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05 | DYNAMIC & STRUCTURAL HINGES















Dynamic hinges are made of 6000 series aluminum alloy with pre-lubricated bronze pivot bearings and hardened stripper bolt axles. The dynamic hinges are designed to give your design from 0 to 180 degrees of axial motion. Dynamic hinges are great for diverter gate applications and have a high load capacity.

Dynamic & Structural Hinges

10 SERIES DYNAMIC HINGES

INCLUDED BOLT ASSEMBLY - For arm to extrusion















QTY	FOR ITEM #	DESCRIPTION
2	653114	1/4-20 x 1/2" FBHSCS & Double Economy T-Nut
4	653105	1/4-20 x 1/2" FHSCS & T-Nut

		IND PART NUMBERS				
		 653111	 653113	 653108	 653114	 653105
ASSEMBLY PART NUMBERS	 653110	1			2	
	 653112		1		2	
	 653109			1	2	
	 653101	1				2
	 653102		1			2
	 653104			1		2
	 653095	1			1	1
	 653096		1		1	1
 653097			1	1	1	

15 SERIES DYNAMIC HINGES

INCLUDED BOLT ASSEMBLY - For arm to extrusion

QTY	FOR ITEM #	DESCRIPTION
2	653211	5/16-18 x 5/8" FBHSCS & Double Economy T-Nut
4	653176	5/16-18 x 5/8" FHSCS & T-Nut

		IND PART NUMBERS				
		 653208	 653210	 653205	 653211	 653176
ASSEMBLY PART NUMBERS	 653207	1			2	
	 653209		1		2	
	 653206			1	2	
	 653154	1				2
	 653155		1			2
	 653156			1		2
	 653195	1			1	1
	 653196		1		1	1
	 653147			1	1	1

0° LIVING NUB

10 S Item Number: **653111** 15 S Item Number: **653208**



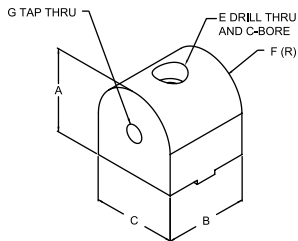
PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(1) 5/16-18 x 1 1/2" SHCS and Economy T-Nut
10 S	(1) 1/4-20 x 1" SHCS and Economy T-Nut

ITEM #	LBS	A	B	C	E	F	G
653111	.070	1.00	.937	1.00	1/4-20 SHCS	.50	1/4-20X.50
653208	.325	1.50	1.437	1.50	5/16-18 SHCS	.75	5/16-18X.75



» See page 05:02 for assemblies.

90° LIVING NUB

10 S Item Number: **653113** 15 S Item Number: **653210**



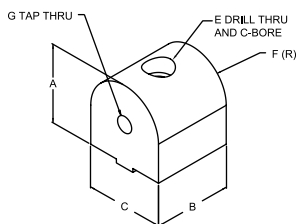
PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(1) 5/16-18 x 1 1/2" SHCS and Economy T-Nut
10 S	(1) 1/4-20 x 1" SHCS and Economy T-Nut

ITEM #	LBS	A	B	C	E	F	G
653113	.070	1.00	.937	1.00	1/4-20 SHCS	.50	1/4-20X.50
653210	.325	1.50	1.437	1.50	5/16-18 SHCS	.75	5/16-18X.75



» See page 05:02 for assemblies.

Dynamic & Structural Hinges

UNIVERSAL LIVING NUB

25S 10 S Item Number: **653108** 15 S Item Number: **653205**



PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

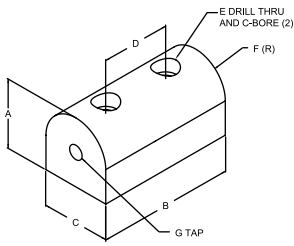
ITEM #	DESCRIPTION
651244	5/16x1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8x3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(2) 5/16-18 x 1 1/2" SHCS and Economy T-Nut
10 S	(2) 1/4-20 x 1" SHCS and Economy T-Nut

ITEM #	LBS	A	B	C	D	E	F	G
653108	.145	1.00	1.937	1.00	1.00	1/4-20 SHCS	.50	1/4-20X.50
653205	.325	1.50	2.937	1.50	1.50	5/16-18 SHCS	.75	5/16-18X.75

» See page 05:02 for assemblies.



