










**SCHMALE**  
partner in engineering

# Wire Forming **NEXT LEVEL**



-  Secondary operations done in-line
-  50+ years wire forming experience
-  Servo electric drives



-  Fast and reliable machines
-  Extremely versatile machines
-  German machine building
-  Spare parts shipped from Atlanta



[www.schmale-machinery.com](http://www.schmale-machinery.com)

My grandfather started machine building in **Germany in 1965**. Since then we built hundreds of machines to form wire, tube and sheet metal.

Schmale machines are used by suppliers for the **automotive** and railway industries, manufacturers of kitchen **appliances**, bicycles, DIY products and many more.

Today, Schmale Machinery is offering this solutions to the US and Canada. They range from standard machines which are almost of the shelf to key turn systems tailored to **your specific needs**.

Our core competencies are

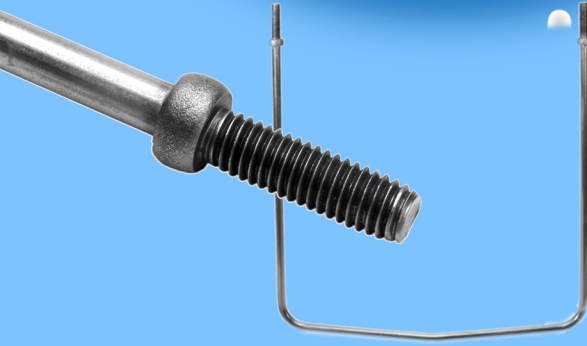
- **intelligent automation** of processes,
- pushing the boundaries of today's solutions and
- looking for optimisation potential for our customers processes.

I am looking forward to visiting you,  
Call me today at +1 **(678) 365-1015**.  
I will visit you **personally anywhere in the US and Canada**. No obligations,  
just have a look at next level wire forming.

Daniel Schmale  
Owner



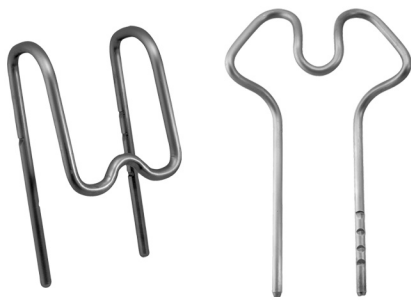
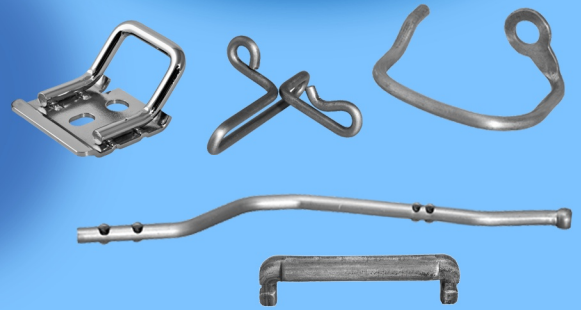
↓ 20 pc/min ↓  
3.0 sec cycle time



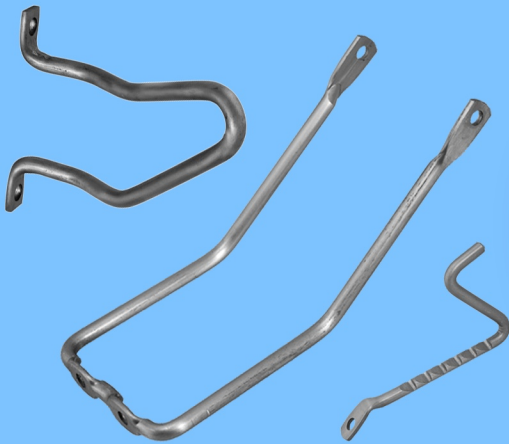
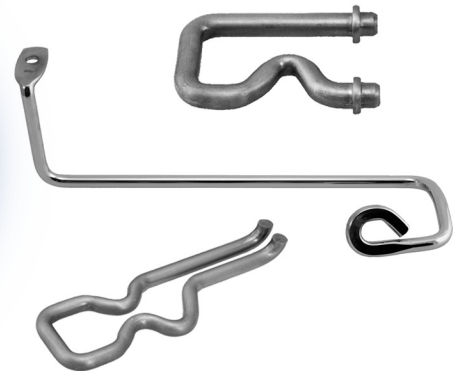
up to  
1/4"  
wire & tube



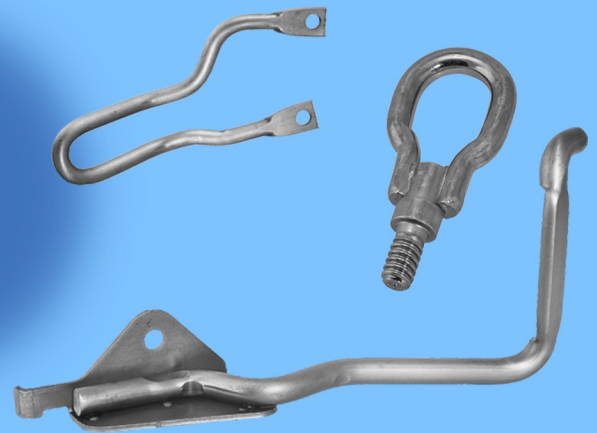
↓ 30 pc/min ↓  
2.0 sec cycle time



up to  
1/2"  
wire & tube



up to  
1"  
wire & tube



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Sheet  
metal



Additional slides, presses and other units may be necessary.  
Cycle times are given according to our experience gained with  
already running solutions. They can vary in terms of tolerances,  
material and other circumstances. Parts are not to scale.

