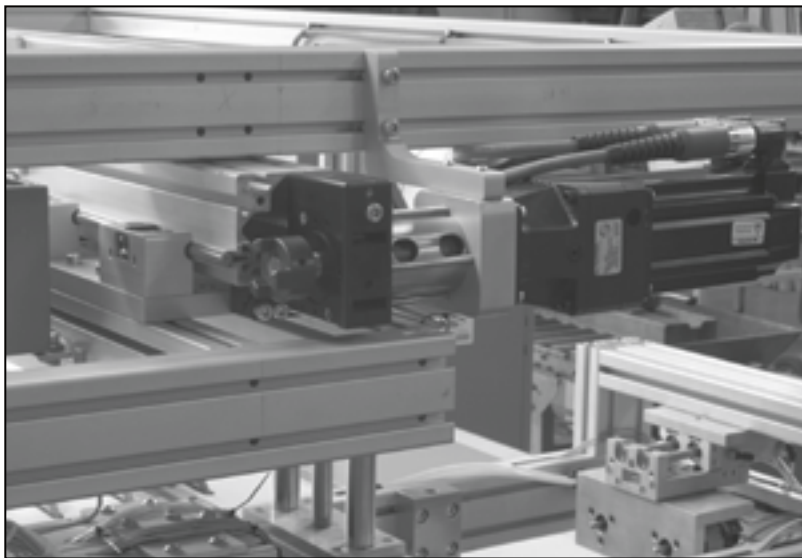
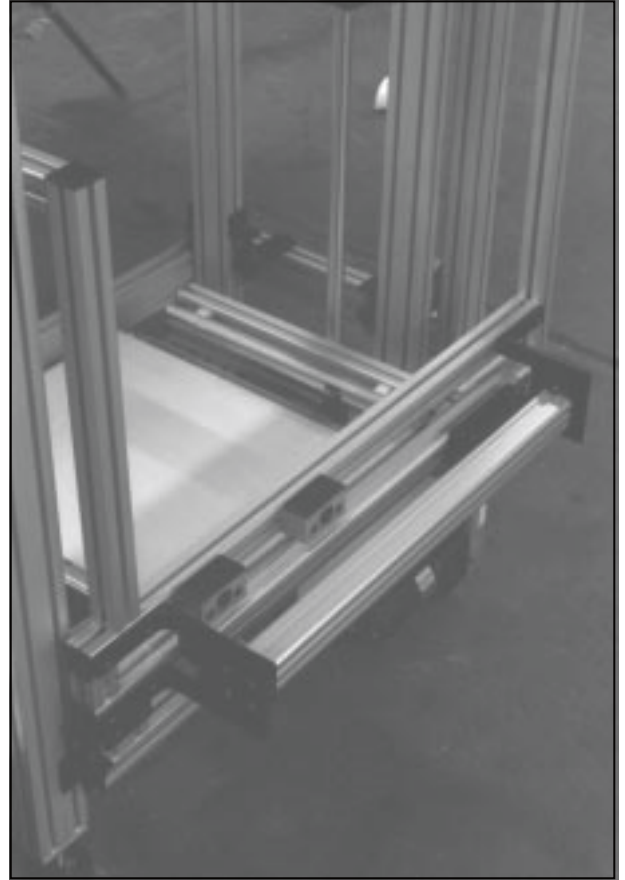
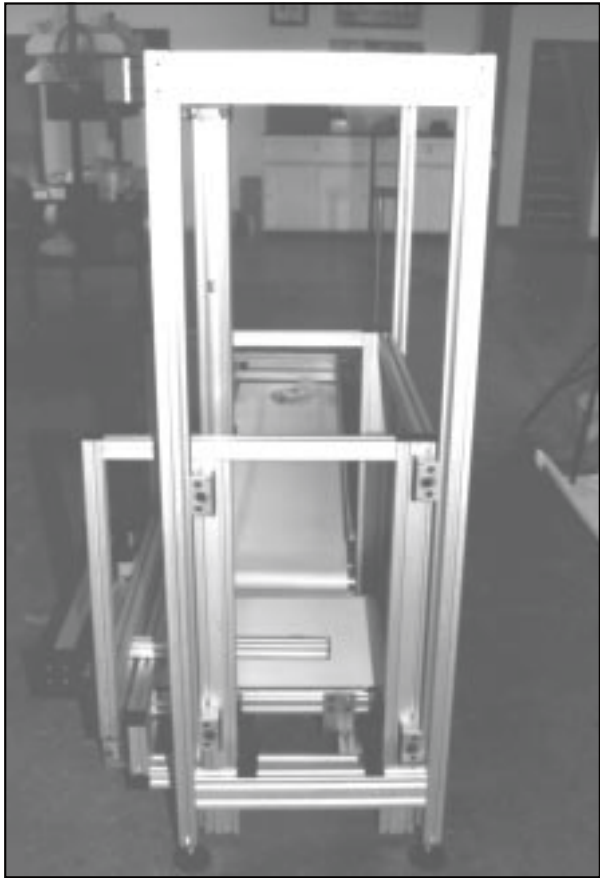


