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MECHANICAL SHEARS HAND BRAKES **HEAVY DUTY BRAKES BOX AND PAN BRAKES ROLL FORMING MACHINES** SHEAR BRAKING POWER

> SMARTT, TN 37378 3 YEAR WARRANTY MADE IN THE U.S.A

## Metal Shears - 52" 16 Gauge

**NATIONAL** 

All Steel cutter heads and tables.

ational foot shears are designed for precise shearing through 16 gauge mild steel. This shear is also recommended for shearing aluminum, plastic, copper, brass and lead. Shear has heavy steel side frames, all steel cutter heads and tables with four cutting edge high carbon, high chromium blades, back gauges, table gauges, spring actuated hold down, front arm extensions, bottom treadle safety stop and full three year warranty.

#### MADE IN THE USA

5 Year Warranty Against Breakage on Cutterheads & Tables



Model	N5216
Capacity:	Mild Steel
(Tensile Strength	16 Gauge: 1.6mm
55,000 lbs. @ rated capacity)	Stainless Steel
	20 Gauge: .9 mm
Cutting length	52"
	1321mm
Shipping Weight	980lbs
	445 kgs
Floor Space w/Gauges	61" x 75 7/8" x 42 1/4"
	1549 x 1927 x 1073mm
Floor Space w/o Gauges	61" x 34 1/4" x 42 1/4"
	1549 x 870 x 1073mm

# Air Shears - 36" 12 Gauge, 52" 16 Gauge

**NATIONAL** 

All Steel cutter heads and tables.

ational offers three heavy steel side frames, all steel cutter head, hold down and table. These air shears are standard with four cutting edge high carbon high chromium blades, front arm extensions, table gauges, back gauges, and heavy duty foot switch.

### **Optional Accessories:**

57" Squaring arm Model NSA 52

#### MADE IN THE USA

5 Year Warranty Against Breakage on Cutterheads & Tables



Model	NA3612	NA5216	NA5212
Capacity:	Mild Steel	Mild Steel	Mild Steel
(Tensile Strength	12 Gauge: 2.7mm	16 Gauge: 1.6mm	12 Gauge: 2.7mm
55,000 lbs. @ rated capacity)	Stainless Steel	Stainless Steel	Stainless Steel
	16 Gauge: 1.6mm	20 Gauge: .9mm	16 Gauge: 1.6mm
Strokes Per Minute	Approx. 40	Approx. 40	Approx. 40
Cutting length	36"	52"	52"
	914mm	1321mm	1321mm
Shipping Weight	1100lbs	1400lbs	1600lbs
	499kgs	635kgs	726kgs
Floor Space w/Gauges	45" x 75 7/8" x 42 1/4"	61" x 75 7/8" x 42 1/4"	62" x 75 7/8" x 42 1/4"
	1143 x 1927 x 1073mm	1549 x 1927 x 1073mm	1575 x 1927 x 1073mm
Floor Space w/o Gauges	45" x 22 3/4" x 42 1/4"	61" x 22 3/4" x 42 1/4"	62" x 22 3/4" x 42 1/4"
	1143 x 578 x 1073mm	1549 x 578 x 1073mm	1575 x 578 x 1073mm
Recommended p.s.i.	100	100	100

# Hydraulic Shears - 36" 12 Gauge, 52" 16 Gauge 52" 12 Gauge, 52" 10 Gauge

# **NATIONAL**

ational heavy duty power shears are equipped with a fully integrated hydraulic unit. Complete with electrical hydraulic valve, pilot operated-pressure relief valve, heavy duty foot switch that allows this unit to return to the top of the stroke when the operator removes his foot from the foot switch, Heavy duty double acting cylinders. Fully enclosed control panel.

The National shear is actuated by a portable shrouded electric foot switch attached to a long flexible cable so it may be positioned comfortable to the operator.

Heavy steel side frames, all steel cutter heads and tables with solid 4-edge high carbon high chromium blades. Quick adjusting back gauge for direct reading with a positive lock. Standard with table gauges and front arm extensions

#### **Optional Accessories:**

Front operated manual digital "QUICK SET" two turn 30" back guage.