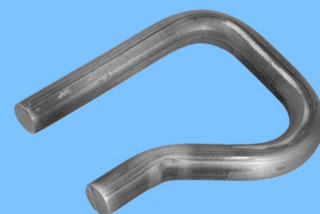
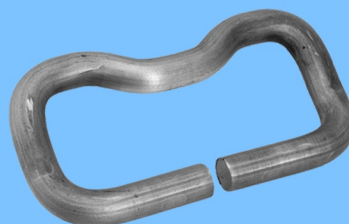
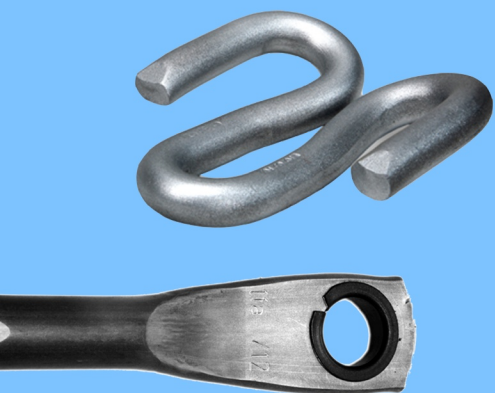
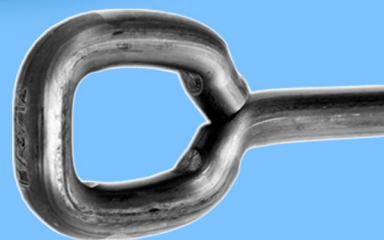
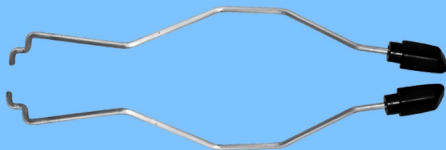
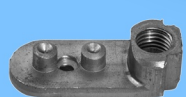




40 pc/min  
1.5 sec cycle time



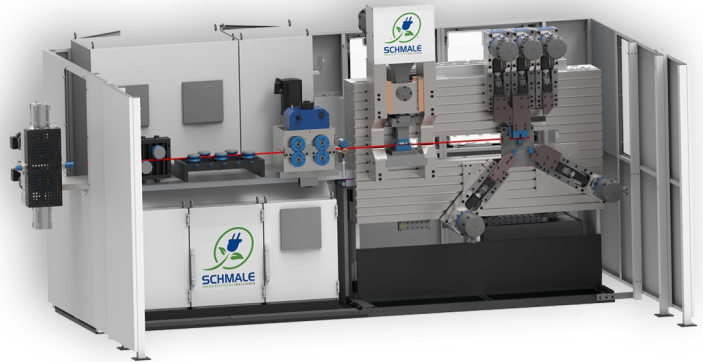
50 pc/min  
1.2 sec cycle time



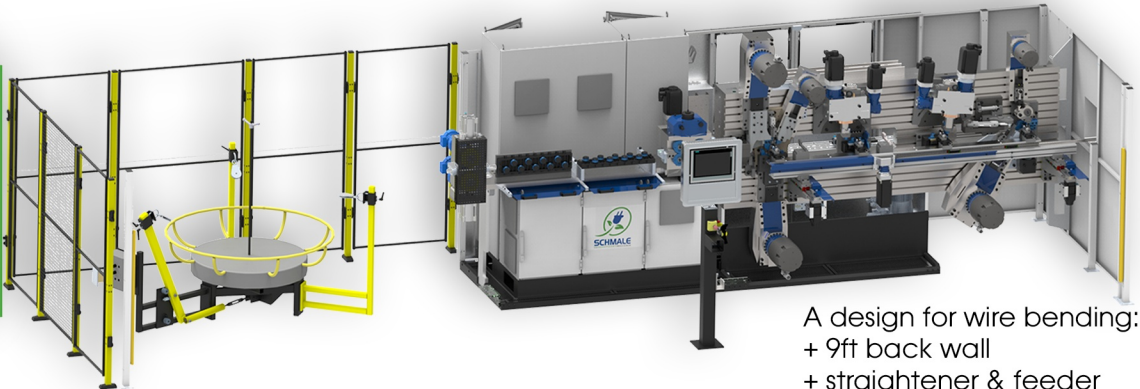
**SCHMALE**  
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up to  
80 pc/min  
.75 sec  
cycle time

