

# MODELS AT-140 THROUGH AT-440 DRIVES Drive Information



AT-140 through AT-280



AT-320 through AT-440

#### Description

Dynamatic® Model AT Drives is a combination of an air-cooled, adjustable speed clutch and a flange mounted AC induction motor. The AT Drive transmits torque at variable speeds. There is no physical contact between input and output members. This results in smooth response, thereby eliminating shock loading and extending equipment life. All drives have an integral tachometer generator

mounted around the output shaft to provide a feedback signal to the drive's controller. The controller provides the DC excitation for the clutch coil. The feedback signal from the tachometer generator is used as a reference signal within the controller to maintain accurate speed regulation. The controllers for the drives are described starting on Page 72 of this catalog.

Footower	Overtown Bourefite
Features	Customer Benefits
AC power input - AT drives and controllers are available to run on virtually any three-phase voltage input.	Compatible with existing wiring and plant power.
Approximately 250% motor torque available at clutch output.	Accelerates high inertia loads quickly and handles intermittent overloads without having to increase the horsepower rating.
one-year warranty on AT mechanical drives.	AT drives are built to give long, reliable, low cost life in diverse applications.
Simple design - Drive consists of a clutch, AC induction motor and a separate controller.	Easy to understand, install, operate and maintain.
Fewer wearing parts - All AT variable speed drives have only four bearings and no slip rings or brushes.	Minimum downtime and maximum production from initial start-up.
0.5% speed regulation is standard.	Provides a consistent, high quality customer product under changing load and environmental conditions.
Uses existing wiring and motor starters.	Easy to retrofit in industrial environments.
Controller circuits are isolated from power lines.	Electronic controller is resistant to line noise.
Totally enclosed fan cooled AC motor is standard.	Suitable for harsh industrial environments.



Specifications for AT-140 Through AT-440 Drives

Specifications for A1-	140 Through AT-440 Drives	
Motor	HP and RPM	See selection table - Page 41
	Totally Enclosed Fan Cooled (TEFC)	Standard
	NEMA Design B	Standard
	Class F insulation, Class B rise	Standard
	1.15 service factor	Standard
	***Input power - see note below	208/220 through 380V, 3 phase, 50 Hz
		230 through 460V, 3 phase, 60 Hz
		575V, 3 phase, 60 Hz
	one-year warranty	Standard
Clutch	Stationary coil	Standard
	Coil voltages	45 or 90 VDC - Standard; 110, 220 VDC -
	Con vollages	Optional
	Rated for constant torque	Standard
	Starting torque	Approximately 250%
	Intermittent torque	Approximately 250%
	AC tachometer generator	Standard
	Cooling	100% self ventilated
	one-year warranty	Standard
Controllers		
	Model 3000 and Model 4000 (Solid State)	Can be used with AT-140 through AT-140
(Sold Separately)	Model 4050, DSI-700 and Mark III (Solid State)	Can be used with AT-140 through AT-140
	Model EC-2000 and PDC-2000 (Digital)	Can be used with AT-140 through AT-440
	Closed loop speed control	Standard
	Speed regulation	0.5% Standard; 0.1% Optional (EC-2000 only)
	Regulated speed range	34 to 1 available
	Input power	Line transformer (sold separately) - motor
		winding transformer not available
	Enclosure	NEMA 1 - Standard; NEMA 12 - Optional;
		NEMA 13 for 4000 & 4050 - Standard
	Panel mount, open construction	Optional
	Output voltage, to clutch coil	45 VDC or 90 VDC standard; 220 VDC
		optional (EC-2000 only)
	One-year warranty	Standard
Status Indication	Speed indicating signal	0-60 VAC from tachometer generator for
		optional meter
Environmental Ratings	Storage temperature	-20° to 65° C (-4° to 149° F) Standard
J	Operating temperature	0° to 40° C (32° to 104° F) Standard (Others
		available; consult factory)
	Maximum operating temperature	65° C (De-rating required)
	Altitude	1000 m (3300 Ft.) Standard
Codes and Standards	Mechanical NEMA, as applicable	Standard
Joues and Standards	Mechanical CSA	Approved
	Controllers CSA	Approved
Reliability Testing	Mechanical	Αργιονου
ixenability restilig		Standard
	100% dynamometer tested	Statituaru
	Controllers	Chandand
	Pre-tested components	Standard
	Computer test and pre-calibrated PCBs	Standard

\*\*\*NOTE: New factory standards for motor input power, two (2) options available:

- 1) 208/220 through 380 VAC, 3 phase, 50 Hz.; 230 through 460 VAC, 3 phase, 60 Hz.
- 2) 575 VAC, 3 phase, 60 Hz.



