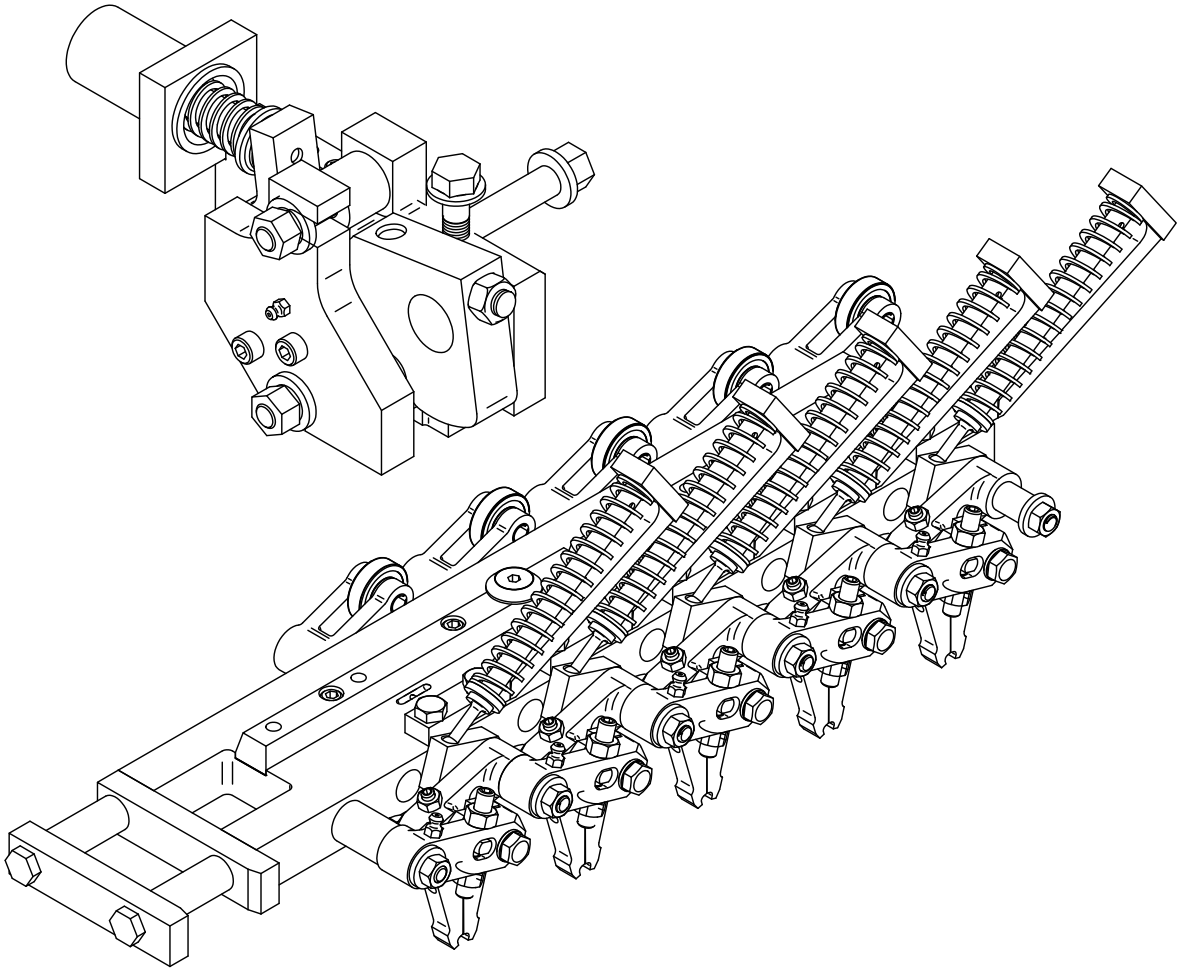
STAR METAL PRODUCTS

National Formax®



When quoting or placing an order, specify the following:

- **Catalog & Page Number**
- **Machine Size**
- **Key Number**
- **Quantity**
- **Part Number (if available)**

Please provide sample parts or prints for items not found in this catalog.