One of the most **standard**  
X2000 machines:  
+ 6ft back wall  
+ straightener & feeder  
+ 40 ton press  
+ five 10 ton slides



up to  
40 pc/min  
1.5 sec  
cycle time



A design for wire bending:  
+ 9ft back wall  
+ straightener & feeder  
+ **3 axis finger bender**  
+ 10 ton and 15 ton slides  
+ standard transfer system

up to  
40 pc/min  
1.5 sec  
cycle time



A design for **heavy wire**:  
+ 15ft back wall  
+ magazine for cut length  
+ **straightener & feeder**  
+ **available for 1" wire**  
+ **200 ton press**  
+ 15 ton slides  
+ 24 ton slides  
+ transfer system

Pictures not to scale. Specifications may change without notice.



100+ units are available to be used on our standard X2000 machine series:

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- + slides from 2 ton to 24 ton
- + presses from 24 ton to 700 ton
- + swage units from 24 ton to 300 ton
- + feeder for wire from 1/16" to 1"
- + thread units
- + progressive die units
- + welding units
- + sort & assemble units
- + roll form units
- + chamfer units
- + finger bender for up to 1" wire
- + lug press units
- + cold form units
- + induction units for hot inline operations
- + vision systems
- + calibration units
- + mark & stamp units
- + notch units
- + tube bend with mandrel units
- + and much more!

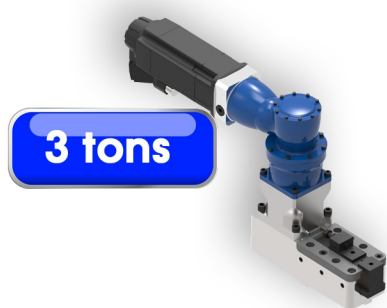


Yes, that is a lot of stuff! And in addition: You can modify and add on to each and every machine after you bought it. You don't have to fix yourself on one single scenario, but rather have the flexibility of adding even a 700 ton press years after you got a more simple design.

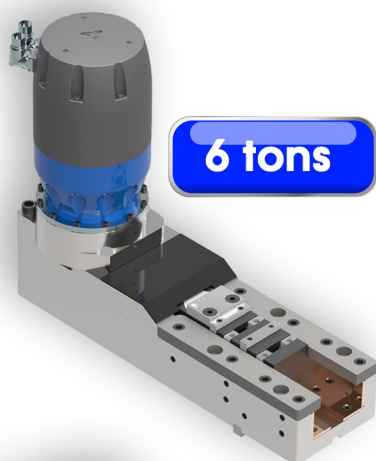


up to  
30 pc/min  
2.0 sec  
cycle time

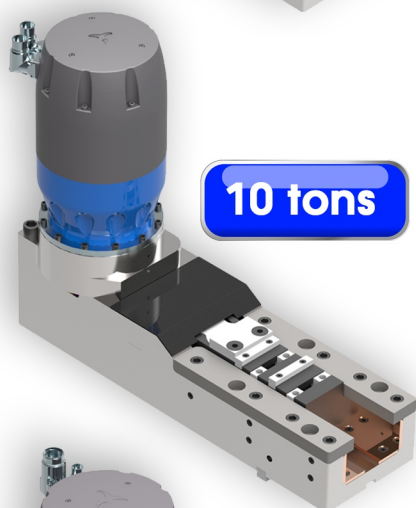
- A loaded design for 1" wire:
- + 12ft back wall
  - + straightener & feeder
  - + 200 ton press
  - + 700 ton press
  - + 10 ton and 24 ton slides
  - + standard transfer system



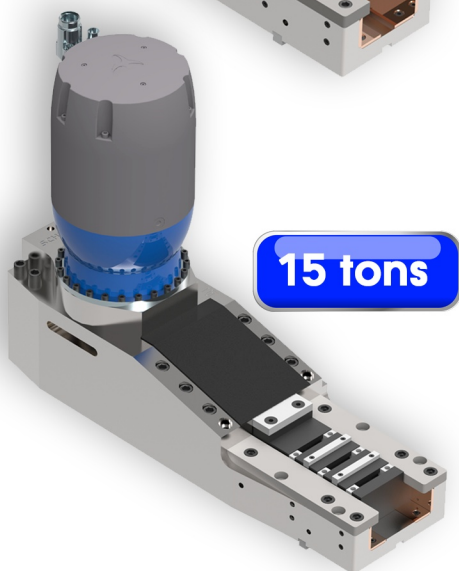
	mm	inch
Item	3 ton Slide	
Order number	SS-0030-EE-0032	#10003256
Stroke	32	1.26
Force at lower dead center	3 tons	6,600 lbs
Foot print	120 x 285	4.7 x 11.2
Speed	up to 240 strokes/min (.25 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



	mm	inch
Item	6 ton Slide	
Order number	SS-0060-EK-0100	#10003056
Stroke	100	3.94
Force at lower dead center	6 tons	13,200 lbs
Foot print	180 x 620	4.7 x 11.2
Speed	up to 200 strokes/min (.3 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



	mm	inch
Item	10 ton Slide	
Order number	SS-0100-ES-0056	#10003156
Stroke	56	2.2
Force at lower dead center	10 tons	22,000 lbs
Foot print	180 x 637	7.1 x 25.1
Speed	up to 200 strokes/min (.3 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



