IRONHORSE®

AC Motor Bases for NEMA and IEC Frames

Overview

IronHorse motor mounting bases allow mounting adjustments for 56 through 447T NEMA-frame electric motors in various applications, providing improved belt tensioning and better overall mechanical system alignment. The three types of motor bases are:

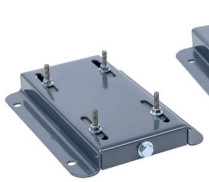
Standard Adjustable Base:
Patented screw design provides the 5x life cycle of other bases. Available as single-bolt adjustment for smaller frames and double-bolt for larger frames. Nuts and washers are provided for securing the motor to the base.

Pivot Base:
Pivot bases feature a clamshell design for vertical belt applications, positioning the motor above or below the driven unit. They're ideal for installations where the angle between the motor and driven unit is 30° or less.

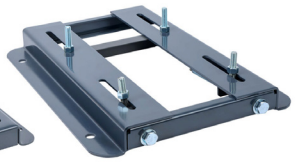
Automatic Base:
Automatically maintains belt tension and compensates for variations in load or belt stretch. This reduces the need to re-tension belts and extends the lifecycle of the mechanical equipment in rugged applications.

Features

- Manufactured to precise dimensional standards
- Dimensionally interchangeable with existing major brands
- Heavy-duty steel construction
- RAL 7024 - Graphite Gray powder coated finish
- Made in the USA



Single-Bolt Adjustable Base



Double-Bolt Adjustable Base



Automatic Base



Pivot Base

IronHorse Motor Bases

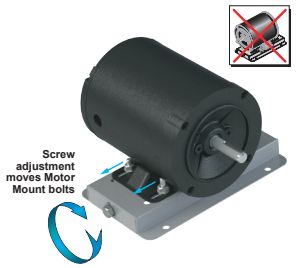
Part Number	Price	NEMA Frame Compatibility	IEC Frame Compatibility (B3, B34, B35 mount)	Product Wt. (lb)	Drawing Link	Installation Sheet Link
Single-Bolt Adjustable Motor Bases						
MBS-SFBASE-56	$21.00	56	–	3	PDF	PDF
MBS-SFBASE-143	$36.00	143T	90S	5	PDF	PDF
MBS-SFBASE-145	$36.00	145T	90L	5	PDF	PDF
MBS-SFBASE-182	$43.00	182T	112S	9	PDF	PDF
MBS-SFBASE-184	$43.00	184T	112M	10	PDF	PDF
MBS-SFBASE-213	$57.00	213T	132S	13	PDF	PDF
MBS-SFBASE-215	$57.00	215T	132M	15	PDF	PDF
Double-Bolt Adjustable Motor Bases						
MBS-DFBASE-254	$100.00	254T	160M	19	PDF	PDF
MBS-DFBASE-256	$100.00	256T	160L	20	PDF	PDF
MBS-DFBASE-284	$112.00	284T	180M	22	PDF	PDF
MBS-DFBASE-286	$112.00	286T	180L	23	PDF	PDF
MBS-DFBASE-324	$165.00	324T	200M	30	PDF	PDF
MBS-DFBASE-326	$165.00	326T	200L	31	PDF	PDF
MBS-DFBASE-364	$226.00	364T	225S	45	PDF	PDF
MBS-DFBASE-365	$226.00	365T	225M	46	PDF	PDF
MBS-DFBASE-404	$257.00	404T	250S	55	PDF	PDF
MBS-DFBASE-405	$257.00	405T	250M	56	PDF	PDF
MBS-DFBASE-444	$290.00	444T	280S	74	PDF	PDF
MBS-DFBASE-445	$290.00	445T	280M	75	PDF	PDF
MBS-DFBASE-447	$384.00	447T	–	89	PDF	PDF
Pivot Motor Bases						
MBS-PBASE-56.140	$83.00	56, 143T, 145T	90	16	PDF	PDF
MBS-PBASE-180.210	$120.00	182T, 184T, 213T, 215T	112, 132	24.1	PDF	PDF
MBS-PBASE-250.280	$200.00	254T, 256T, 284T, 286T	160, 180	41	PDF	PDF
Automatic Motor Bases						
MBS-ABASE-56	$186.00	56	–	5	PDF	PDF
MBS-ABASE-140	$315.00	143T, 145T	90	10	PDF	PDF
MBS-ABASE-180	$494.00	182T, 184T	112	18	PDF	PDF
MBS-ABASE-210	$682.00	213T, 215T	132	30	PDF	PDF
MBS-ABASE-250	$963.00	254T, 256T	160	50	PDF	PDF
MBS-ABASE-280	$1,122.00	284T, 286T	180	65	PDF	PDF

