



RAS Reinhardt Maschinenbau GmbH
Richard-Wagner-Str. 4-10
71065 Sindelfingen · Germany
Tel. +49-7031-863-0 · Fax +49-7031-863-185
www.RAS-online.de · Info@RAS-online.de

SMARTcut Swing Beam Shear ... Shearing Redefined



rowest of positions. This feature allows the operator to make best use of valuable material. The wide squaring table has hardened stops and a measuring scale plus two standard table extensions to support the material and prevent even large blanks from hanging down. The operator still can reach the front edge of the shear table without leaning over or bending his back.

Many shears just cut metal. This is self-evident. When it comes to an efficient and profitable cutting process, they do not consider market needs. RAS Reinhardt Maschinenbau GmbH has analyzed the shearing process. The result is the SMARTcut swing beam shear: the perfect solution when quality parts and easy material handling are required.

With its 2mm (14 gauge) mild steel and 3mm (1/8") aluminum capacity, the SMARTcut brings together all the characteristics needed from a high quality shear. With 3100mm (122") cutting length, this swing beam shear offers many standard features. The RAS engineering staff has put a tremendous amount of effort into creating a shear that was easily able to handle the material to be sheared. Thin blanks require a special front table support design.

A unique downhold system with a polyurethane strip prevents sensitive materials such as soft aluminum or stainless steel parts from being scratched. This system will also hold the blanks safely in position during the entire shearing cycle.



Large front and side beveled shear table panels allow the material to be handled quickly, easily and without damaging the material edges. With the large finger pockets the operator can grasp and feed the blanks to the nar-



RAS offers two different machine models. The first comes with a fast and dynamic CNC backstop. After the part dimensions and quantity have been entered at the display, the backstop moves in position with quick 220mm per second (8.66" per second). When the selected quantity has been cut, the machine automatically stops.

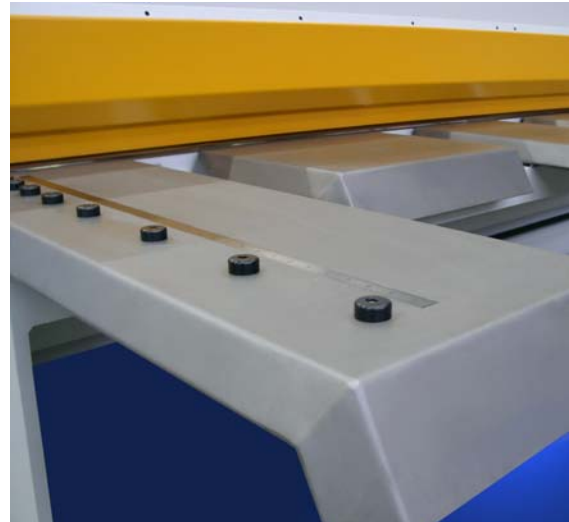


The second model comes with an easy to operate manual backgauge. The backstop can be moved and clamped with a front hand lever. Both models offer a backstop travel range from 5 to 750mm (0.197" to 29.53").



The standard mechanical sheet support guides the blank to the backstop. The material will not drop and therefore the part dimensions will be extremely accurate. Another standard feature is the integrated part sorting system. Strips of different widths can be sorted to the front or the rear. No need to separate different part sizes later on. The sorting system also guides good parts into the standard front part collector, while trim cuts may fall on a pallet at the rear. In-process parts sorting means no additional work.

If material thickness changes, the blade gap can be adjusted in seconds. A blade change is extremely simple, as the new or sharpened blades just need to be screwed onto the blade seats. There is no need to crown the blade, as the crown has already been machined into the blade seat.



The innovative RAS SMARTcut uses the modern swing beam concept rather than the old-fashioned guillotine style. The upper blade penetrates the blank right above the lower blade. This results in extremely straight and clean cuts and a very long lifetime for the blades.

As the blade angle is only 0.9 degrees for all material thicknesses, the results are very low or non-twisted parts even when narrow strips are cut. On a swing beam shear the upper blade moves away with the part, preventing the blank from being caught between the blade and the backstop. Bottom line: the RAS SMARTcut is Shearing At Its Best.