STRAIGHT PIVOT ARM

25S 10 S Item Number: **653114** 15 S Item Number: **653211**



PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

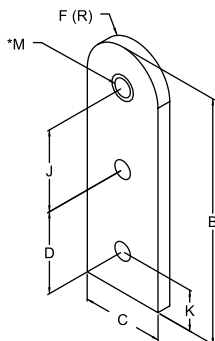
FASTENERS INCLUDED

15 S	(2) 5/16-18 x 5/8" FBHSCS and Double Economy T-Nut
10 S	(2) 1/4-20 x 1/2" FBHSCS and Double Economy T-Nut

ITEM #	A	B	C	D	F	H	J	K	M
653114	.188	3.00	1.00	1.00	.50	.257	1.00	.50	.312
653211	.25	4.50	1.50	1.50	.75	.328	1.50	.75	.375

*M is the internal diameter of the permanently lubricated bronze brushing

» See page 05:02 for assemblies.



"L" PIVOT ARM

10 S Item Number: **653105** 15 S Item Number: **653176**



PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(2) 5/16-18 x 5/8" FBHSCS and Double Economy T-Nut
10 S	(2) 1/4-20 x 1/2" FBHSCS and Double Economy T-Nut

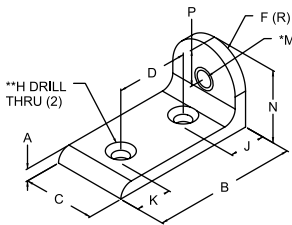
ITEM #	LBS	A	B	C	D	F	H	J	K	M	N	P
653105	.045	.188	2.00	1.00	1.00	.50	DR + C'SINK**	.50	.50	.312	1.00	.50
653176	.145	.25	3.00	1.50	1.50	.75	DR + C'SINK**	.75	.75	.375	1.50	.75

*M is the internal diameter of the permanently lubricated bronze brushing

**653105 has a drill thru and c'sink for 1/4-20 FHSCS

**653176 has a drill thru and c'sink for 5/16-18 FHSCS

» See page 05:02 for assemblies.



0° RIGHT ANGLE LIVING NUB

10 S Item Number: **653022** 15 S Item Number: **653245**



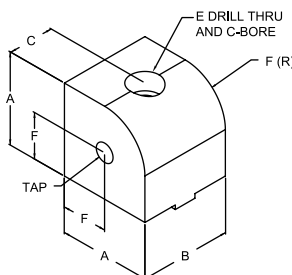
PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(1) 5/16-18 x 1 1/2" SHCS and Economy T-Nut
10 S	(1) 1/4-20 x 1" SHCS and Economy T-Nut

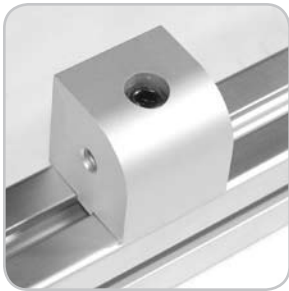
ITEM #	LBS	A	B	C	E	F	G
653022	.074	1.00	.937	.468	1/4-20 SHCS	.50	1/4-20X.50
653245	.327	1.50	1.437	.718	5/16-18 SHCS	.75	5/16-18X.75



Dynamic & Structural Hinges

90° RIGHT ANGLE LIVING NUB

25S 10 S Item Number: **653023** 15 S Item Number: **653246**



ITEM #	DESCRIPTION
653023	10 S Right Angle 90° Living Nub
653246	15 S 90° Right Angle Living Nub

