ARONSON Series

Geared Elevation
2.5 ton to 10 ton

Koike Aronson / Ransome geared elevation Head and Tailstock Positioners provide all the advantages of standard fixed height models but also include adjustable elevation to provide ergonomic working heights and improve safety.

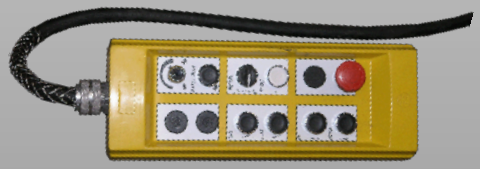
Gear rack cut into vertical posts and multiple interlocked drive pinions provide the highest degree of safety in the industry. NEMA 12 electricals, ground blocks and tapered roller bearings are provided on every unit. Lift-time lubrication and sealed drive units insure many years of trouble free service. Special engineered elevation heights and options are also available.

Headstock and Tailstock axes on Koike Aronson Ransome systems are electronically synchronized to prevent workpiece / fixture skewing. Both axes are driven by an encoded motor, controlled by a drive with internal PLC capabilities. Encoder information from both axes is fed back to the Tailstock drive. The Tailstock encoder provides closed-loop position information to the Tailstock drive, which in turn, follows the reference signal from the Headstock encoder. The Headstock drive and motor respond to commands from the operator control pendant (or optionally a supervisory programmable control system). When the Headstock moves, the Tailstock automatically follows, step-for-step, based upon encoder feedback. If any errors are detected internally, or from external devices by either drive, the system will immediately halt to prevent workpiece/fixture skewing.

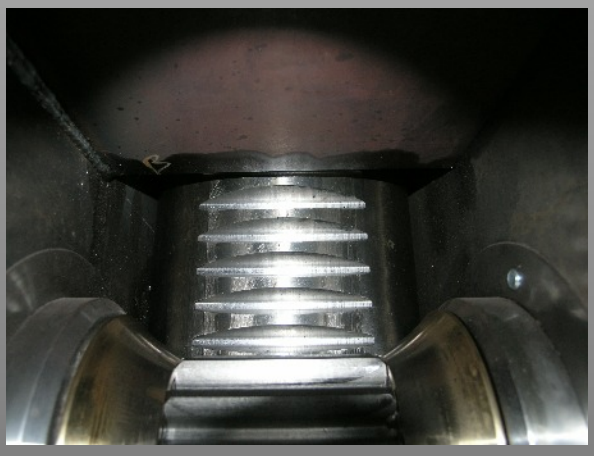
Capacities from 5,000 to 20,000 pounds between Head and Tailstock

Features

- **Multiple lift drive pinions**
- **50:1 AC Variable speed rotation**
- **Low efficiency gear-boxes for safety**
- **360° continuous rotation**
- **Low voltage hand control pendants**
- **Travel cars for multiple lengths available**



