

CAPACITY AND RATING SPECIFICATIONS

STANDARD FEATURES

- 1045 Steel rolls machined to 63 micro inches
- Total hydraulic operation
- Instant start-stop-reverse
- Roll speed infinitely variable 0 to 22 FPM
- 2 Roll drive
- 3 Phase 230/460 Volts
- Electrics to NFPA-79 specifications
- 120 Volt Control Circuit
- Overload protected
- TEFC motor
- Quiet hydraulic system
- Haze gray epoxy and blue enamel finish (V.O.C. compliant)
- Sealed spherical roller bearings on all main points
- Rolls tilt for cone rolling
- Rolls driven through efficient spur gear drives or planetary speed reducers
- Dial pointer type roll position indicators
- Horizontal starting groove in pinch roll (Optional at no charge)
- Hydraulically actuated drop-end
- Accurately machined, compact, streamlined, all welded steel frame
- 1 year warranty
- Made in Liberty, KY, USA using components from American and worldwide companies

STANDARD OPTIONS

- Hardened and polished rolls 28-32 Rc. (4140 HT)
- Hardened and polished rolls 55-60 Rc. (1045 flame hardened)
- Other alloys and finishes are available , inquire
- Squaring grooves in lower rolls
- Circular grooves in rolls for rolling rods or sheets with wire edges 3/8, 1/2, and 5/8
- Other special circular grooves for extrusions etc.
- Forward & reverse guarded foot pedal for roll rotation
- Cone attachment
- Third roll drive
- Heavy duty cone attachment
- Side supports
- Overhead supports
- Ejectors
- DRO for roll position instead of dial pointer indicator (**Series 421**)
- Same as above on both ends of rolls (**Series 422**)
- DRO with 2-preset stops for roll position indicators and control (**Series 423**)
- Same as above with an additional DRO to show position of outboard end of roll (**Series 424**) useful for cone rolling
- DRO length indicator to show length rolled to facilitate forming of flat-radius-flat, ect. type workpiece (**Series L**)
- Same as above with 2 presets (**Series LP**)
- Same as above with 6 presets (**Series LP6**)
- Electric roving pendant control to replace manual valves on machine housing
- Moveable console electric control to replace manual valves on machine housing