Models: QS36, QS52

Front operated "POWER" digital back gauge

Models: NBG36, NBG52

Squaring Arm Model: NSA52

#### MADE IN THE USA

5 Year Warranty Against Breakage on Cutterheads & Tables All Steel cutter heads and tables.



Model	NH3612	NH5216	NH5212	NH5210
Capacity:	Mild Steel	Mild Steel	Mild Steel	Mild Steel
(Tensile Strength	12 Gauge: 2.7mm	16 Gauge: 1.6mm	12 Gauge: 2.7mm	10 Gauge: 3.4mm
55,000 lbs. @ rated capacity)	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	16 Gauge: 1.6mm	20 Gauge: .9mm	16 Gauge: 1.6mm	14 Gauge: 1.9mm
Strokes Per Minute	Approx. 40	Approx. 25	Approx. 25	Approx. 25
Cutting length	36"	52"	52"	52"
	914mm	1321mm	1321mm	1321mm
Shipping Weight	1200lbs	1400lbs	1600lbs	1950lbs
	544kgs	635kgs	726kgs	885kgs
Floor Space w/Gauges	45" x 75 7/8" x 42 1/4"	61" x 75 7/8" x 42 1/4"	61" x 75 7/8" x 42 1/4"	62" x 79 7/8" x 42 1/4"
	1143 x 1927 x 1073mm	1549 x 1927 x 1073mm	1549 x 1927 x 1073mm	1575 x 2029 x 1073mm
Floor Space w/o Gauges	45" x 22 3/4" x 42 1/4"	61" x 22 3/4" x 42 1/4"	61" x 22 3/4" x 42 1/4"	62" x 22 3/4" x 42 1/4"
	1143 x 578 x 1073mm	1549 x 578 x 1073mm	1549 x 578 x 1073mm	1575 x 578 x 1073mm
Oil Reservoir Capacity	14 gal	24 gal	24 gal	24 gal
	53 liters	91 liters	91 liters	91 liters
Motor	3 h.p. 208 volt	3 h.p. 208 volt	3 h.p. 208 volt	5 h.p. 208 volt
	1800 rpm 240 volt			
	3 phase 460 volt			

# Hydraulic Shears - 10' 1/4", 8' 1/4", 6' 1/4", 4" 1/4"

# **NATIONAL**

ational offers four powerful heavy duty precision hydraulic shears with all steel cutter heads and tables. Standard with hydraulic rubber inserted holddowns, quick adjusting back gauge for direct reading with a positive lock, front arm extensions, table gauges, heavy duty foot switch and well lighted work area. You receive a full three year warranty. The hydraulic unit conforms to J.I.C. standards featuring simplicity of design. The National hydraulic system is simple to maintain with standard replacement parts such as valves, cylinders, hoses and oil. The National shear is actuated by a portable shrouded electric foot switch attached to a long flexible cable so it may be positioned comfortable to the operator.

National Shears have high carbon, high chromium blades with four cutting edges of premium quality tool steel and will withstand nicking and wear better than relieved blades. National blades are secured to the shear with tempered flat head screws through countersunk holes in blades. Complete cuts of full width pieces are 2" longer than specified cutting length. Underdrive construction with downward cylinders and major hydraulics under the bed gives the shear a low profile.

#### **Optional Accessories:**

Front operated digital back gauge

Models: NBG48, NBG72, NBG96 & NBG120 Front operated manual digital "QUICK SET" two turn 32" back gauge

Models: QS48, QS72, QS96, QS120

Squaring Arm

Models: NSA48, NSA72, NSA96 & NSA120

### MADE IN THE USA

5 Year Warranty Against Breakage on Cutterheads & Tables

### All Steel cutter heads and tables.



STANDARD HIGH CARBON HIGH CHROMIUM BLADES

Model	NH4825	NH7225	NH9625	NH12025
Capacity: (Tensile Strength	Mild Steel 1/4"/6.4mm	Mild Steel 1/4"/6.4mm	Mild Steel 1/4"/6.4mm	Mild Steel 1/4"/6.4mm
55,000 lbs. @ rated capacity)	Stainless 1/8"/3.2mm	Stainless 1/8"/3.2mm	Stainless 1/8"/3.2mm	Stainless 1/8"/3.2mm
Strokes Per Minute	Approx. 20	Approx. 20	Approx. 12	Approx. 12
Cutting length	48"/1219mm	72"/1829mm	96"/2438mm	120"/3048mm
Shipping Weight	5000lbs/2268kgs	6000lbs/2722kgs	7000lbs/3176kgs	9000lbs/4091kgs
Floor Space w/Gauges	66 1/2" x 98" x 54"	84" x 98" x 54"	116" x 98" x 60"	140" x 98" x 60"
	1689 x 2489 x 1372mm	2134 x 2489 x 1372mm	2946 x 2489 x 1524mm	3556 x 2489 x 1524mi
Floor Space w/o Gauges	66 1/2" x 38" x 54"	84" x 38" x 54"	116" x 39 1/4" x 60"	140" x 39 1/4" x 60"
	1689 x 965 x 1372mm	2134 x 965 x 1372mm	2946 x 997 x 1524mm	3556 x 997 x 1524mm
Oil Reservoir Capacity	24gal/91 liters	24gal/91 liters	24gal/91 liters	24gal/91 liters
Motor	7 1/2 h.p. 208 volt			
	1800 rpm 240 volt			
	3 phase 460 volt			

