

**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:

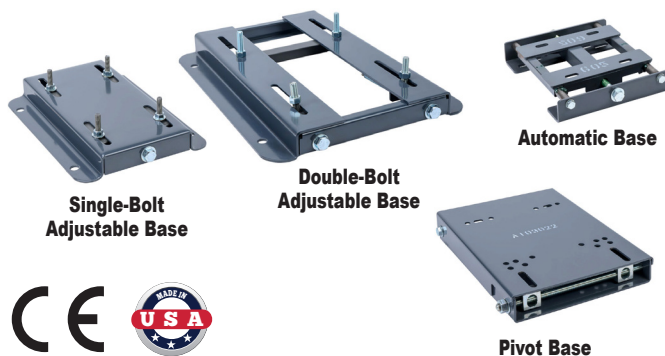
Pivot bases feature a clamshell design for vertical belt applications, positioning the motor above or below the driven unit. They're ideal for installations where the angle between the motor and driven unit is 30° or less.

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



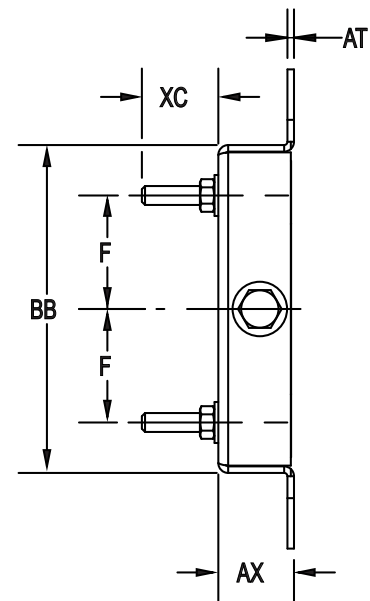
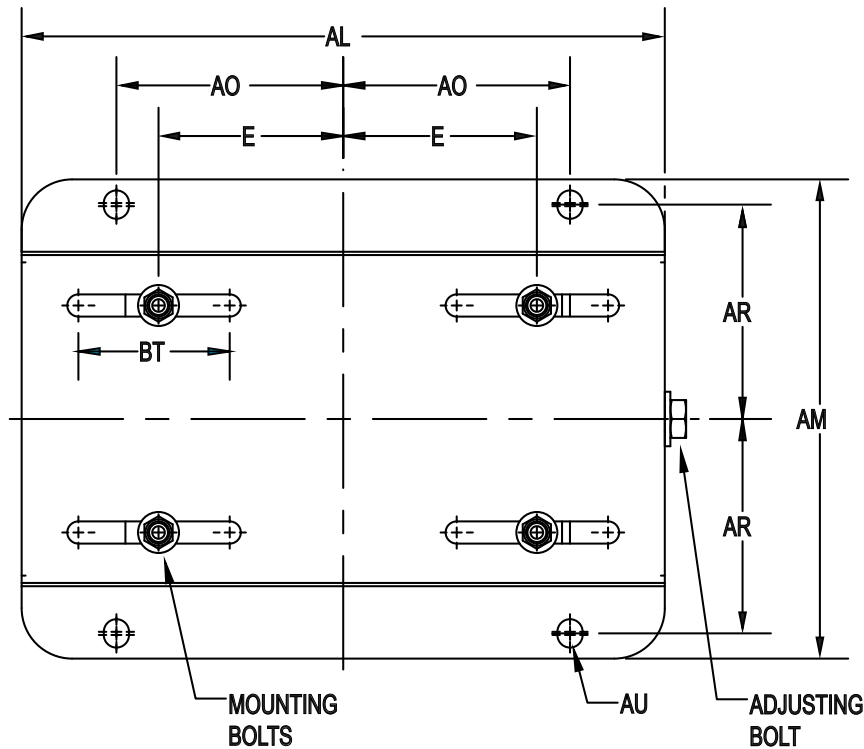
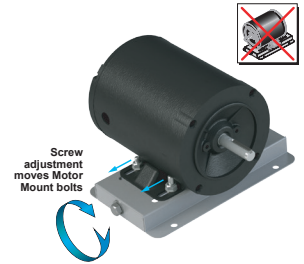
IronHorse Motor Bases

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



IRONHORSE® 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
<u>MBS-SFBASE-56</u>	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
<u>MBS-SFBASE-143</u>	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
<u>MBS-SFBASE-145</u>	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
<u>MBS-SFBASE-182</u>	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
<u>MBS-SFBASE-184</u>	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
<u>MBS-SFBASE-213</u>	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
<u>MBS-SFBASE-215</u>	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