# a lex<sup>®</sup> **Linear Motion Components**

- UHMW Glide Blocks
- LM 10 Linear Rail System

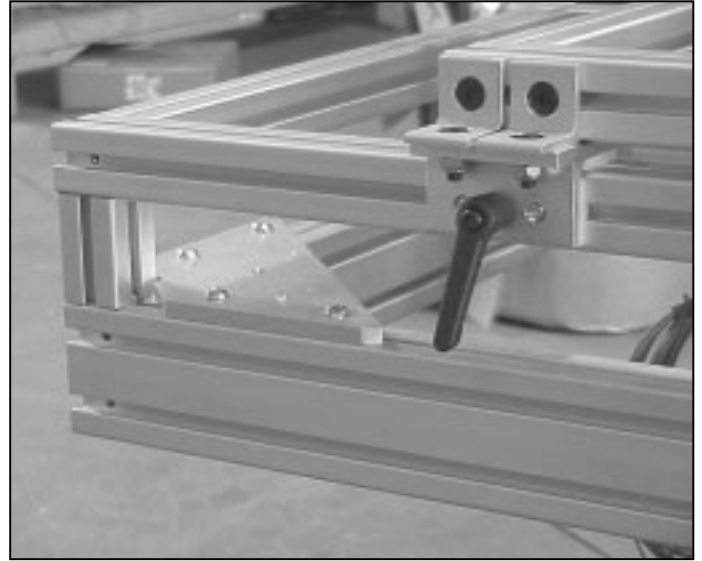


- Simple
- Rugged
- Compact
- Versatile Design
- Use with Timing Belt
- Rodless Cylinder
- Lead Screw