# Mechanical Shears - 4' 10 Gauge, 6' 10 Gauge, 8' 10 Gauge, 10' 14 Gauge

# **NATIONAL**

hese powerful Mechanical Shears are all USA made. They offer rugged welded construction, inch-bed scales, accurate table side quages, hold-down finger quard with non-marring urethane, positive spring actuation and high carbon, high chrome long-life tool steel blades. The upper and lower blades are interchangeable. Nonmetallic gibs are maintenance free with selflubricating bearings, continuous-cycle, singlecycle and jog for different needs. Our shears also offer a fully guarded safety foot switch, quiet operation and low power consumption.

#### **OPTIONAL ACCESSORIES**

"QUICK SET" front operated manual digital read out back gauge 32" travel.

Models QS48, QS72, QS96, QS120

- Power front operated digital read out back gauge
- · Front return sheet support
- · Rear return sheet support
- · Squaring arm to 4'
- Squaring arm 4' to 8'
- Squaring arm 8' to 12'
- Two front extensions
- Work light

#### MADE IN THE USA

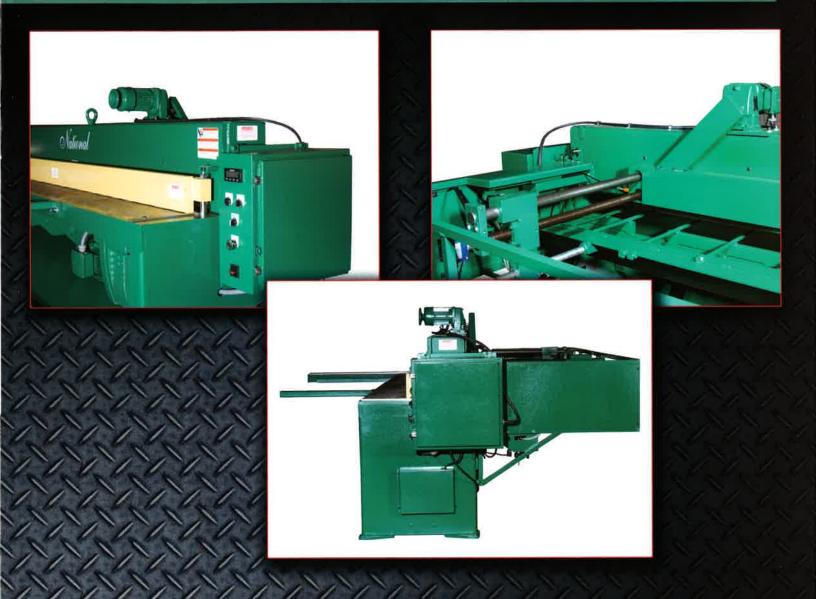
5 Year Warranty



5 Year Warranty Against Breakage on Cutterheads, Tables & Holddowns



## All Steel cutter heads and tables - Standard high carbon high chromium blades



Specifications				
Model	NM410	NM610	NM810	NM1040
Capacity:	Mild Steel	Mild Steel	Mild Steel	Mild Steel
Tensile Strength	10 Gauge 3.4mm	10 Gauge 3.4mm	10 Gauge 3.4mm	14 Gauge 2.mm
55,000 lbs. @ rated capacity	SS 14 Gauge 2mm	SS 14 Gauge 2mm	SS 14 Gauge 2mm	SS 16 Gauge 1.6mm
Strokes per min	40	40	40	40
Cutting Length	49"/1244	73"/1854	97"/2464"	121"/3073"
Shipping Weight	3600lbs/1632kg	4900lbs/2223kg	6850lbs/3107kg	6100lbs/2767kg
Floor Space	73"x89"x53"	93"x89"x53"	117"x89"x53"	141"x89"x53
w Gauges	1854X2260X1346	2362X2260X1346	2972X2260X1346	3581X2260X1346
Floor Space	73"x28"x53"	93"x28"x53"	117"x28"x53"	141"x32"x53
w/o Gauges	1854X711X1346	2362X711X1346	2972X711X1346	3581X813X1346
Motor	7 1/2 hp 208v			
	204v	204v	204v	204v
	460v	460v	460v	460v
	3phase	3phase	3phase	3phase