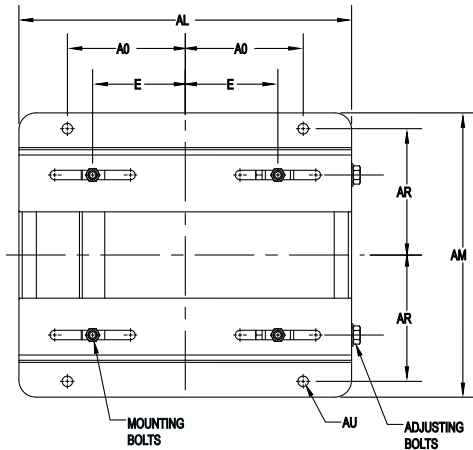
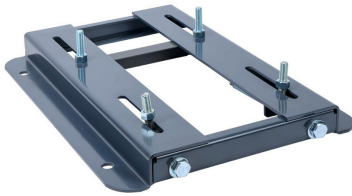
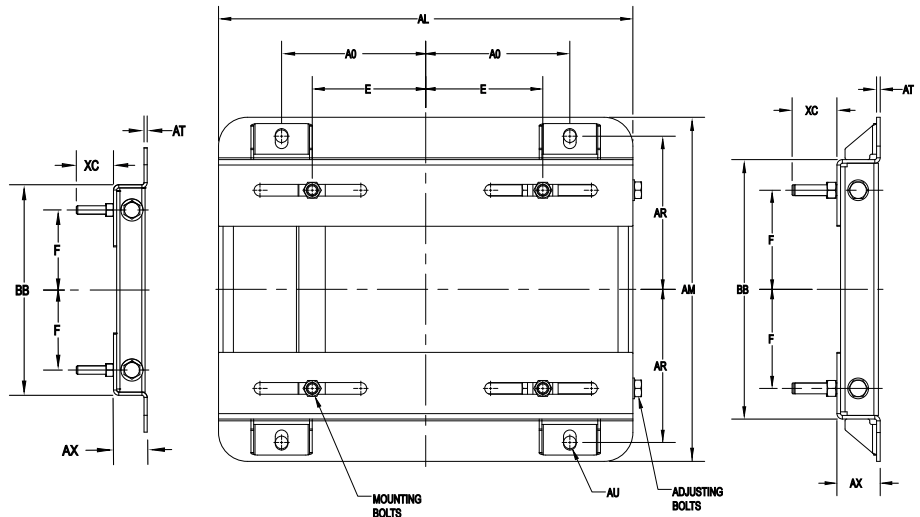
*Dimensions are in inches

**IRONHORSE®**

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*

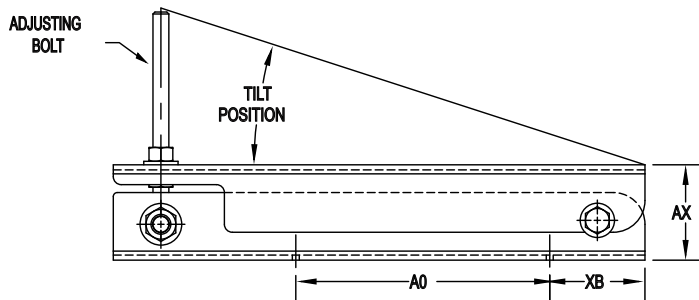
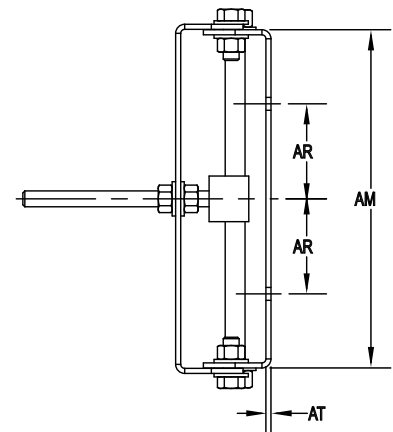
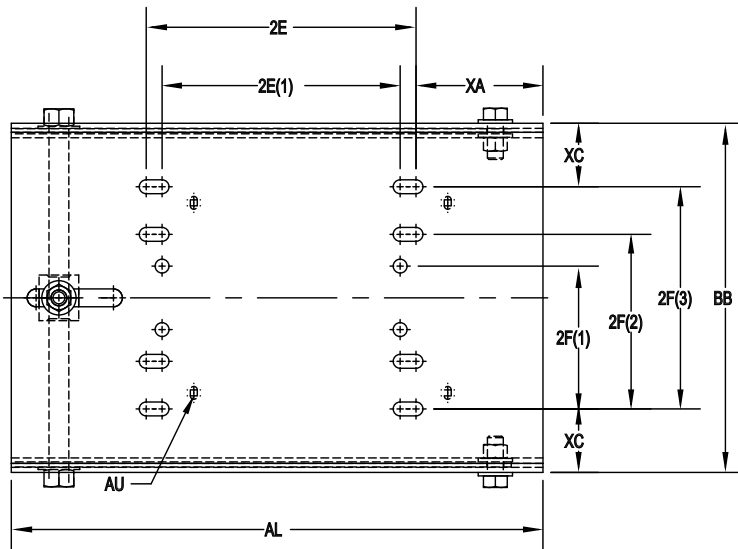
Part Number	Frame Size	AL	AM	AX	BB	E	F	AO	AR	AU	BT	AT	XC	Mounting Bolts	Adjusting Bolts
<u>MBS-DFBASE-254</u>	254T	17.75	15.13	2.00	10.75	5.00	4.13	6.25	6.63	0.63	4.00	0.19	1.75	1/2"-13	5/8"-11
<u>MBS-DFBASE-256</u>	256T	17.75	16.88	2.00	12.50	5.00	5.00	6.25	7.50	0.63	4.00	0.19	1.75	1/2"-13	5/8"-11
<u>MBS-DFBASE-284</u>	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
<u>MBS-DFBASE-286</u>	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
<u>MBS-DFBASE-324</u>	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
<u>MBS-DFBASE-326</u>	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
<u>MBS-DFBASE-364</u>	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
<u>MBS-DFBASE-365</u>	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
<u>MBS-DFBASE-404</u>	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
<u>MBS-DFBASE-405</u>	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
<u>MBS-DFBASE-444</u>	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
<u>MBS-DFBASE-445</u>	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
<u>MBS-DFBASE-447</u>	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