Model	Rated Capacity	Capacity 12x Top Roll Dia.	Nominal Top Roll Dia.	Horsepower	Size L x W x H	Approximate Weight	Bar on Edge	Optional Capacity Angle
K-5-4	.164 x 4	5/16 x 4	5	3	82 x 23 x 35	1,627		
K-6-4	5/16 x 4	3/8 x 4	6	5	84 x 28 x 38	2,358	1-1/2 x 3/4	1-1/4 x 1-1/4 x 3/16
K-7-4	3/8 x 4	1/2 x 4	7	5	84 x 28 x 38	3,142	2 x 3/4	1-1/2 x 1-1/2 x 3/4
K-8-4	1/2 x 4	5/8 x 4	8	7.5	95 x 31 x 40	4,128	2-1/2 x 1	2 x 2 x 1/4
K-9-4	5/8 x 4	23/32 x 4	9	10	95 x 31 x 40	5,252	2-1/2 x 1	2-1/2 x 2-1/2 x 3/8
K-10-4	23/32 x 4	7/8 x 4	10	10	98 x 33 x 46	7,387	3 x 3	3 x 3 x 3/8
K-11-4	7/8 x 4	1-1/16 x 4	11	15	98 x 33 x 46	9,137	3 x 1-1/4	3-1/2 x 3-1/2 x 1/2
K-12-4	1-1/16 x 4	1-1/4 x 4	12	20	100 x 35 x 50	10,570	3-1/2 x 1-1/2	4 x 4 x 1/2
K-13-4	1-1/4 x 4	1-7/16 x 4	13	25	100 x 35 x 50	12,465	4 x 1-1/2	4 x 4 x 1/2
K-14-4	1-7/16 x 4	1-5/8 x 4	14	40	108 x 60 x 66	15,588	4-1/2 x 1-3/4	4 x 4 x 1/2
K-15-4	1-5/8 x 4	1-3/4 x 4	15	50	108 x 60 x 66	18,300	5 x 2-1/2	4 x 4 x 1/2
K-16-4	1-3/4 x 4	2 x 4	16	50	111 x 64 x 68	20,078	5 x 2-1/2	5 x 5 x 1/2*
K-17-4	2 x 4	2-1/4 x 4	17	60	111 x 64 x 68	23,052	5 x 3	5 x 5 x 1/2*
K-18-4	2-1/4 x 4	2-1/2 x 4	18	60	123 x 72 x 78	25,835	6 x 2-1/2	6 x 6 x 3/4*
K-19-4	2-1/2 x 4	2-3/4 x 4	19	75	123 x 72 x 78	28,952	6 x 3	6 x 6 x 3/4*
K-5-5	.135 x 5	1/4 x 5	5	3	94 x 23 x 35	1,902		
K-6-5	1/4 x 5	5/16 x 5	6	5	96 x 28 x 38	2,757	1-1/2 x 3/4	1-1/4 x 1-1/4 x 3/16
K-7-5	5/16 x 5	3/8 x 5	7	5	96 x 28 x 38	3,672	2 x 3/4	1-1/2 x 1-1/2 x 3/4
K-8-5	3/8 x 5	1/2 x 5	8	7.5	107 x 31 x 40	4,825	2-1/2 x 1	2 x 2 1/4
K-9-5	1/2 x 5	5/8 x 5	9	10	107 x 31 x 40	6,137	2-1/2 x 1	2-1/2 x 2-1/2 x 3/8
K-10-5	5/8 x 5	23/32 x 5	10	10	110 x 33 x 46	8,463	3 x 1	3 x 3 x 3/8
K-11-5	23/32 x 5	7/8 x 5	11	15	110 x 33 x 46	10,468	3 x 1-1/4	3-1/2 x 3-1/2 x 1/2
K-12-5	7/8 x 5	1-1/16 x 5	12	20	112 x 35 x 50	12,112	3-1/2 x 1-1/2	4 x 4 x 1/2
K-13-5	1-1/16 x 5	1-1/4 x 5	13	25	112 x 35 x 50	14,283	4 x 1-1/2	4 x 4 x 1/2
K-14-5	1-1/4 x 5	1-7/16 x 5	14	40	120 x 60 x 66	17,565	4-1/2 x 1-3/4	4 x 4 x 1/2
K-15-5	1-7/16 x 5	1-5/8 x 5	15	50	120 x 60 x 66	20,818	5 x 2-1/2	4 x 4 x 1/2
K-16-5	1-5/8 x 5	1-3/4 x 5	16	50	123 x 64 x 68	22,828	5 x 2-1/2	5 x 5 x 1/2*
K-17-5	1-3/4 x 5	2 x 5	17	60	123 x 64 x 68	26,215	5 x 3	5 x 5 x 1/2*
K-18-5	2 x 5	2-3/16 x 5	18	60	135 x 72 x 78	29,380	6 x 2-1/2	5 x 6 x 3/4*
K-19-5	2-3/16 x 5	2-1/4 x 5	19	75	135 x 72 x 78	32,923	6 x 3	6 x 6 x 3/4*
K-5-6	.104 x 6	7/32 x 6	5	3	106 x 23 x 35	2,177		
K-6-6	7/32 x 6	9/32 x 6	6	5	108 x 28 x 38	3,155	1-1/2 x 3/4	1-1/4 x 1-1/4 x 3/16
K-7-6	9/32 x 6	3/8 x 6	7	5	108 x 28 x 38	4,200	2 x 3/4	1-1/2 x 1-1/2 x 3/4
K-8-6	3/8 x 6	7/16 x 6	8	7.5	119 x 31 x 40	5,522	2-1/2 x 1	2 x 2 x 1/4
K-9-6	7/16 x 6	9/16 x 6	9	10	119 x 31 x 40	7,022	2-1/2 x 1	2-1/2 x 2-1/2 x 3/8
K-10-6	9/16 x 6	11/16 x 6	10	10	122 x 33 x 46	9,540	3 x 1	3 x 3 x 3/8
K-11-6	11/16 x 6	13/16 x 6	11	15	122 x 33 x 46	11,802	3 x 1-1/4	3-1/2 x 3-1/2 x 1/2
K-12-6	13/16 x 6	1 x 6	12	20	124 x 35 x 50	13,653	3-1/2 x 1-1/2	4 x 4 x 1/2
K-13-6	1 x 6	1-1/8 x 6	13	25	124 x 35 x 50	16,100	4 x 1-1/2	4 x 4 x 1/2
K-14-6	1-1/8 x 6	1-1/4 x 6	14	40	132 x 60 x 66	19,682	4-1/2 x 1-3/4	4 x 4 x 1/2
K-15-6	1-1/4 x 6	1-3/8 x 6	15	50	132 x 60 x 66	23,335	5 x 2-1/2	4 x 4 x 1/2
K-16-6	1-3/8 x 6	1-1/2 x 6	16	50	135 x 64 x 68	25,582	5 x 2-1/2	5 x 5 x 1/2*
K-17-6	1-1/2 x 6	1-5/8 x 6	17	60	135 x 64 x 68	29,378	5 x 3	5 x 5 x 1/2*
K-18-6	1-5/8 x 6	1-3/4 x 6	18	60	147 x 72 x 78	32,922	6 x 2-1/2	6 x 6 x 3/4*
K-19-6	1-3/4 x 6	2 x 6	19	75	147 x 72 x 78	36,897	6 x 3	6 x 6 x 3/4*