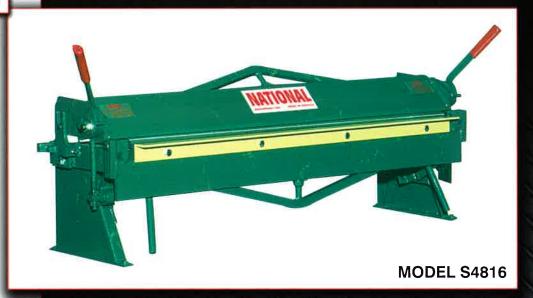
# Heavy Duty Box & Pan Brakes - 48" 16 Gauge

# **NATIONAL**

simplicity of design allows these brakes to work in the most direct fashion. Easy to set up and operate. Body sections are welded steel plates, with heavy truss rods and braces for longer life and greater strength. These brakes are standard with extension handles, apron stop for repeat bends, and replaceable bushings at points of wear.

### MADE IN THE USA

3 Year Warranty





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ope	CILI	Ga	510	113

Model	U4816	\$4816	Stand
Capacity:	Mild Steel 16 Gauge	Mild Steel 16 Gauge	
(Yield Strength	1.6mm	1.6mm	
30,000 lbs. @ rated capacity)	Stainless 20 Gauge	Stainless 20 Gauge	
	.9mm	.9mm	
Maximum Lift of Beam	11/4"/32mm	11/4"/32mm	
Finger Width	2" 3" 4"		
	51mm 76mm 102mm		
Maximum Depth of Box	4"/102mm		
Bending Length	481/4"/1226mm	481/4"/1226mm	
Shipping Weight	500lbs/227kgs	470lbs/213kgs	100lbs/45kgs
	1689 x 965 x 1372mm	2134 x 965 x 1372mm	
Floor Space			54"x19"x271/4"
		A	1372x483x692mm

# Box & Pan Brakes - 4' 12 Gauge, 6' 12 Guage, 6' 16 Gauge 6 12 Gauge, 8' 16 Gauge

# **NATIONAL**

ational has four popular floor model box and pan brakes designed to be easy and simple to operate. Standard with 2", 3" and 4" finger widths, stop rods for repeat bends, two large counterweights, and precision bearings on the apron. All steel body construction with extra heavy tie rods for minimum deflection.

### MADE IN THE USA

3 Year Warranty



### **Specifications**

Model	U4812	U7216	U7212	U9616
Capacity:	Mild Steel	Mild Steel	Mild Steel	Mild Steel
(Yield Strength	12 Gauge: 2.7mm	16 Gauge: 1.6mm	12 Gauge: 2.7mm	16 Gauge: 1.6mm
30,000 lbs. @ rated capacity)	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	16 Gauge: 1.6mm	20 Gauge: .9mm	16 Gauge: 1.6mm	20 Gauge: .9mm
Finger Width	2", 3", 4"	2", 3", 4"	2", 3", 4"	2", 3", 4"
	51, 76, 102mm	51, 76, 102mm	51, 76, 102mm	51, 76, 102mm
Maximum Depth of Box	4"/102mm	4"/102mm	4"/102mm	4"/102mm
Bending Length	49"/1245mm	73"/1854mm	73"/1854mm	97"/2464mm
Shipping Weight	1150lbs/522kgs	1850lbs/839kgs	2100lbs/953kgs	2200lbs/998kgs
Floor Space w/counterweight	95" x 27" x 55" 2413 x 686 x 1397mm	119" x 27" x 55" 3023 x 686 x 1397mm	129" x 27" x 59" 3277 x 686 x 1499mm	143" x 27" x 55" 3632 x 686 x 1397mm

# Heavy Duty Box & Pan Brakes - 6" Box Depth

# **NATIONAL**

ational offers four heavy duty box and pan brakes made in the U.S.A. Standard with heavy body construction, precision bearings on the apron, two large cast iron counterweights and apron stop for repeat bends. The National name means quality.