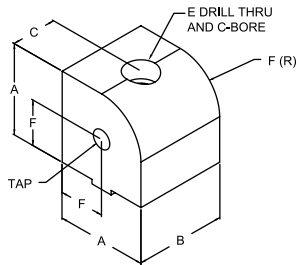
PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(1) 5/16-18 x 1 1/2" SHCS and Economy T-Nut
10 S	(1) 1/4-20 x 1" SHCS and Economy T-Nut

ITEM #	LBS	A	B	C	E	F	G
653023	.074	1.00	.937	.468	1/4-20 SHCS	.50	1/4-20X.50
653246	.327	1.50	1.437	.718	5/16-18 SHCS	.75	5/16-18X.75



UNIVERSAL RIGHT ANGLE LIVING NUB

25S 10 S Item Number: **653024** 15 S Item Number: **653247**



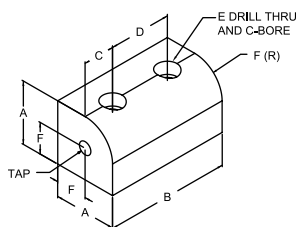
PIVOT BOLT ASSEMBLY - Recommended bolt assembly to extrusion

ITEM #	DESCRIPTION
651244	5/16 x 1/4 Stripper Bolt & Thrust Washer (10 S)
651243	3/8 x 3/8 Stripper Bolt & Thrust Washer (15 S)

FASTENERS INCLUDED

15 S	(2) 5/16-18 x 1 1/2" SHCS and Economy T-Nut
10 S	(2) 1/4-20 x 1" SHCS and Economy T-Nut

ITEM #	LBS	A	B	C	D	E	F	G
653024	.145	1.00	1.937	.468	1.00	1/4-20 SHCS	.50	1/4-20X.50
653247	.654	1.50	2.937	.718	1.50	5/16-18 SHCS	.75	5/16-18X.75



90° PIVOT BRACKET ASSEMBLY

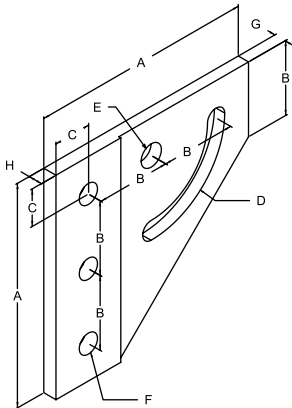


ASSEMBLY	PLATE ONLY	DESCRIPTION
653076	653070	10 S 90° Left Hand Pivot Bracket (25S)
653082	653074	10 S 90° Right Hand Pivot Bracket (25S)
653172	653166	15 S 90° Pivot Bracket Left Hand
653180	653170	15 S 90° Pivot Bracket Right Hand

BOLT ASSEMBLY - Recommended bolt assembly to extrusion (plate to slot)

QTY	ITEM #	DESCRIPTION
3	651130	1/4-20 x 1/2" FBHSCS and Economy T-Nut (10 S)
3	651129	5/16-18 x 5/8" FBHSCS and Economy T-Nut (15 S)

- 90 Degrees of motion
- Permanently lubricated bronze bushings at high strength pivot points
- Nylon washers between plate and extrusion allow for smooth motion
- Left and Right hand versions
- 10 and 15 Series sizes
- Assembly includes "L" handle, Nub, stripper bolt and nylon washer



ITEM #	LBS	A	B	C	D	E	F	G	H
653070	.105	3.00	1.00	.500	.265	.312	.281	.158	.188
653074	.105	3.00	1.00	.500	.265	.312	.281	.158	.188
653166	.325	4.50	1.50	.750	.328	.375	.328	.220	.250
653170	.325	4.50	1.50	.750	.328	.375	.3328	.220	.250
