Standard hand pendant provided with all models



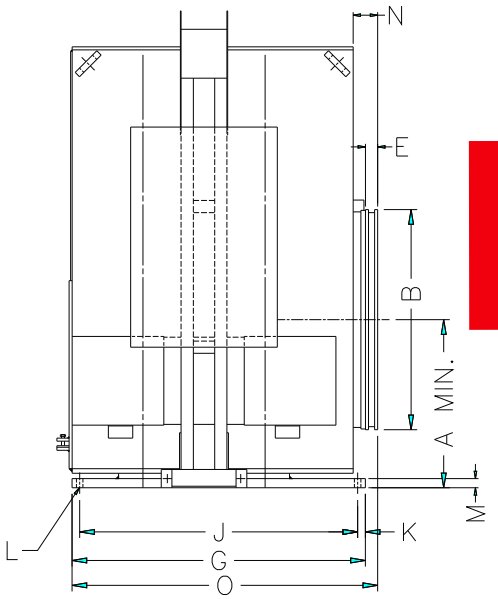
KOIKE ARONSON, INC. / RANSOME

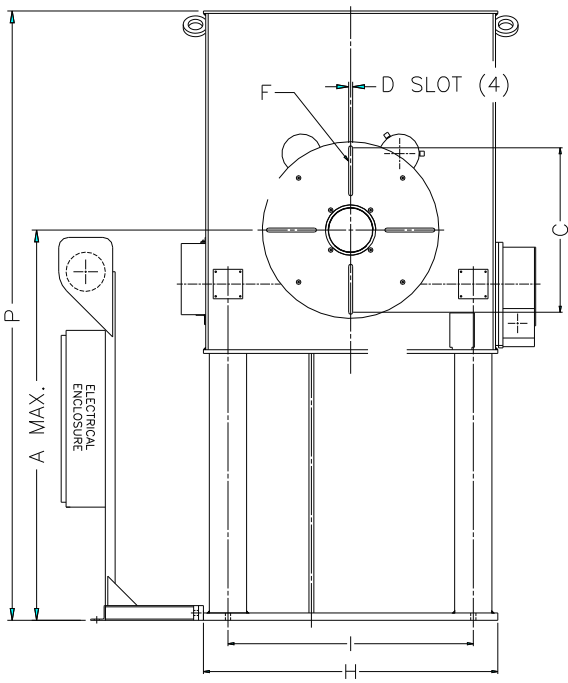
Specifications

HTS 5-GE to HTS 20-GE

MODEL	HTS5-GE	HTS9-GE	HTS12-GE	HTS20-GE
Load Capacity, lb (kg) Max. Between Head & Tail	5,000 lb (2268)	9,000 lb (4082)	12,000 lb (5443)	20,000 lb (9072)
Overhung load on either or both Head or Tailstock 6" CG Height	2,500 (1134)	4,500 (2041)	6,000 (2721)	10,000 (4536)
12" CG Height	1,500 (680)	2,700 (1225)	6,000 (2721)	10,000 (4536)
18" CG Height	1,100 (499)	2,000 (907)	4,400 (1996)	7,350 (3334)
24" CG Height	850 (386)	1,550 (703)	3,450 (1565)	5,850 (2653)
30" CG Height	700 (317)	1,300 (590)	2,850 (1293)	4,850 (2200)
36" CG Height	600 (272)	1,100 (499)	2,400 (1089)	4,100 (1860)
42" CG Height	500 (227)	982 (446)	2,100 (952)	3,600 (1633)
48" CG Height	450 (204)	871 (395)	1,850 (839)	3,200 (1451)
54" CG Height	400 (181)	783 (355)	1,650 (748)	2,850 (1293)
60" CG Height	350 (159)	711 (323)	1,500 (680)	2,600 (1179)
72" CG Height	300 (136)	651 (296)	1,250 (567)	2,200 (998)
Rotation: Torque, in-lb (N.m)	30,000 (3390)	54,000 (6102)	72,000 (8136)	120,000 (13560)
Rotation: Speed Range Motor HP (AC variable Frequency)	2.0 - 0.04 rpm 1-1/2	2.0 - 0.04 rpm 2	1.3 - 0.03 rpm 2	1.2 - 0.02 rpm 5
Pendant cable length	20'	20'	20'	20'
Ground current (Amps)	1500	1500	2000	2000
A: CL height Range In(mm) Elevation speed ipm(mm/min) Motor HP (Qty 2)	30-54 (762-1362) 34 ipm (864) 1	30-54 (762-1362) 30 ipm (762) 2	27.5-79.5 (699-2019) 21 ipm (533) 2	27.5-79.5 (699-2019) 21 ipm (533) 3
B: Table Size (Round) C: Max. Clamping Dia. D: No. of slots and width E: Table Thickness Pilot hole and Depth Through-hole F: Table nut thread	30"(762) 27" (686) (4) 13/16" (21) 1-¾" (44) 3.130" x ½" none 3/4-"10	30"(762) 27" (686) (4) 13/16" (21) 1-¾" (44) 3.130" x ½" none 3/4-"10	36"(914) 33" (838) (4) 13/16" (21) 2" (50) 9.127" x 1-½" 9" Thru 3/4-"10	36"(914) 33" (838) (4) 13/16" (21) 2" (50) 9.127" x 1-½" 9" Thru 3/4-"10
Dim G	39" (991)	39" (991)	48" (1219)	48" (1219)
Dim H	43" (1092)	43" (1092)	60" (1524)	60" (1524)
Dim I	41-½" (1054)	41-½" (1054)	50" (1270)	50" (1270)
Dim J	37" (940)	37" (940)	45-½" (1156)	45-½" (1156)
Dim K	1" (25)	1" (25)	1-¼" (32)	1-¼" (32)
Dim L	13/16" (21)	13/16" (21)	1-1/16" (25)	1-1/16" (25)
Dim M	3/8" (9)	3/8" (9)	1-½" (38)	1-½" (38)
Dim N	2" (51)	2" (51)	4" (102)	4" (102)
Dim O	41" (1041)	41" (1041)	50" (1270)	50" (1270)
Dim P (Max overall height)	69" (1753)	69" (1753)	116" (2946)	116" (2946)
Approx. Weight HS lb (kg)	4,610 (2091)	4,800 (2177)	9,000 (4082)	9,140 (4146)
Approx. Weight TS lb (kg)	4,540 (2059)	4,650 (2110)	8,450 (3832)	8,785 (3985)
Standard Voltage	460/3/60	460/3/60	460/3/60	460/3/60

All dimensions are for reference only and subject to change without notice.