Section fingers are precision machined from rolled steel bar stock for maximum strength. The fingers can be adjusted or removed quickly by the loosening of cap screws. Heavy duty steel plates and tension bars are precision incorporated for minimum deflection.

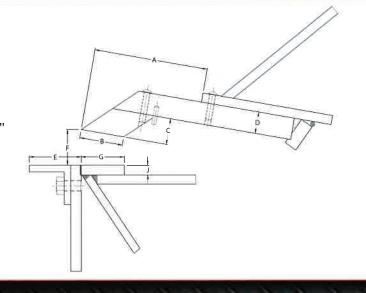
#### MADE IN THE USA

#### 3 Year Warranty

Finger Width	3" 76mm	4" 102mm	5" 127mm	6" 152mm	Total
U6-4812	5	2	5	0	12
U6-7212	5	4	7	1	17
U6-9614	5	6	9	2	22
U6-12016	6	10	10	2	28



- A. 65/16"
- B. 2 1/2"
- C. 1 1/2"
- D. 1 1/4"
- E. Approx. 3"
- F. 2 5/16"
- G. Approx. 2 1/2""
- J. 9/16"



### **Specifications**

Model	U6-4812	U6-7212	U6-9614	U6-12016
Capacity:	Mild Steel	Mild Steel	Mild Steel	Mild Steel
(Yield Strength	12 Gauge: 2.7mm	12 Gauge: 2.7mm	14 Gauge: 1.9mm	16 Gauge: 1.6mm
30,000 lbs. @ rated capacity)	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
	16 Gauge: 1.6mm	16 Gauge: 1.6mm	18 Gauge: 1.2mm	20 Gauge: .9mm
Maximum Depth of Box	6"/152mm	6"/152mm	6"/152mm	6"/152mm
Bending Length	49"/1245mm	73"/1854mm	97"/2464mm	121"/3073mm
Shipping Weight	1900lbs/862kgs	2530lbs/1148kgs	2800lbs/1270kgs	3200lbs/1452kgs
Floor Space w/counterweight	95" x 27" x 55"	1261/2" x 29" x 59"	153" x 27" x 59"	177" x 29" x 59"
	2413 x 686 x 1397mm	3213 x 737 x 1499mm	3886 x 686 x 1499mm	4496 x 737 x 1499mm

# Hand Brakes - 4' 12 Gauge, 6' 12 Gauge, 8' 14 & 16 Gauge 10' 16 & 14 Gauge, 12" 18 Gauge

# **NATIONAL**

ational offers these hand brakes with a great deal of pride. A simple design, utmost strength with a long life of dependable service. Streamline designed for fast, accurate bending even for the inexperienced workman. Heavy steel body construction with extra heavy tie rods for perfect alignment. Precision bearings on the apron assures you of a smooth operating brake. These brakes come with a full three year warranty.

#### MADE IN THE USA

3 Year Warranty



Specifications			
Model	N4812	N7212	N9616
Capacity: (Yield Strength 30,000 lbs.	Mild Steel 12 Gauge: 2.7mm	Mild Steel 12 Gauge: 2.7mm	Mild Steel 16 Gauge: 1.6mm
@ rated capacity)	Stainless 16 Gauge: 1.6mm	Stainless 16 Gauge: 1.6mm	Stainless 20 Gauge: .9mm
Bending Length	49"/1245mm	73"/1854mm	97"/2464mm
Shipping Weight	1050lbs/476kgs	1800lbs/816kgs	1600lbs/726kgs
Floor Space w/Counterweight	95" x 27" x 55"	129" x 27" x 59"	143" x 27" x 55"
	2413 x 686 x 1397mm	3277 x 686 x 1499mm	3632 x 686 x 1397mm
Model	N9614	N12016	N12014
Capacity: (Yield Strength 30,000 lbs.	Mild Steel 14 Gauge: 1.9mm	Mild Steel 16 Gauge: 1.6mm	Mild Steel 14 Gauge: 1.9mm
@ rated capacity)	Stainless 18 Gauge: 1.2mm	Stainless 20 Gauge: .9mm	Stainless 18 Gauge: 1.2mm
Bending Length	97"/2464mm	121"/3073mm	121"/3073mm
Shipping Weight	1750lbs/794kgs	2800lbs/1270kgs	3200lbs/1452kgs
Floor Space w/Counterweight	153" x 27" x 59"	177" x 29" x 59"	177" x 29" x 59"
	3886 x 686 x 1499mm	4496 x 737 x 1499mm	4496 x 737 x 1499mm
Model	N14418		
Capacity: (Yield Strength 30,000 lbs.	Mild Steel 18 Gauge: 1.3mm	The state of the s	
@ rated capacity)	Stainless 22 Gauge: .85mm		
Bending Length	145"/3683mm		
Shipping Weight	3450lbs/1553kgs		
Floor Space w/Counterweight	201" x 29 x 59"		