## Ordering Information

The Model AT drive includes an 1800 RPM, TEFC, AC induction motor, with 230 through 460 VAC, 3 phase, 60 Hz., 208/220 through 380 VAC, 3 phase, 50 Hz. or 575 VAC, 3 phase, 60 Hz., 1.15 SF, NEMA design B, Class F insulation, motor is flange mounted to a brushless clutch in a cast iron housing with 100% rated motor torque continuously available over the speed range shown. The service factor for drives specified with a 50 Hz. motor is 1.0. A controller is required, but not included. A Drive/Controller Compatibility and Selection Chart can be found starting on Page 70. Controllers can be found starting on Page 72. Operator stations can be found starting on Page 117. Model 4000 and 4050 controllers (except Press Drive versions) require a separate 115 VAC center tapped transformer for control. Standard units consist of 45 or 90 VDC epoxy clutch coil, a second (loose) nameplate, 230 through 460 VAC, 3 phase, 60 Hz., 208/220 through 380 VAC, 3 phase, 50 Hz. or 575 VAC, 3 phase, 60 Hz. TEFC motor and spherical roller bearing (available on Models AT-280 through AT-440 only). \*\*Consult factory for non-standard units).

#### Selection Table - 60 Hz 45V Coil

00.00	Creed		
	Speed	Model	Motor
HP	Range	Number	Frame
	(RPM)	AT 4400 ( 4 0 ( ) = 1	Size
1	1690-50	AT-140014-0145	145TC
2	1650-50	AT-140024-0145	145TC
3	1680-50	AT-180034-0145	182TC
5	1650-50	AT-180054-0145	184TC
7.5	1660-350	AT-180074-0145	213TC
	1680-50	AT-210074-0145	213TC
10	1655-175	AT-210104-0145	215TC
15	1625-700	AT-210154-0145	254TC
	1690-50	AT-250154-0145	254TD
20	1665-350	AT-250204-0145	256TD
25	1670-50	AT-280254-0145	284TD
25	1092-50	AT-320256-0145	326TD
	1695-175	AT-280304-0145	286TD
30	1705-50	AT-320304-0145	326TD
	1097-50	AT-320306-0145	326TD
	1680-569	AT-280404-0145	324TD
40	1665-50	AT-320404-0145	326TD
	1082-233	AT-320406-0145	365TD
	1655-805	AT-280504-0145	326TD
50	1700-175	AT-320504-0145	326TD
	1122-50	AT-360506-0145	365TD
	1690-438	AT-320604-0145	365TD
60	1670-50	AT-360604-0145	365TD
	1102-214	AT-360606-0145	405TD
	1665-700	AT-320754-0145	405TD
75	1705-163	AT-360754-0145	405TD
	1097-156	AT-440756-0145	405TD
	1675-560	AT-361004-0145	405TD
100	1685-175	AT-441004-0145	405TD
	1112-408	AT-441006-0145	445TD
	1650-798	AT-361254-0145	445TD
125	1690-490	AT-441254-0145	449TD
	1097-560	AT-441256-0145	449TD
150	1695-700	AT-441504-0145	449TD
200	1660-963	AT-442004-0145	449TD