ARONSON Series

Geared Elevation
16 ton to 120 ton Capacity

Koike Aronson / Ransome geared elevation Head and Tailstock Positioners provide all the advantages of standard fixed height models, and they also include adjustable elevation to provide ergonomic working heights and improve safety.

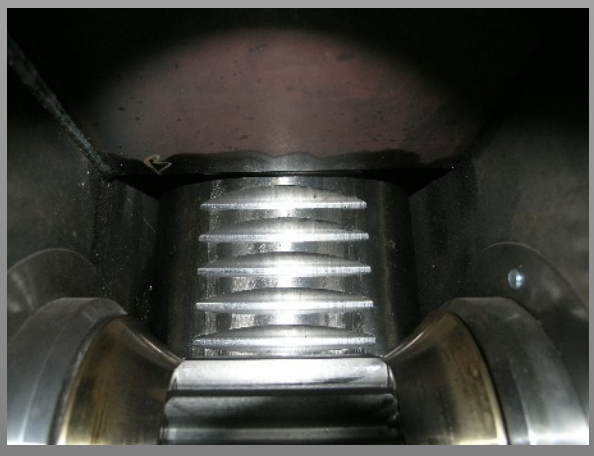
Gear rack cut into vertical posts and multiple interlocked drive pinions provide the highest degree of safety in the industry. NEMA 12 electricals, ground blocks, and tapered roller bearings are provided on every unit. Lift-time lubrication and sealed drive units ensure many years of trouble-free service. Special engineered elevation heights and options are also available. Headstock and Tailstock axes on Koike Aronson Ransome systems are electronically synchronized to prevent workpiece / fixture skewing. Both axes are driven by an encoded motor which is controlled by a drive with internal PLC capabilities. Encoder information from both axes is fed to the tailstock drive. The Tailstock encoder provides closed-loop position information to the Tailstock drive, which in turn, follows the reference signal from the Headstock encoder. The Headstock drive and motor respond to commands from the operator control pendant (or optionally a supervisory programmable control system). When the Headstock moves, the Tailstock automatically follows, step-for-step, based upon encoder feedback. If any errors are detected internally or from external devices by either drive, the system will immediately halt to prevent workpiece/fixture skewing.

Capacities from 32,000 to 240,000 pounds between Head and Tailstock

Features

- **Multiple lift drive pinions**
- **50:1 AC Variable speed rotation**
- **Low efficiency gear-boxes for safety**
- **360° continuous rotation**
- **Low voltage hand control pendants**
- **Travel cars for multiple lengths available**

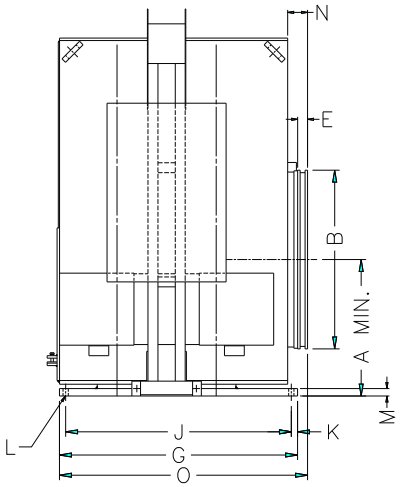
Standard hand pendant provided with all models