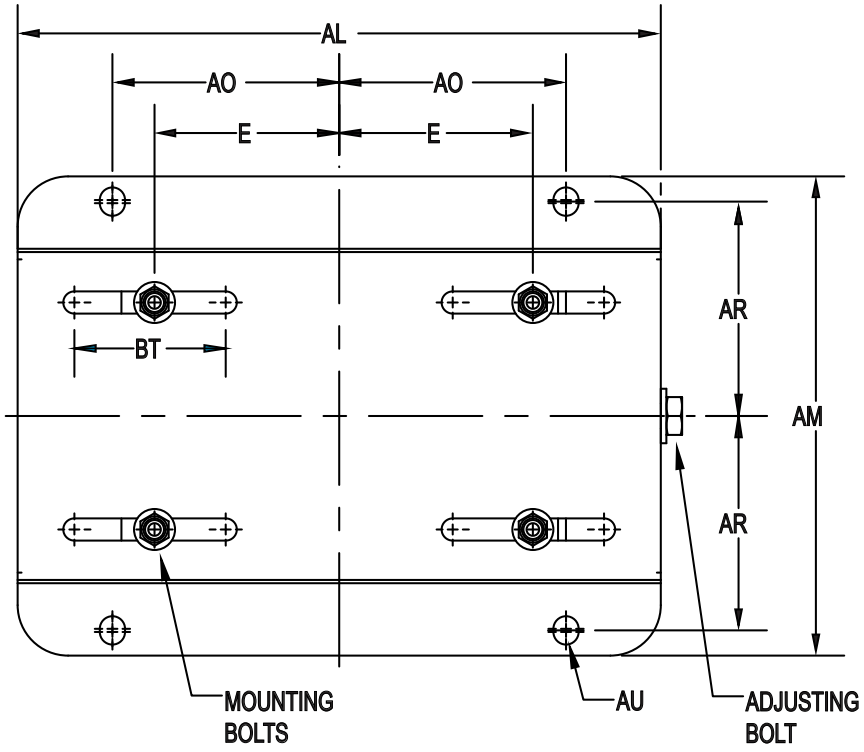
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AC Motor Bases for NEMA and IEC Frames

Single-Bolt Adjustable Motor Bases







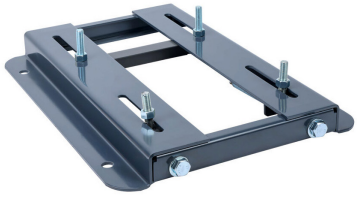
IronHorse Single-Bolt Adjustable Motor Bases Dimensions*															
Part Number	*Frame Size*	*AL*	*AM*	*AX*	*BB*	*E*	*F*	*AO*	*AR*	*AU*	*BT*	*AT*	*XC*	*Mounting Bolts*	*Adjusting Bolts*
MBS-SFBASE-56	56	10.63	6.5	1.13	4.5	2.44	1.5	3.81	2.88	0.38	3	0.08	0.88	5/16”-18	3/8”-16
MBS-SFBASE-143	143T	10.5	7.5	1.18	5.5	2.75	2	3.75	3.38	0.38	3	0.13	0.81	5/16”-18	3/8”-16
MBS-SFBASE-145	145T	10.5	8.5	1.18	6.5	2.75	2.5	3.75	3.88	0.43	3	0.13	0.81	5/16”-18	3/8”-16
MBS-SFBASE-182	182T	12.75	9.5	1.5	6.5	3.75	2.25	4.5	4.25	0.5	3	0.13	1.5	3/8”-16	1/2”-13
MBS-SFBASE-184	184T	12.75	10.5	1.5	7.5	3.75	2.75	4.5	4.75	0.5	3	0.13	1.5	3/8”-16	1/2”-13
MBS-SFBASE-213	213T	15	11	1.75	7.5	4.25	2.75	5.25	4.75	0.5	3.5	0.16	1.5	3/8”-16	1/2”-13
MBS-SFBASE-215	215T	15	12.5	1.75	9	4.25	3.5	5.25	5.5	0.5	3.5	0.16	1.5	3/8”-16	1/2”-13

