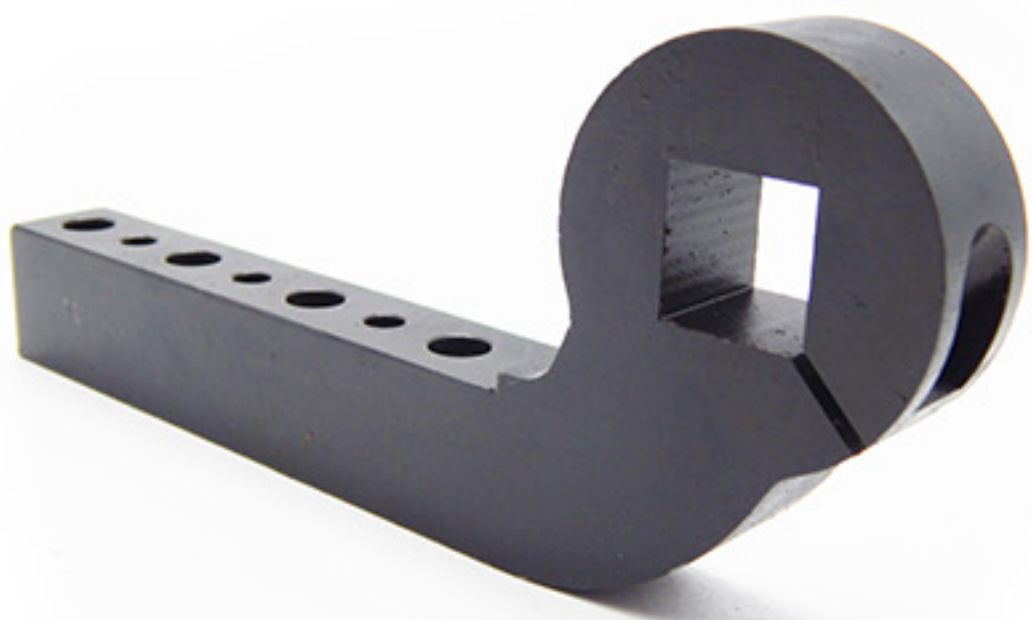




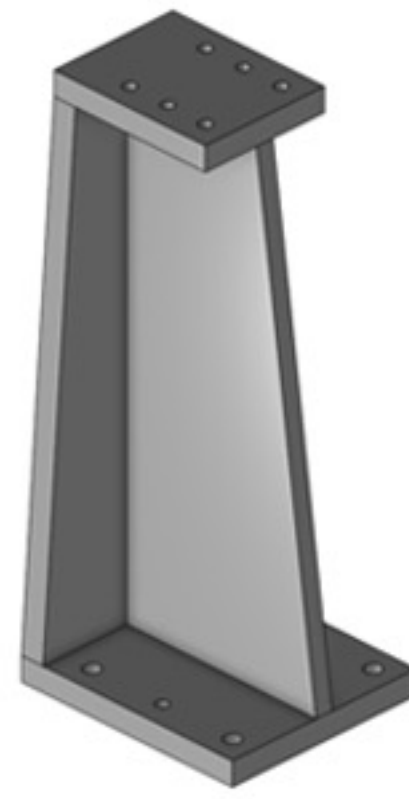
NAAMS

NORTH AMERICAN STANDARDS

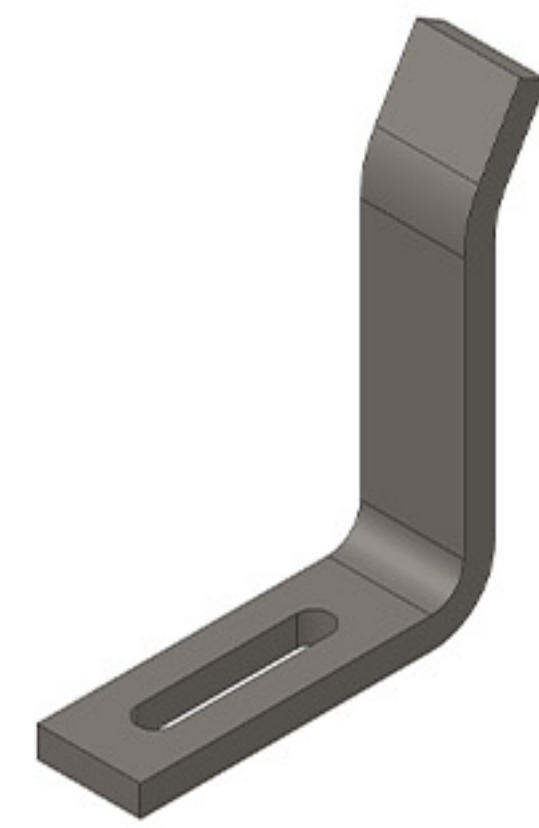
SCAN THIS AND OTHER CODES IN THE MANUAL TO ACCESS OUR ONLINE STORE



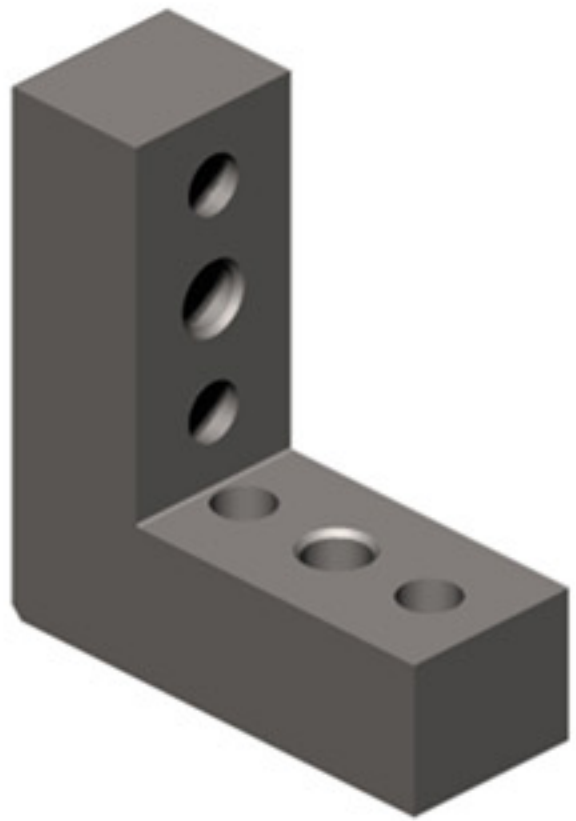
CLAMP ARMS



RISERS



ROUGH LOCATORS



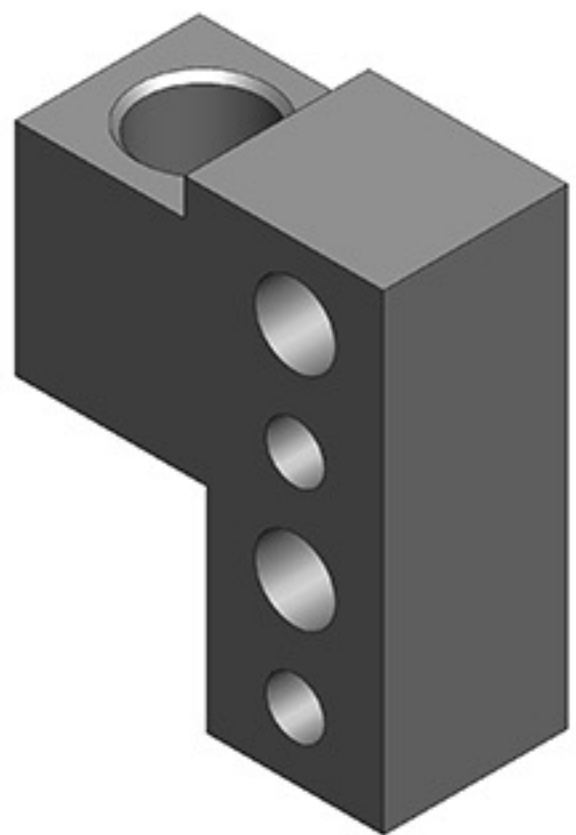
L BLOCKS