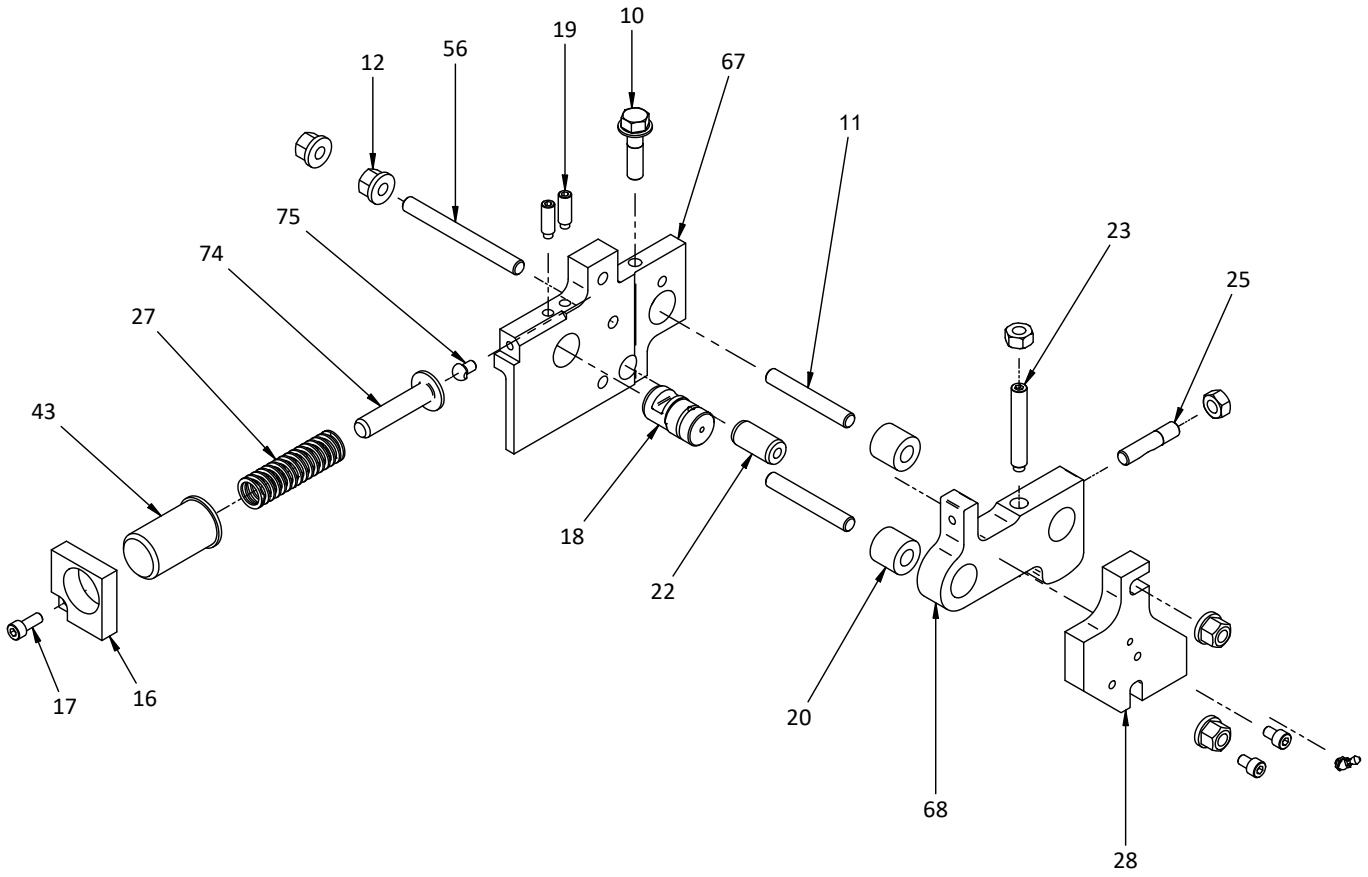
We at Star Metal Products look forward to serving you, and encourage you to review the following terms and conditions to ensure a mutually successful business transaction.

- Terms are net 30 days from shipment, F.O.B. Ourdock, Westlake, Ohio Freight Collect. All prices subject to change without notice.
- Our minimum billing is $50.00
- Quotations are valid for 90 days unless otherwise specified.
- Star Metal Products Blanket Order Policy
  Duration: Blanket Orders will be held for a maximum time period of six months. Any line item open six months from the date of receipt of customer order will ship automatically. Duration of blanket order may extend up to one year, only if specific release quantities and release dates are supplied with customer order.