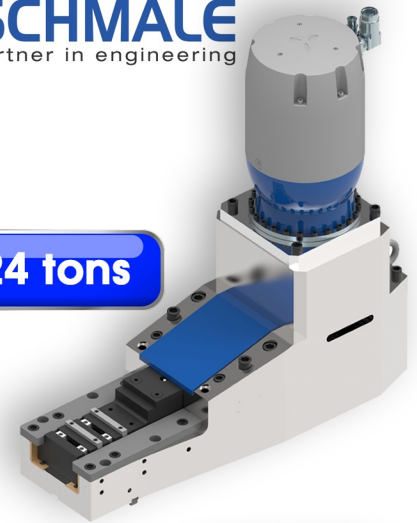
	mm	inch
Item	15 ton Slide	
Order number	SS-0150-ES-0110	#10003157
Stroke	110	4.3
Force at lower dead center	15 tons	33,100 lbs
Foot print	306 x 895	12.1 x 35.2
Speed	up to 160 strokes/min (.4 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

Pictures not to scale. Specifications may change without notice.



	mm	inch
Item	24 ton Slide	
Order number	SS-0240-ES-0065	#2209900
Stroke	65	2.56
Force at lower dead center	24 tons	52,900 lbs
Foot print	330 x 895	13 x 35.3
Speed	up to 160 strokes/min (.4 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

**24 tons**



	mm	inch
Item	40 ton Press	
Order number	PP-0400-EE-0060	#2250319
Stroke	60	2.36
Force at lower dead center	40 tons	88,200 lbs
Speed	up to 120 strokes/min (.5 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

**40 tons**



	mm	inch
Item	60 ton Press	
Order number	PP-0600-EE-0040	#4014022
Stroke	40	1.57
Force at lower dead center	60 tons	132,300 lbs
Speed	up to 120 strokes/min (.5 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

**60 tons**



	mm	inch
Item	120 ton Press	
Order number	PP-1200-EE-0080	#4014025
Stroke	80	3.15
Force at lower dead center	120 tons	264,600 lbs
Speed	up to 100 strokes/min (.6 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