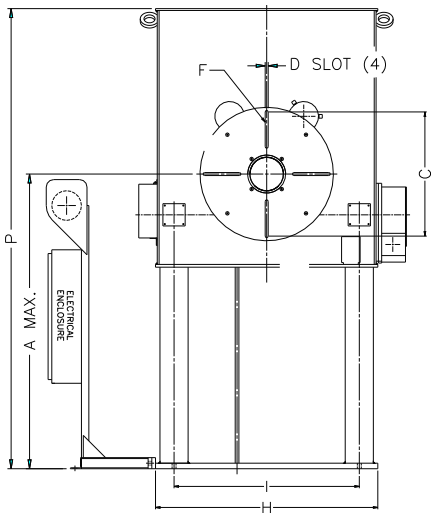


Specifications

HTS 32-GE to HTS 240-GE

MODEL	HTS32-GE	HTS40-GE	HTS50-GE	HTS60-GE	HTS90-GE	HTS160-GE
Load Capacity, lb (kg) Max. Between Head & Tail	32,000 lb (14515)	40,000 lb (18144)	50,000 lb (22680)	60,000 lb (27215)	90,000 lb (40823)	160,000 lb (72575)
Overhung load on either or Both Head or Tailstock 12" CG Height	16,000 (7264)	20,000 (9072)	25,000 (11350)	30,000 (13608)	45,000 (20214)	80,000 (36287)
18" CG Height	12,000 (5448)	15,000 (6804)	18,900 (8581)	22,850 (10364)	34,400 (15603)	61,150 (27737)
24" CG Height	9,600 (4358)	12,000 (5443)	15,193 (6898)	18,450 (8369)	27,850 (12632)	49,500 (22453)
30" CG Height	8,000 (3632)	10,000 (4536)	12,702 (5767)	15,500 (7031)	23,400 (10614)	41,600 (18869)
36" CG Height	6,857 (3113)	8,550 (3878)	10,912 (4954)	13,350 (6055)	20,150 (9140)	35,850 (16261)
42" CG Height	6,000 (2724)	7,500 (3402)	9,565 (4343)	12,200 (5534)	17,700 (8028)	31,500 (14288)
48" CG Height	5,333 (2421)	6,550 (3016)	8,514 (3865)	10,450 (4740)	15,800 (7167)	28,100 (12746)
54" CG Height	4,800 (2179)	6,000 (2721)	7,670 (3482)	9,400 (4264)	14,250 (6464)	25,350 (11498)
60" CG Height	4,364 (1981)	5,450 (2472)	6,979 (3168)	8,530 (3878)	13,000 (5897)	23,100 (10478)
72" CG Height	4,000 (1816)	4,600 (2086)	6,402 (2907)	7,850 (3288)	11,000 (4989)	19,600 (8890)
Rotation: Torque, in-lb (N.m)	192,000 (21696)	240,000 (27120)	300,000 (33900)	360,000 (40680)	540,000 (61020)	960,000 (108480)
Rotation: Speed Range Motor HP (AC variable Frequency)	0.60 - 0.012 rpm 5	0.50 - 0.01 rpm 5	0.60 - 0.012 rpm 5	0.50 - 0.01 rpm 10	0.50 - 0.01 rpm 15	0.40 - 0.008 rpm 15
Pendant cable length	20'	20'	20'	20'	20'	20'
Ground current (Amps)	2000	2000	2000	3000	3000	3000
A: CL height Range In(mm) Elevation speed ipm(mm/min) Motor HP (Qty 2)	28"-80" (711-2032) 19 ipm (483) 5	28"-80" (711-2032) 15 ipm (381) 5	30-3/4"-82-3/4" (781-2102) 21 ipm (533) 7-1/2	30-3/4"-82-3/4" (781-2102) 21 ipm (533) 10	30-3/4"-82-3/4" (781-2102) 21 ipm (533) 20	52-½ -112-½ (1333-2857) 18 ipm (457) 25
B: Table Size (Round) C: Max. Clamping Dia. D: No. of slots and width E: Table Thickness Pilot hole and Depth Through-hole F: Table nut thread	36"(914) 33" (838) (4) 1-1/16" (27) 2-½" (63) 8.627" x 1-½" 8-½" Through 1"-8	36"(914) 33" (838) (4) 1-1/16" (27) 2-½" (63) 8.627" x 1-½" 8-½" Through 1"-8	48"(1219) 43" (1092) (4) 1-1/16" (27) 2-½" (63) 8.627" x 1-½" 8-½" Through 1"-8	48"(1219) 43" (1092) (4) 1-1/16" (27) 2-¾" (70) 12.253" x 1" 11-7/8" Through 1"-8	48"(1219) 43" (1092) (4) 1-1/16" (27) 3" (76) 12.253" x 1" 11-7/8" Through 1"-8	66"(1676) 62" (1575) (4) 1-5/16" (33) 3" (76) 12.253" x 1" 11-7/8" Through 1-¼"-7
Dim G	48" (1219)	48" (1219)	73" (1854)	73" (1854)	73" (1854)	108" (2743)
Dim H	60" (1524)	60" (1524)	84" (2134)	84" (2134)	84" (2134)	84" (2134)
Dim I	50" (1270)	50" (1270)	64" (1626)	64" (1626)	64" (1626)	64" (1626)
Dim J	45-½" (1156)	45-½" (1156)	69" (1753)	69" (1753)	69" (1753)	104" (2642)
Dim K	1-¼" (32)	1-¼" (32)	2" (51)	2" (51)	2" (51)	2" (51)
Dim L	1-1/16" (25)	1-1/16" (25)	1-5/8" (41)	1-5/8" (41)	1-5/8" (41)	1-5/8" (41)
Dim M	2" (51)	2" (51)	11" (279)	11" (279)	11" (279)	11" (279)
Dim N	5" (127)	5" (127)	7-¼" (184)	9" (229)	3-5/8" (92)	9" (229)
Dim O	51-3/8" (1305)	51-3/8" (1305)	76-¾" (1949)	77-½" (1696)	77" (1956)	111" (2819)
Dim P (Max overall height)	116-½" (2959)	116-½" (2959)	128-¼" (3258)	127-½" (3239)	137-½" (3493)	160" (4064)
Approx. Weight HS lb (kg)	13,110 (5947)	13,110 (5947)	14,505 (6580)	15,500 (7030)	21,000 (9525)	23,000 (10433)
Approx. Weight TS lb (kg)	11,950 (5421)	11,950 (5421)	13,460 (6105)	14,660 (6650)	20,080 (9108)	22,000 (9979)
Standard Voltage	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60





