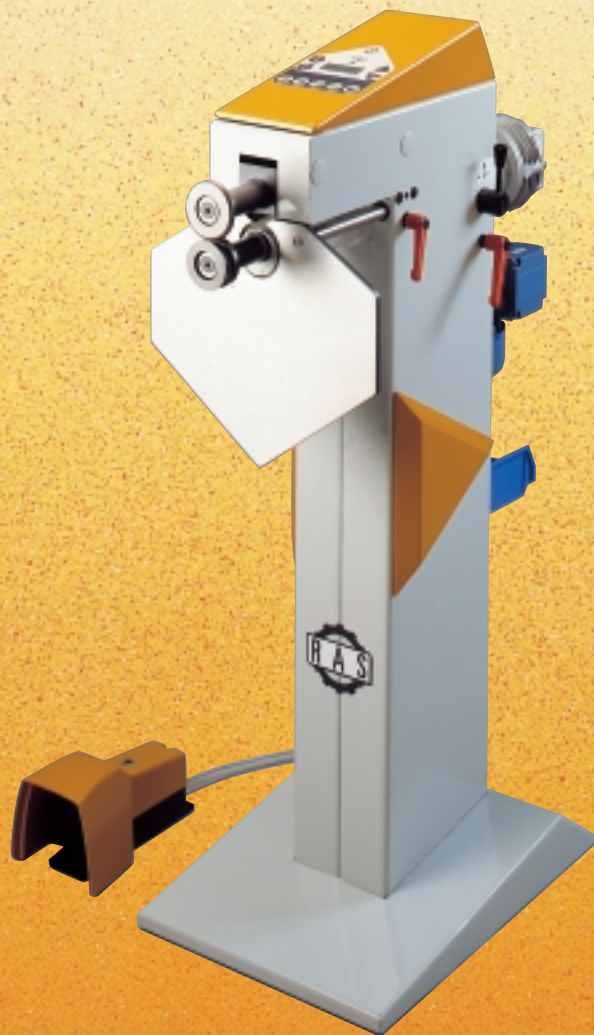




Swaging Machine RAS 12.35

with AutoTeach-Feature



D-71045 SINDELFINGEN
P O S T F A C H 3 6 9
T E L E F O N 0 7 0 3 1 - 8 6 3 - 0

D-71065 SINDELFINGEN
RICHARD-WAGNER-STR. 4-10
T E L E F A X 0 7 0 3 1 - 8 6 3 - 1 8 5



R E I N H A R D T
M A S C H I N E N B A U
G M B H

Futuristic Swaging Technology!

RAS presents the first intelligent swaging system that actually "learns" as you swage and flange, making the system able to virtually "clone" the perfect machining sequence. And that translates into significant increases in productivity and profit.

Here's how the 12.35 brings you the most intelligent choice in swaging machines on the market today.

Teaching The System "Your Way" ... Artificial Intelligence In Action!

It's easy! When you're ready to machine your first workpiece in a job, just press the "Auto-Teach" function. The RAS 12.35's computer processor memorizes when, and how, you set the upper wheel. Then, when you insert the second workpiece in the job sequence, the system automatically "clones" the entire operation. Your operator only has to lead the workpiece, and regulate its speed via the footswitch. After that, it's pure productivity!

You can store several part programs, so that you can run these parts again in the future.

Ramp It Up ... RAS Can Handle It!

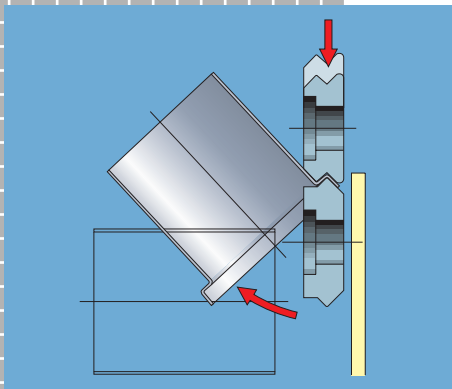
If you want to crank the system up to full bore, the unique RAS "Outlook" function anticipates the upper wheel's ability to keep pace and speed tied directly to quality. If you're going too fast, the RAS 12.35 lowers the rotation speed of the wheels to compensate; if you are within limits, it continues in the most productive operation cycle possible. A very intelligent approach to



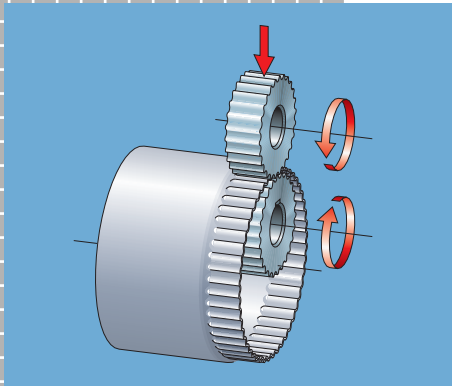
the right combination of productivity and quality output.

