

**Coe Press Equipment Corporation**

# SpaceMaster Series 3 Compact Coil Lines



Coe Press SpaceMaster Series 3 Compact Coil Lines are designed to combine the 3 functions of unwinding, straightening, and feeding of coil stock into 1 machine. This compact arrangement provides optimum coil feeding efficiency with pilot release operation and saves valuable plant floorspace. The machine is rigidly mounted on a common machine base for maximum stability during the feeding process. The coil reel is driven by an AC inverter duty drive and motor. The combination feeder-straightener is driven by a closed loop digital servo drive and motor.

## STANDARD FEATURES

- Motorized Coil Reel for Payoff
- Inverter Duty AC Variable Speed Drive
- Heavy Duty Backplate Construction
- 64" Maximum Coil Outside Diameter
- Hydraulic Mandrel Expansion Feature
- Fail Safe Disk Brake for Clockspring Control
- Material Width Scales on Mandrel Pads
- Hydraulic Coil Hold Down Arm
- Motorized Endwheel for Coil Threading
- Variable Speed Drive for Endwheel
- Hydraulic Coil Hold Up for Threading
- Dual Roll Upper Coil Guide Assembly
- Electric Eye Type Loop Control
- Variable Speed Pay-off Operations
- Threading Assist Roll Assembly
- Threading Debender Roll Assembly
- Dual Roll Entrance Edge Guides
- Single Roll Exit Edge Guides
- +/- 1" Offset Feature for Edge Guides
- 3 Roll Catenary Support Section
- Heavy Duty Machine Cabinet Base
- +/- 4" Passline Height Adjustment
- Passline Adjusted by Screw Jacks
- 8 Straightener Rolls – 4 over 4
- Lower Straightener Rolls Power Driven
- Precision Spur Gear Drive Train
- Permanently Lubed and Sealed Bearings
- Worm Gear Adjustment of Upper Rolls
- Feed Rolls With #3 Matte Chrome Finish
- Full Width Upper and Lower Feed Rolls
- Yaskawa AC Servo Drive - Digital Control
- Desk Type Slant Top Control Enclosure
- Centralized Controls for Reel and Feeder
- ServoMaster Controller MMI



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## SpaceMaster Series 3 16•20•24•32

ITEM	SPECIFICATIONS			
MODEL	S3-16	S3-20	S3-24	S3-32
Max Coil Width	2.0" - 16.0"	2.0" - 20.0"	2.0" - 24.0"	2.0" - 32.0"
Max coil Thickness	.025" - .250"	.025" - .250"	.025" - .250"	.025" - .250"
Nominal Coil I.D.	20"	20"	20"	20"
Max Coil O.D.	64"	64"	64"	64"
Coil Weight	11,000 lbs.	11,000 lbs.	11,000 lbs.	15,000 lbs.
Feed Roller Dia.	5.7"	5.7"	5.7"	5.7"
Pinch Roller Dia.	4.4"	4.4"	4.4"	4.4"
Straightener Roller Dia.	3.5"	3.5"	3.5"	3.5"
Line Speed	60 feet/min	60 feet/min	60 feet/min	60 feet/min
Feed Motor	7.5kw	7.5kw	7.5kw	7.5kw
Uncoiler Motor	3.0kw	3.0kw	3.0kw	5.0kw
Mandrel Expansion	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Expansion Range	18.5" - 20.5"	18.5" - 20.5"	18.5" - 20.5"	18.5" - 20.5"
Air Pressure	70 psi	70 psi	70 psi	70 psi
Feed Level From Floor	tbd	tbd	tbd	tbd
Dimensions (L•W•H)	184" x 90" x 80"	184" x 94" x 80"	184" x 98" x 80"	184" x 106" x 80"
Machine Weight	11,700 lbs.	12,300 lbs.	13,600 lbs.	13,600 lbs.