NC BLOCK BLANKS



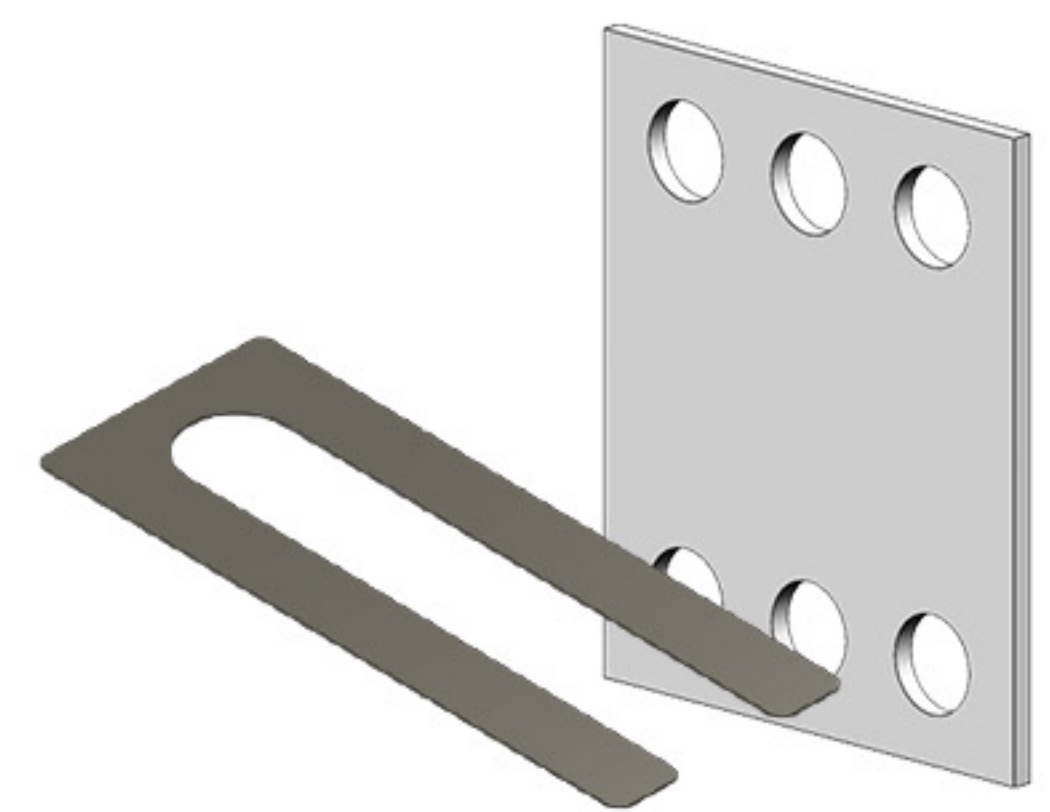
LOCATING PINS



LOCATING PIN RETAINERS



DUMP UNIT COMPONENTS



SHIMS & SPACERS

TECH RIM
STANDARDS

GLOBAL STANDARD COMPONENTS
NAAMS 

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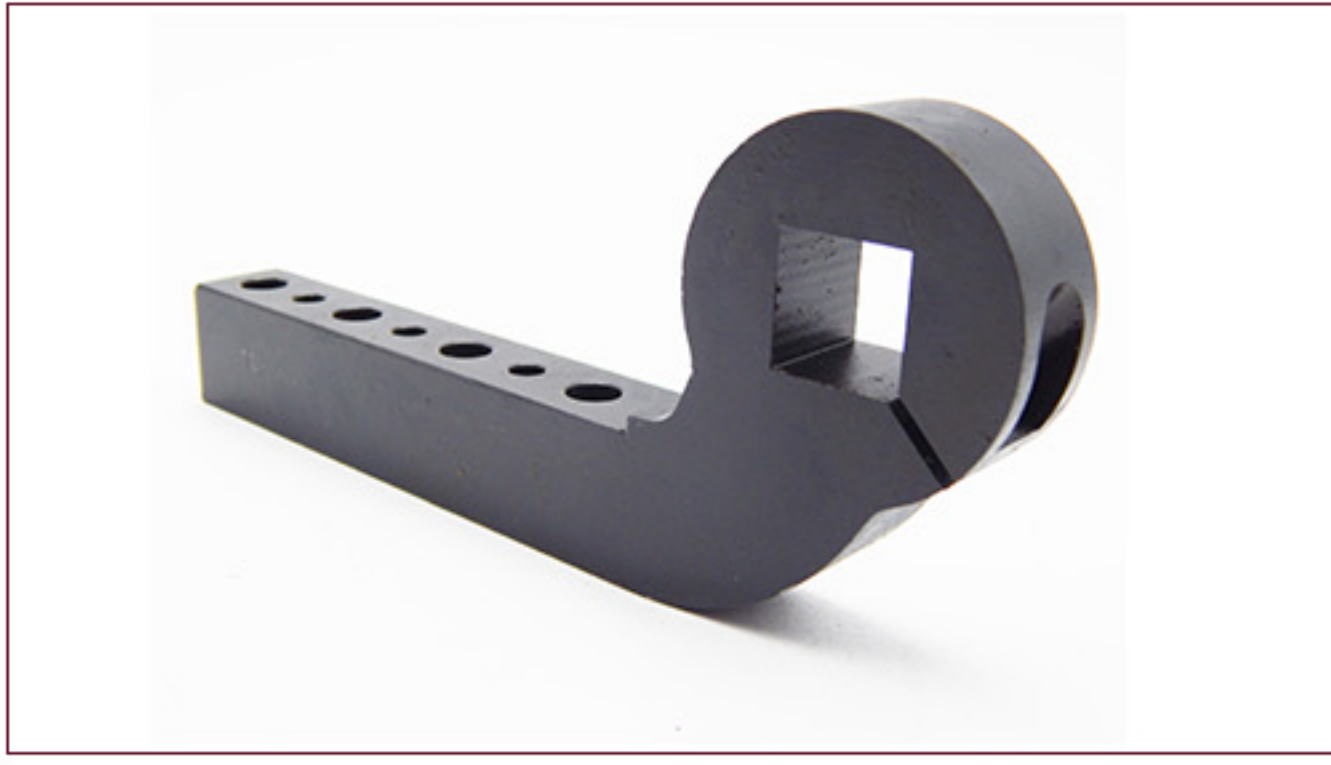
Tech Rim Standards is a global supplier of NAAMS and standardized components.