  Releases: Upon completion of job order, 25% of each line item (with a minimum of 1 piece) will be shipped to cutomer. The balance of each line item will be held for release by customer within the six month time frame.
- Cancellation will be subject to a charge for any applicable material used and labor employed for work in progress.
- Returns: We regret that positively no tooling may be returned without factory authorization. Returns must be made within 60 days of receiving merchandise. We will not be responsible for shipping charges incurred by customers that deviate from this policy. We reserve the right to only repair tooling accepted under these conditions.

OLD STYLE CUTTER PACK

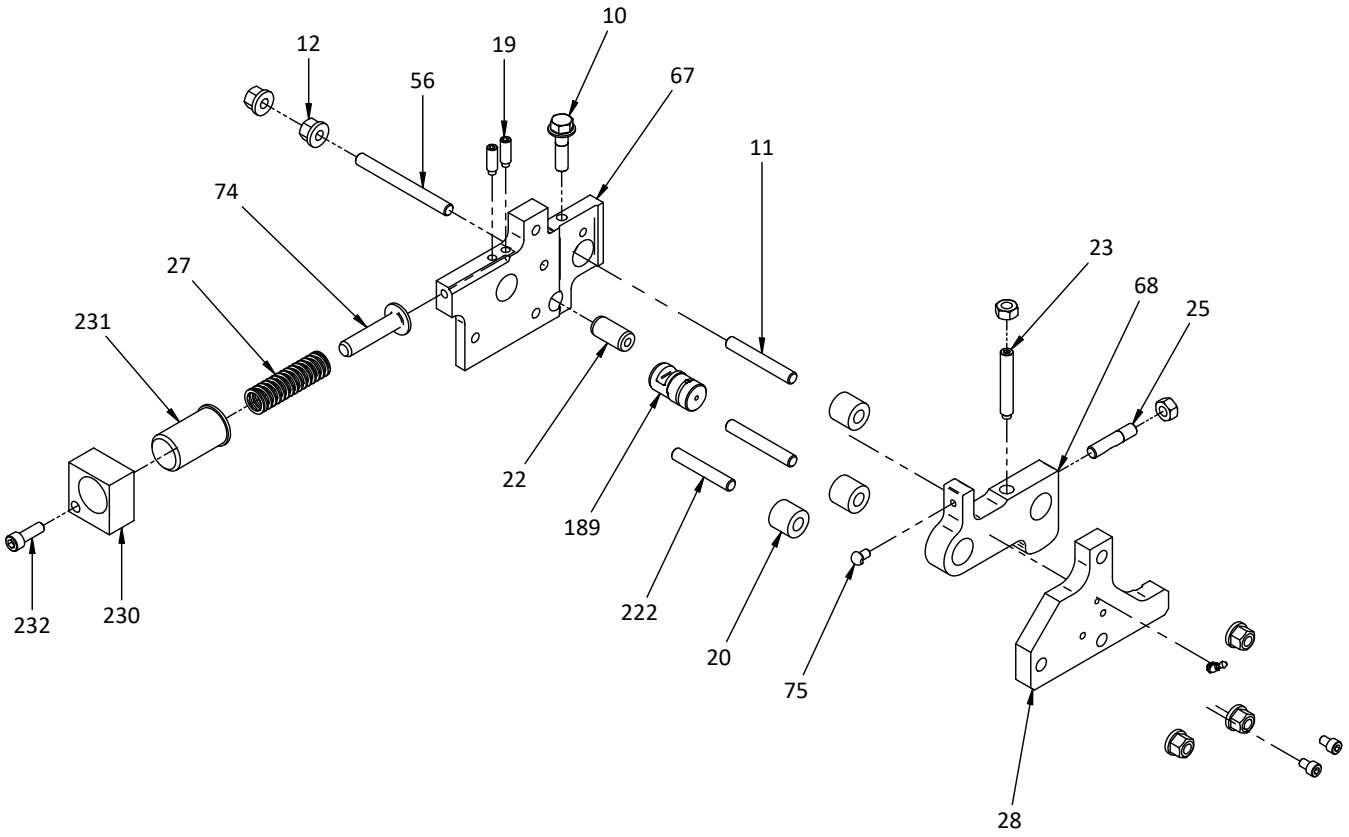
SPECIFY MACHINE SIZE & KEY NUMBER



Key #	Description	Key #	Description
10	BOLT	25	CLAMP
11	STUD	27	SPRING
12	NUT	28	PLATE
16	HOLDER	43	BARREL
17	CAP SCREW - SOCKET	56	STUD
18	PIN	67	QUILL HOLDER
19	SET SCREW - SOCKET	68	CUTTER HOLDER
20	SPACER	74	PIN
22	PIN	75	PIN
23	SET SCREW - SOCKET		