Model	Rated Capacity	Capacity 12x Top Roll Dia	Nominal Top Roll Diameter	Horse-power	Size L x W x H	Approximate Weight	Bar on Edge	Capacity Angle
K-5-8	.060 x 8	.140 x 8	5	3	130 x 23 x 35	2,727		
K-6-8	.140 x 8	3/16 x 8	6	5	132 x 28 x 38	3,948	1-1/2 x 3/4	1-1/4 x 1-1/4 x 3/16
K-7-8	3/16 x 8	1/4 x 8	7	5	132 x 28 x 38	5,258	2 x 3/4	1-1/2 x 1-1/2 x 1/4
K-8-8	1/4 x 8	5/16 x 8	8	7.5	143 x 31 x 40	6,915	2-1/2 x 1	2 x 2 x 1/4
K-9-8	5/16 x 8	13/32 x 8	9	10	143 x 31 x 40	8,795	2-1/2 x 1	2-1/2 x 2-1/2 x 3/8
K-10-8	13/32 x 8	33/64 x 8	10	10	146 x 33 x 46	11,695	3 x 1	3 x 3 x 3/8
K-11-8	33/64 x 8	5/8 x 8	11	15	146 x 33 x 46	14,468	3 x 1-1/4	3-1/2 x 3-1/2 x 1/2
K-12-8	5/8 x 8	47/64 x 8	12	20	148 x 35 x 50	16,735	3-1/2 x 1-1/2	4 x 4 x 1/2
K-13-8	47/64 x 8	55/64 x 8	13	25	148 x 35 x 50	19,737	4 x 1-1/2	4 x 4 x 1/2
K-14-8	55/64 x 8	63/64 x 8	14	40	156 x 60 x 66	22,983	4-1/2 x 1-3/4	4 x 4 x 1/2
K-15-8	63/64 x 8	1-7/64 x 8	15	50	156 x 60 x 66	27,255	5 x 2-1/2	4 x 4 x 1/2
K-16-8	1-7/64 x 8	1-17/64 x 8	16	50	159 x 64 x 68	29,868	5 x 2-1/2	5 x 5 x 1/2*
K-17-8	1-17/64 x 8	1-27/64 x 8	17	60	159 x 64 x 68	34,308	5 x 3	5 x 5 x 1/2*
K-18-8	1-27/64 x 8	1-37/64 x 8	18	60	171 x 72 x 78	38,450	6 x 2-1/2	6 x 6 x 3/4*
K-19-8	1-37/64 x 8	1-47/64 x 8	19	75	171 x 72 x 78	43,097	6 x 3	6 x 6 x 3/4*
K-5-10	.048 x 10	.094 x 10	5	3	154 x 23 x 35	3,275		
K-6-10	.094 x 10	.125 x 10	6	5	156 x 28 x 38	4,745	1-1/2 x 3/4	1-1/4 x 1-1/4 x 3/16
K-7-10	.125 x 10	11/64 x 10	7	5	156 x 28 x 38	6,317	2 x 3/4	1-1/2 x 1-1/2 x 1/4
K-8-10	11/64 x 10	15/64 x 10	8	7.5	167 x 31 x 40	8,592	2-1/2 x 1	2 x 2 1/4
K-9-10	15/64 x 10	5/16 x 10	9	10	167 x 31 x 40	10,565	2-1/2 x 1	2-1/2 x 2-1/2 x 3/8
K-10-10	5/16 x 10	25/64 x 10	10	10	170 x 33 x 46	13,852	3 x 1	3 x 3 x 3/8
K-11-10	25/64 x 10	1/2 x 10	11	15	170 x 33 x 46	17,137	3 x 1-1/4	3-1/2 x 3-1/2 x 1/2
K-12-10	1/2 x 10	19/32 x 10	12	20	172 x 35 x 50	19,817	3-1/2 x 1-1/2	4 x 4 x 1/2
K-13-10	19/32 x 10	11/16 x 10	13	25	172 x 35 x 50	23,370	4 x 1-1/2	4 x 4 x 1/2
K-14-10	11/16 x 10	51/64 x 10	14	40	180 x 60 x 66	28,150	4-1/2 x 1-3/4	4 x 4 x 1/2
K-15-10	51/64 x 10	57/64 x 10	15	50	180 x 60 x 66	33,403	5 x 2-1/2	4 x 4 x 1/2
K-16-10	57/64 x 10	1-1/32 x 10	16	50	183 x 64 x 68	36,585	5 x 2-1/2	5 x 5 x 1/2*