NAAMS are a globally approved system for industrial automation tooling.

Their use in the following markets, allow customers to drastically reduce their time and cost to design and build tools:

- Assembly (BIW)
- Stamping
- Fixturing
- Robotic / End Effector systems
- General Assembly

CLAMP ARMS



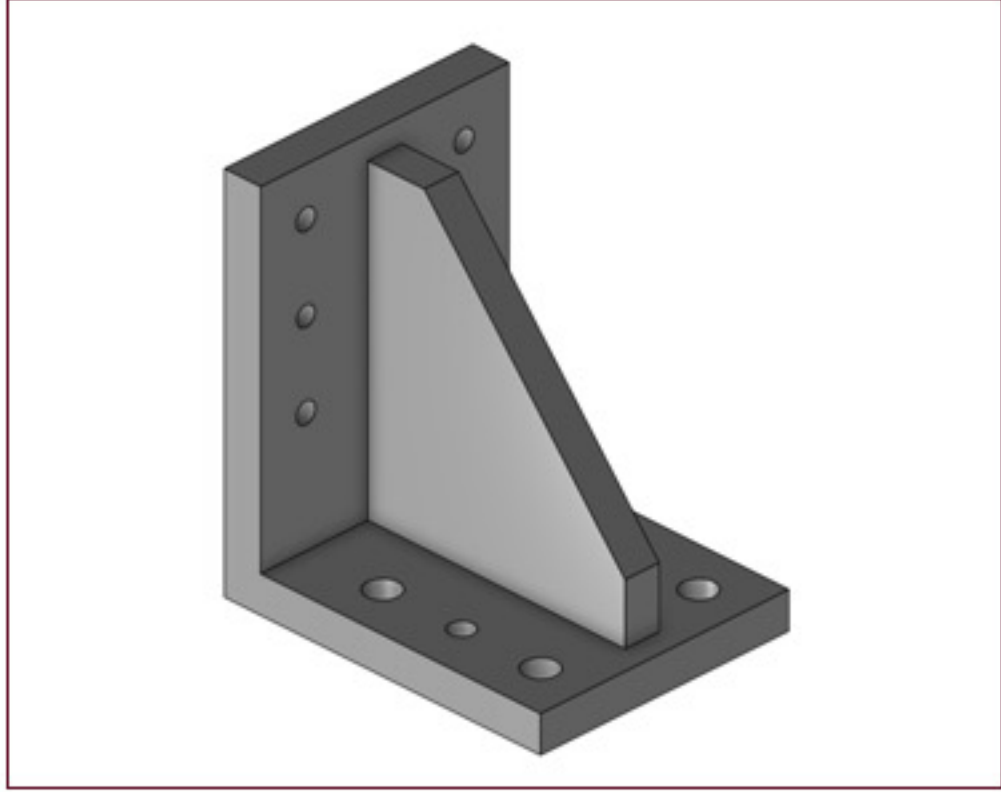
Tech Rim Standards manufactures all makes and models of power clamp arms. as well as universal / 'ALL industry' compliant arms.

CODE	SPEC.	CLAMP SERIES	OFFSET	HOLE PATTERNS	ARM WIDTH
ACA007-012	U.S.	63MM CLAMP	STRAIGHT	8MM DOWEL, 11 MM CLEARANCE	25MM
ACA019-024	U.S.	63MM CLAMP	25MM	8MM DOWEL, 11 MM CLEARANCE	25MM
ACA031-036	U.S.	63MM CLAMP	70MM	8MM DOWEL, 11 MM CLEARANCE	25MM
ACA043-048	U.S.	63MM CLAMP	120MM	8MM DOWEL, 11 MM CLEARANCE	25MM
ACA507-512	E, U.S.	63MM CLAMP	STRAIGHT	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA519-524	E, U.S.	63MM CLAMP	25MM	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA531-536	E, U.S.	63MM CLAMP	70MM	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA543-548	E, U.S.	63MM CLAMP	120MM	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA513-518	GM	63MM CLAMP	STRAIGHT	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA525-530	GM	63MM CLAMP	25MM	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA537-542	GM	63MM CLAMP	70MM	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA553-554	GM	63MM CLAMP	120MM	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA206-208	U.S.	50MM CLAMP	STRAIGHT	8MM DOWEL, 11 MM CLEARANCE	20MM
ACA216-218	U.S.	50MM CLAMP	25MM	8MM DOWEL, 11 MM CLEARANCE	20MM
ACA226-228	U.S.	50MM CLAMP	50MM	8MM DOWEL, 11 MM CLEARANCE	20MM
ACA236-238	E, U.S.	50MM CLAMP	STRAIGHT	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA246-248	E, U.S.	50MM CLAMP	25MM	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA256-258	E, U.S.	50MM CLAMP	50MM	6MM DOWEL, 9 MM CLEARANCE	20MM
ACA401-403	GM	50MM	STRAIGHT	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA411-413	GM	50MM	25MM	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA421-423	GM	50MM	50MM	8MM DOWEL, 9 MM CLEARANCE	20MM
ACA226-228	U.S.	80MM CLAMP	STRAIGHT	8MM DOWEL, 11 MM CLEARANCE	32MM*(T)
ACA236-238	U.S.	80MM CLAMP	25MM	8MM DOWEL, 11 MM CLEARANCE	32MM*(T)
ACA246-248	U.S.	80MM CLAMP	70MM	8MM DOWEL, 11 MM CLEARANCE	32MM*(T)
ACA256-258	U.S.	80MM CLAMP	120MM	8MM DOWEL, 11 MM CLEARANCE	32MM*(T)
ACA100-108	U.S.	80MM CLAMP	STRAIGHT	NONE	32MM*(T)
ACA120-128	U.S.	80MM CLAMP	20MM	NONE	32MM*(T)
ACA140-148	U.S.	80MM CLAMP	65MM	NONE	32MM*(T)
ACA160-168	U.S.	80MM CLAMP	115MM	NONE	32MM*(T)