#### Selection Table - 60 Hz 90V Coil

НР	Speed Range	Model Number	Motor Frame
	(RPM)	rtamboi	Size
1	1690-50	AT-140014-0190	145TC
2	1650-50	AT-140024-0190	145TC
3	1680-50	AT-180034-0190	182TC
5	1650-50	AT-180054-0190	184TC
7.5	1660-350	AT-180074-0190	213TC
7.5	1680-50	AT-210074-0190	213TC
10	1655-175	AT-210104-0190	215TC
45	1625-700	AT-210154-0190	254TC
15	1690-50	AT-250154-0190	254TD
20	1665-350	AT-250204-0190	256TD
0.5	1670-50	AT-280254-0190	284TD
25	1092-50	AT-320256-0190	326TD
	1695-175	AT-280304-0190	286TD
30	1705-50	AT-320304-0190	326TD
	1097-50	AT-320306-0190	326TD
	1680-569	AT-280404-0190	324TD
40	1665-50	AT-320404-0190	326TD
	1082-233	AT-320406-0190	365TD
	1655-805	AT-280504-0190	326TD
50	1700-175	AT-320504-0190	326TD
	1122-50	AT-360506-0190	365TD
	1690-438	AT-320604-0190	365TD
60	1670-50	AT-360604-0190	365TD
	1102-214	AT-360606-0190	405TD
	1665-700	AT-320754-0190	405TD
75	1705-163	AT-360754-0190	405TD
	1097-156	AT-440756-0190	405TD
100	1675-560	AT-361004-0190	405TD
100	1685-175 1112-408	AT-441004-0190	405TD 445TD
	1650-798	AT-441006-0190 AT-361254-0190	445TD
125	1690-490	AT-441254-0190	449TD
123	1090-490	AT-441254-0190 AT-441256-0190	449TD
150	1695-700	AT-441504-0190	449TD
200	1660-963	AT-441304-0190	449TD
200	1000-900	/ \ 1 - <del>7 7</del> 200 <del>7 -</del> 0 130	77010

<sup>\*\*</sup>Consult factory for any additional accessories and/or modifications you may require that are not listed on the next page.



## "AT" Ajusto-Spede® Drives 1 through 200 HP Modifications

#### For the following modifications, please consult factory:

Bases, Slide - Adjustable slide bases are available for the horizontal mounting of a drive with motor.

Part Number - AT-140 - 81453-0100
Part Number - AT-180 - 81453-0200
Part Number - AT-210 - 81453-0300
Part Number - AT-250 - 81453-0400
Part Number - AT-280 - 81453-0500
Part Number - AT-320 - 64131-0200
Part Number - AT-360 - 64131-0300

Part Number - AT-440 - 64131-0500

**Brake, Adjustable, Integrally Mounted -** A non-contacting, adjustable torque brake is integrally mounted to the drive for stopping purposes or for use with the Mutuatrol® controller modification. Brakes may require an adjustable brake circuit in the controller. Adjustable brake available for models AT-320 through AT-440 only. Factory installed only.

**Brake**, **Friction**, **Integrally Mounted** - An electromagnetic friction brake is integrally mounted to the drive for stopping or holding purposes. Brakes may require a fixed brake circuit in the controller. Friction brake available for models AT-320 through AT-440 only. Factory installed only.

**Protection, Coal Feeder** - Includes an epoxy encapsulated tachometer and clutch coil, external epoxy paint, soldered and epoxy coated tachometer leads and high temperature grease. Not available for Models AT-320 through AT-440.

**Protection, Food Plant -** Includes a TEFC motor, encapsulated tachometer and clutch coil, labyrinth shaft seal, external epoxy paint and nickel-plated end bell. This modification provides protection against semi-corrosive or semi-caustic wash down.

**Protection, Jungle** – Includes a TEFC motor, encapsulated clutch coil, screen over all air drive openings, discharge louvers in the "up" position and external epoxy paint.

**Protection No. 1** - Includes a TEFC motor, an epoxy encapsulated tachometer and clutch coil. This modification provides protection for outdoor applications.

**Protection, Paper Mill** - Includes all features of Protection No. 1 plus external epoxy paint. This modification provides protection against severe wash down elements.

**Protection, Screens Only** - Includes screens over all drive air openings. This modification provides protection from entry of rodents, stones, etc.

**Protection, Tropical** - Includes all features of Protection No. 1 plus, screens over all air openings and the spraying of all practical surfaces with a special fungus retarding varnish. This modification provides drive protection for jungle environments.

**Switch, Clutch Thermal -** To safeguard the clutch drum from excessive heat due to overload or high ambient temperatures, a thermal switch rated at 89° C is placed in the discharge air stream. This switch has a NC contact.

VT Drive Duty - Broader speed range is achieved for centrifugal loads. Minimum speed is 50 RPM.