All dimensions are for reference only and subject to change without notice.

RANSOME Series

Ball Screw Elevation
2.5 ton to 10 ton

The Powered Elevation design makes maximum use of commercially available components, both in the elevation and rotation systems.

Elevation is by means of commercial ball screw jacks for high duty cycle operation and driven by a worm/wormgear arrangement. The elevation axis uses two of these screw jacks for redundancy by coupling them together, and then they are driven by a common motor. Belts, chains, and transfer gears are no longer utilized in the design.

Guidance is provided by means of wide, large diameter cam follower bearings on flat guide-ways. Cam follower contact with the guide-ways is adjustable for wear. Guidance is provided on the front, back, and sides of two columns that rigidly support the cantilevered load.

Headstock and Tailstock axes on Koike Aronson Ransome systems are electronically synchronized to prevent workpiece / fixture skewing. Both axes are driven by an encoded motor which is controlled by a drive with internal PLC capabilities. Encoder information from both axes is fed to the Tailstock drive. The Tailstock encoder provides closed-loop position information to the Tailstock drive, which, in turn, follows the reference signal from the Headstock encoder. The Headstock drive and motor respond to commands from the operator control pendant (or optionally a supervisory programmable control system). When the Headstock moves, the Tailstock automatically follows, step-for-step, based upon encoder feedback. If any errors are detected internally or from external devices by either drive, the system will immediately halt to prevent

Capacities from 5,000 to 20,000 pounds between Headstock and Tailstock

Features

- **Low efficiency gear-boxes for safety**
- **Ball screw jacks for high duty cycles**
- **Machined tables**
- **Low voltage hand control pendants**
- **50:1 AC Variable speed drives**
- **Boots on elevation jacks protect screws from debris**