# a lex<sup>®</sup> **Linear Motion Components**



LM10 Application

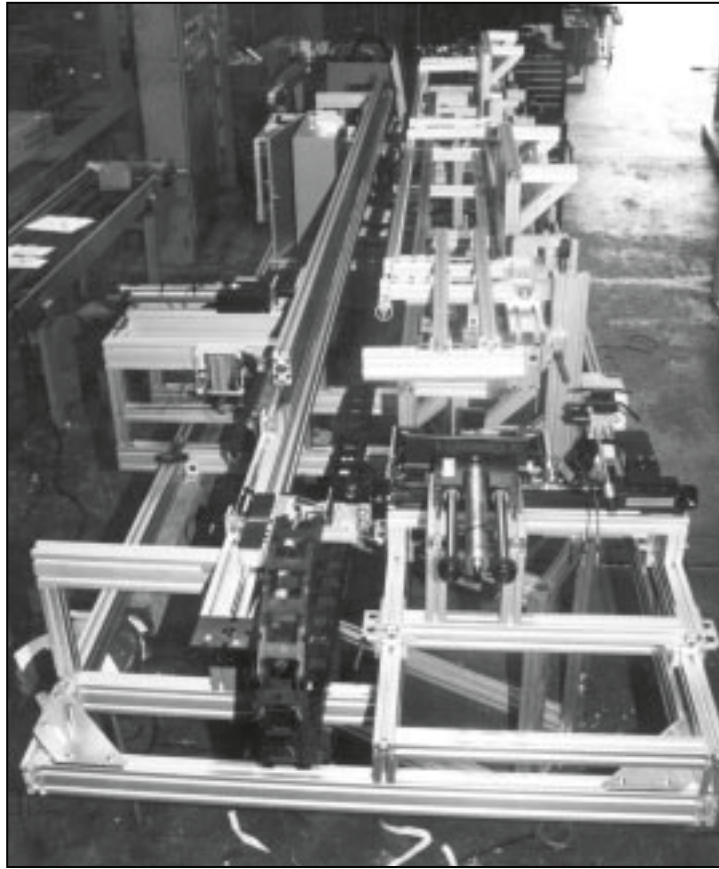


Guide Block Application



Guide Block Application

# a lex<sup>®</sup> *Linear Motion Components*



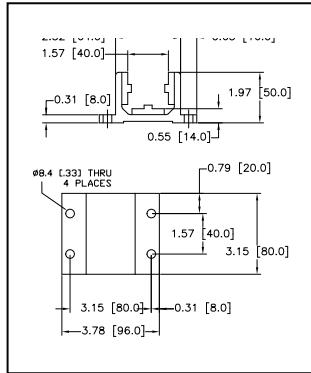
LM10 Application



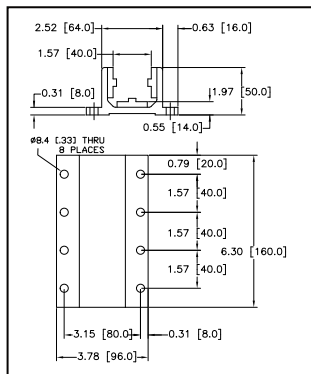
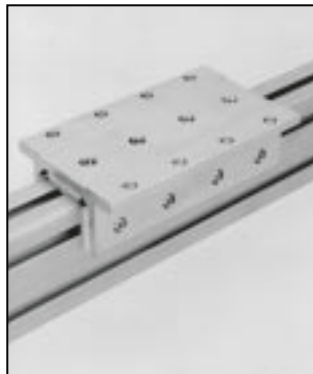
LM10 Application

# a lex<sup>®</sup> *Linear Motion Components*

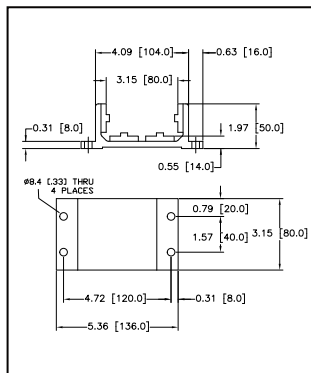
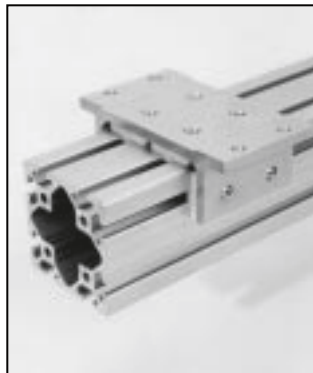
## Glide Carriage