Want to machine a straight sheet where the bead has to end before the sheet edge? The RAS 12.35 can remember that position, reduces the speed before reaching the end of the bead automatically, changes the rotation and accelerates the wheels in the opposite direction. That's just smart business!

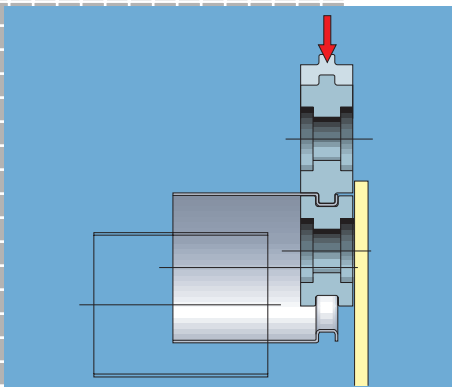
Use the manual rotation change switch at the machine body, or the optional footswitch. Just the way it is easier for you to run the part.



Bevel Double Seaming Wheels



Crimping Wheels



Square Wheels



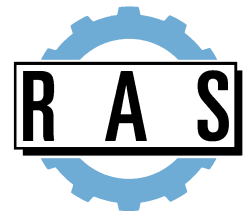
2-Axis-Control



Lower Wheel Adjustment



Divided Stop Plate



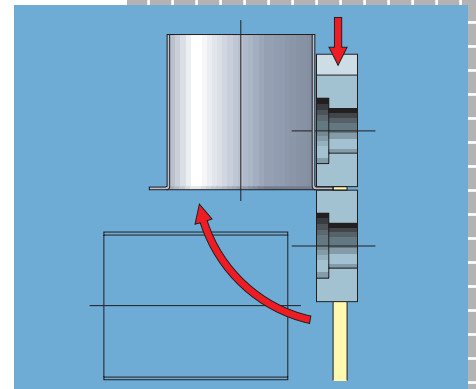
that the sheet has to cover between the wheels. This is critical to assure that every setting of the upper wheel will be performed at the same time, so that top quality is maintained on all runs.

The oversized stop plate is made of a high-tensile material. It's ground front side meets even the most stringent guidelines. And, the standard stop is divided, so it can be used for nearly all wheels.

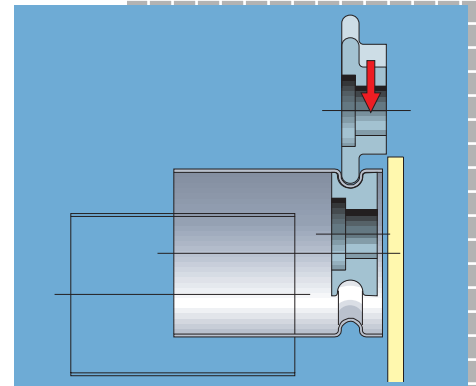
For special applications, RAS offers custom stops for insulating tubes and beveled flanging wheels. In addition, by the use of an optional circular stop, flanges for socket pieces can be created on flat sheets. This saves time and produces totally repeatable and precision forming results.

In swaging, obviously it's critical that the wheels are always positioned precisely over one other. A convenient hand lever allows repositioning of the lower wheel. A central clamping mechanism assures that no displacement occurs during machining.

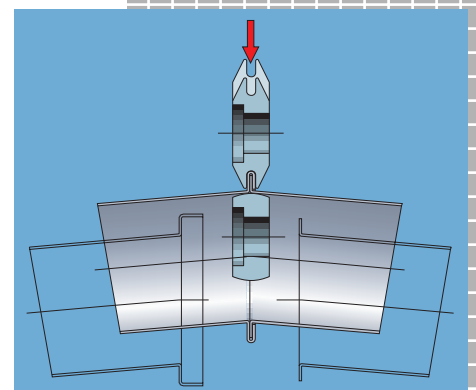
When clamping and releasing, the upper wheel runs in a rapid motion, covering the full stroke in only 1.5 seconds. However, for precise setting during the forming process the upper wheel can be made to slowly penetrate the sheet. Using a push button adjustment at the flat surface keyboard the digital display shows the actual position of the upper wheel at any time. The servo-regulated motor and exclusive RAS adjusting mechanism exerts the perfect pressure on the workpiece, without overloading the machine head.