## **Drive Engineering Data**

**Adjustable Speed Drive Data** 

Model			n Torque Slip RPM	e Lb. Ft. I of <b>o</b>		F		issipatio ut RPM (		t	Inertia Lb. Ft. <sup>2</sup> Output
	50	75	100	150	1750	900	1000	1200	1500	1800	Member
AT-140	4.5	6.0	7.2	9.5	25.0	1.6	1.8	2.0	2.6	3.0	0.9
AT-140C <b>⑤</b>	6.0	7.5	9.0	12.0	27.0	1.6	1.8	2.0	2.6	3.0	0.9
AT-180	10.0	13.5	16.0	21.0	46.0	3.3	3.6	4.1	5.2	6.0	2.0
AT-180C	13.0	17.5	21.5	26.0	50.0	3.3	3.6	4.1	5.2	6.0	2.0
AT-210	19.0	25.0	32.0	44.0	74.0	5.0	5.3	6.2	7.8	9.0	3.6
AT-210C	23.0	33.0	38.0	50.0	78.0	5.0	5.3	6.2	7.8	9.0	3.6
AT-250	42.0	56.0	68.0	82.0	115.0	8.8	9.5	11.0	14.0	16.0	6.2
AT-250C	60.0	80.0	92.0	110.0	130.0	8.8	9.5	11.0	14.0	16.0	6.2
AT-280	56.0	73.0	85.0	105.0	195.0	15.0	17.0	20.0	24.0	27.0	15.9
AT-280C	100.0	128.0	160.0	200.0	230.0	15.0	17.0	20.0	24.0	27.0	15.9
AT-320	70.0	110.0	140.0	185.0	460.0	24.5	27.0	32.0	39.0	45.0	30.5
AT-320C	140.0	200.0	250.0	300.0	550.0	24.5	27.0	32.0	39.0	45.0	30.5
AT-360	130.0	170.0	210.0	250.0	640.0	39.0	42.5	49.0	59.0	68.0	55.0
AT-360C	230.0	320.0	370.0	440.0	700.0	39.0	42.5	49.0	59.0	68.0	55.0
AT-440	325.0	380.0	415.0	485.0	860.0	51.0	56.0	65.0	78.0	90.0	123.0
AT-440C	450.0	575.0	650.0	760.0	1060.0	51.0	56.0	65.0	78.0	90.0	123.0

Adjustable Speed Drive Data

Model	Motor		0\		oad Lbs. RPM of <b>€</b>	at		45V Clutch	Weight	
Model	Frame	90	00	12	00	18	800	Coil Current	Lbs.	
		Std.	Spher.	Std.	Spher.	Std.	Spher.	(Hot Amps)		
AT-140	143T/145T	378	-	378	-	378	-	3.40	150	
AT-180	182T/215T	281	-	281	-	281	-	3.90	263	
AT-210	213T/254T	790	-	790	-	680	-	3.90	430	
AT-250	254T/286T	682	-	682	-	664	-	4.20	630-675	
AT-280	284T/326T	1124	1124	1116	-	961	1124	7.20	1050-1214	
AT-320	326T/365T	1490	1739	1341	1739	1156	1739	7.04	1297-1806	
AT-360	365T/405T	2012	2796	1811	2796	1560	2796	8.37	2490-2712	
AT-440	405T/447T	3372	3372	3372	3372	3372	3372	8.23	3055-3650	

<sup>•</sup> Values are for four-pole motor speeds.

Indicates maximum HP that can be safely dissipated at a given input speed. Dissipation should be de-rated 10% for each 10° F (5.5° C) above 100° F (38° C) ambient, to 150° F (71° C) maximum ambient.

<sup>•</sup> Values are based on B-10 bearing life of 15,000 hours. For 20,000 hours use 91% of the values shown. The figures are the maximum weights at the center of a standard output shaft keyway perpendicular to the axis. Ratings are for ball bearings or spherical roller bearings, as noted.

<sup>4</sup> Approximate weight of brake.

G Copper plated drum.