**IRONHORSE®****Pivot Motor Bases**

AC Motor Bases for NEMA and IEC

Frames



IronHorse Pivot Motor Bases Dimensions*

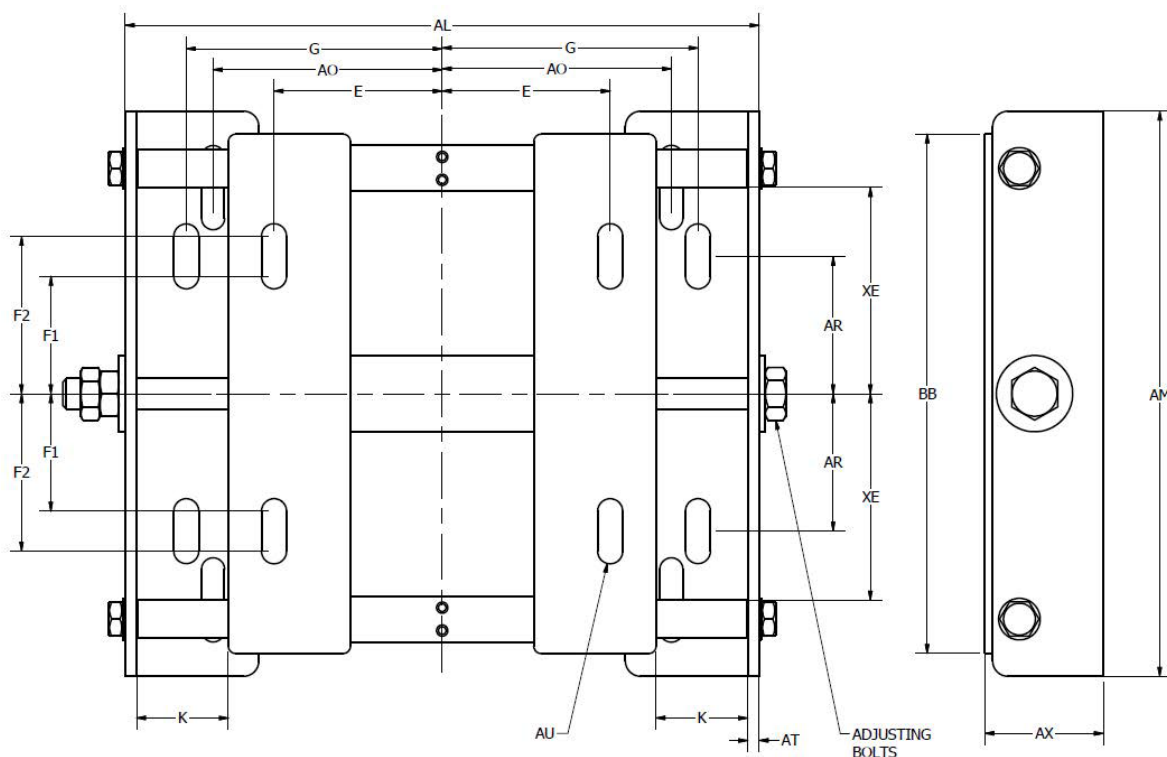
Part Number	Frame Size	AL	AM	AX	BB	XA	2E	XC	2F	XB	AO	AU	AR	AT	Adjusting Bolts	Tilt Position
<u>MBS-PBASE-56.140</u>	56	15.00	7.19	3.50	7.50	3.00	4.88	1.25	2.50	3.00	5.50	0.38	2.25	0.14	1/2"-13	30°
	143T						5.50		4.00							
	145T						5.50		5.00							
<u>MBS-PBASE-180.210</u>	182T	16.75	10.66	3.00	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							
<u>MBS-PBASE-250.280</u>	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



IRONHORSE® 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
<u>MBS-ABASE-56</u>	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
<u>MBS-ABASE-140</u>	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
<u>MBS-ABASE-180</u>	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
<u>MBS-ABASE-210</u>	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
<u>MBS-ABASE-250</u>	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
<u>MBS-ABASE-280</u>	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