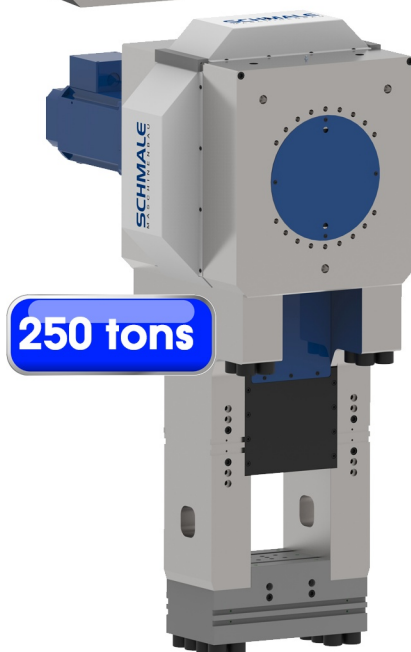
**120 tons**



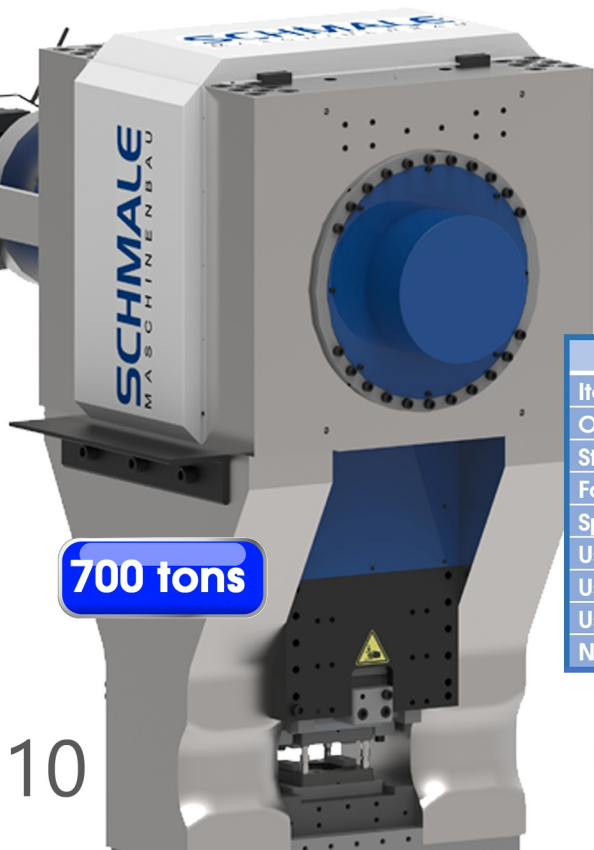


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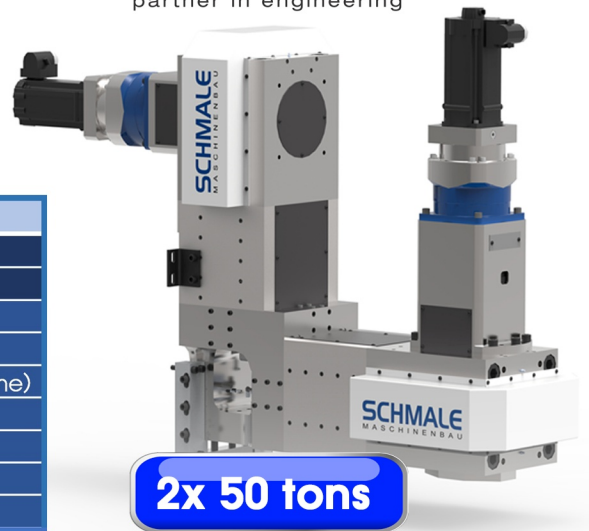
	mm	inch
Item	200 ton Press	
Order number	PP-2000-EE-0080	#2209828
Stroke	80	3.15
Force at lower dead center	200 tons	440,900 lbs
Speed	up to 100 strokes/min (.6 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



	mm	inch
Item	250 ton Press	
Order number	PP-2500-EE-0030	#2208525
Stroke	30	1.18
Force at lower dead center	250 tons	551,200 lbs
Speed	up to 100 strokes/min (.6 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

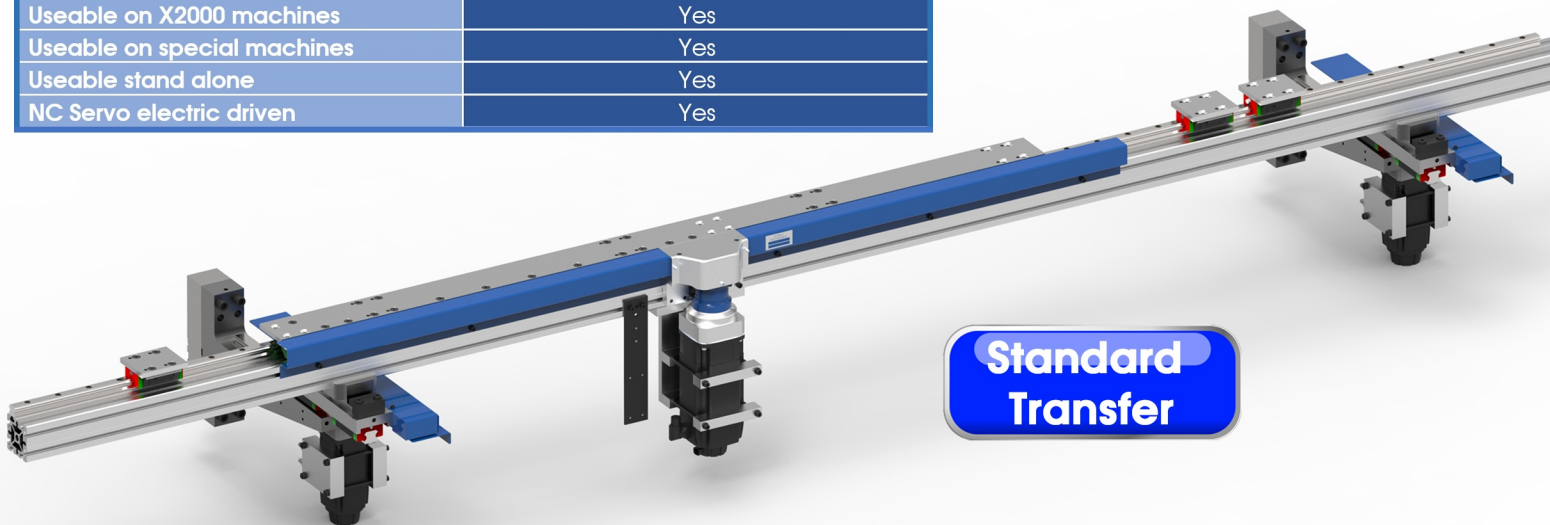


	mm	inch
Item	700 ton Press	
Order number	PP-7000-EE-0040	#2209701
Stroke	40	1.57
Force at lower dead center	700 tons	1,543,200 lbs
Speed	up to 80 strokes/min (.75 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

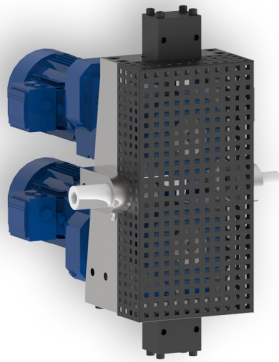


	mm	inch
Item	2x 50 ton Swage Press	
Order number	PS-0500-ES-0030	
Stroke	30	5.45
Force at lower dead center	50 tons	110,200 lbs
Speed	up to 120 strokes/min (.5 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