## SpaceMaster Series 3 40•52•64

ITEM	SPECIFICATIONS		
MODEL	S3-40	S3-52	S3-64
Max Coil Width	2.0" - 40.0"	2.0" - 52.0"	2.0" - 64.0"
Max coil Thickness	.025" - .250"	.025" - .250"	.025" - .250"
Nominal Coil I.D.	20"	20"	20"
Max Coil O.D.	64"	64"	64"
Coil Weight	15,000 lbs.	20,000 lbs.	20,000 lbs.
Feed Roller Dia.	5.7"	5.7"	5.7"
Pinch Roller Dia.	4.4"	4.4"	4.4"
Straightener Roller Dia.	3.5"	3.5"	3.5"
Line Speed	60 feet/min	60 feet/min	60 feet/min
Feed Motor	11.0kw	15.0kw	15.0kw
Uncoiler Motor	5.0kw	5.0kw	5.0kw
Mandrel Expansion	Hydraulic	Hydraulic	Hydraulic
Expansion Range	18.5" - 20.5"	18.5" - 20.5"	18.5" - 20.5"
Air Pressure	70 psi	70 psi	70 psi
Feed Level From Floor	tbd	tbd	tbd
Dimensions (L•W•H)	184" x 114" x 80"	184" x 126" x 80"	184" x 138" x 80"
Machine Weight	15,400 lbs.	18,000 lbs.	20,000 lbs.

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## SpaceMaster Series 3 Compact Coil Lines

### FEEDING PERFORMANCE

FEED LENGTH	2"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"
Strokes/Min. 90°	61	45	37	32	28	25	22	20	19	17	16	15
Strokes/Min. 120°	81	60	50	43	37	33	30	27	25	23	21	20
Strokes/Min. 180°	122	90	75	64	56	50	45	41	37	34	32	30
Strokes/Min. 240°	163	120	99	85	75	66	60	54	50	46	43	40

**Note:** Feeding Performance shown for reference only. Consult factory for exact performance.

## SpaceMaster Series 3 16•20•24•32

### STRAIGHTENING CAPACITY

TYPE	S3-16	S3-20	S3-24	S3-32
COIL THICKNESS	COIL WIDTH	COIL WIDTH	COIL WIDTH	COIL WIDTH
.025" - .100"	16"	20"	24"	32"
.125"	16"	20"	24"	28"
.156"	16"	20"	22"	22"
.187"	14"	18"	20"	20"
.210"	12"	14"	14"	14"
.250"	10"	10"	10"	10"

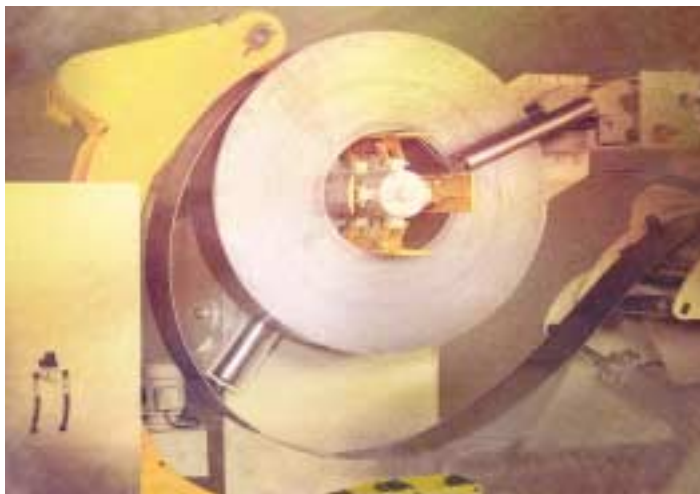
**Note:** Straightening Capacity may require optional drive sizes. Consult factory for exact capacity.

## SpaceMaster Series 3 40•52•64

### STRAIGHTENING CAPACITY

TYPE	S3-40	S3-52	S3-64
COIL THICKNESS	COIL WIDTH	COIL WIDTH	COIL WIDTH
.025" - .100"	40"	52"	64"
.125"	28"	30"	32"
.156"	22"	24"	26"
.187"	20"	20"	20"
.210"	14"	14"	14"
.250"	10"	10"	10"

**Note:** Straightening Capacity may require optional drive sizes. Consult factory for exact capacity.



### OPTIONS

- 460 Volt Step-down Transformer
- 72" Maximum Coil O.D.
- Hydraulic Traveling Coil Car
- 80 FPM Maximum Linespeed
- Special Expansion Range 19.5" - 24.5"
- Motorized Passline Height Adjustment
- Motorized Straightener Roll Adjustment
- Motorized Coil Guide Adjustment
- Increase Coil Weight Capacity to 15,000 lbs.
- Increase Coil Weight Capacity to 20,000 lbs.
- Increase Coil Weight Capacity to 30,000 lbs.
- Increase Feed Drive Size and Reduction

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