**SHOP
CLAMP ARMS**



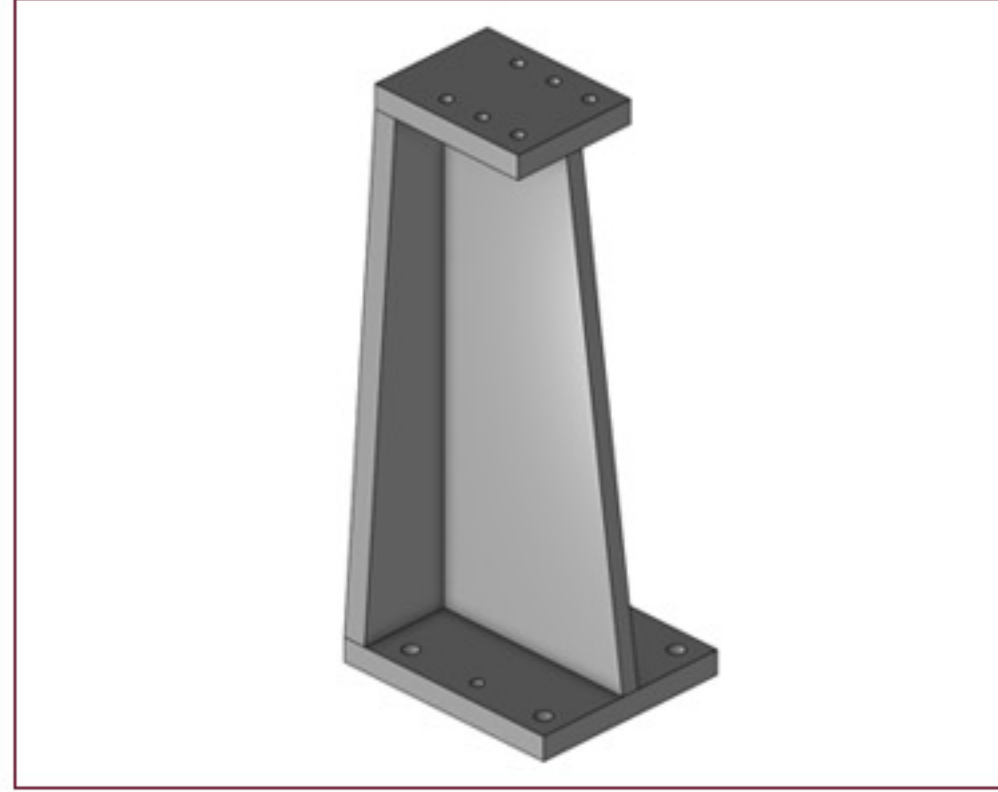
RISERS



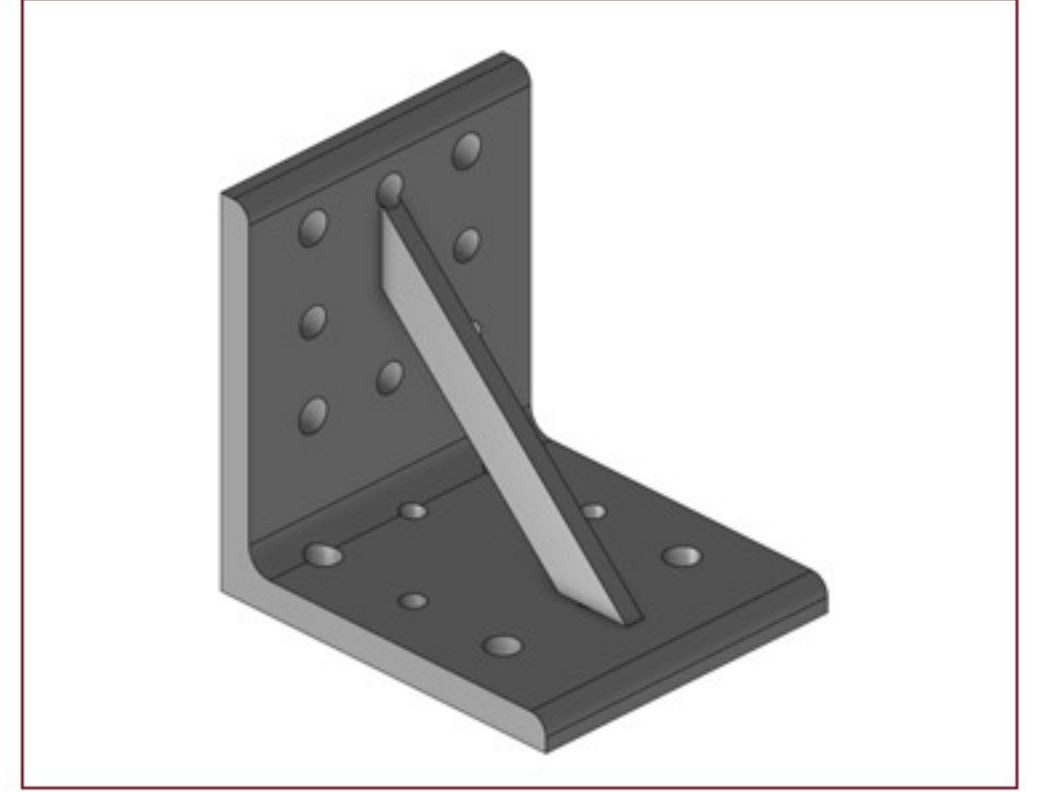
AAB



ARA



ASR



AHB

CODE	"A" HEIGHT
AAB100M AAB101M	100 (M10 x 1.5) 100 (thru hole)
AAB150M AAB151M	150 (M10 x 1.5) 150 (thru hole)
AAB200M AAB200M	200 (M10 x 1.5) 200 (thru hole)
AAB250M AAB251M	250 (M10 x 1.5) 251 (thru hole)
AAB300M AAB301M	300 (M10 x 1.5) 301 (thru hole)
AAB350M AAB351M	350 (M10 x 1.5) 351 (thru hole)
AAB400M AAB451M	400 (M10 x 1.5) 450 (thru hole)

ALUMINUM	"A" HEIGHT
AAB101A	100 (thru hole)
AAB151A	150 (thru hole)
AAB201A	200 (thru hole)
AAB251A	250 (thru hole)
AAB301A	300 (thru hole)
AAB351A	350 (thru hole)
AAB401A	400 (thru hole)