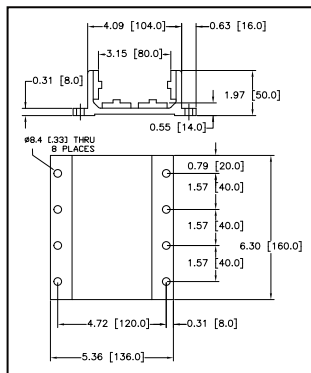
40mm single



40mm double



80mm single



80mm double

## Applications

General linear motion  
Used on 40 or 80 mm  
profiles

T-slotted UHMW for  
orientation

Shim kits available for  
precision fit

## Description

40 mm single  
40 mm double  
80 mm single  
80 mm double

## Technical Specifications

AL housing  
UHMW slide pads  
Clear anodize

## Unit

Each  
Each  
Each  
Each

## Part #

44601  
44602  
44603  
44604



# a lex<sup>®</sup> *Linear Motion Components*

## Glide Block Shim Kit



### Applications

For precision fit of UHMW wear pads or profiles

### Technical Specifications

Spring steel  
.12 mm (.005") thk

### Description

Glide block shim kit

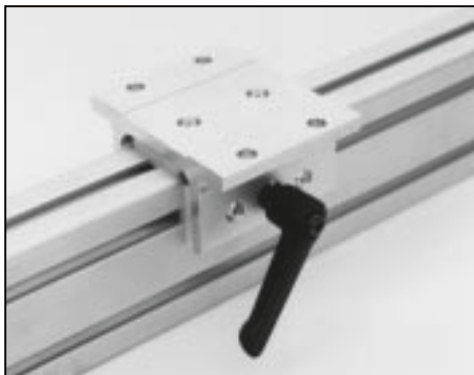
### Unit

Each

### Part #

44600

## Glide Block Clamp Handle



### Applications

To secure glide in place

### Technical Specifications

Glass filled nylon  
M8 thread

### Description

Glide block clamp handle

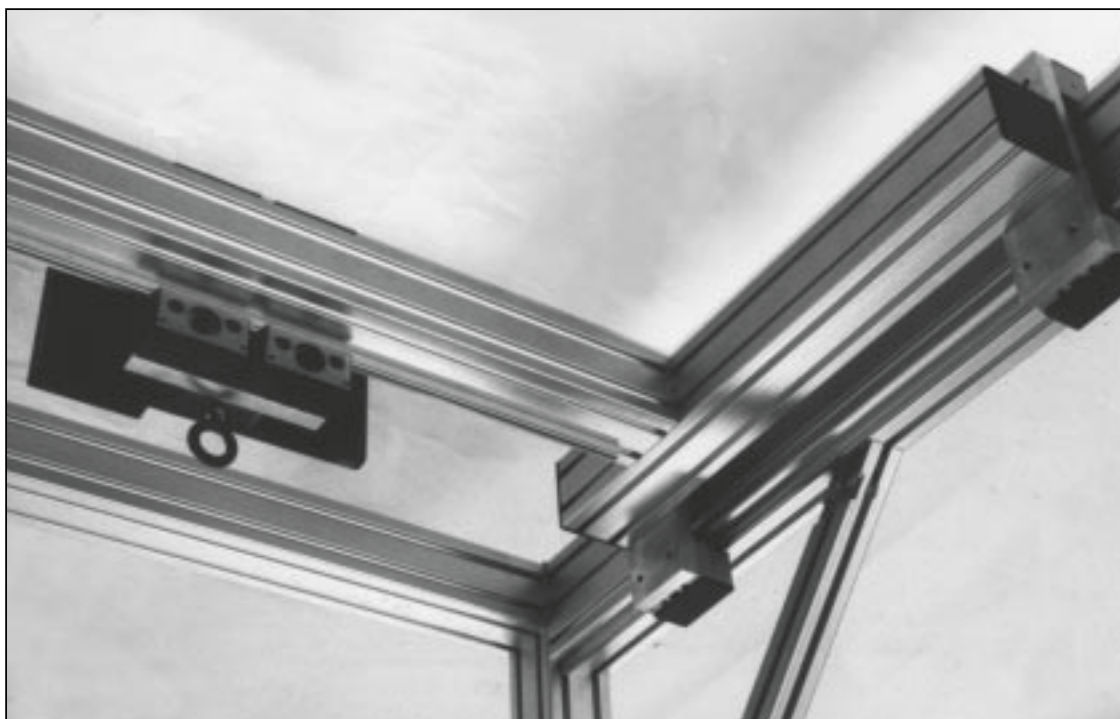
### Unit

Each

### Part #

44605

## LM10 Components



Typical Manual Gantry Construction (LM10)

# a lex<sup>®</sup> *Linear Motion Components*

## Bearing Units



### Applications

Linear bearing  
Support  
See drawing for mounting  
dimensions

### Technical Specifications

Aluminum body  
Felt wipers  
80 mm x 40 mm end caps  
Roller and axle load ratings  
900 Lbs. – Static  
600 Lbs. – Dynamic

### Description

LM10C (linear brg – concentric)  
LM10E (linear brg – eccentric)

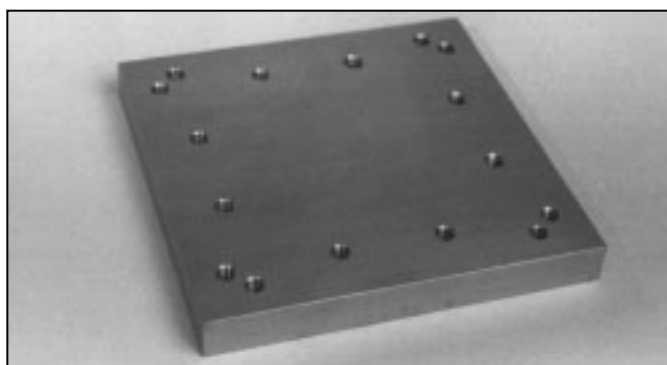
### Unit

Each  
Each

### Part #

44319  
44320

## Standard Motion Plate



### Applications

General  
Mounting plate with holes  
for 8 – LM10 bearing  
units – 4 per axis

### Technical Specifications

Aluminum 6061  
clear anodize

### Description

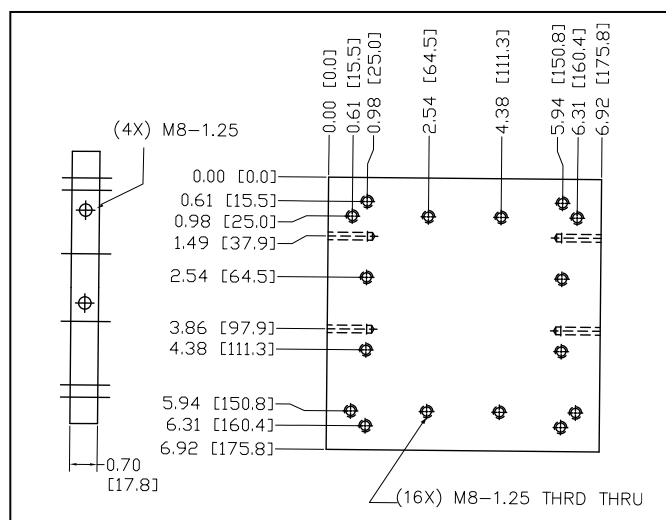
80 mm Standard motion plate  
120 mm Standard motion plate