Standard hand pendant provided with all models

Optional foot switch controls available

Specifications

2H/2T-PE to 5H/5T-PE

MODEL	2H/2T-PE	3H/3T-PE	3.5H/3.5T-PE	4H/4T-PE	4.5H/4.5T-PE	5H/5T-PE
Load Capacity, lb (kg)	5,000 lb (2268)	6,000 lb (2722)	9,000 lb (4082)	12,000 lb (5443)	16,000 lb (7257)	20,000 lb (9072)
Max. Between Head & Tail						
12" CG Height	2,500 (1134)	3,000 (1361)	4,500 (2041)	6,000 (2722)	8,000 (3629)	10,000 (4536)
18" CG Height	2,030 (921)	2,300 (1043)	3,700 (1678)	4,980 (2259)	6,000 (2722)	8,400 (3810)
24" CG Height	1,710 (776)	1,900 (862)	3,100 (1406)	4,260 (1932)	4,800 (2177)	7,200(3266)
30" CG Height	1,470 (667)	1,600 (726)	2,700 (1225)	3,720 (1687)	4,000 (1814)	6,300 (2858)
36" CG Height	1,295 (587)	1,400 (635)	2,400 (1089)	3,300 (1497)	3,400 (1542)	5,600 (2540)
42" CG Height	1,155 (524)	1,200 (544)	2,200 (998)	2,970 (998)	3,000 (1361)	5,100 (2313)
Rotation: Torque, in-lb (N.m)	30,000 (3390)	36,000 (4068)	54,000 (6102)	72,000 (8136)	96,000 (10848)	120,000 (13560)
Rotation: Speed Range Motor HP (AC variable Frequency)	1.0 - 0.02 rpm 1	1.0 - 0.02 rpm 1-1/2	1.0 - 0.02 rpm 2	0.92 - 0.01 rpm 2	1.0 - 0.02 rpm 3	1.0 - 0.02 rpm 5
Pendant cable length	20'	20'	20'	20'	20'	20'
Ground current (Amps)	1500	1500	2000	2000	2000	2000
A: CL height Range In(mm) Elevation speed ipm(mm/min) Motor HP (Qty 2)	22"-52" (559-1321) 22 ipm (559) 1-1/2	22.25"-52.25" 23 ipm (559) 2	22.25"-52.25" 23 ipm (559) 2	26"-56" (660-1422) 27 ipm (686) 2	27-½"-79-½" (699-2019) 20 ipm (508) 2	27-½"-79-½" (699-2019) 20 ipm (508) 2
B: Table Size (Round) C: Max. Clamping Dia. D: No. of slots and width E: Table Thickness Pilot hole and Depth Through-hole F: Table nut thread	36"(914) 33" (838) (4) 13/16" (21) 7/8" (22) 2.252" x ¾" 2" Through ¾"-10	40"(1016) 37" (940) (4) 13/16" (21) 7/8" (22) 2.252" x ¾" 2" Through ¾"-10	40"(1016) 37" (940) (4) 13/16" (21) 7/8" (22) 2.252" x ¾" 2" Through ¾"-10	48"(1219) 45" (1143) (4) 13/16" (21) 7/8" (22) 6.00" x ½" 2-¾" Through ¾"-10	48"(1219) 45" (1143) (4) 1-1/8" (29) 7/8" (22) 6.00" x 2" 5-½" Through 1"-8	48"(1219) 45" (1143) (4) 1-1/8" (29) 7/8" (22) 6.125" x 3" 6" Through 1"-8
Dim G	47-½" (1207)	47-½" (1207)	47-½" (1207)	47-½" (1207)	47-½" (1207)	47-½" (1207)
Dim H	58" (1473)	58" (1473)	58" (1473)	58" (1473)	62" (1575)	62" (1575)
Dim I	52" (1321)	52" (1321)	52" (1321)	52" (1321)	56" (1422)	56" (1422)
Dim J	43-½" (1105)	43-½" (1105)	43-½" (1105)	43-½" (1105)	43-½" (1105)	43-½" (1105)
Dim K	2" (51)	2" (51)	2" (51)	2" (51)	2" (51)	2" (51)
Dim L	7/8" (22)	7/8" (22)	7/8" (22)	7/8" (22)	7/8" (22)	7/8" (22)
Dim M	2" (51)	2" (51)	2" (51)	2" (51)	2" (51)	2" (51)
Dim N	14-9/16" (370)	8-9/16" (217)	8-9/16" (217)	4-13/16" (122)	4-1/16" (103)	4-1/16" (103)
Dim O	58-5/8" (1489)	60-5/8" (1538)	55-1/2" (1410)	53-3/8" (1356)	53-3/8" (1356)	53-3/8" (1356)
Dim P (Max overall height)	80" (2032)	80" (2032)	80" (2032)	86" (2184)	124-½" (3150)	124-½" (3150)
Approx. Weight HS lb (kg)	3,240 (1470)	3,335 (1513)	3,512 (1293)	3,687 (1672)	5,500 (2495)	5,986 (2715)
Approx. Weight TS lb (kg)	2,732 (1239)	2,845 (1290)	3,296 (1495)	3,534 (1602)	5,780 (2622)	5,443 (2469)
Standard Voltage	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60

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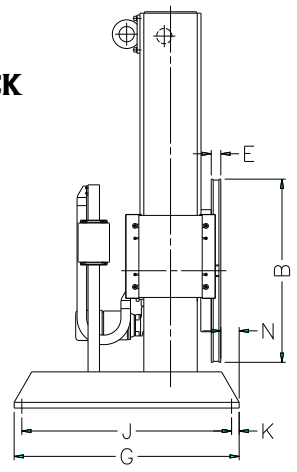
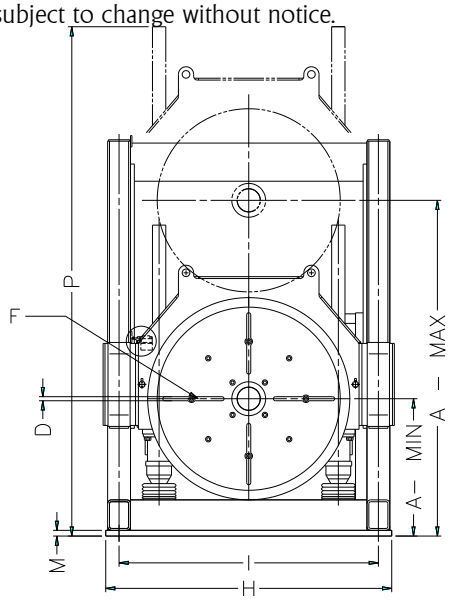
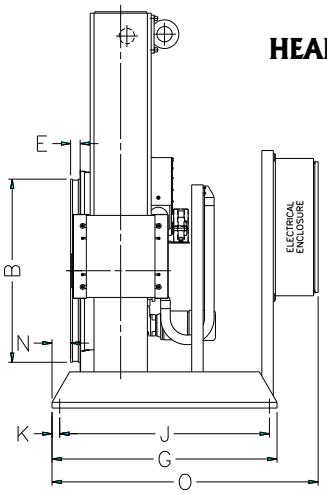
TAILSTOCK





