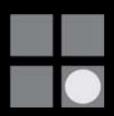
Standard Features

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Standard Feature Descriptions

Models DR40, DR60 & DR80

Three pad mandrel assembly

The three pad mandrel assembly allows for three points of contact of inter diameter of the coil and provides effective control.

Radiused mandrel pads

The radiused mandrel pads are designed to maximize coil ID surface contact, but small enough to allow space between the pad for coil loading with a coil hook or strap.

Main spindle mounted pillow block bearings

The spindle is mounted in two pillow block bearing. This arrangement provides greater radial and thrust load rating and provides long longevity when lubricated correctly.

Heavy duty welded steel cabinet made with ½" plate steel

The main cabinet base is made of heavy gauge welded steel to easily support the rated load capacities. Four mounting pads are provided for securing the machine to the floor.

Access holes and with covers

The cabinet is designed with access holes and covers allowing for proper maintenance access and while providing proper safety guarding.

Front and rear adjustable keeper arms (6)

Six coil keepers are provided as a standard with every reel and are designed with weight reducing holes. Hex head bolts allow for the keepers to be secured in place once they are slide into proper placement on the pads.

Manual expansion of mandrel assembly via flip out expansion handle

Mandrel pad expansion is accomplished through a bearing mounted screw assembly. The main crank arm flips outward to provide increased leverage. Crank arm folds inward to protect from incidental damage.

Outboard pressure regulator and gauges for all pneumatic functions

The pressure regulators and gauges are conveniently mounted for ease of adjustment and visibility.

AC variable speed drive package with variable speed payout

The AC drive variable speed control pays out stock at an adjustable rate of 0 to 15 rpm. Automatic payout rate is controlled by a control arm, which actuates and de-actuates the drive as required by the using equipment.

Inverter duty AC motor and helical gearbox

An inverter duty AC motor is attached to a helical gearbox which is mounted inside the cabinet base. The spindle is linked to the gearbox by a chain and sprockets.





 **Remote jog pendant with retractable coil cord**

A two button remote jog pendant is provided for threading and rewinding material. It's attached to a standard 15' long retractable curly cord.

 **Fused disconnect**

A fused disconnect is provided on the main electrical enclosure to meet various state, federal and local electrical codes

 **Variable speed loop control arm**

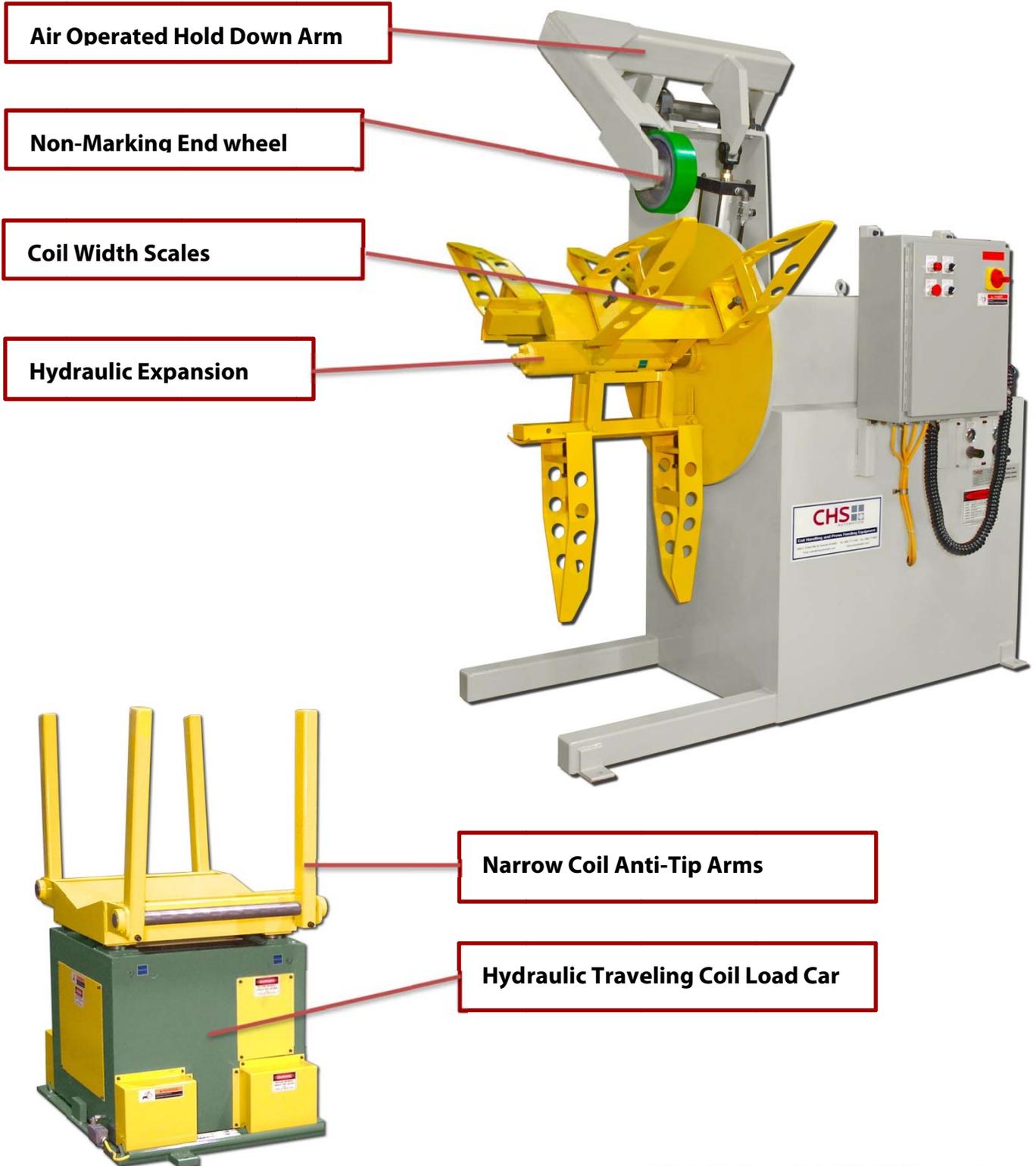
The variable speed loop control (arm type) is provided to accelerate or decelerate the mandrel on demand from the using equipment