### Unit

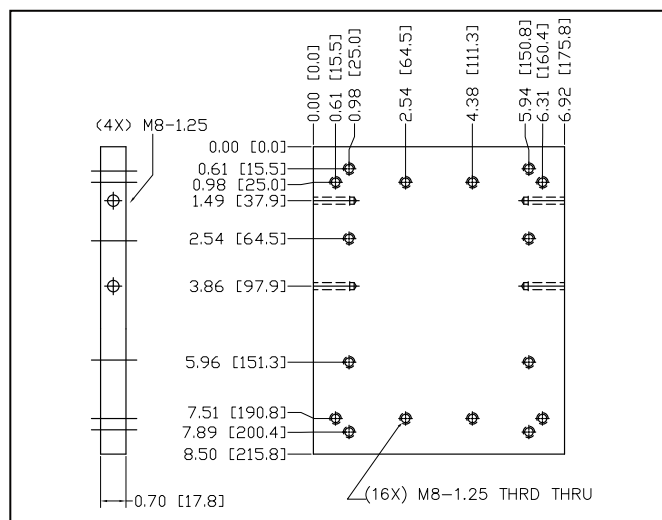
Each  
Each

### Part #

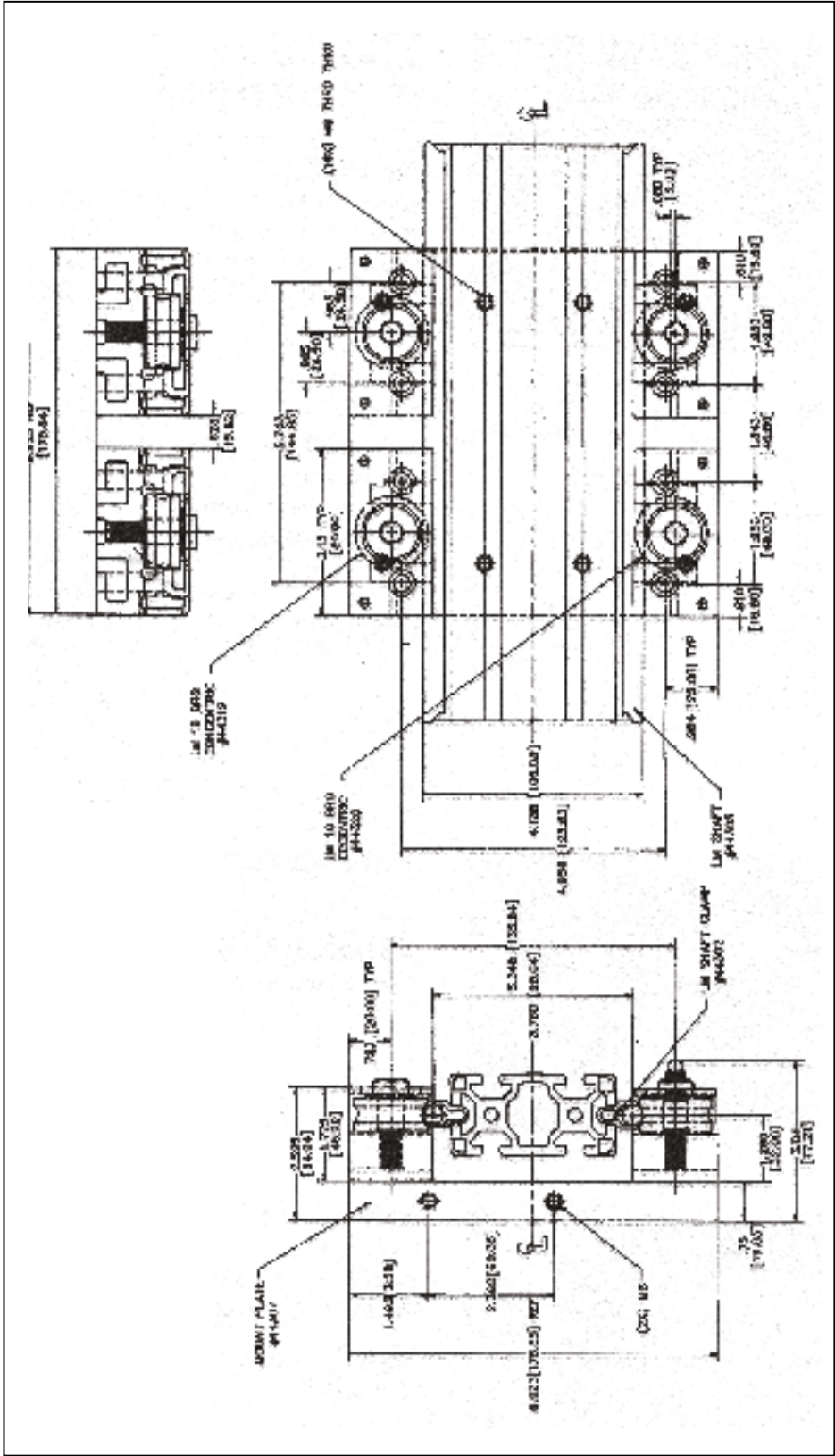
44307  
44308



44307



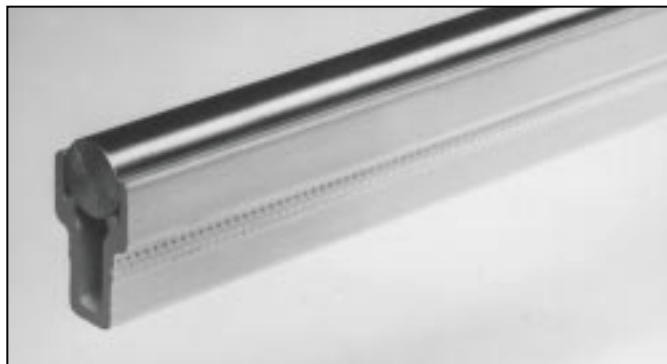
44308



## Standard Linear Motion Plate and LM10 Linear Bearing Units

# a lex<sup>®</sup> *Linear Motion Components*

## Shaft/Shaft Clamp Profile



### Applications

Hardened support of  
LM10 E/C bearing blocks

### Technical Specifications

Shaft 10 mm (.397) diam.  
Clamp – 6063 aluminum  
Clear anodize

### Description

10 mm dia. shaft  
10 mm dia. shaft x 3  
Shaft clamp profile  
Shaft clamp profile x 3

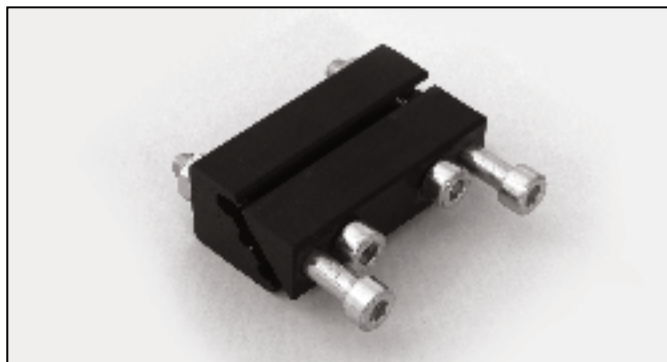
### Unit

M  
Box/10  
M  
Box/10

### Part #

44305  
44306  
44301  
44302

## Belt Tension Clamp



### Applications

Secures each end of  
timing belt to motion  
plate  
Provides tension  
adjustment