Dynamic & Structural Hinges

10 SERIES STRUCTURAL HINGES

INCLUDED BOLT ASSEMBLY - Extrusion to nub
1/4-20 x 1" SHCS & Econ T-Nut

INCLUDED BOLT ASSEMBLY - For arm to extrusion

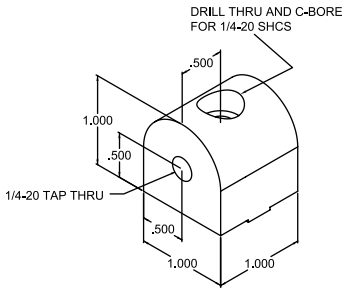
QTY	FOR ITEM #	DESCRIPTION
4	651130	1/4-20 x 1/2" FBHSCS & Economy T-Nut
2	651136	1/4-20 x 1/2" FBHSCS

		IND PART NUMBERS								
		 653116	 653117	 653115	 653083	 653119	 653000	 653001	 653002	
ASSEMBLY PART NUMBERS	 0° 653120	1				2				
	 90° 653121		1			2				
	 653118			1		2				
	 0° 653087	1			2					
	 90° 653088		1		2					
	 653090			1	2					
	RIGHT ANGLE									
	 0° 653003					2	1			
	 90° 653004					2		1		
	 653005					2			1	
	 0° 653006				2		1			
	 90° 653007				2			1		
	 653008				2				1	
	 0° 653009				1	1	1			
	 90° 653010				1	1		1		
	 653011				1	1			1	

05:08

10 SERIES - 0° Pivot Hub

Item Number: **653116**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	1/4-20 x 1/2" Flanged BHSCS	651136

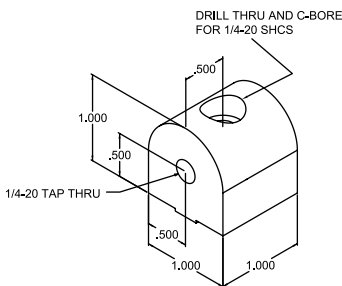
INCLUDED

1	1/4-20 x 1" SHCS & Economy T-Nut
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» See page 05:08 for assemblies.

10 SERIES - 90° Pivot Hub

Item Number: **653117**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	1/4-20 x 1/2" Flanged BHSCS	651136

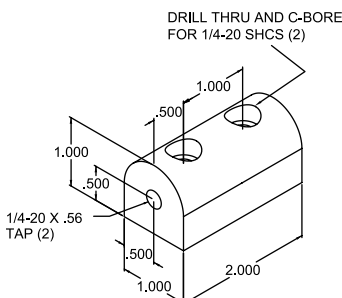
INCLUDED

1	1/4-20 x 1" SHCS & Economy T-Nut
---	----------------------------------

» See page 05:08 for assemblies.

10 SERIES - 2" Universal Pivot Hub

Item Number: **653115**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	1/4-20 x 1/2" Flanged BHSCS	651136

INCLUDED

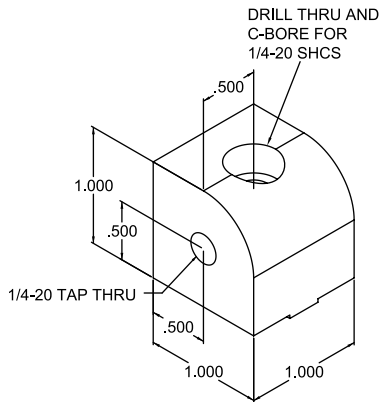
2	1/4-20 x 1" SHCS & Economy T-Nut
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» See page 05:08 for assemblies.

Dynamic & Structural Hinges

10 SERIES - Right Angle 0° Pivot Hub

Item Number: **653000**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	1/4-20 x 1/2" Flanged BHSCS	651136

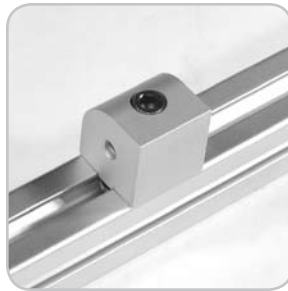
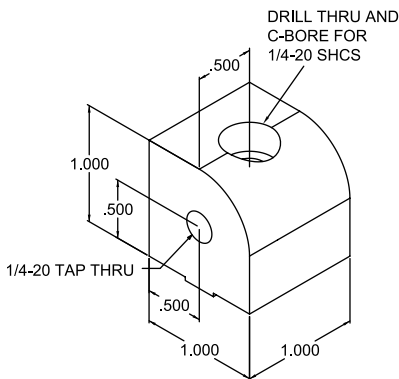
INCLUDED

1	1/4-20 x 1" SHCS & Economy T-Nut
---	----------------------------------

» See page 05:08 for assemblies.