Elbow Wheels



Swaging Wheels



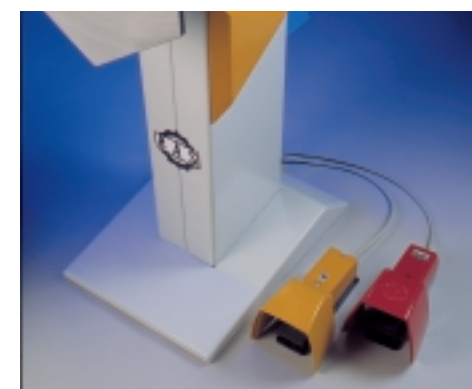
Chamfering Wheels

**Precision And Power ...
A RAS Trademark!**

The RAS 12.35 swaging system brings precision, power, and intelligence to the shop floor, and that translates into higher quality parts and increased profit for your operation.

The heavy duty motor that drives the upper and lower wheels virtually guarantees perfectly synchronous runs. And the wheels themselves are made of case hardened steel and run on needle bearings. This means top quality machining and long lasting accuracy.

In addition, an innovative path measuring system precisely records the track



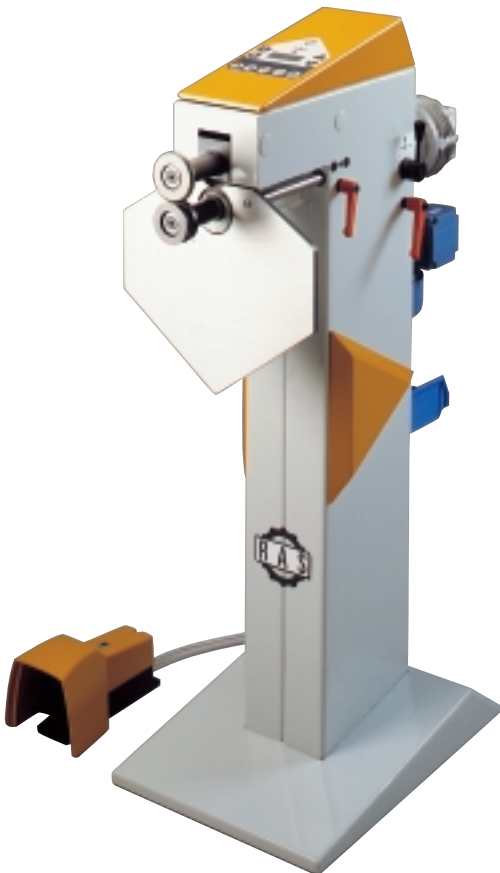
Multi-Function-Footswitch



Insulating Stop Plate



Finished Workpieces



Technical Data	RAS 12.35	
Material thickness max. (400 N/mm ²)	1.75 mm	15 Ga.
Center-to-center distance	63 mm	2.48"
Working depth max.	255 mm	10"
Working height	1000 mm	39.4"
Drive power	0,75 kW	1 hp
Drive Power	220 V, 1 Phase	220 V, 1 Phase
Net weight	60 kg	132 lbs

Standard Equipment

- Self-learning AutoTeach Function
- Two axis micro processor control
- Flat panel control
- Variable speed with two ranges
0-14 m/min (up to 1.75 mm). 0-46 ft/min (up to 15 Ga.)
0-28 m/min (up to 1.0 mm). 0-92 ft/min (up to 18 Ga.)
- Variable adjustment of the upper wheel with push buttons and digital display
- Right-left-run switch
- Divided stop with large hardened stop 330 x 360 mm (13" x 14.2"). Material strength 1000 N/mm² (145,000 PSI)
- 3 Operating modes: Teach, Automatic, Manual
- The clamping function moves the upper wheel to the material clamping position
- Footswitch with smooth ramp acceleration
- Digital display in mm or inches
- Fine adjustment for lower wheel positioning and a central clamping mechanism
- Wheel box
- Wheel key

Options

- Multi-Function Foot Switch for right-left-run or infinite variable adjustment or clamping function and step adjustment
- Special stop for insulating tubes (max. 80 mm / 3.15" deep)
- Round stop
- Stop for bevel flanging wheels BD
- Wheels according to wheel list

Modifications reserved. Pictures may show options.

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