### Technical Specifications

Aluminum 6063  
Clear anodize  
2 M8 SHCS x 35 mm  
2 M8 jam nut

### Description

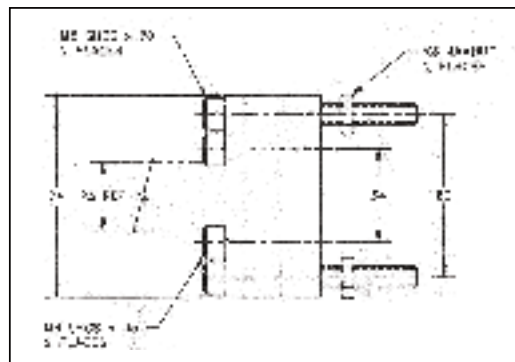
Belt tension clamp

### Unit

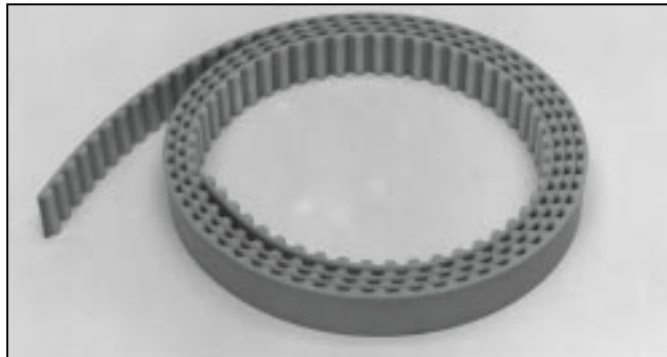
Each

### Part #

44333



## Timing Belt



### Applications

Heavy duty  
Flexible transmission belt  
Maximum tensile load –  
2400 nm

### Technical Specifications

25T10  
Steel reinforced

### Description

Timing belt

### Unit

M

### Part #

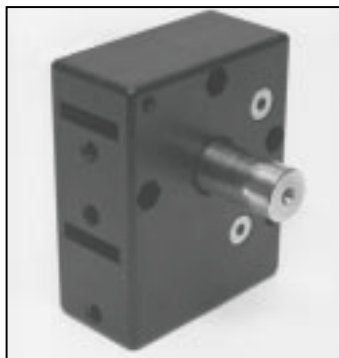
44327

Load rating – 576 Lbs.



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## Belt Reverse Unit



Shaft Version

### Applications

To drive and reverse travel  
direction of timing belt  
2 types available  
Spline bore (14 mm)  
Plain shaft (.750)

### Technical Specifications

Body – Aluminum 6061  
Black anodize  
Pulley  
Pitch – 10 mm  
Pitch dia. – 47.75 mm  
Teeth – 15  
Max load – 14.7 ft/lb