## **Brake Engineering Data**

**Adjustable Torque Brake Data** 

Model		e Torque tput RP			Brak		pation F RPM of	IP at	Brake Rotor	45 V Brake Coil Current	Wt. Lbs. <b>⊘</b>	
	600	900	1200	1800	600	900	1200	1800	Lb. Ft <sup>2</sup>	(Hot Amps)	LUS.	
AT-320B	120	138	147	153	3.3	5.0	6.7	10.0	7.1	5.5	150	
AT-360B	120	138	147	153	3.3	5.0	6.7	10.0	7.1	5.5	150	
AT-440B	120	138	147	153	3.3	5.0	6.7	10.0	7.1	5.5	150	

Adjustable Speed Drive with Adjustable Torque Brake Data

Model	Motor Frame	Motor Frame Drive with Motor Overhung Load in Lbs. at Output								
Wiodei		900 Spherical	1200 Spherical	1800 Spherical						
AT-320B	326T/365T	1739	1739	1739						
AT-360B	365T/405T	2796	2796	2796						
AT-440B	405T/445T	3372	3372	3372						

Adjustable Speed Drive with Friction Brake Data

Model	Motor	Electric	cally Engaged		Drive w Lbs.	Weight		
Wodei	Frame	Static Torque Lb. Ft.	Inertia Lb. Ft.²	Brake Model	900	1200	1800	Lbs. 4
AT-320F	326T/365T	240	1.06	310	1490	1340	1155	30
AT-360F	365T/405T	465	2.14	312	2010	1810	1560	50
AT-440F	405T/445T	-	-	-	-	-	-	-

<sup>•</sup> Values are based on B-10 bearing life of 15,000 hours. For 20,000 hours use 91% of the values shown. The figures are the maximum weights at the center of a standard output shaft keyway perpendicular to the axis. Contact the factory for overhung load ratings on model/motor frame combinations and other configurations not listed.

Approximate weight of brake.



## **Engineering Data**

#### **Noise Levels - AT Adjustable Speed Drives**

These sound pressure levels are **typical** values given for engineering information only, and it is **not guaranteed** that any particular production unit will exceed these values.

Microphone 3 feet from side of drive, tested in a semi-anechoic chamber above reflecting plane per IEEE-85. All readings are sound pressure level, dB; reference 20 micro-Newton's per square meter. Average sound pressure in a 3-foot radius hemispherical free field. Noise level for 1200 RPM drives will be 9 dB less than 1800-RPM values shown, and for 3600 RPM the noise level will be 15 dB greater.

		Sound Pr	essure dB
Model	RPM	Output Rating	Output Stalled
AT-140	1800	65.0	-
AT-180	1800	72.0	-
AT-210	1800	72.0	-
AT-250	1800	76.0	-
AT-280	1800	78.0	-
AT-320	1800	83.2	86.4
AT-360	1800	85.9	87.3
AT-440	1800	87.1	89.0

#### **Full Load Motor Currents**

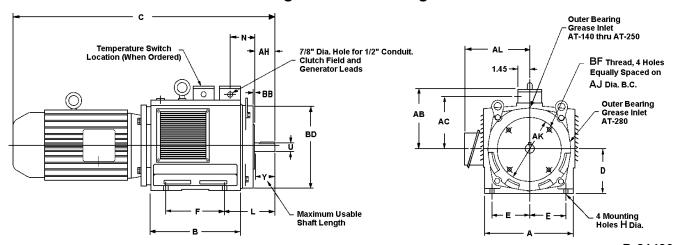
The full load motor currents shown in the following table are typical values for 4-pole motors. Full load current for 6-and 8-pole motors will typically be higher than the values listed for 4-pole motors. This table is intended for use as an aid in sizing motor branch circuit components. For setting motor over-current protection devices, consult the motor nameplate. For full load motor currents of 200 and 208-volt motors, increase the corresponding 230 volt motor full load current by 15% and 10% respectively. Multi-speed motors will have the full load current varying with speed in which case the nameplate rating shall be used.

	Full Lo	ad Ampe	res for 4	Pole Moto	ors at
HP	230V	460V	575V	220V	380V
	60Hz	60Hz	60Hz	50Hz	50Hz
1	3.4	1.7	-	3.69	2.1
1.5	5.2	2.6	-	5.48	3.2
2	6.4	3.2	-	6.99	4.0
3	8.8	4.4	-	9.83	5.7
5 <b>0</b>	13.2	6.6	-	-	-
7.5	204	10.2	-	-	11.7
10	262	13.1	-	-	15.8
15	36.2	18.1	-	-	22.0
20	46.0	23.0	-	-	29.0
25	58.0	29.0	-	-	36.0
30	66.0	33.0	-	-	42.0
40	104.0	52.0	41.0	-	-
50	130.0	65.0	52.0	-	-
60	152.0	76.0	61.0	-	-
75	184.0	92.0	74.0	-	-
100	240.0	120.0	96.0	-	-
125	296.0	148.0	118.0	-	-
150	344.0	172.0	138.0		-
200	448.0	224.0	179.0	-	-