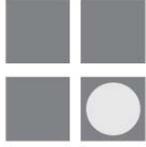
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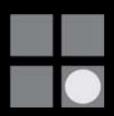
Optional Features

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Optional Feature Descriptions

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Laser Loop Control System

The laser loop control system is a stand mounted laser that is designed to be placed in the middle of loop space or the lowest point of the material that is in the loop. The sensor provides the variable speed drive with a 4-20 MA signal for variable speed payout and has a programmable high & low limit range. A second output on the laser can be used for a high limit, tight loop sensor which can disrupt the feed or press if desired.

Air brake mounted on main spindle

The air brake is mounted on the main spindle assembly is for holding the material in place when the drive is at 0 hz. A regulator will be mounted on the reel cabinet for adjusting the amount pressure required.

Hydraulic expansion of mandrel assembly

Support arms contract for ease of loading and expanding in the coil inter diameter. Expansion and contraction is accomplished through a hydraulic cylinder and draw rod arrangement that is controlled by a solenoid valve and selector switch.

Coil hold down arm with non-marking end wheel

An adjustable air or hydraulic operated hold down arm is actuated through a solenoid valve and selector switch on the control panel. The polyurethane coated end wheel is designed to assist in preventing the coil from clock springing without marking the material. The motorized end wheel facilitates power threading and aids in rewinding operations by providing tighter coil wraps.

Clock spring safety guard (protects isle from coil)

A clock spring guard prevents inadvertent contact with the rotating mandrel assembly. This reinforced guard is highly recommended when the coil reel is located in close proximity to an isle way.

Coil width scales recessed into mandrel pads

Measuring scales for centering the coil on the mandrel pads recessed for protection. They are designed to increase the efficiencies of loading and properly aligning the material during setup.

Quick clamping coil keepers (6)

The quick clamping feature decreases the amount of time it takes to properly stage a coil on the mandrel pads. It replaces the standard bolts with handled clamps that firmly hold and quickly release the keepers on the mandrel pads.

Full radius mandrel pads

Full radius pads are designed to give maximum contact in the inter diameter of the coil. This is feature prevents the triangulation of light gauge material or cored material.





Traveling coil load car

The traveling coil load car can be used for a pre-staged coil that travels in and via hydraulics and decreases the amount of loading deficiencies.



Narrow coil anti-tip arms

The ant-tip arms support narrow coils from tipping on the load car and are adjustable for various widths and swing out for larger coils.