HEADSTOCK



RANSOME Series

Ball Screw Elevation
16 ton to 80 ton

The Powered Elevation design makes maximum use of proven commercially available components, both in the elevation and guidance systems. Elevation is provided by means of commercial Ball screw jacks for high duty cycle operation and driven by a worm/wormgear arrangement. Elevation uses two of these screw jacks for redundancy, coupled together and driven by a common motor. Belts, chains, and transfer gears are no longer utilized in the design.

Guidance is provided by means of wide, large diameter cam follower bearing on flat guide-ways or linear ways. Cam follower contact with the guide-ways is adjustable for wear. Guidance is provided on the front, back, and sides of two columns that rigidly supports the cantilevered load.

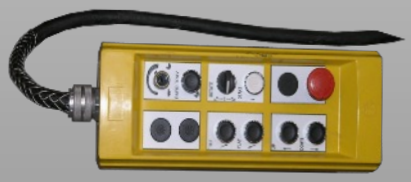
Headstock and Tailstock axes on Koike Aronson Ransome systems are electronically synchronized to prevent workpiece / fixture skewing. Both axes are driven by an encoded motor, controlled by a drive with internal PLC capabilities. Encoder information from both axes is fed back to the Tailstock drive. The Tailstock encoder provides closed-loop position information to the Tailstock drive, which in turn, follows the reference signal from the Headstock encoder.

The Headstock drive and motor respond to commands from the operator control pendant (or optionally a supervisory programmable control system). When the Headstock moves, the Tailstock automatically follows, step-for-step, based upon encoder feedback. If any errors are detected internally, or from external devices by either drive, the system will immediately halt to prevent workpiece/fixture skewing.

Capacities from 32,000 to 160,000 pounds between Headstock and Tailstock

Features

- **Low efficiency gear-boxes for safety**
- **Ball screw jacks for high duty cycles**
- **Machined tables**
- **Low voltage hand control pendants**
- **50:1 AC Variable speed drives**
- **Boots on elevation jacks protect screws from debris**