184TC Frame



## Outline Drawings - AT-140 through AT-280



D-81430

Model	Motor	Α	В	CO	Dø	Е	F	Н		N	Sh	aft Exte		AB	AC	АН
Model	Frame	τ.	ם	CU	שם	_	-	-	_	17	υĐ	ΥØ	KEY	Ab	ζ.	АП
140	143TC 145TC	8.68	8.41	22.40 24.90	4.50	3.75	5.12	.50	5.00	2.96	.875	1.94	.18 Sq. x 1.38 Lg.	6.81	5.56	2.00
180	182TC 184TC 213TC	10.25	10.07	27.94 28.94 30.56	5.25	4.25	6.25	.50	6.25	3.18	1.125	2.50	.25 Sq. x 1.75 Lg.	7.75	6.50	2.62
210	213TC 215TC 254TC	12.00	10.96	32.06 33.56 36.43	6.25	5.00	6.50	.62	7.62	3.81	1.375	3.00	.31 Sq. x 2.38 Lg.	8.63	7.38	3.12
250	254TD 256TD 284TD	14.00	12.52	38.79 40.54 40.41	7.00	5.50	7.25	.62	8.75	3.41	1.625	3.62	.38 Sq. x 2.88 Lg.	9.63	8.38	3.75
280	284TD 286TD 324TD 326TD	18.00	13.00	42.91 44.41 45.30 46.80	9.00	7.50	8.12	.75	10.00	5.35	1.875	3.83	.50 Sq. x 3.50 Lg.	12.09	10.84	3.83

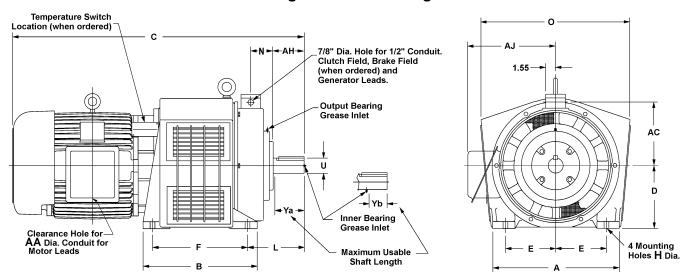
Model	Motor Frame	AJ	AK <b>©</b>	AL	ВВ	BD	BF
140	143TC 145TC	5.88	4.499	5.56	.12	8.38	3/8 - 16
180	182TC 184TC 213TC	7.25	8.499	7.19 7.50	.25	10.06	1/2 - 13
210	213TC 215TC 254TC	7.25	8.499	7.50 8.10	.27	11.82	1/2 - 13
250	254TD 256TD 284TD	7.25	8.499	10.00 12.31	.27	13.32	1/2 - 13
280	284TD 286TD 324TD 326TD	9.00	10.499	12.31 14.38	.25	15.20	1/2 - 13

- C is approximate overall dimension dependent on motor specified.
- **9** D dimension will never be exceeded. When exact dimension is needed shims up to .03 may be required.
- U shaft diameter tolerance 1.50" and smaller +.0000/-.0005, over 1.50" +.000/-.001.
- Y is maximum useable shaft length.
- **9 AK** Pilot diameter tolerance +.000/-.002.

**DIMENSIONS ARE IN INCHES** 



## Outline Drawings - AT-320 through AT-440



#### C-92190/C-92191, C-93190/C-93191, C-94190/C-94191

Model	Motor	Motor Frame A	В	_	C D <b>0</b>	E	F	н	L	N	0	Shaft Extension		
	Frame			٥							0	2.375 2.875	Ya <b></b>	Yb <b>€</b>
320 (STD)	326T 365T	20.00	18.00	49.50 51.50	10.00	8.00	15.00	.75	9.00	3.29	23.60	2.375	4.75	2.88
360 (STD)	365T 405T 445T	22.00	23.00	56.18 63.12 71.75	11.00 10.97	9.00	20.00	.88	14.00	5.78	25.76	2.875	6.44	4.62
440 (STD)	405T 445T 449T	24.00	24.00	67.50 76.10 84.14	12.00 11.97	10.00	21.00	.88	17.14	6.80	28.72	3.375	8.26	5.62

