

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.

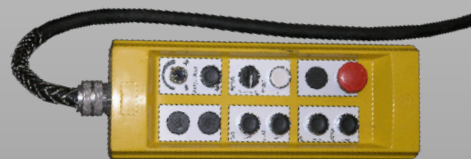
**Capacities from 5,000 to 20,000 pounds
between Head and Tailstock**



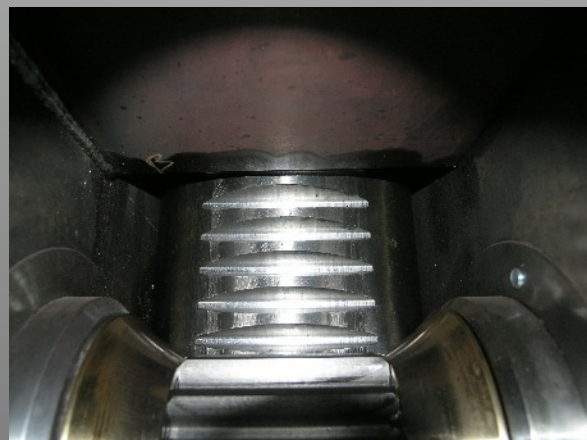
KOIKE ARONSON, INC. / RANSOME

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**

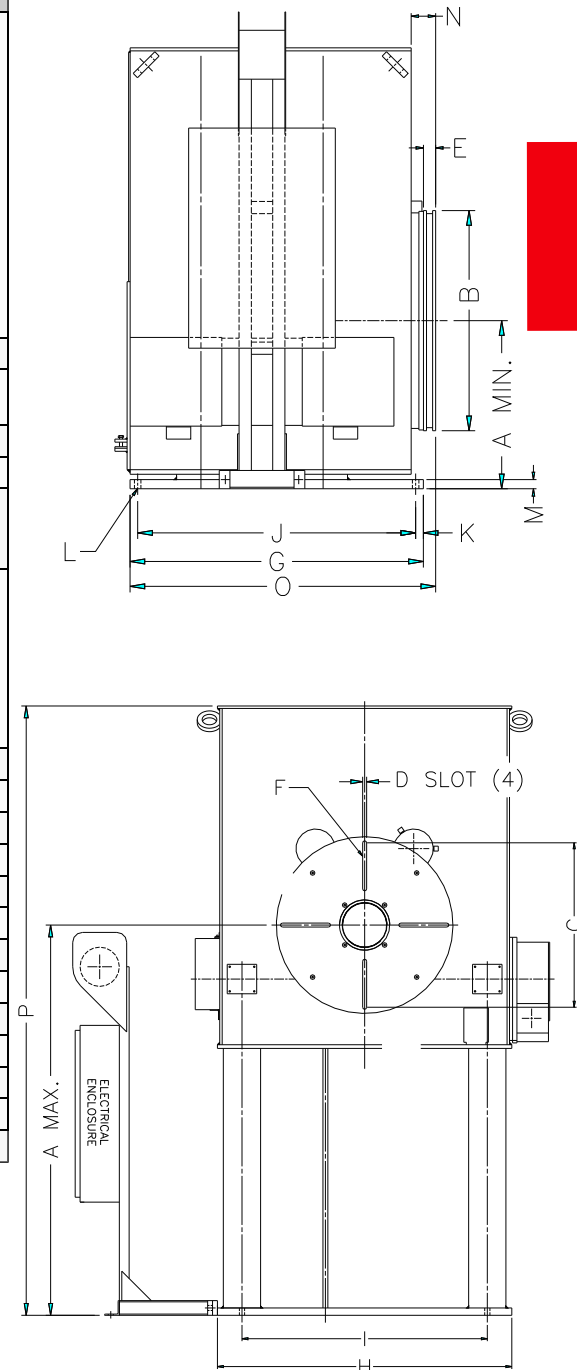


Specifications

HTS 5-GE to HTS 20-GE

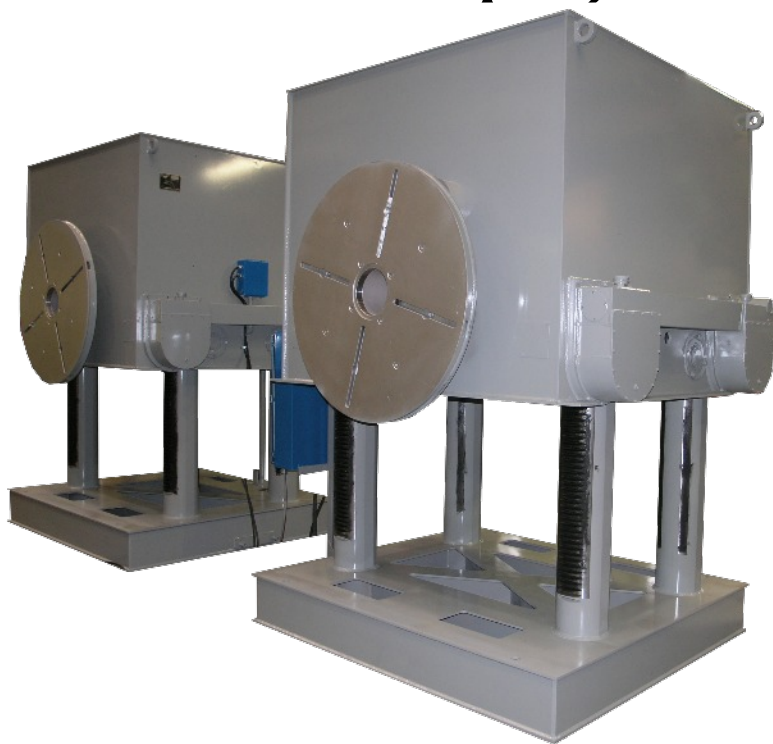
MODEL	HTS5-GE	HTS9-GE	HTS12-GE	HTS20-GE
Load Capacity, lb (kg) Max. Between Head & Tail	5,000 lb (2268)	9,000 lb (4082)	12,000 lb (5443)	20,000 lb (9072)
Overhung load on either or both Head or Tailstock 6" CG Height 12" CG Height 18" CG Height 24" CG Height 30" CG Height 36" CG Height 42" CG Height 48" CG Height 54" CG Height 60" CG Height 72" CG Height	2,500 (1134)	4,500 (2041)	6,000 (2721)	10,000 (4536)
	1,500 (680)	2,700 (1225)	6,000 (2721)	10,000 (4536)
	1,100 (499)	2,000 (907)	4,400 (1996)	7,350 (3334)
	850 (386)	1,550 (703)	3,450 (1565)	5,850 (2653)
	700 (317)	1,300 (590)	2,850 (1293)	4,850 (2200)
	600 (272)	1,100 (499)	2,400 (1089)	4,100 (1860)
	500 (227)	982 (446)	2,100 (952)	3,600 (1633)
	450 (204)	871 (395)	1,850 (839)	3,200 (1451)
	400 (181)	783 (355)	1,650 (748)	2,850 (1293)