10 SERIES - Right Angle 90° Pivot Hub

Item Number: **653001**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	1/4-20 x 1/2" Flanged BHSCS	651136

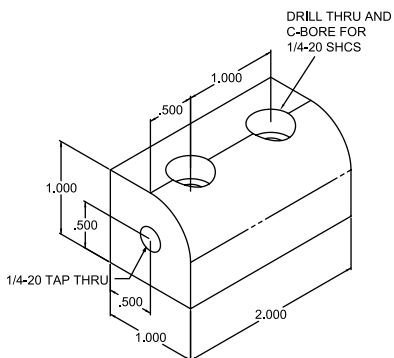
INCLUDED

1	1/4-20 x 1" SHCS & Economy T-Nut
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» See page 05:08 for assemblies.

10 SERIES - Right Angle Universal Pivot Hum

Item Number: **653002**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	1/4-20 x 1/2" Flanged BHSCS	651136

INCLUDED

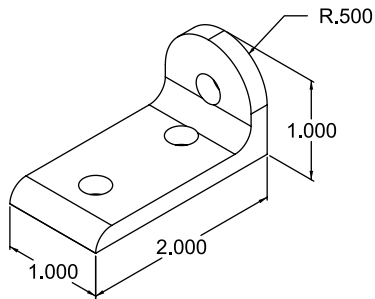
2	1/4-20 x 1" SHCS & Economy T-Nut
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» See page 05:08 for assemblies.

05:10

10 SERIES - "L" Pivot Arm

Item Number: **653083**



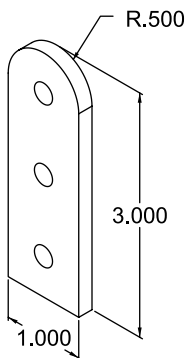
RECOMMENDED FASTENERS

QTY	DESCRIPTION	PART#
3	1/4-20 x 1/2" BHSCS & Economy T-Nut	651171

» See page 05:08 for assemblies.

10 SERIES - 3" Pivot Arm

Item Number: **653119**



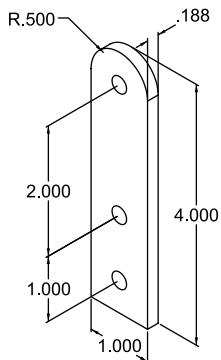
RECOMMENDED FASTENERS

QTY	DESCRIPTION	PART#
3	1/4-20 x 1/2" BHSCS & Economy T-Nut	651171

» See page 05:08 for assemblies.

10 SERIES - 4" Pivot Arm

Item Number: **653122**



RECOMMENDED FASTENERS

QTY	DESCRIPTION	PART#
3	1/4-20 x 1/2" FBHSCS & Economy T-Nut	651130

» See page 05:08 for assemblies.



























Dynamic & Structural Hinges

15 SERIES STRUCTURAL HINGES

INCLUDED BOLT ASSEMBLY - *Extrusion to nub*
5/16-18 x 1/2" SHCS & Econ T-Nut

INCLUDED BOLT ASSEMBLY - *For arm to extrusion*

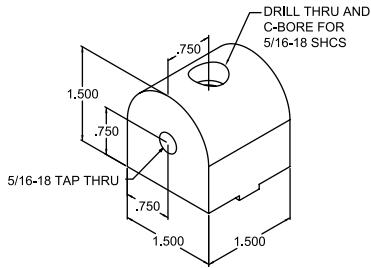
QTY	FOR ITEM #	DESCRIPTION
4	651129	5/16-18 x 5/8" FBHSCS & Econ T-Nut
2	651134	5/16-18 x 5/8" FBHSCS