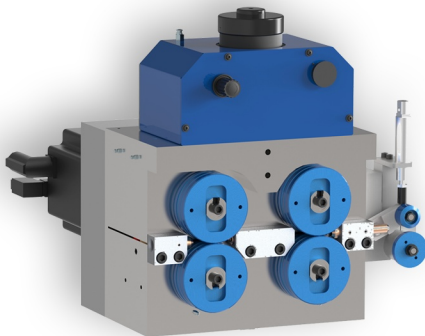
	mm	inch
Item	Transfer System	
Order number	TR-0280-0950	
Stroke in/out	280	11.0
Stroke left/right	950	37.4
Maximum overall length	6.000	236
Speed	up to 40 strokes/min (1.5 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



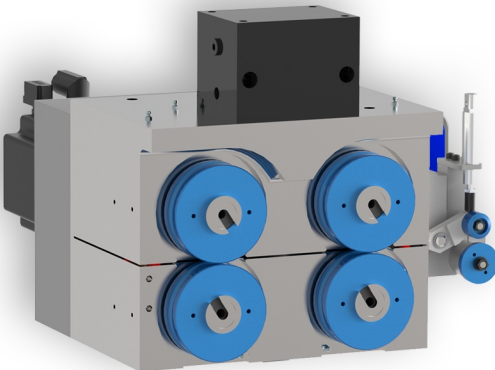




	mm	inch
Item	Aux Feeder	
Order number	EH-0002-ED-0180	#2208191
Number of rolls	4	
Clamp mechanism	Manual	
Speed	below 30mm per second	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	No	



	mm	inch
Item	Standard 4-Roll Feeder	
Order number	VO-0004-ER-0120	
Number of rolls	4	
Clamp mechanism	Pneumatic	
Roll diameter	120	4.7
Speed	up to 120 strokes/min (.5 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



	mm	inch
Item	Heavy Duty 4-Roll Feeder	
Order number	VO-0004-ER-0150	
Number of rolls	4	
Clamp mechanism	Hydraulic	
Roll diameter	150	5.9
Speed	up to 100 strokes/min (.6 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

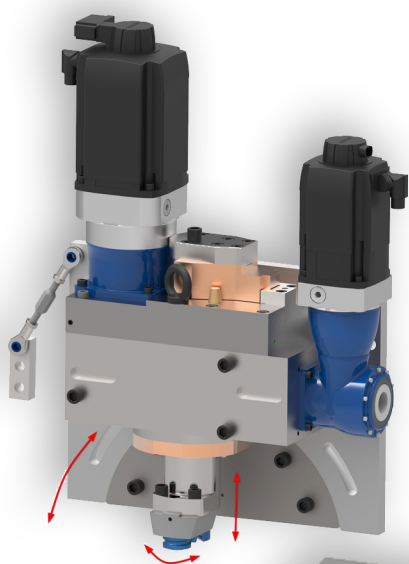
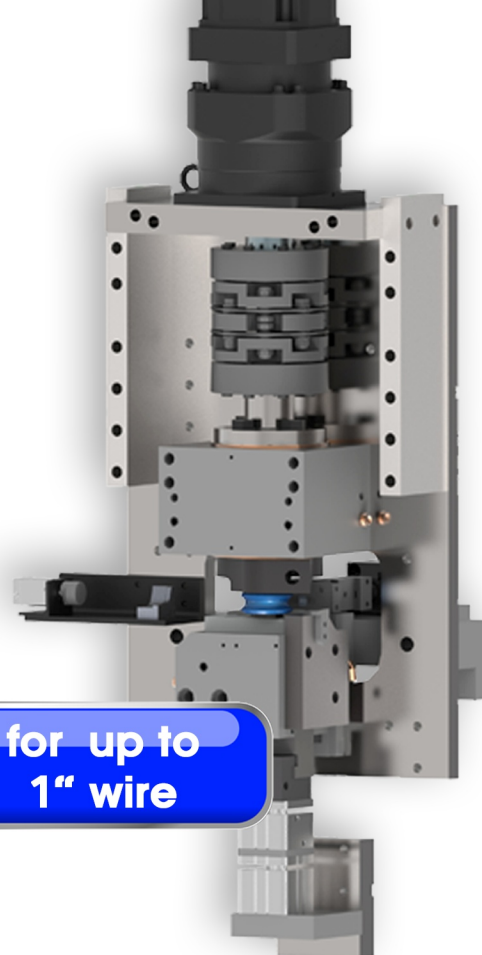


	mm	inch
Item	Bar Magazine	
Order number	BU-700-xx	
Maximum bar length	700	27.5
Maximum wire/tube diameter	25	1
Optional	Several variants available for specific wire diameters and length	
Speed	up to 80 strokes/min (.75 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	No	