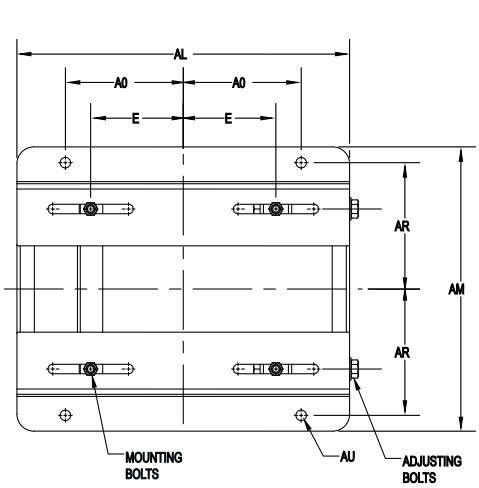
*Dimensions are in inches

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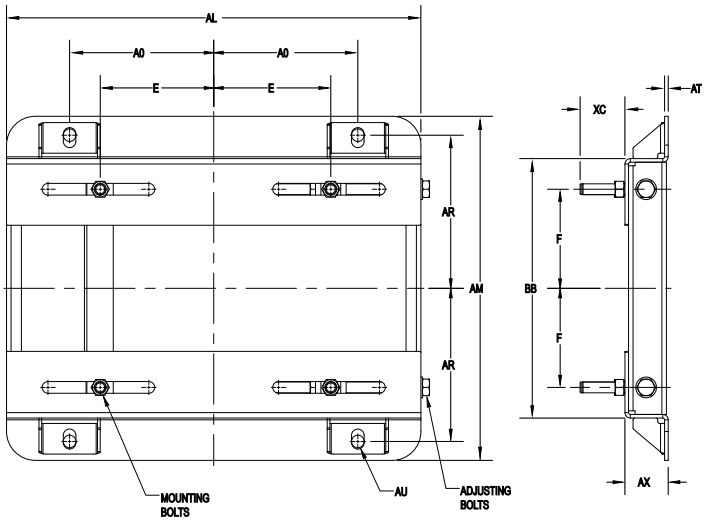
AC Motor Bases for NEMA and IEC Frames

Double-Bolt Adjustable Motor Bases





MBS-DFBASE-254 through MBS-DFBASE-365



MBS-DFBASE-404 through MBS-DFBASE-447

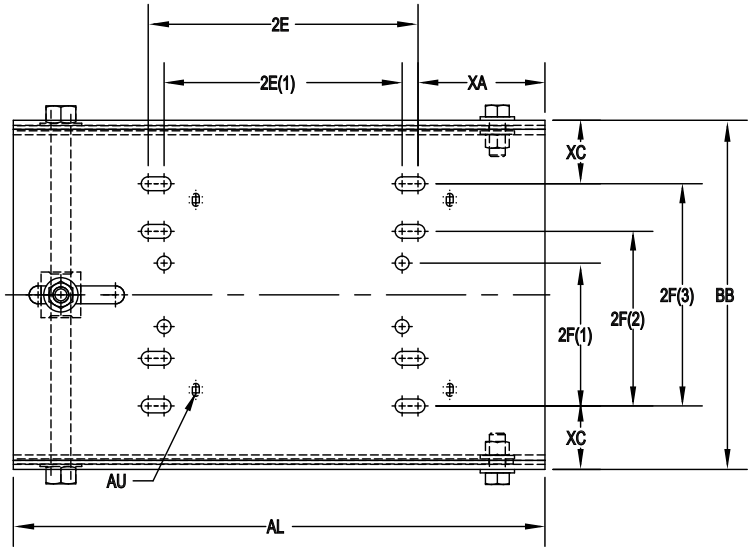
IronHorse Double-Bolt Adjustable Motor Bases Dimensions*															
Part Number	*Frame Size*	*AL*	*AM*	*AX*	*BB*	*E*	*F*	*AO*	*AR*	*AU*	*BT*	*AT*	*XC*	*Mounting Bolts*	*Adjusting Bolts*
MBS-DFBASE-254	254T	17.75	15.13	2.00	10.75	5.00	4.13	6.25	6.63	0.63	4.00	0.19	1.75	1/2”-13	5/8”-11
MBS-DFBASE-256	256T	17.75	16.88	2.00	12.50	5.00	5.00	6.25	7.50	0.63	4.00	0.19	1.75	1/2”-13	5/8”-11
MBS-DFBASE-284	284T	19.75	16.88	2.00	12.50	5.50	4.75	7.00	7.50	0.63	4.50	0.19	2.25	1/2”-13	5/8”-11
MBS-DFBASE-286	286T	19.75	18.38	2.00	14.00	5.50	5.50	7.00	8.25	0.63	4.50	0.19	2.25	1/2”-13	5/8”-11
MBS-DFBASE-324	324T	22.75	19.25	2.50	14.00	6.25	5.25	8.00	8.50	0.75	5.25	0.19	2.63	5/8”-11	3/4”-10
MBS-DFBASE-326	326T	22.75	20.75	2.50	15.50	6.25	6.00	8.00	9.25	0.75	5.25	0.19	2.63	5/8”-11	3/4”-10
MBS-DFBASE-364	364T	25.50	20.50	2.50	15.50	7.00	5.63	9.00	9.13	0.75	6.00	0.25	2.56	5/8”-11	3/4”-10
MBS-DFBASE-365	365T	25.50	21.50	2.50	16.50	7.00	6.13	9.00	9.63	0.75	6.00	0.25	2.56	5/8”-11	3/4”-10
MBS-DFBASE-404	404T	28.75	22.38	3.00	16.50	8.00	6.13	10.00	9.88	0.88	7.00	0.25	3.13	3/4”-10	3/4”-10
MBS-DFBASE-405	405T	28.75	23.88	3.00	18.00	8.00	6.88	10.00	10.63	0.88	7.00	0.25	3.13	3/4”-10	3/4”-10
MBS-DFBASE-444	444T	31.25	24.63	3.00	19.25	9.00	7.25	11.00	11.00	0.88	7.00	0.31	3.00	3/4”-10	3/4”-10
MBS-DFBASE-445	445T	31.25	26.63	3.00	21.25	9.00	8.25	11.00	12.00	0.88	7.00	0.31	3.00	3/4”-10	3/4”-10
MBS-DFBASE-447	447T	31.25	30.13	3.00	24.75	9.00	10.00	11.00	13.75	0.88	7.00	0.31	3.00	3/4”-10	3/4”-10
*Dimensions are in inches															