		IND PART NUMBERS								
		 653213	 653214	 653212	 653181	 653219	 653223	 653224	 653225	
ASSEMBLY PART NUMBERS	 0° 653220	1				2				
	 90° 653221		1			2				
	 653218			1		2				
	 0° 653185	1			2					
	 90° 653186		1		2					
	 653188			1	2					
	 0° 653189	1			1	1				
	 90° 653190		1		1	1				
	 653191			1	1	1				
	RIGHT ANGLE									
	 0° 653226					2	1			
	 90° 653227					2		1		
	 653228					2			1	
	 0° 653229				2		1			
	 90° 653230				2			1		
	 653231				2				1	
	 0° 653232				1	1	1			
	 90° 653233				1	1		1		
	 653234				1	1			1	

05:12

15 SERIES - 0° Pivot Nub

Item Number: **653213**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	5/16-18 x 5/8" Flanged BHSCS	651134

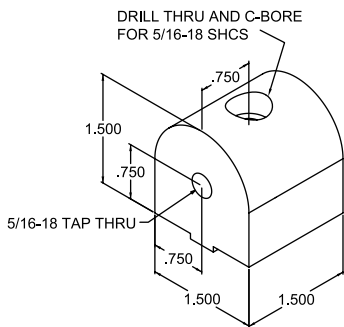
INCLUDED

1	5/16x1 1/2" SHCS & Economy T-Nut
---	----------------------------------

» See page 05:12 for assemblies.

15 SERIES - 90° Pivot Nub

Item Number: **653214**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	5/16-18 x 5/8" Flanged BHSCS	651134

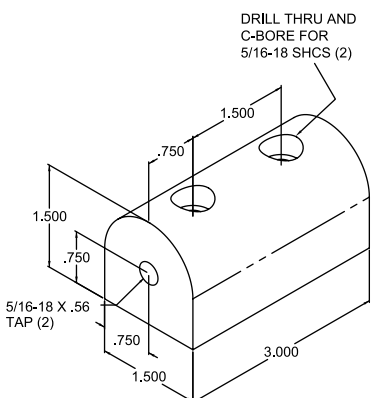
INCLUDED

1	5/16x1 1/2" SHCS & Economy T-Nut
---	----------------------------------

» See page 05:12 for assemblies.

15 SERIES - 3" Universal Pivot Nub

Item Number: **653212**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	5/16-18 x 5/8" Flanged BHSCS	651134

INCLUDED

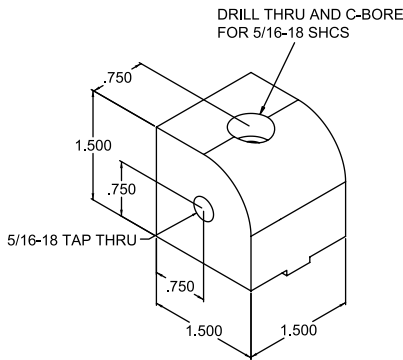
2	5/16x1 1/2" SHCS & Economy T-Nut
---	----------------------------------

» See page 05:12 for assemblies.

Dynamic & Structural Hinges

15 SERIES - Right Angle 0° Pivot Nub

Item Number: **653223**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	5/16-18 x 5/8" Flanged BHSCS	651134

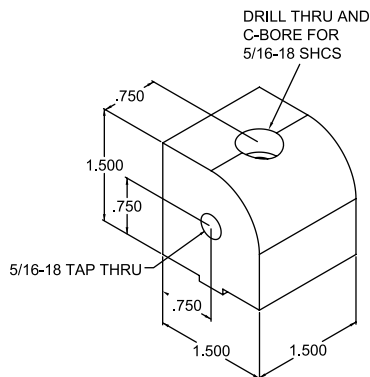
INCLUDED

1	5/16-18 x 1 1/2" SHCS & Economy T-Nut
---	---------------------------------------

» See page 05:12 for assemblies.