K-17-10	1-1/32 x 10	1-5/32 x 10	17	60	183 x 64 x 68	42,025	5 x 3	5 x 5 x 1/2*
K-18-10	1-5/32 x 10	1-9/32 x 10	18	60	195 x 72 x 78	47,095	6 x 2-1/2	5 x 6 x 3/4*
K-19-10	1-9/32 x 10	1-13/32 x 10	19	75	195 x 72 x 78	52,785	6 x 3	6 x 6 x 3/4*
K-5-12	.035 x 12	.062 x 12	5	3	178 x 23 x 35	3,823		
K-6-12	.062 x 12	.094 x 12	6	5	180 x 28 x 38	5,540	1-1/2 x 3/4	1-1/4 x 1-1/4 x 3/16
K-7-12	.094 x 12	.140 x 12	7	5	180 x 28 x 38	7,373	2 x 3/4	1-1/2 x 1-1/2 x 1/4
K-8-12	.125 x 12	11/64 x 12	8	7.5	191 x 31 x 40	9,697	2-1/2 x 1	2 x 2 x 1/4
K-9-12	11/64 x 12	15/64 x 12	9	10	191 x 31 x 40	12,335	2-1/2 x 1	2-1/2 x 2-1/2 x 3/8
K-10-12	15/64 x 12	9/32 x 12	10	10	194 x 33 x 46	16,003	3 x 1	3 x 3 x 3/8
K-11-12	9/32 x 12	3/8 x 12	11	15	194 x 33 x 46	19,800	3 x 1-1/4	3-1/2 x 3-1/2 x 1/2
K-12-12	3/8 x 12	7/16 x 12	12	20	196 x 35 x 50	22,897	3-1/2 x 1-1/2	4 x 4 x 1/2
K-13-12	7/16 x 12	35/64 x 12	13	25	196 x 35 x 50	27,003	4 x 1-1/2	4 x 4 x 1/2
K-14-2	35/64 x 12	5/8 x 12	14	40	204 x 60 x 66	32,385	4-1/2 x 1-3/4	4 x 4 x 1/2
K-15-12	5/8 x 12	3/4 x 12	15	50	204 x 60 x 66	38,435	5 x 2-1/2	4 x 4 x 1/2
K-16-2	3/4 x 12	13/16 x 12	16	50	207 x 64 x 68	42,087	5 x 2-1/2	5 x 5 x 1/2*
K-17-12	13/16 x 12	15/16 x 12	17	60	207 x 64 x 68	48,356	5 x 3	5 x 5 x 1/2*
K-18-12	15/16 x 12	1 x 12	18	60	219 x 72 x 78	54,178	6 x 2-1/2	6 x 6 x 3/4*
K-19-12	1 x 12	1-1/8 x 12	19	75	219 x 72 x 78	60,730	6 x 3	6 x 6 x 3/4*

- Automatic cycle PLC controlled for high production (**Series 425-4**)
- Independent roll rotation and roll adjustment speed control (standard on larger machines K-12 and above)
- Side supports
- Overhead supports, feed tables, automatic feeders, manual and automatic ejectors
- Special electrics
- Special customer-supplied paint

NON-STANDARD OPTIONS

- Chromed rolls
- Special extra smooth rolls
- Special grooves in rolls
- High-speed version

TRAINING

Waldemar Design & Machine L. L. C. strongly encourages the dealer and/or customer to visit our plant upon completion of the machine to receive free training on the machine operation and maintenance.

WARNING

We have incorporated safety features into this machine. It is the responsibility of the owner / employer to provide point-of-operation guards or operating procedures necessary to adequately protect operator.