5105 x 737 x 1499mm

## Power Roll Forming Machine - 48" & 72" x 16 Gauge

# **NATIONAL**

National's 3" and 4" power rolls are designed for simple operation. Standard with forward and reverse drum switch. Quick release upper roll. Positive chain drive. Heavy duty gear box. Front guard for additional safety. Heavy duty stand is standard.

National's rolls incorporate three precision turned, ground, and polished high carbon steel rolls. Extra heavy duty end frames with quick release handle on the right front for speedy production forming.

The drive train is powered with a heavy duty precision reduction gear box to assure durability and long life. The electric panel and gear box are housed in a ventilated stand for protection.

Precision roll adjustment is achieved by turning the hand wheel on the left end of the roll. Repeatability is maintained by the forming scale above the hand wheel.

### MADE IN THE USA

### 3 Year Warranty



Model	NR4816	NR7216
Capacity: (Yield Strength 30,000 lbs. @ rated capacity)	16 Gauge: 1.6mm	Capacity: (Yield Strength 16 Gauge: 1.6mm
Maximum Forming Length	48 1/4"/1226mm	72 1/4"/1835mm
Diameter of Roll	3"/76mm	4"/102mm
Minimum Forming Radius	1 1/2"/38mm	2"/51mm
Wire Grooves (Optional)	3/8", 1/2", 5/8"/10mm, 13mm, 16mm	3/8", 1/2", 5/8"/10mm, 13mm, 16mm
Roll Speed	18 rpm/14.13 sfpm	18 rpm/14.13 sfpm
Motor: 110-220 Single PH 208-220-440 3 PH	1 hp	1 hp
Floor Space (I x w x h)	64" x 37" x 441/2" 1626 x 940 x 1130mm	88" x 26" x 433/4" 2335 x 660 x 1111mm
Shipping Weight	970lbs/440kgs	1740lbs/814kgs

# Quick Set® - Two Turn Manual Digital Readout Back Gauge

# **NATIONAL**

inear digital measuring system showing metric, decimal or fractional display with accuracy and repeatability.

### **TRAVEL IN 2 SECONDS**

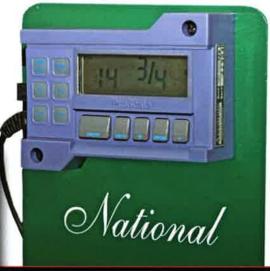
30" Travel on 52" Shears 32" Travel on 1/4 Shears 32" Travel on Mechanical Shears

### MADE IN THE USA

1 Year Warranty







# Front Operated Power Operated Back Gauge

# **NATIONAL**

### L.E.D. CONTROL

- Precision digital front operated back gauge
- Control panel located out of the work area, yet convenient for the operator.
- Precision Thomson bearings
- Max travel 30"/762mm
- Precision reliable repeatability improves cutting accuracy.
- Shipped assembled for easy mounting
- Digital readout in increments of one thousandth of an inch
- No memory loss due to power failure
- Easy mounting, can be retrofitted to any National shear

### MADE IN THE USA

3 Year Warranty



Specification	S			.,		
Model	NBG36	NBG52	NBG48	NBG72	NBG96	NBG120
Floor Space (I x w x h)	36" x 44" x 161/2"	511/4" x 44" x 161/2"	511/4" x 48' x 19"	72" x 48" x 19"	81" x 48" x 19"	88" x 48" x 19"
	915 x 1118 x 419mm	1302 x 1118 x 419mm	1302 x 1219 x 483mm	1829 x 1219 x 483mm	2057 x 1219 x 483mm	2235 x 1219 x 483mm
Shipping Weight	300lbs/136kgs	340lbs/154kgs	380lbs/172kgs	480lbs/218kgs	580lbs/261kgs	680lbs/306kgs
Travel	30"/762mm	30"/762mm	30"/762mm	30"/762mm	30"/762mm	30"/762mm