Model	Motor Frame	KEY	AAØ	AB	AC	АН	AJ
320 (STD)	326T 365T	.62 Sq. x 4.00 Lg.	2.00 3.00	11.25	10.00	4.88	13.18 16.68
360 (STD)	365T 405T 445T	.75 Sq. x 6.00 Lg.	3.00	12.37	11.12	6.57	16.68 17.68 19.75
440 (STD)	405T 445T 449T	.88 Sq. x 7.50 Lg.	3.00	13.87	12.62	8.58	17.94 19.56 19.56

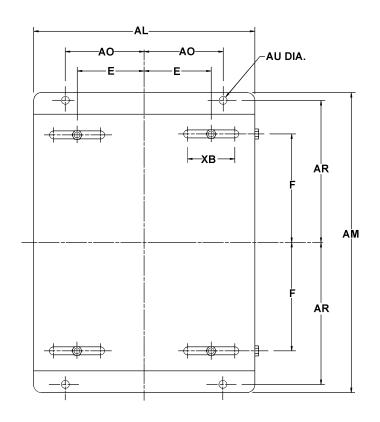
- D dimension will never be exceeded. When exact dimension is needed, shims up to .03 inch may be required.
- U shaft diameter tolerance: +.000/-.001 inch. Diameter shown is standard. Smaller diameter shafts of 2.125 for Model 320 and 2.375 for Model 360 are available upon request.
- Y Dimensions are usable shaft lengths: Ya grease fitting on end; Yb grease fitting on side.
- Onduit box can be turned to any of four positions: horizontally, vertically, opposite side or on top upon request.

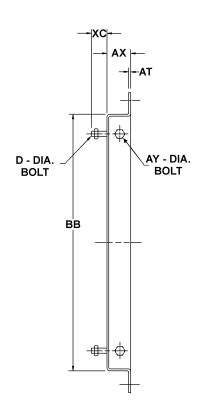
To get weights on above units, please contact the factory.

**DIMENSIONS ARE IN INCHES** 



# Outline Drawings - Adjustable Slide Base Models AT-140 - 440





C-81453, C-64131

Adjustable Slide Base for Dynamatic® Model AT-140 Through AT-440 Drives with Motor

Model	Base Number	D-Bolt	E	F	AL	AM	AO	AR	AT	AU
AT-140	81453-0100	3/8 x 3.00 Lg.	3.75	2.56	12.75	11.50	4.50	5.00	.134	.50
AT-180	81453-0200	3/8 x 3.00 Lg.	4.25	3.12	14.00	13.00	5.00	6.00	.134	.50
AT-210	81453-0300	1/2 x 3.00 Lg.	5.00	3.25	16.00	14.00	6.00	6.50	.164	.50
AT-250	81453-0400	1/2 x 3.00 Lg.	5.50	3.62	18.00	16.50	7.00	7.25	.187	.62
AT-280	81453-0500	5/8 x 3.00 Lg.	7.50	4.06	22.00	17.00	9.00	7.50	.250	.75
AT-320	64131-0200	5/8 x 3.00 Lg.	8.00	7.50	28.75	25.12	10.00	11.25	.250	.88
AT-360	64131-0300	3/4 x 3.00 Lg.	9.00	10.00	31.25	30.12	11.00	13.75	.320	.88
AT-440	64131-0500	3/4 x 3.00 Lg.	10.00	10.50	35.00	33.00	12.50	15.00	.320	1.00

Model	Base Number	AX	AY-Bolt	BB	XB	XC
AT-140	81453-0100	1.50	1/2 Dia.	8.50	3.00	1.00
AT-180	81453-0200	1.50	1/2 Dia.	10.00	3.00	1.00
AT-210	81453-0300	1.75	1/2 Dia.	11.00	3.50	1.25
AT-250	81453-0400	2.00	5/8 Dia.	12.50	4.00	1.25
AT-280	81453-0500	2.25	5/8 Dia.	13.00	5.00	1.75
AT-320	64131-0200	3.00	3/4 x 11.00 Lg.	18.75	7.00	2.50
AT-360	64131-0300	3.00	3/4 x 14.00 Lg.	24.75	7.50	2.50
AT-440	64131-0500	3.50	7/8 x 16.00 Lg.	25.75	8.00	2.50

**DIMENSIONS ARE IN INCHES**