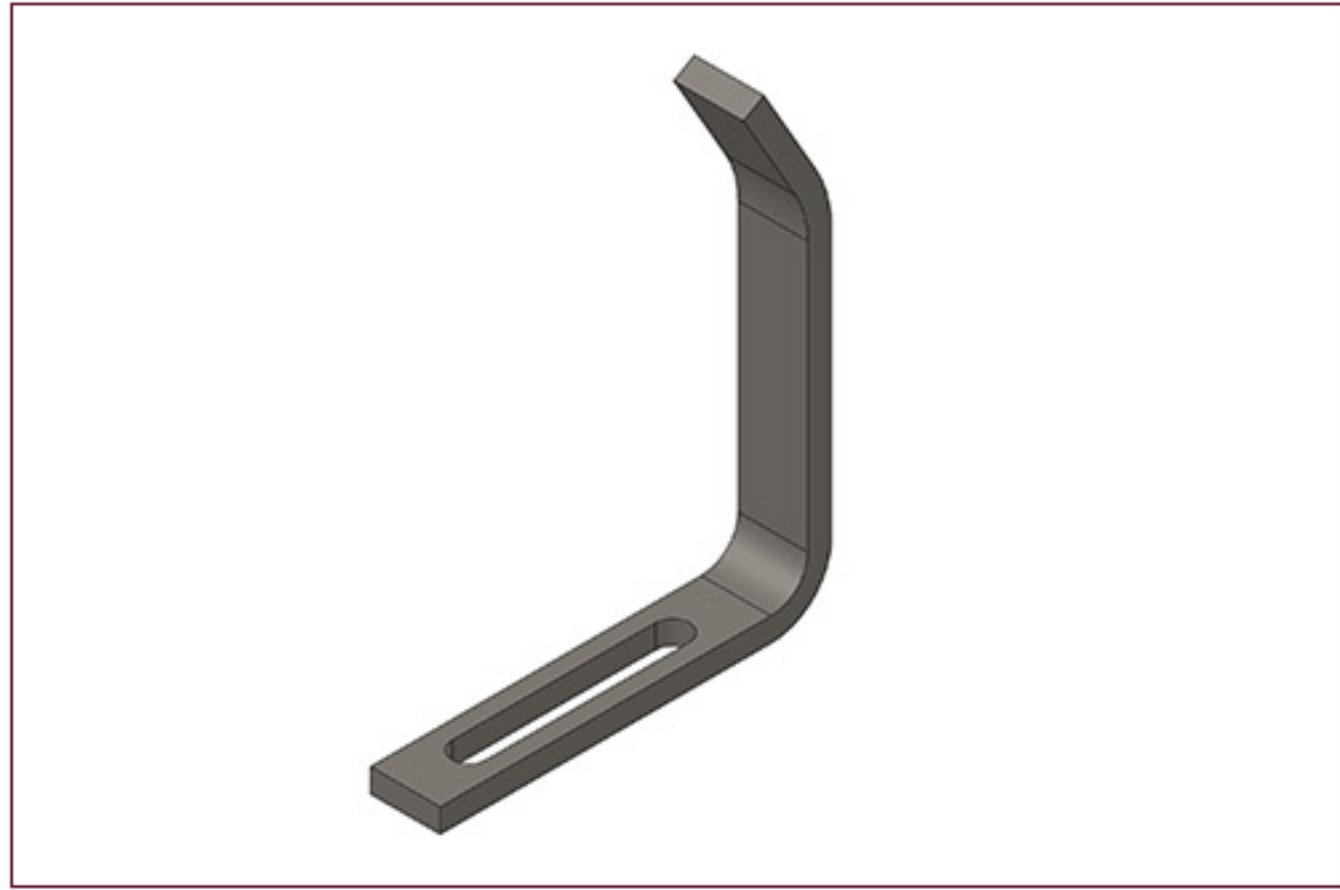
CODE	"A" HEIGHT
ARA150M ARA151M	150 (M10 x 1.5) 150 (thru hole)
ARA200M ARA200M	200 (M10 x 1.5) 200 (thru hole)
ARA250M ARA251M	250 (M10 x 1.5) 251 (thru hole)
ARA300M ARA301M	300 (M10 x 1.5) 300 (thru hole)
ARA350M ARA351M	350 (M10 x 1.5) 350 (thru hole)
ARA400M ARA401M	400 (M10 x 1.5) 400 (thru hole)
ARA450M ARA451M	450 (M10 x 1.5) 450 (thru hole)
ARA500M ARA501M	500 (M10 x 1.5) 500 (thru hole)
ARA550M ARA551M	550 (M10 x 1.5) 550 (thru hole)
ARA600M ARA601M	600 (M10 x 1.5) 600 (thru hole)
ARA650M ARA651M	650 (M10 x 1.5) 651 (thru hole)
ARA700M ARA701M	700 (M10 x 1.5) 700 (thru hole)
ARA800M ARA851M	750 (M10 x 1.5) 750 (thru hole)
ARA700M ARA751M	800 (M10 x 1.5) 800 (thru hole)

CODE	"A" HEIGHT
ASR115	150
ASR120	200
ASR125	250
ASR130	300
ASR135	350
ASR140	400
ASR145	450
ASR145	500

CODE	"A" HEIGHT
AHB006	
AHB007	
AHB010	
AHB011	

**SHOP
RISERS**

ROUGH LOCATORS



ARL100R



ARL100L






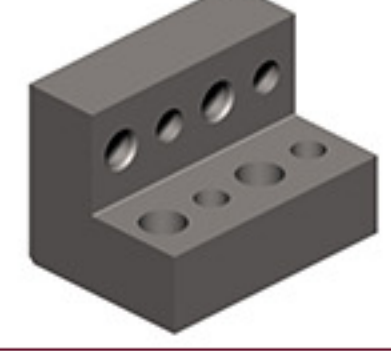


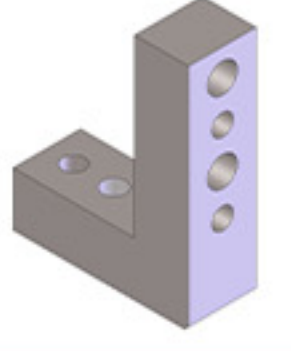
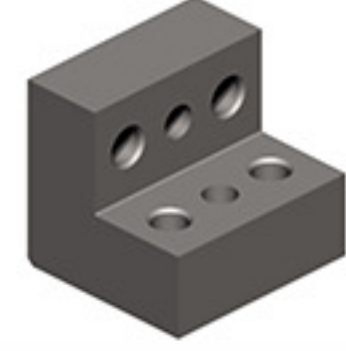
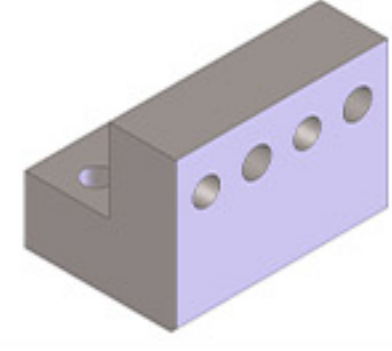