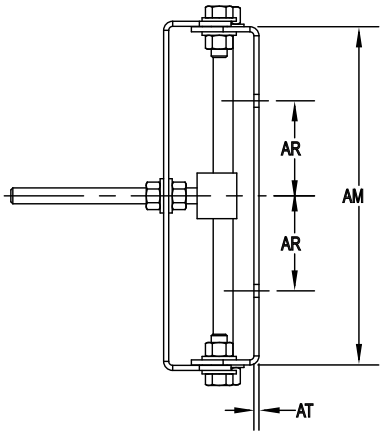
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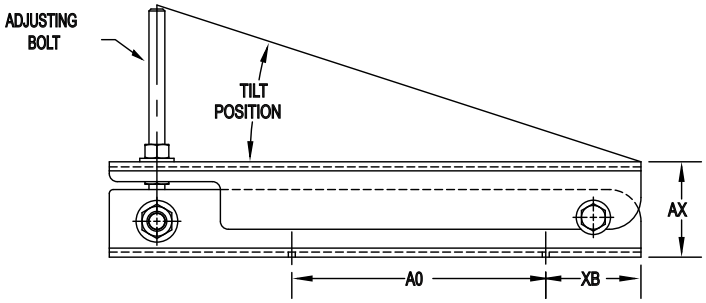
AC Motor Bases for NEMA and IEC Frames

Pivot Motor Bases









IronHorse Pivot Motor Bases Dimensions*																
Part Number	Frame Size	AL	AM	AX	BB	XA	2E	XC	2F	XB	AO	AU	AR	AT	Adjusting Bolts	Tilt Position
MBS-PBASE-56.140	56	15.00	7.19	3.50	7.50	3.00	4.88	1.25	2.50	3.00	5.50	0.38	2.25	0.14	1/2"-13	30°
	143T						5.50		4.00							
	145T						5.50		5.00							
MBS-PBASE-180.210	182T	16.75	10.66	3.00	11.00	4.00	7.50	2.00	4.50	3.00	8.00	0.22	3.00	0.16	1/2"-13	30°
	184T						7.50		5.50							
	213T						8.50		5.50							
	215T						8.50		7.00							
MBS-PBASE-250.280	254T	20.00	14.63	3.50	15.00	4.50	10.00	2.00	8.25	3.00	9.00	0.56	5.00	0.19	5/8"-11	30°
	256T						10.00		9.50							
	284T						11.00		10.00							
	286T						11.00		11.00							