	350 (159)	711 (323)	1,500 (680)	2,600 (1179)
	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	2.0 - 0.04 rpm	2.0 - 0.04 rpm	1.3 - 0.03 rpm	1.2 - 0.02 rpm
Motor HP (AC variable Frequency)	1-1/2	2	2	5
Pendant cable length	20'	20'	20'	20'
Ground current (Amps)	1500	1500	2000	2000
A: CL height Range In(mm)	30-54 (762-1362)	30-54 (762-1362)	27.5-79.5 (699-2019)	27.5-79.5 (699-2019)
Elevation speed ipm(mm/min)	34 ipm (864)	30 ipm (762)	21 ipm (533)	21 ipm (533)
Motor HP (Qty 2)	1	2	2	3
B: Table Size (Round)	30"(762)	30"(762)	36"(914)	36"(914)
C: Max. Clamping Dia.	27" (686)	27" (686)	33" (838)	33" (838)
D: No. of slots and width	(4) 13/16" (21)	(4) 13/16" (21)	(4) 13/16" (21)	(4) 13/16" (21)
E: Table Thickness	1-3/4" (44)	1-3/4" (44)	2" (50)	2" (50)
Pilot hole and Depth	3.130" x 1/2"	3.130" x 1/2"	9.127" x 1-1/2"	9.127" x 1-1/2"
Through-hole	none	none	9" Thru	9" Thru
F: Table nut thread	3/4"-10	3/4"-10	3/4"-10	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	41-1/2" (1054)	41-1/2" (1054)	50" (1270)	50" (1270)
Dim J	37" (940)	37" (940)	45-1/2" (1156)	45-1/2" (1156)
Dim K	1" (25)	1" (25)	1-1/4" (32)	1-1/4" (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)	1-1/2" (38)	1-1/2" (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**