NEW STYLE CUTTER PACK

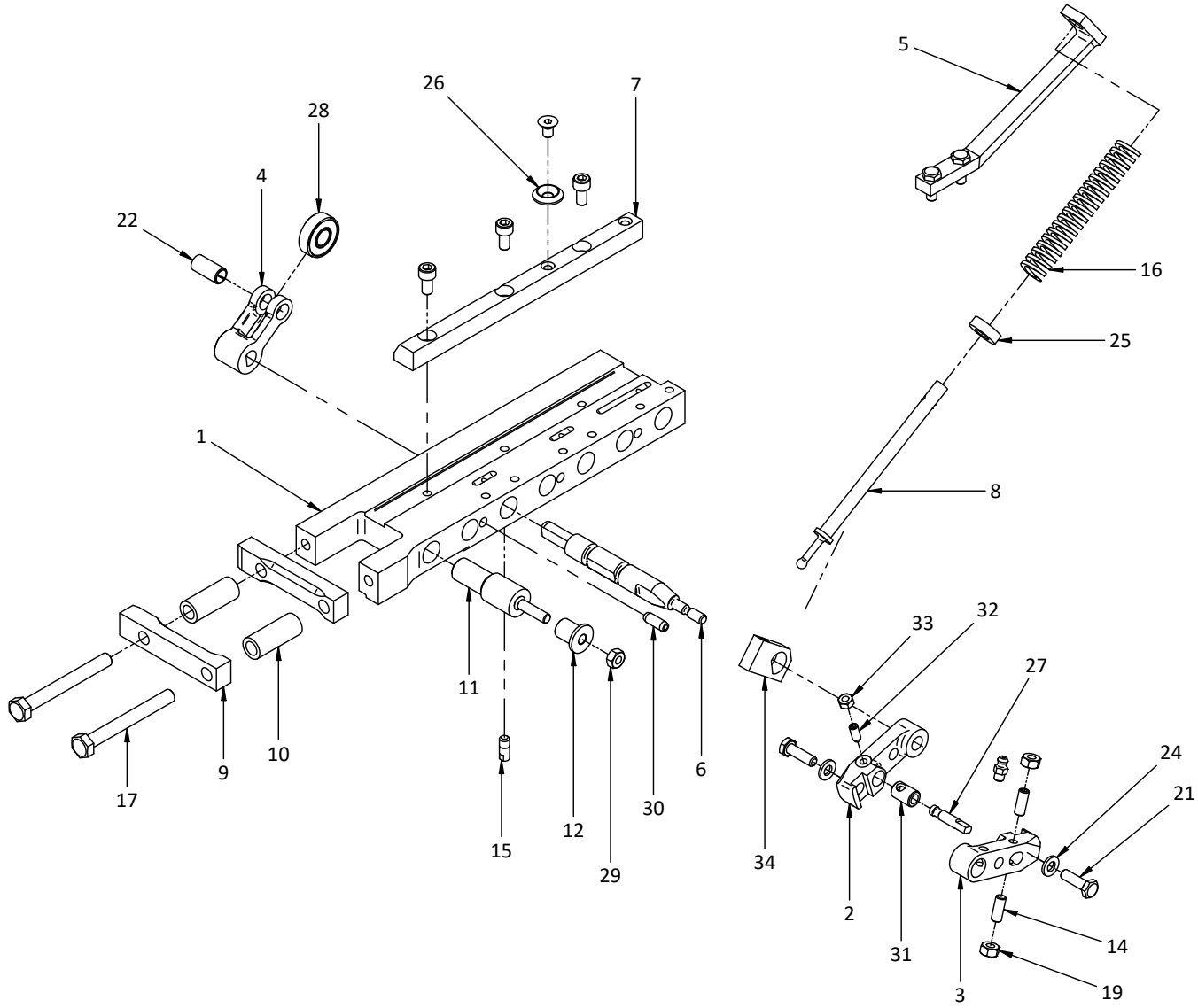
SPECIFY MACHINE SIZE & KEY NUMBER



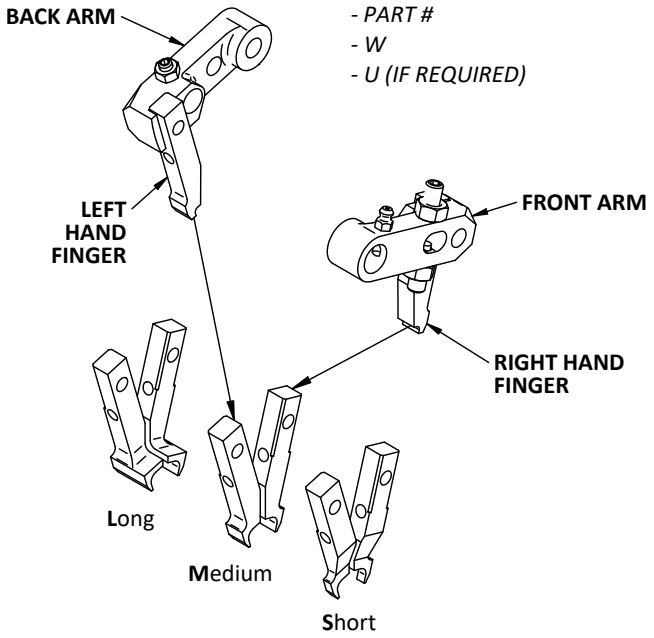
Key #	Description	Key #	Description
10	BOLT	56	STUD
11	STUD	67	PLATE
12	NUT	68	CUTTER HOLDER
19	SET SCREW - SOCKET	74	PIN
20	SPACER	75	PIN
22	PIN	189	PIN
23	SET SCREW - SOCKET	222	STUD
25	CLAMP	230	HOLDER
27	SPRING	231	BARREL
28	PLATE	232	CAP SCREW - SOCKET

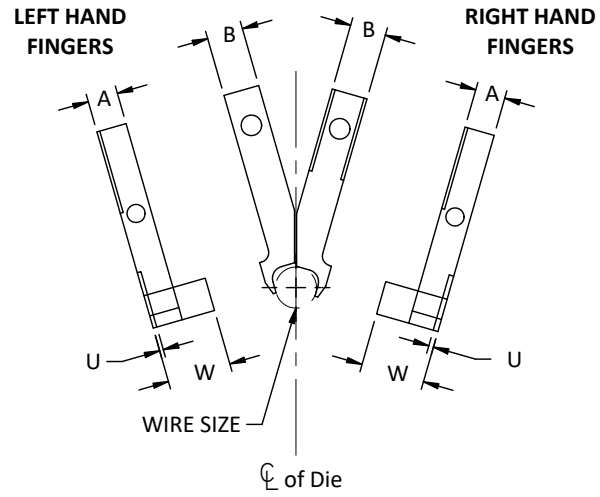
TRANSFER SLIDE

SPECIFY MACHINE SIZE & KEY NUMBER



Key #	Description	Key #	Description	Key #	Description
1	SLIDE BODY	11	SHAFT	25	WASHER
2	FINGER HOLDER - BACK	12	RETAINER	26	WASHER
3	FINGER HOLDER - FRONT	14	SCREW	27	PIN
4	LEVER	15	STUD	28	BEARING
5	BRACKET	16	SPRING	29	NUT
6	PIN	17	CAP SCREW - HEX	30	PIN
7	KEY	19	NUT	31	BUSHING
8	ROD	21	CAP SCREW - HEX	32	SET SCREW - SOCKET
9	BAR	22	PIN	33	NUT
10	SPACER	24	WASHER	34	LUG





Ex. Part # 3-43LU10-01

- PART #
- DETAIL
- LEFT (L) OR RIGHT (R) HAND
- NOSE WIDTH (W) IN MILLIMETERS
- ADD "U" FOR UNDERCUT IF RIQUIRED

FX2 *A=0.315 (8mm) B=0.394 (10mm)*

PART #: 3-42

DETAIL	WIRE RANGE (mm)	WIRE RANGE (in)
01	2.0 - 2.5	0.078 - 0.098
02	2.5 - 3.5	0.098 - 0.137
03	3.5 - 4.5	0.137 - 0.177
04	4.5 - 5.5	0.177 - 0.216
05	5.5 - 6.5	0.216 - 0.256
06	6.5 - 7.5	0.256 - 0.295
07	7.5 - 8.5	0.295 - 0.334
08	8.5 - 9.5	0.334 - 0.374