### Description

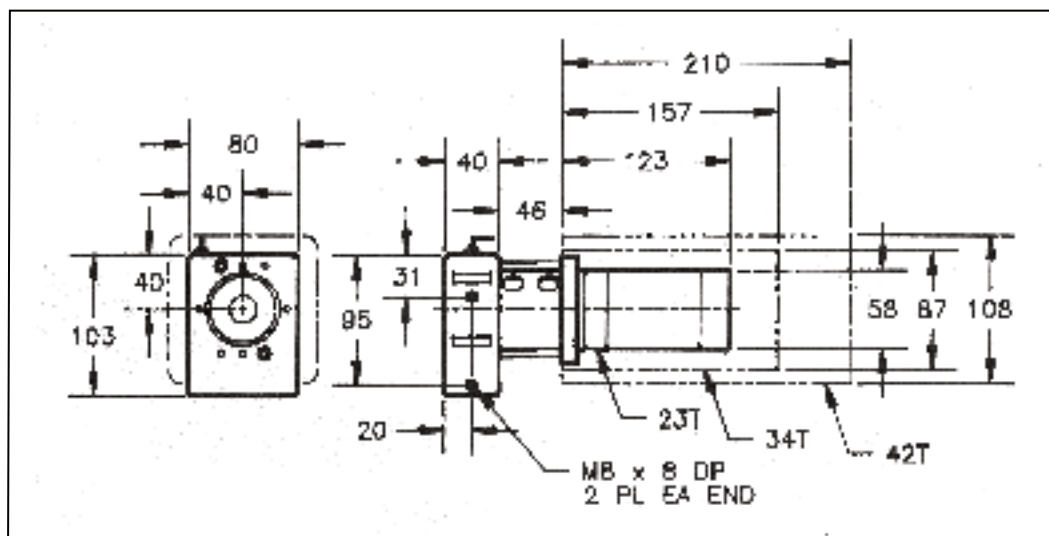
LM reverse unit shaft

### Unit

Box/10

### Part #

44330



## NEMA Motor Mount Kit



### Applications

Kit required to mount  
NEMA framed motors  
to LM module

### Technical Specifications

Adapter tube – aluminum  
Adapter plate – aluminum  
Coupler hardware

### Description

NEMA 23 kit  
NEMA 34 kit  
NEMA 42 kit

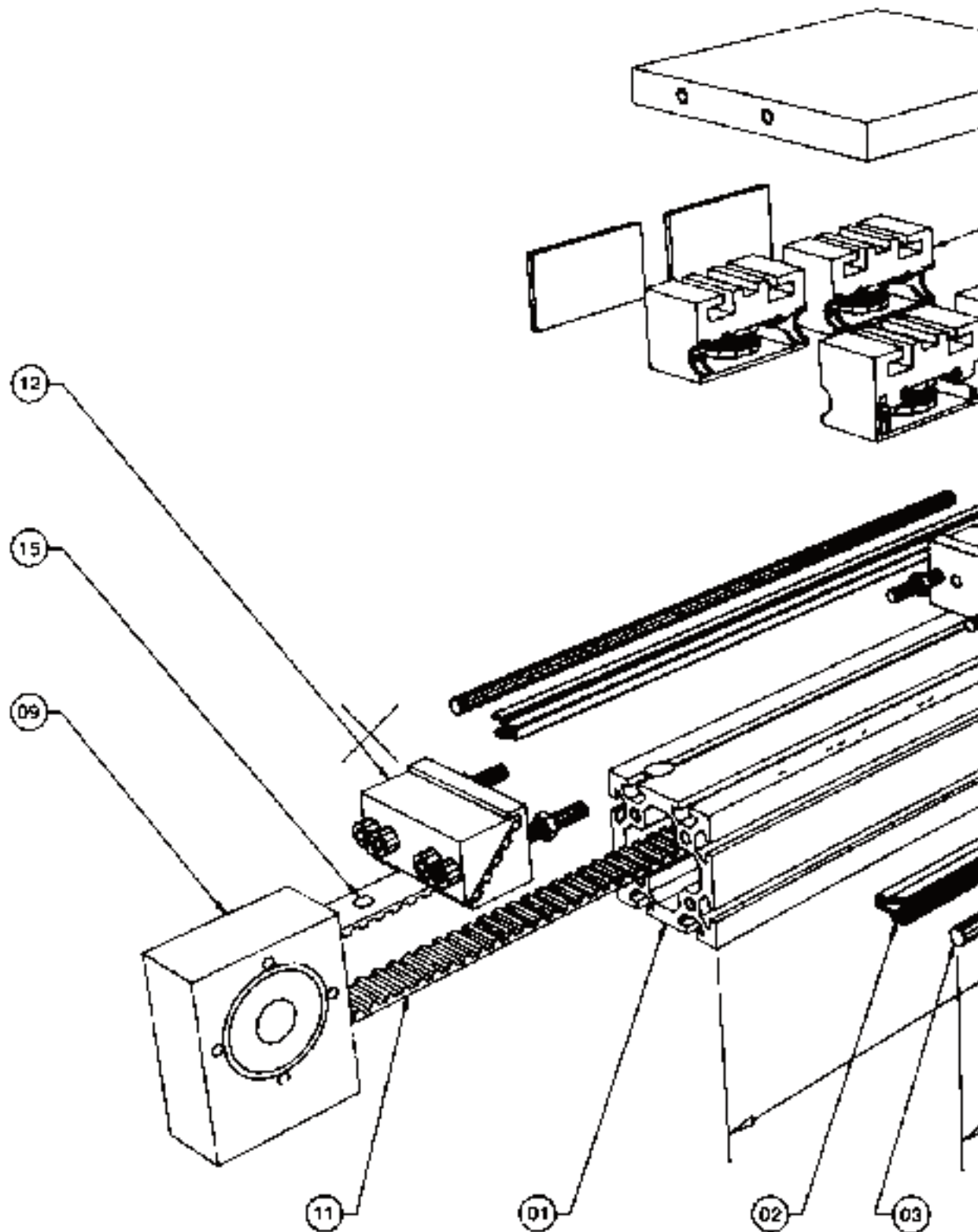
### Unit

Each  
Each  
Each

### Part #

44340  
44341  
44342

# a lex<sup>®</sup> *Linear Motion Components*



# CAD FILES AVAILABLE!

[HTTP://WWW.ALEXPRODUCTS.COM](http://www.alexproducts.com)

## MOUNTING IT INFO

| SHAFT COUPLING and MOTOR ADAPTER |            |            |             |                      |
|----------------------------------|------------|------------|-------------|----------------------|
| ADAPTER                          |            | MOTOR      |             | COUPLING             |
| Part Number                      | NEMA Frame | Shaft Dia. | Part Number | Max Torque (oz. in.) |
| 44340                            | 23         | .250       | coupling #1 | 160                  |
| 44341                            | 34         | .375       | coupling #2 | 880                  |
| 44342                            | 42         | .375       | coupling #2 | 880                  |
| 44342                            | 42         | .500       | coupling #3 | 1264                 |

| #  | Part No. | Description              | Qty. |
|----|----------|--------------------------|------|
| 13 | N/S      | Proximity Switch         | 2    |
| 12 | 44333    | Belt Clamp/Tension Unit  | 2    |
| 11 | 44327    | Timing Belt              | 1    |
| 09 | 44330    | Timing Belt Reverse Unit | 2    |
| 08 | 44094    | 80mm x 40mm End Cap      | 4    |
| 07 | 44320    | Bearing Unit - Eccentric | 2    |
| 06 | 44319    | Bearing Unit - Centric   | 2    |
| 04 | 44307    | Carriage Plate           | 1    |
| 03 | 44305    | Rail Shaft               | 2    |
| 02 | 44301    | Shaft Clamp Profile      | 2    |
| 01 | 44088    | 80 x 80 Profile          | 1    |