ARL100

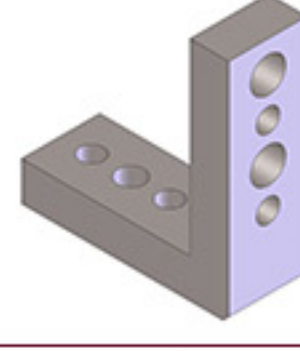






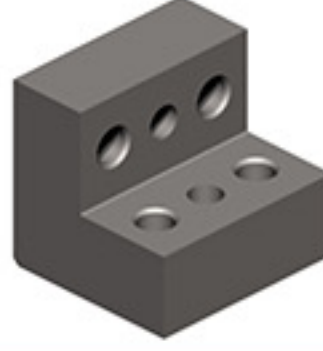


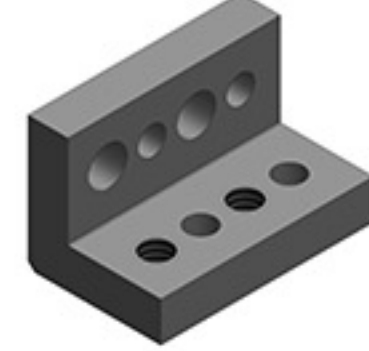
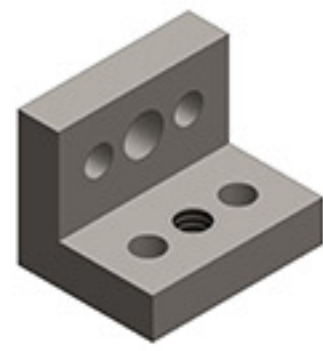
NAAMS CODE	DM "A" MM	WIDTH MM	THICKNESS MM
ARL075L / 075R	75	32	10
ARL100L / 100R	100	32	10
ARL125L / 125R	125	32	10
ARL150L / 150R	150	32	10
ARL175L / 175L	175	32	10
ARL 200L / 200R	200	32	10
ARL225L / 250R	225	32	10
ARL250L / 250R	250	32	10
ARL145	145	32	10
ARL170	170	32	10
ARL190	190	32	10
ARL220	220	32	10
ARL245	245	32	10
ARL 270	270	32	10
ARL295	295	32	10
ARL320	320	32	10
ARL145P	145	32	10
ARL170P	170	32	10
ARL190P	190	32	10
ARL220P	220	32	10
ARL245P	245	32	10
ARL 270P	270	32	10
ARL295P	295	32	10
ARL320P with plastic pad	320	32	10
ARL145LP / 145RP	145	32	10
ARL170LP / 170RP	170	32	10
ARL190LP / 190RP	190	32	10
ARL220LP / 220RP	220	32	10
ARL245LP / 245RP	245	32	10
ARL 270LP / 270RP	270	32	10
ARL298LP / 298RP	295	32	10
ARL320LP / 320RP with plastic pad	320	32	10

**SHOP
ROUGH
LOCATORS**



L BLOCKS





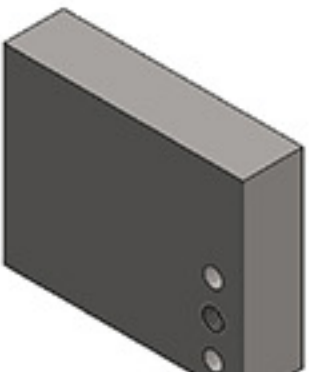



PICTURE	FAMILY	PART NUMBER
	ALB320M	ALB320M ALB321M NMSS ALB322M ALB323M NMSS
	ALB350M	ALB350M ALB351M NMSS ALB360M ALB361M NMSS
	ALB400M	ALB400M ALB401M ALB402M ALB403M
	ALB415M	ALB415M ALB416M
	ALB010M	ALB010M ALB011M NMSS ALB012M ALB013M NMSS
	ALB040M	ALB040M ALB041M NMSS ALB042M ALB043M NMSS
	ALB070M	ALB070M ALB071M NMSS ALB080M ALB081M NMSS
	ALB100M	ALB100M ALB101M NMSS ALB102M ALB103M NMSS
	ALB115M	ALB115M ALB116M
	ALB130M	ALB130M ALB131M NMSS ALB132M ALB133M NMSS

PICTURE	FAMILY	PART NUMBER
	ALB220M	ALB220M ALB221M
	ALB330M	ALB330M ALB331M ALB340M ALB341M
	ALB370M	ALB370M ALB371M NMSS ALB380M ALB381M NMSS
	ALB410M	ALB410M ALB411M ALB412M ALB413M
	ALB430M	ALB430M ALB431M ALB432M ALB433M
	ALB020M	ALB020M ALB021M NMSS ALB022M ALB023M NMSS
	ALB050M	ALB050M ALB051M NMSS ALB060M ALB061M NMSS
	ALB090M	ALB090M ALB091M ALB092M ALB093M
	ALB110M	ALB110M ALB111M ALB112M ALB113M
	ALB140M	ALB140M ALB141M ALB150M ALB151M
	ALB210M	ALB210ML ALB221ML ALB210MR ALB211MR
	ALB230M	ALB230M ALB231M

**SHOP
L BLOCKS**



NC BLOCK BLANKS








PICTURE	FAMILY	NAAMS CODE
	NC BLOCK BLANK ANI 3-HOLE	ANI 080 / 081 / 082 / 083 ANI 120 / 121 / 122 / 123 ANI 380 / 381 / 382 / 383 / 391 / 392 20MM SERIES ANI 420 / 421 / 422 / 423 / 424 / 425 20MM SERIES
	NC BLOCK BLANK ANI 4-HOLE	ANI 084 / 085 / 086 / 087 ANI 126 / 127 / 128 / 129 ANI 384 / 385 / 386 / 387 20MM SERIES ANI 426 / 427 / 428 / 429 20MM SERIES
	NC BLOCK BLANK ANL 3-HOLE	ANL 060 / 061 / 062 / 063 ANL 100 / 101 / 102 / 103 ANL 215 / 216 / 217 / 218 / 225 / 226 / 227 / 228 ANL 361 / 368 / 363 / 369 20MM SERIES ANL 401 / 408 / 403 / 409
	NC BLOCK BLANK ANL 4-HOLE	ANL 064 / 065 / 067 / 068 ANL 104 / 105 / 106 / 107 / 211 / 212 / 222 / 223 ANL 311 / 312 / 314 / 364 / 365 / 366 / 367 ANL 404 / 405 / 406 / 407 / 411 / 412
	NC BLOCK BLANK ANR TOP MOUNT 3-HOLE	ANR 130 / 131 / 132 / 133 / 134 / 135 / 136 / 137 ANR 430 / 431 / 432 / 433 / 448 / 449 / 434 / 435 / 450 436 / 437 / 451 20MM SERIES
	NC BLOCK BLANK ANR TOP MOUNT 4-HOLE	ANR 140 / 141 / 142 / 143 / 144 / 145 / 146 / 147 ANR 440 / 441 / 442 / 443 / 444 / 445 / 446 / 447 20MM SERIES
	NC BLOCK BLANK ANR SIDE MOUNT 3-HOLE	ANR 230 / 231 / 232 / 233 ANR 530 / 531 / 532 / 533 / 534 / 535 20MM SERIES
	NC BLOCK BLANK ANR SIDE MOUNT 4-HOLE	ANR 240 / 241 / 242 / 243 ANR 540 / 541 / 542 / 543 20MM SERIES

**SHOP
NC BLOCK
BLANKS**



LOCATING PINS


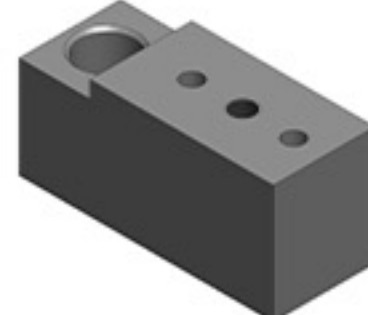




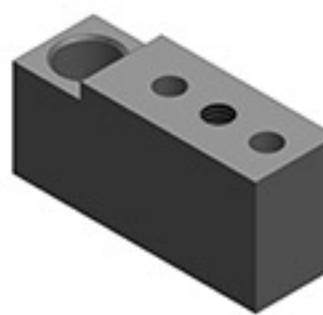



PICTURE	DESCRIPTION
	25 MM DIAMETER APS 250M TO 259M
	6MM THRU 16MM DIAMETER APS 061M TO 169M
	RETRACTABLE 19MM THRU 25MM DIAMETER APS 190R TO 259R
	RETRACTABLE 6MM THRU 16MM DIAMETER APS 061R TO 169R
	RESPOT 25MM DIAMETER ARP 250M TO 259M
	RETRACTABLE 19 TO 25 DIAMETER ARP 190R TO 250R
	RESPOT 6MM THRU 19MM DIAMETER ARP 061M TO 199M
	RETRACTABLE RESPOT 6MM THRU 16MM DIAMETER ARP 061R TO 199R
	25 X 31MM SLOTTED HOLES APE 250M TO 259M
	6 X 12 THRU 19 X 25 SLOTTED HOLES APE 061M TO 199M