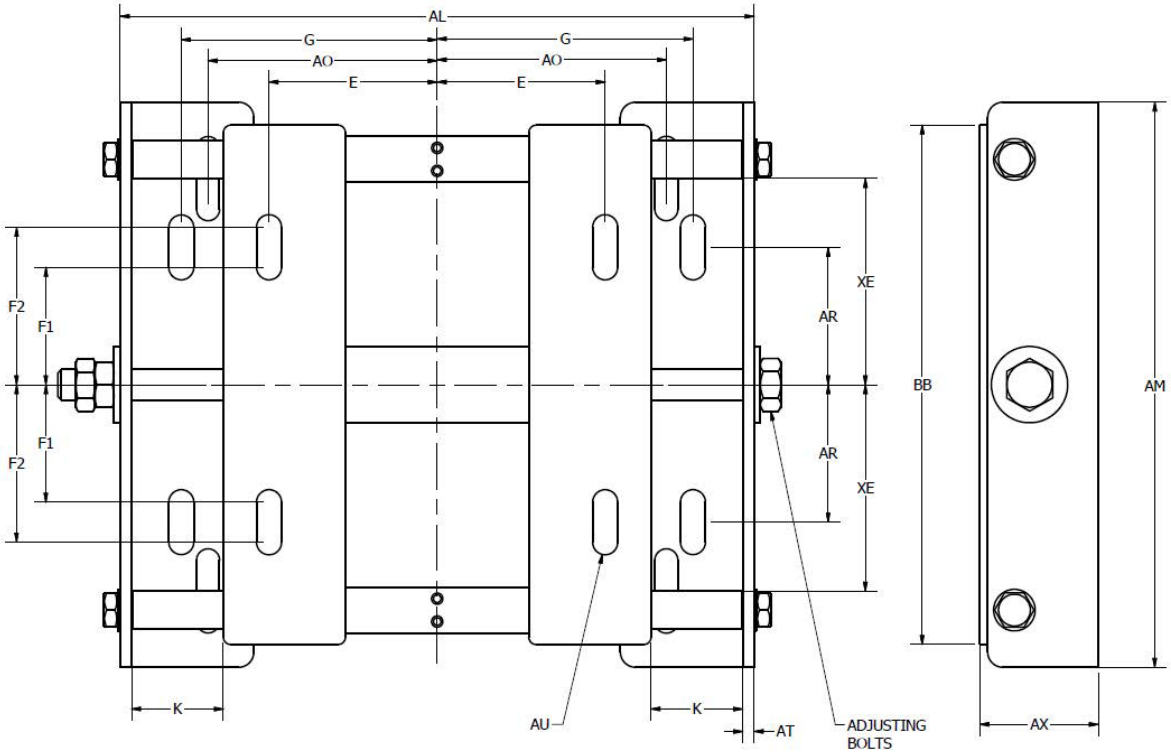
*Dimensions are in inches

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AC Motor Bases for NEMA and IEC Frames

Automatic Motor Bases





IronHorse Automatic Motor Bases Dimensions*																
Part Number	Frame Sizes	AL	AM	AX	BB	E	F1	F2	AO	G	AR	XE	AU	AT	K	Adjusting Bolts
MBS-ABASE-56	48–56	8.50	7.00	1.38	6.13	2.44	1.25	1.75	3.50	3.75	1.50	–	0.38 x 0.84	0.12	1.06	3/8”-16
MBS-ABASE-140	143T–145T	10.38	9.22	1.94	8.50	2.75	1.94	2.56	3.75	4.19	2.75	3.41	0.41 x 1.06	0.19	1.50	1/2”-13
MBS-ABASE-180	182T–184T	12.50	11.00	2.09	9.63	3.75	2.19	2.81	4.50	5.13	2.50	4.50	0.41 x 1.06	0.25	1.50	5/8”-11
MBS-ABASE-210	213T–215T	14.50	12.50	2.63	11.75	4.25	2.69	3.56	5.25	5.88	3.13	4.66	0.41 x 1.31	0.25	1.75	3/4”-10
MBS-ABASE-250	254T–256T	17.13	17.00	3.13	15.50	5.00	4.06	5.06	6.25	7.19	4.56	7.13	0.56 x 1.56	0.31	2.00	1”-8
MBS-ABASE-280	284T–286T	19.75	18.50	3.19	17.00	5.50	4.56	5.56	7.00	8.50	5.06	8.00	0.56 x 1.56	0.38	2.50	1”-8

*Dimensions are in Inches