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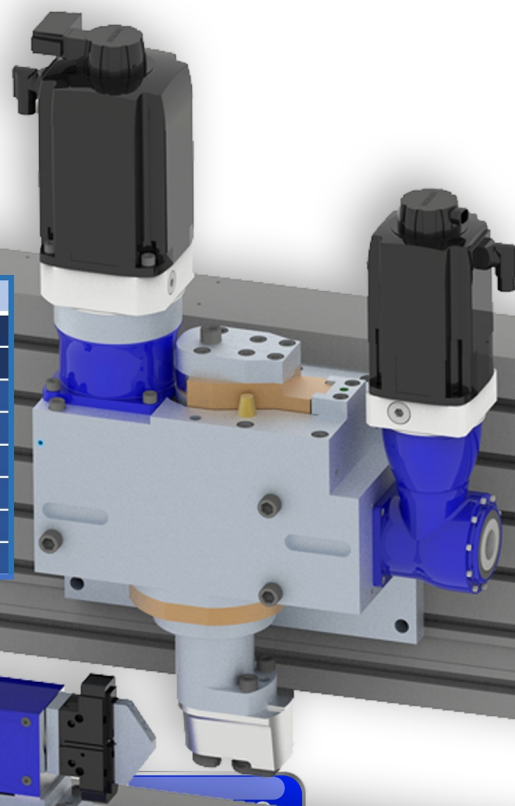


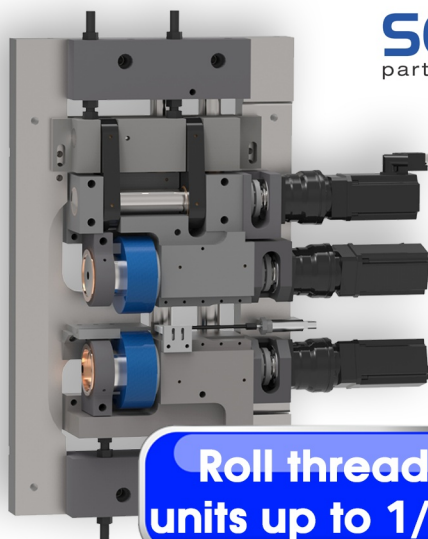
	mm	inch
Item	Heavy Duty Finger Bender	
Order number	FB-1500	
Maximum wire diameter	25	1
Speed	up to 80 strokes/min (.75 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	



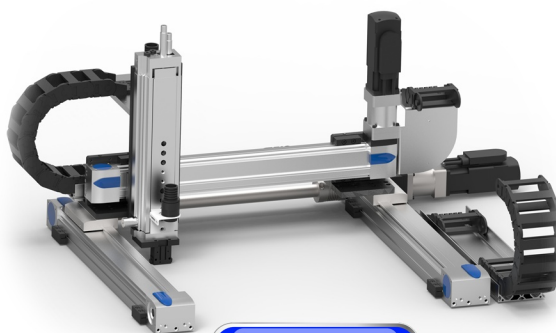
	mm	inch
Item	Finger Bender with Positioning Unit	
Order number	FB-0750-ER-0180	#2250108
Maximum wire diameter	12	.5
Speed	up to 100 strokes/min (.6 sec cycle time)	
Useable on X2000 machines	Yes	
Useable on special machines	Yes	
Useable stand alone	Yes	
NC Servo electric driven	Yes	

**bend and  
reposition**





**Roll thread  
units up to 1/2"**



**Portals**

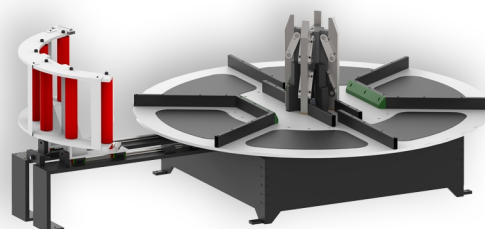
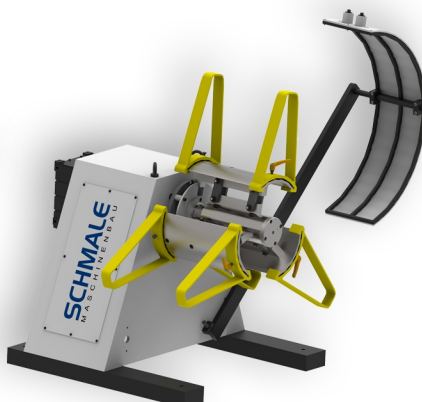
**100+ units** are available to be used  
on our standard X2000 machine series:

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- + presses from 24 ton to 700 ton
- + swage units from 24 ton to 300 ton
- + feeders for wire, tube from 1/16" to 1"
- + feeders for sheet metal up to 3/8" x 3"
- + thread units
- + progressive die units
- + welding units
- + sort & assemble units

- + chamfer units
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- + induction units for hot operations
- + vision systems
- + calibration units
- + mark & stamp units
- + notch units
- + tube bend with mandrel units
- + and much more!**



**various decoilers  
are available**





# How to order

Call me today at +1 **(678) 365-1015**,  
I am looking forward to visiting you.  
I will visit you **personally anywhere  
in the US and Canada**. No obligations,  
just have a look at next level wire forming.