FX3 *A=0.394 (10mm) B=0.472 (12mm)*

PART #: 3-43

DETAIL	WIRE RANGE (mm)	WIRE RANGE (in)
01	2.5 - 3.5	0.098 - 0.138
02	3.5 - 4.5	0.138 - 0.177
03	4.5 - 5.5	0.177 - 0.216
04	5.5 - 6.5	0.216 - 0.256
05	6.5 - 7.5	0.256 - 0.295
06	7.5 - 8.5	0.295 - 0.334
07	8.5 - 9.5	0.334 - 0.374
08	9.5 - 10.0	0.374 - 0.394
09	10.0 - 10.5	0.394 - 0.413
10	10.5 - 11	0.413 - 0.433

FX4 *A=0.472 (12mm) B=0.549 (14mm)*

PART #: 3-44

DETAIL	WIRE RANGE (mm)	WIRE RANGE (in)
01	6.5 - 8.0	0.256 - 0.315
02	8.0 - 9.5	0.315 - 0.374
03	9.5 - 11.0	0.374 - 0.433
04	11.0 - 12.5	0.433 - 0.492
05	12.5 - 14.0	0.492 - 0.551
06	14.0 - 15.0	0.551 - 0.583

FX5 *A=0.551 (14mm) B=0.628 (16mm)*

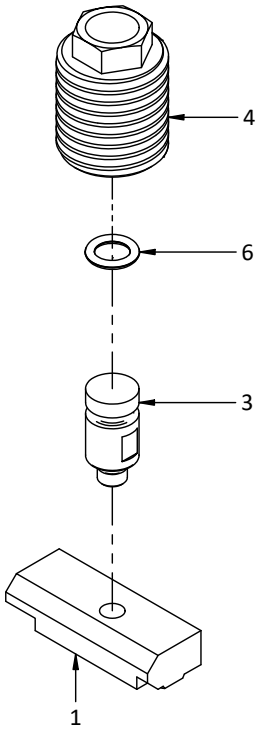
PART #: 3-45

DETAIL	WIRE RANGE (mm)	WIRE RANGE (in)
01	6.5 - 8.5	0.256 - 0.334
02	8.5 - 10.5	0.335 - 0.413
03	10.5 - 12.5	0.413 - 0.492
04	12.5 - 14.5	0.492 - 0.571
05	14.5 - 16.0	0.571 - 0.623
06	16.0 - 17.5	0.623 - 0.697
07	17.5 - 18.5	0.697 - 0.728
08	18.5 - 19.5	0.728 - 0.760
09	19.5 - 20.0	0.760 - 0.787

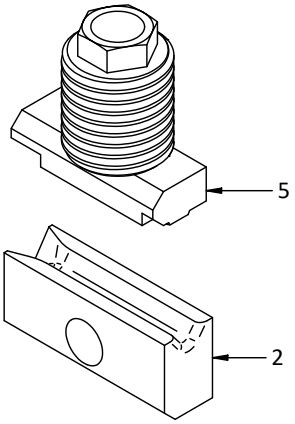
LINEAR GRIP BLOCKS

SPECIFY
- MACHINE SIZE
- KEY NUMBER
- WIRE SIZE OR WIRE RANGE

WIRE RANGE (LISTED IN MILLIMETERS)				
Key #	FX2	FX3	FX4	FX5
1	2.0 / 5.0	3.0 / 9.0	3.7 / 6.5	4.3 / 8.8
1	3.0 / 8.0	3.5 / 9.5	4.5 / 12.0	6.4 / 12.7
1	4.5 / 8.9	5.5 / 12	6.5 / 14.8	8.5 / 18.5
2	2.0 / 5.0	3.0 / 9.0	3.7 / 6.5	4.3 / 8.8
2	3.0 / 8.0	3.5 / 9.5	4.5 / 12.0	6.4 / 12.7
2	4.5 / 8.9	5.5 / 12	6.5 / 14.8	8.5 / 18.5
3	-	-	-	-
4	-	-	-	-
5	2.0 / 5.0	3.0 / 9.0	3.7 / 6.5	4.3 / 8.8
5	3.0 / 8.0	3.5 / 9.5	4.5 / 12.0	6.4 / 12.7
5	4.5 / 8.9	5.5 / 12	6.5 / 14.8	8.5 / 18.5