15 SERIES - Right Angle 90° Pivot Nub

Item Number: **653224**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	5/16-18 x 5/8" Flanged BHSCS	651134

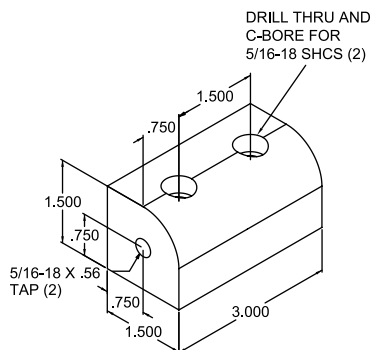
INCLUDED

1	5/16-18 x 1 1/2" SHCS & Economy T-Nut
---	---------------------------------------

» See page 05:12 for assemblies.

15 SERIES - Right Angle 3" Universal Pivot Nub

Item Number: **653225**



RECOMMENDED ASSEMBLY FOR ARMS

QTY	DESCRIPTION	PART#
2	5/16-18 x 5/8" Flanged BHSCS	651134

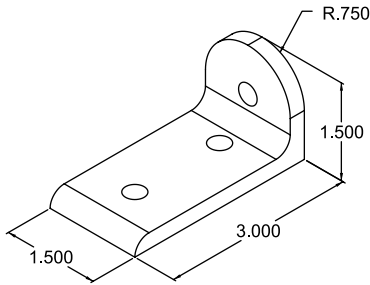
INCLUDED

2	5/16-18 x 1 1/2" SHCS & Economy T-Nut
---	---------------------------------------

» See page 05:12 for assemblies.

15 SERIES - "L" Pivot Arm

Item Number: **653181**



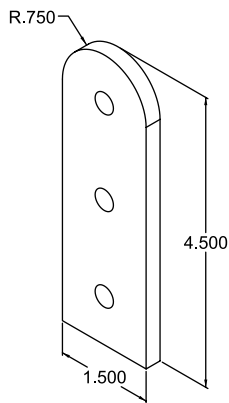
RECOMMENDED FASTENERS

QTY	DESCRIPTION	PART#
3	5/16-18 x 5/8" FBHSCS & Economy T-Nut	651129

» See page 05:12 for assemblies.

15 SERIES - 4.5" Pivot Arm

Item Number: **653219**



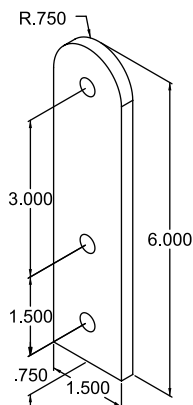
RECOMMENDED FASTENERS

QTY	DESCRIPTION	PART#
3	5/16-18 x 5/8" FBHSCS & Economy T-Nut	651129

» See page 05:12 for assemblies.

15 SERIES - 6" Pivot Arm

Item Number: **653222**



RECOMMENDED FASTENERS

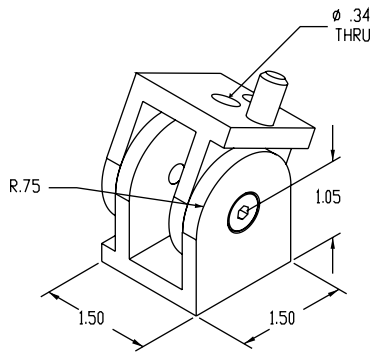
QTY	DESCRIPTION	PART#
3	5/16-18 x 5/8" Flanged BHSCS	651134

» See page 05:12 for assemblies.

Dynamic & Structural Hinges

15 SERIES - Nylon Pivot Hinge

Item Number: **653298**



RECOMMENDED FASTENERS FOR EXTRUSION T-SLOT

QTY	ITEM NUMBER
2	651201

RECOMMENDED FASTENERS FOR EXTRUSION END

QTY	ITEM NUMBER
2	651059

- Made of black nylon
- Can be used as a 0° or a 90° pivot
- Pivots 180°