PICTURE	DESCRIPTION
	6 X 12 THRU 13 X 29 SLOTTED HOLES APE 061R TO 199R
	RETRACTABLE 6 X 12 THRU 13 X 29 SLOTTED HOLES APE 061S TO 139S
	RETRACTABLE 16 X 22 THRU 25 X 31 SLOTTED HOLES APE 160R TO 259R
	RETRACTABLE 16 X 22 THRU 13 X 29 SLOTTED HOLES APE 160S TO 259S
	RESPOT 6 X 12 THRU 19 X 25 SLOTTED HOLES APE 061M TO 199M
	RETRACTABLE RESPOT 6 X 12 THRU 12 X 19 SLOTTED HOLES ARE 061S TO 139S ARE 061R TO 139R
	RETRACTABLE RESPOT 16 X 22 THRU 25 X 31 SLOTTED HOLES ARE 160S TO 259S ARE 160R TO 259R

**SHOP
LOCATING
PINS**



LOCATING PIN RETAINERS

PICTURE	FAMILY	PART NUMBER
	APR045M	APR045M APR046M NMSS
	APR065M	APR065M APR066M NMSS APR067M APR068M NMSS
	APR310M	APR310M APR312M NMSS APR313M APR314M NMSS
	APR330M	APR330M APR331M NMSS APR332M APR333M NMSS
	APR020M	APR020M APR021M NMSS
	APR040M	APR040M APR041M NMSS
	APR060M	APR060M APR061M NMSS APR062M APR063M NMSS
	APR010M	APR010M APR011M NMSS APR012M APR013M NMSS
	APR030M	APR030M APR031M NMSS APR032M APR033M NMSS
	APR050M	APR050M APR051M NMSS

PICTURE	FAMILY	PART NUMBER
	APR070M	APR070M APR071M NMSS
	APR055M	APR055M APR056M NMSS
	APR075M	APR075M APR076M NMSS
	APR320M	APR320M APR321M NMSS

SHOP
LOCATING PIN
RETAINERS



DUMP UNIT COMPONENTS









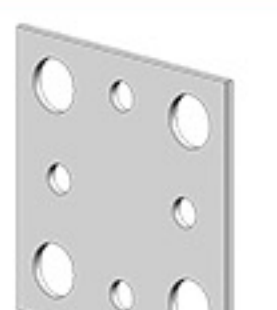
PICTURE	FAMILY	DESCRIPTION
	ADP XXI SERIES	DUMP UNIT STUB SHAFT ADP021, ADP301, ADP401, ADP501
	ADP XX2 SERIES	DUMP UNIT SPACER ADP202, ADP302, ADP402, ADP502
	ADP 400C SERIES	DUMP UNIT 40MM THRU SHAFT ADP416C THRU ADP490C DIAMETER 40MM LENGTH FROM 160-90MM
	ADP 500C SERIES	DUMP UNIT 50MM THRU SHAFT ADP530C THRU ADP590C DIAMETER 50MM LENGTH FROM 300-900MM
	ADP 600C SERIES	DUMP UNIT 60MM THRU SHAFT ADP630C THRU ADP690C DIAMETER 60MM LENGTH FROM 300-900MM
	ADP SC SERIES	DUMP UNIT STIB SHAFT ADP413SC, ADP515SC, ADP619SC
	ADP B SERIES	DUMP UNIT PIVOT BRONZE THRUST WASHER ADP4082B, ADP5095B, ADP6010B
	ADP XXXXC SERIES	DUMP UNIT PIVOT COMPOSITE BEARING ADP4050C, ADP5060C, ADP6070C
	ADP 999 SERIES	DUMP UNIT METRIC KEEPER ADP999 FOR 40MM, 50MM, 60MM DIAMETER SHAFT

**SHOP
DUMP UNIT
COMPONENTS**



SHIMS & SPACERS

PICTURE	DESCRIPTION
	METRIC FITTING SHIMS 1 SLOT ASH 102 TO 120
	METRIC FITTING SHIMS 20MM 1 SLOT ASH 102N TO 120N
	METRIC FITTING SHIMS 4 SLOTS ASH 402 TO 420
	METRIC FITTING SHIMS 20MM 4 SLOTS ASH 402N TO 420N
	METRIC FITTING SHIMS 2 SLOTS ASH 602 TO 620
	METRIC FITTING SHIMS 3 SLOTS ASH 302 TO 320
	METRIC FITTING SHIMS 20MM 3 SLOTS ASH 302N TO 320N
	METRIC FITTING SHIMS 5 SLOTS ASH 502 TO 520
	CONSTRUCTION SPACER 3 SLOTS ACS3305 TO ACS3705
	CONSTRUCTION SHIM 2 SLOTS ACH602 TO ACH620

PICTURE	DESCRIPTION
	METRIC FITTING SPACER 2 SLOTS ASP 630S TO 670S
	METRIC FITTING SPACER 20MM 6 HOLES ASP 630N TO 670N
	METRIC FITTING SPACER 3 HOLES ASP 330 TO 370
	METRIC FITTING SPACER 5 HOLES ASP 530 TO 570
	METRIC FITTING SPACER SHORT SLOT ASP 330S TO 370S
	METRIC FITTING SPACER 20MM 4 HOLES ASP 430 TO 470
	METRIC FITTING SPACER 6 HOLES ASP 630 TO 670
	METRIC FITTING SPACER 20MM SHORT SLOT ASP 430S TO 470S
	SPACER FOR 60 X 60 AND 70 X 70 MOUNTING ACS630 TO ACS670