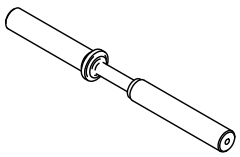
NOTE: KEY 5 INCLUDES KEY NUMBERS 1, 3, 4, & 6



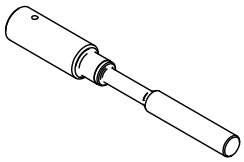
Key #	Description
1	TOP BLOCK
2	BOTTOM BLOCK
3	STUD
4	ADJUST SCREW
5	TOP BLOCK ASSEMBLY
6	O-RING

TKO RODS

FX2

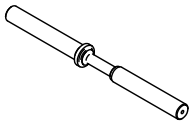


PART #: 2606U1340G0C

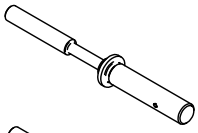


PART #: 2606U1340G0D

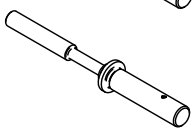
FX3



PART #: 2608U1340G0C

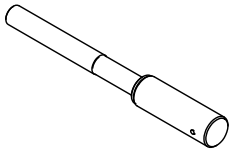


PART #: 2608U1340G0D

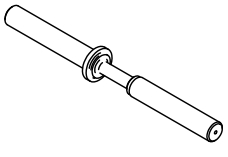


PART #: 2608U1340G0F

FX4

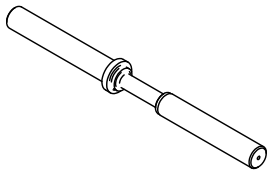


PART #: 2610U1340G0C

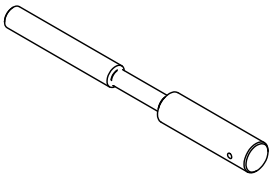


PART #: 2610U1340G0D

FX5

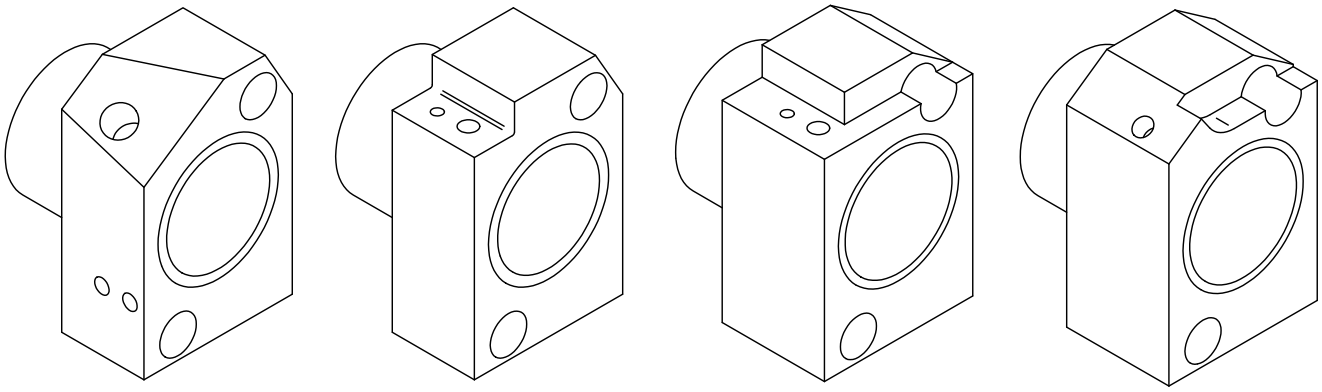


PART #: 2612U1340G0A



PART #: 2612U1340G0B

PUNCH CAPS



PUNCH CAP ASSEMBLIES INCLUDE CAP, SLEEVE, AND RELATED HARDWARE

TO INSURE THE CORRECT PUNCH CAP ASSEMBLY, PLEASE PROVIDE THE FOLLOWING:

Machine Serial Number:	
Machine Size:	
Specify Cap Type:	ORIGINAL (DOUBLE SET SCREW)
	PLUS (SINGLE SET SCREW)
Specify Style:	STANDARD
	CONSTANT AIR
	SLUG DISCHARGE
	SLIDING
	TRIM CAP
Punch O.D. (IF AVAILABLE, TO CONFIRM CORRECT SLEEVE I.D. IN ASSEMBLY)	