# Conversion & Equivalents Tables

THIC	KNE	SS	COI	VVE	RSI	ON	S	TE	NSIL	X GAU	JGE =	MAX	CUTTI	NG TH	IICKNI	ESS
	STD.	S	oft	Me	tal <sup>-</sup>	Tab	le (I	.E. /	٩LU	IIMI	NUN	Λ, E	CT.)	)		
Tensil	50	47	45	43	40	37	35	33	30	27	25	23	20	18	16	14

	STD.	l											,			
Tensil	50	47	45	43	40	37	35	33	30	27	25	23	20	18	16	14
16 ga. 067	.067	.071	.074	.077	.083	.090	.095	.101	.111	.123	.134	.145	.167	.185	.209	.239
12 ga. .113	.113	.119	.125	.131	141	.152	.160	.170	187	.209	.226	.245	.282	313	.352	.403
10 ga. .142	-142	.150	.157	.164	.177	.191	-201	214	235	.262	.284	.308	.355	.393	.443	.506
1/4"	-250	265	.277	.290	312	.337	.355	377	415	-462	-500	-542	-625	692	-780	.892

# **Squaring Arm**

# **NATIONAL**

ational brings to you a squaring arm constructed of high tensile strength, durable solid steel. National's squaring arm comes with 57" to 60" black oxided scale with 1/16" increments. This squaring arm comes with jack screws for easy leveling. National's squaring arms are easily assembled on the left side of the machine.

### MADE IN THE USA

1 Year Warranty



### **Specifications**

Model	NSA52	NSA48	NSA72	NSA96	NSA120
Length	431/2"/1105mm	45"/1143mm	45"/1143mm	45"/1143mm	45"/1143mm
Shipping Weight	72lbs/33kgs	107lbs/49kgs	107lbs/49kgs	107lbs/49kgs	107lbs/49kgs

### Hard Metal Table (I.E. Stainlesss, ECT.)

	STD.															
Tensil	50	52	55	57	60	62	64	65	67	70	75	77	80	85	90	
16 ga. .067	.067	.064	.060	.058	.055	.054	,052	.051	.049	.047	.044	.043	.041	.039	.037	
12 ga.	112	100	102	000	004	001	V00	006	004	000	075	072	.070	066	063	
.113	1113	3 108	.100	102	099	094	1091	,000	,000	,004	.080	.075	.07 5	.070	.000	.002
10 ga.	142	126	120	124	110	114	110	100	105	101	004	دور	.088	U63	070	
.142	1142	130	125	124	110	114	110	109	.103	.101	.094	.092	.000	.083	.078	
1/4"	250	240	227	210	200	201	105	102	106	170	166	167	.156	147	120	
.250	,250	.240	,227	.219	208	.201	כפו	192	186	.178	100	.102	.130	.147	138	

AISI	AISI SHEET GAUGE EQUIVALENTS IN DECIMAL INCHES														
GAUGE	THICK	TOL. HR, P&O	TOL.	GAUGE	THICK	TOL. HR, P&O	TOL. CR.		GAUGE	THICK	TOL HR, P&O	TOL CR.			
4	.224	.217 .232		11	,120	.128 .112	.126		18	.048	.054 .042	.052 .042			
5	.209	202 218		12	,105	.113 .097	.111		19	.042	_1011.001	.046 .038			
6	-194	-186 -203		13	.090	.097	.095 .085		20	.036		.039			
7	.179	-187 -171	.187 .171	14	.075	.082	.080		21	.033		.036			
8	.164	172 156	.172 .156	15	.067	.074	.072		22	.030		.033 .027			
9	.149	157 141	.157 .141	16	.060	.067	.065 .055		23	.027		.030 .024			
10	.134	142	140	17	.054	060	058		24	.024		027			



# **WARRANTY**

Each machine will be warranted for a period of three years from date of shipment. The warranty will cover the cost of any parts found to be defective upon our examination. We will not be liable for any shipping charges, installation costs or any other expenses.

This Warranty will not apply to modified machines, misuse or unauthorized repair work.

National Sheet Metal Machines, Inc. reserves the right to change design and parts for the enhancement of machines at our discretion.

### **3 Year Warranty**

# Sheet Metal Machines, Inc.