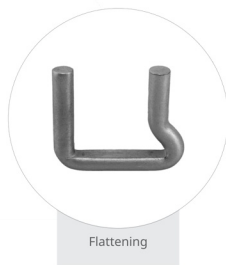
Daniel Schmale  
Owner

daniel.schmale@schmale-gmbh.de  
www.schmale-machinery.com  
1300 Ridenour Blvd NW  
Kennesaw, GA, 30152

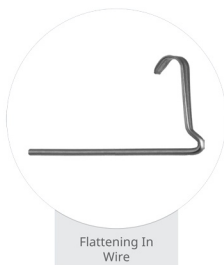


(678) 365-1015  
Atlanta area





Flattening



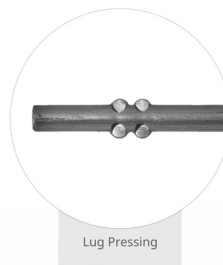
Flattening In Wire



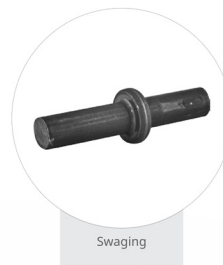
Notching



Cutting



Lug Pressing



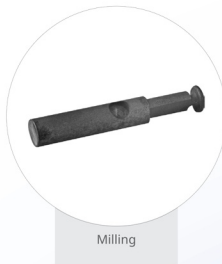
Swaging



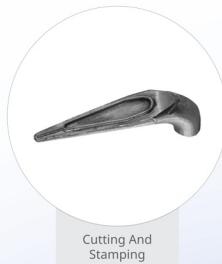
Marking



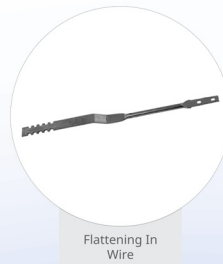
Swaging Of Collar And Head



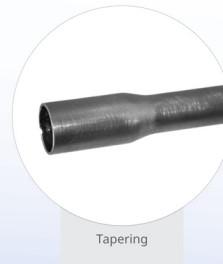
Milling



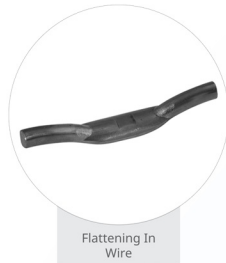
Cutting And Stamping



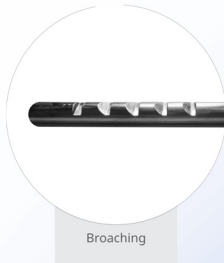
Flattening In Wire



Tapering



Flattening In Wire



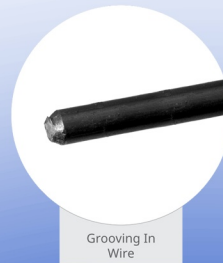
Broaching



Roll Grooving



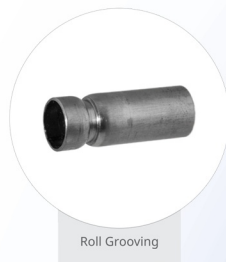
Roll Milling



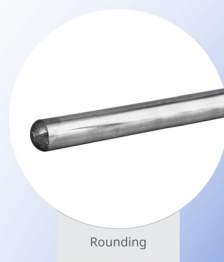
Grooving In Wire



Assembling



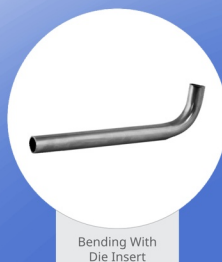
Roll Grooving



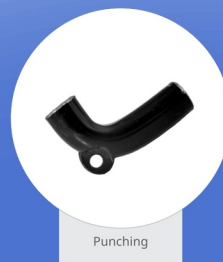
Rounding



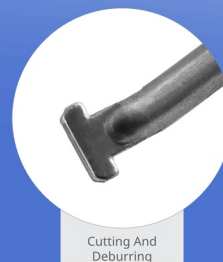
Cutting With Insert



Bending With Die Insert



Punching



Cutting And Deburring



Notching



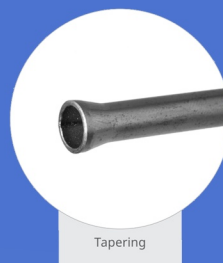
Thread Cutting Or Rolling



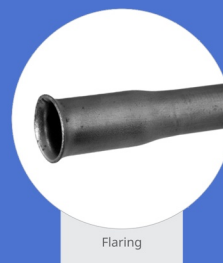
Bending With Fold



Knurling



Tapering



Flaring

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