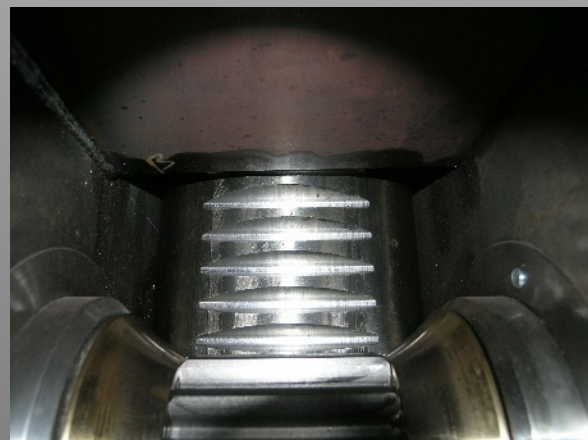
KOIKE ARONSON, INC. / RANSOME

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



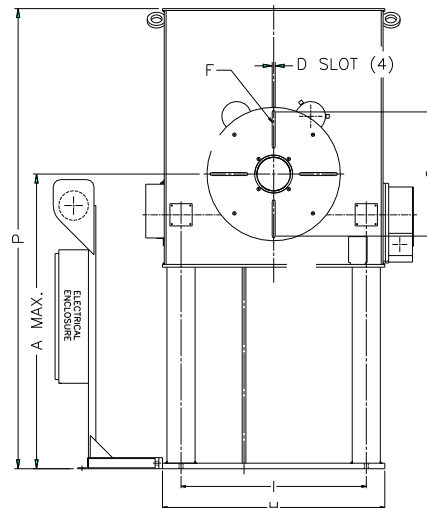
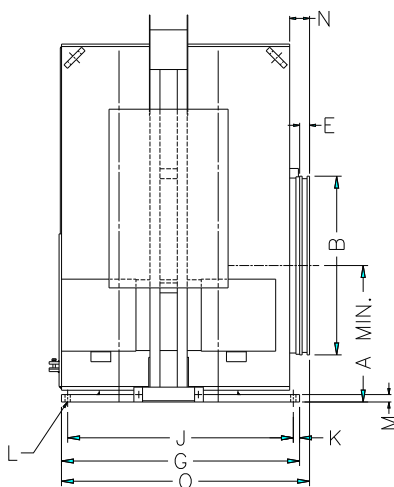
**Standard hand pendant
provided with all models**



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)
	18" CG Height	12,000 (5448)	15,000 (6804)	18,900 (8581)	22,850 (10364)	34,400 (15603)
	24" CG Height	9,600 (4358)	12,000 (5443)	15,193 (6898)	18,450 (8369)	27,850 (12632)
	30" CG Height	8,000 (3632)	10,000 (4536)	12,702 (5767)	15,500 (7031)	23,400 (10614)
	36" CG Height	6,857 (3113)	8,550 (3878)	10,912 (4954)	13,350 (6055)	20,150 (9140)
	42" CG Height	6,000 (2724)	7,500 (3402)	9,565 (4343)	12,200 (5534)	17,700 (8028)
	48" CG Height	5,333 (2421)	6,550 (3016)	8,514 (3865)	10,450 (4740)	15,800 (7167)
	54" CG Height	4,800 (2179)	6,000 (2721)	7,670 (3482)	9,400 (4264)	14,250 (6464)
60" CG Height	4,364 (1981)	5,450 (2472)	6,979 (3168)	8,530 (3878)	13,000 (5897)	25,350 (11498)
72" CG Height	4,000 (1816)	4,600 (2086)	6,402 (2907)	7,850 (3288)	11,000 (4989)	23,100 (10478)
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	52-1/2" -112-1/2" (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) 2-1/2" (63) 8.627" x 1-1/2" 8-1/2" Through 1"-8	36"(914) 33" (838) (4) 1-1/16" (27) 2-1/2" (63) 8.627" x 1-1/2" 8-1/2" Through 1"-8	48"(1219) 43" (1092) (4) 1-1/16" (27) 2-1/2" (63) 8.627" x 1-1/2" 8-1/2" Through 1"-8	48"(1219) 43" (1092) (4) 1-1/16" (27) 2-3/4" (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 1-1/4"-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	45-1/2" (1156)	45-1/2" (1156)	69" (1753)	69" (1753)	69" (1753)	104" (2642)
Dim K	1-1/4" (32)	1-1/4" (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)	7-1/4" (184)	9" (229)	3-5/8" (92)	9" (229)
Dim O	51-3/8" (1305)	51-3/8" (1305)	76-1/4" (1949)	77-1/2" (1966)	77" (1956)	111" (2819)
Dim P (Max overall height)	116-1/2" (2959)	116-1/2" (2959)	128-1/4" (3258)	127-1/2" (3239)	137-1/2" (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



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