**SHOP
SHIMS**



**SHOP
SPACERS**





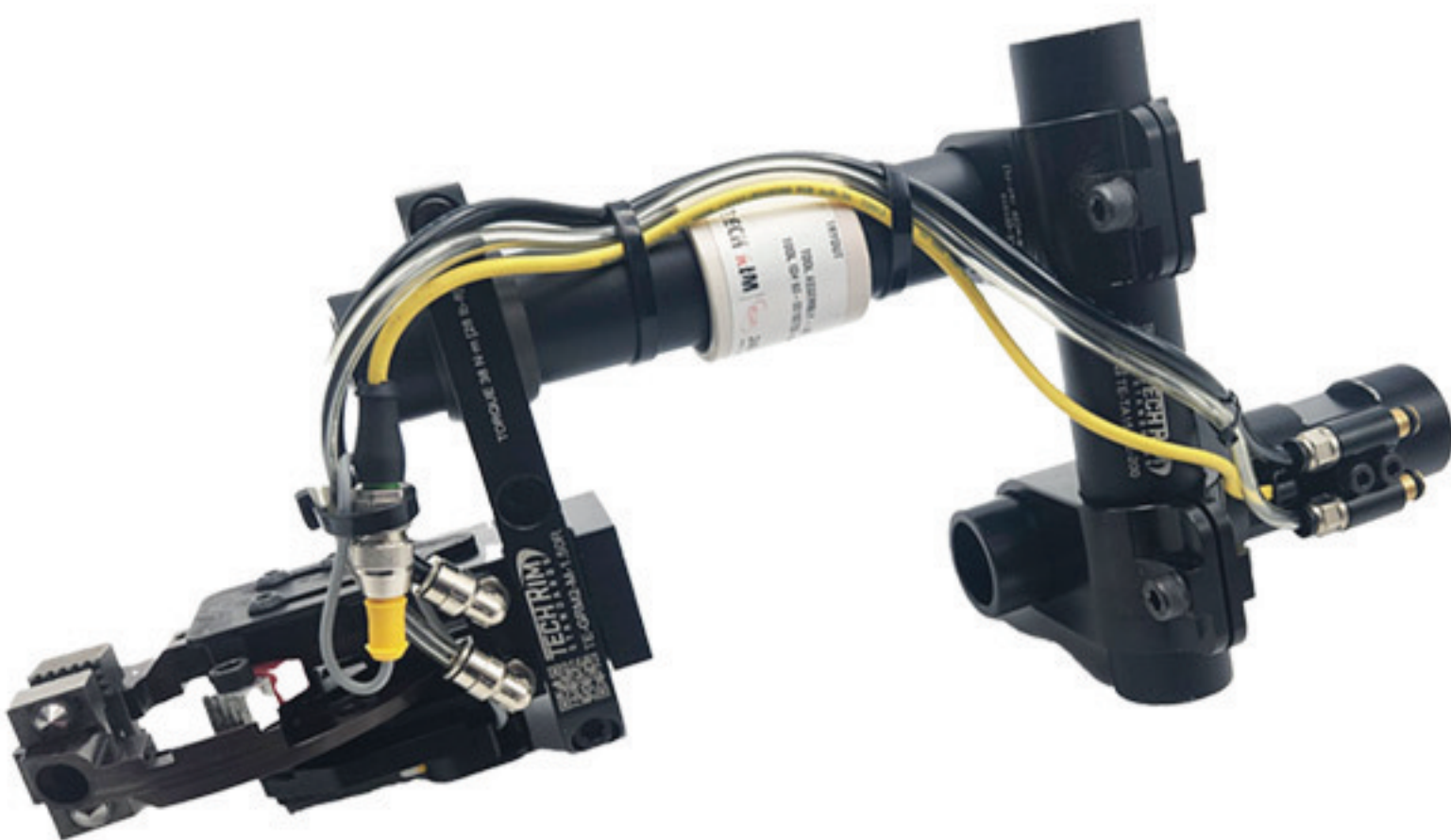
NAAMS

- World's largest inventory of NAAMS standard component
- Standardized parts for many industries and markets
- Euro standards
- A true "value added" commodity source



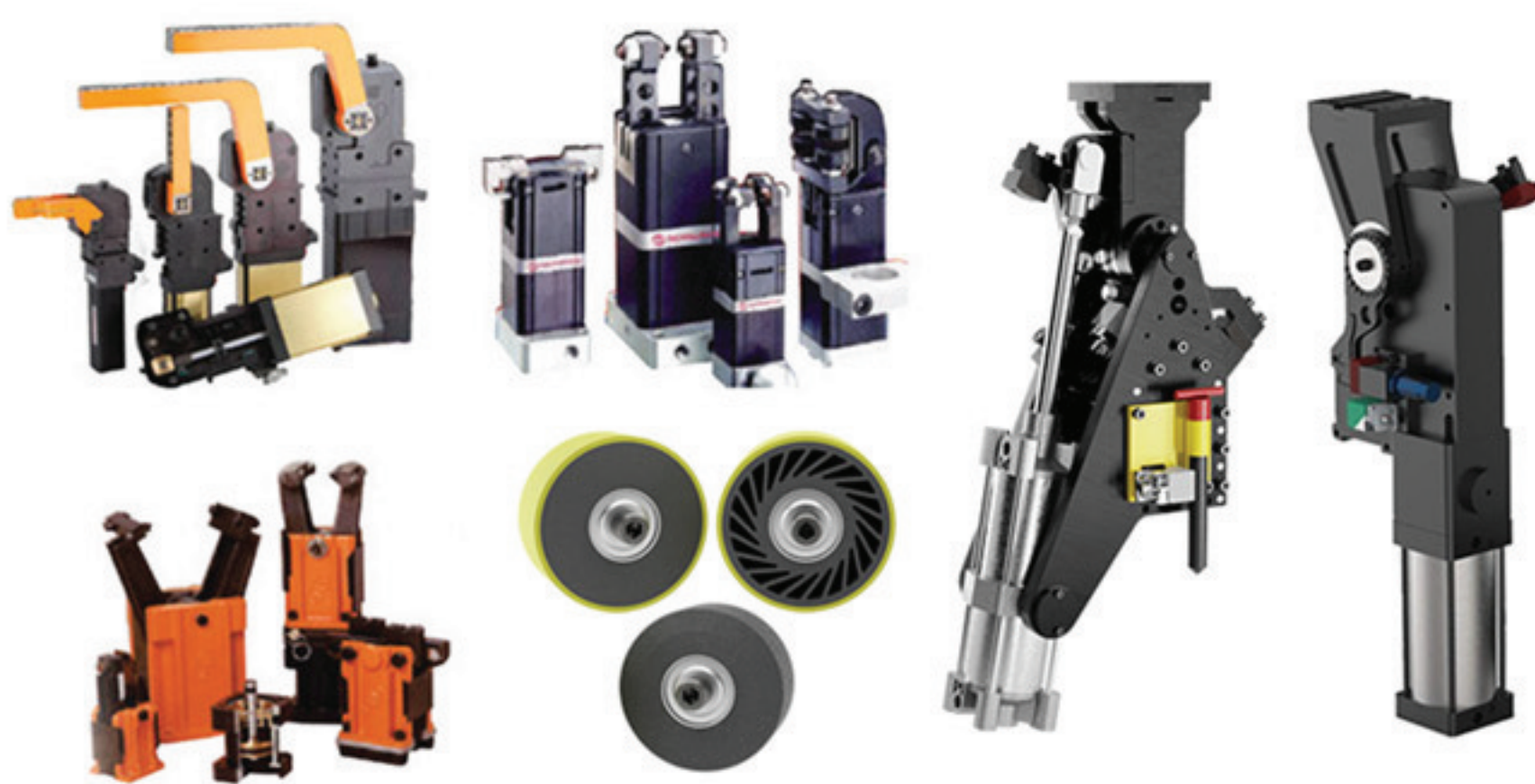
CNC MACHINING

- We manufacture thousands of custom components
- High quality and low cost
- Hundreds of material capabilities
- Small batch to high production



TECH-EFFECTOR™

- Pneumatic and electrical options
- Compatible customization
- Universal parts for build with replenishable inventory
- Thousands of parts ready for order



AUTOMATION PRODUCTS

- Off-the-shelf pneumatic actuating units
- EC Series power clamps
- GL / GH grippers
- Automation conveyor rollers