Standard hand pendant provided with all models

Optional foot switch controls available

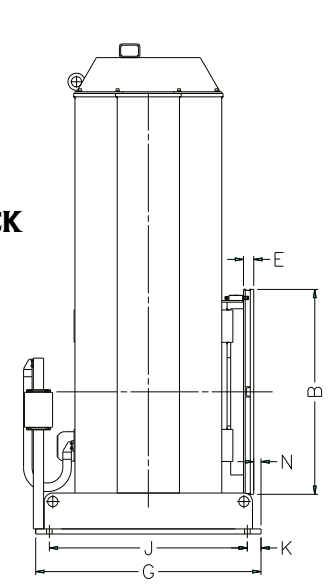
Specifications

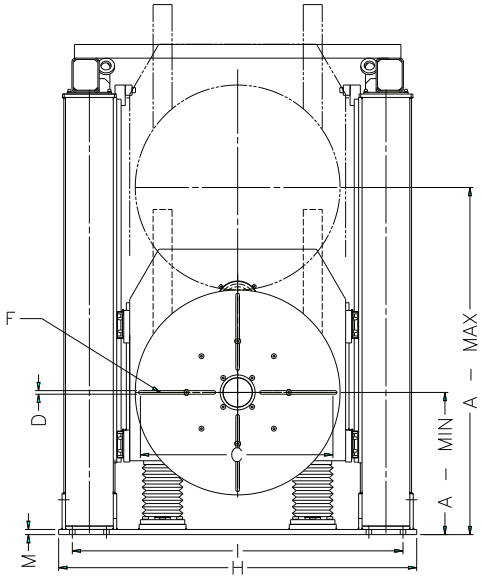
6H/6T-PE to 16H/16T-PE

MODEL	6H/6T-PE	7H/7T-PE	8H/8T-PE	10H/10T-PE	16H/16T-PE
Load Capacity, lb (kg)	32,000 lb (14515)	50,000 lb (22680)	80,000 lb (36287)	100,000 lb (45359)	160,000 lb (72575)
Max. Between Head & Tail					
12" CG Height	16,000 (7257)	25,000 (11340)	40,000 (18144)	50,000 (22680)	80,000 (36287)
18" CG Height	12,900 (5851)	18,900 (8573)	30,700 (13608)	37,250 (16896)	70,900 (32160)
24" CG Height	10,800(4899)	15,200 (6895)	25,000 (11340)	29,650 (13449)	63,700 (28894)
30" CG Height	9,300 (4218)	12,750 (5783)	21,000 (9525)	24,650 (11181)	57,850 (26240)
36" CG Height	8,150 (3697)	10,950 (4967)	18,200 (8255)	21,100 (9571)	52,950 (24018)
42" CG Height	7,250 (3289)	9,600 (4354)	16,000 (7257)	18,450 (8369)	48,800 (22135)
Rotation: Torque, in-lb (N.m)	192,000 (21696)	288,000 (32544)	480,000 (54240)	600,000 (67800)	960,000 (108480)
Rotation: Speed Range Motor HP (AC variable Frequency)	0.50 - 0.01 rpm 5	0.50 - 0.01 rpm 7.5	0.32 - 0.006 rpm 7.5	0.30 - 0.006 rpm 10	0.30 - 0.006 rpm 15
Pendant cable length	20'	20'	20'	20'	20'
Ground current (Amps)	2000	2000	3000	3000	3000
A: CL height Range In(mm) Elevation speed ipm(mm/min) Motor HP (Qty 2)	36"-88" (914-2235) 20 ipm (508) 3	36"-88" (914-2235) 20 ipm (508) 3	41-5/8"-101-5/8" (1057-2581) 20 ipm (508) 6.4	54"-106" (1372-2692) 11 ipm (279) 5	59"-119" (1499-3023) 11 ipm (279) 5
B: Table Size (Round) C: Max. Clamping Dia. D: No. of slots and width E: Table Thickness Pilot hole and Depth Through-hole F: Table nut thread	48"(1219) 44" (1118) (4) 1-1/16" (27) 2-1/2" (63.5) 6.125" x 3" 6" Through 1"-8	60"(1524) 57" (1448) (4) 1-1/16" (27) 2-¾" (70) 8.627" x1-½" 8-½" Through 1"-8	60"(1524) 57" (1448) (4) 1-5/16" (33.3) 3" (76) 12.253" x1" 11-7/8" Through 1"-8	72"(1829) 68" (1727) (4) 1-5/16" (33) 3" (76) 12.253" x 1" 11-7/8" Through 1-¼"-7	72"(1829) 68" (1727) (4) 1-5/16" (33) 3" (76) 9.000" x 1" 8-3/4" Through 1-¼"-7
Dim G	59" (1499)	54" (1372)	66" (1676)	72" (1829)	76" (1930)
Dim H	75" (1905)	86" (2184)	104-7/8" (2664)	107-½" (2731)	128-½" (3264)
Dim I	68" (1727)	74-¼" (1886)	96-7/8" (2461)	99-½" (2527)	109-½" (2781)
Dim J	55" (1397)	50" (1270)	58" (1473)	64" (1626)	71" (64)
Dim K	2" (51)	2" (51)	4" (102)	4" (102)	2-½" (64)
Dim L	1-1/16" (27)	1-1/8" (29)	1-5/8" (41)	1-5/8" (41)	2-1/8" (54)
Dim M	2" (51)	2-3/4" (70)	2" (51)	2" (51)	2" (51)
Dim N	4-13/16" (122)	0" (00)	2-1/8" (54)	3-5/8" (92)	0" (0)
Dim O	69-3/4" (1772)	60" (1524)	87" (2210)	99-3/8" (2524)	89-½" (2273)
Dim P (Max overall height)	133-½" (3391)	133" (3378)	155-¼" (3943)	168" (4267)	176" (4470)
Approx. Weight HS lb (kg)	9,460 (4291)	12,370 (5611)	23,791 (10791)	24,500 (11113)	33,060 (14996)
Approx. Weight TS lb (kg)	8,085 (3667)	11,200 (5080)	22,707 (10299)	23,250 (10546)	33,131 (15028)
Standard Voltage	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60

All dimensions are for reference only and subject to change without notice.

TAILSTOCK





HEADSTOCK