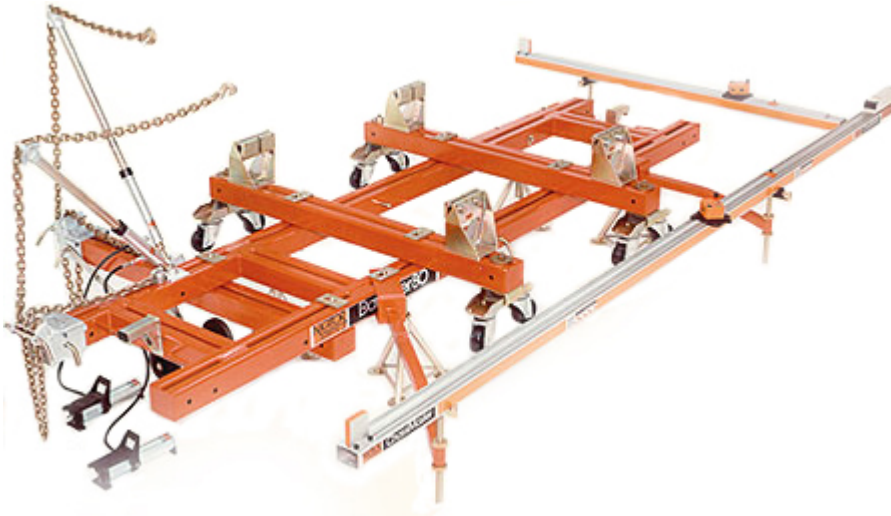


Unibody Repair

Laser Accuracy Unibody Repair



Dataliner – Laser Alignment Accuracy

Nicator's Dataliner 80 Repair Bench with Simultaneous Multiple Pulling Capability and Laser Measuring System

Many of the "more minor" unibody repairs can be carried out using our Dataliner 80 Bench. With over 35 years experience in the manufacturing of automotive frame repair equipment, Dataliner® has earned their reputation as "One of the Best." Dataliner Frame Machines use Vector Pulling and a Laser Measuring System with over 4,500 Datacharts of vehicle measurements with verification printout capability. Its ease of setup makes it a natural choice for cars having more localized kinds of damage.

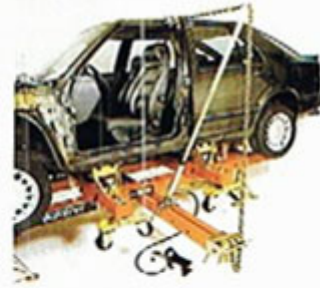
Some applications are illustrated below:



Calibration can be carried out after the measuring equipment has been connected to the bench and the scales have been suspended under the car. Calibration is carried out against two undamaged measuring points under the car, by adjusting vertically the measuring beams and angling the laser beam. After calibration, the laser beam should pass through the target windows of the measuring scales. ▲



Rough alignment is often carried out before the measuring system is fitted. Alignment of transverse buckling damage is arranged here by mounting one pressure ram between the chassis clamps. The transport beams are allowed to slide on the bench, thus stretching the car longitudinally at the same time as the buckled side section is drawn out. ▲

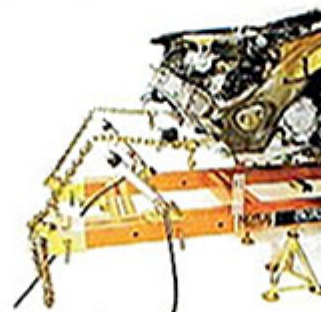


Using an extension tube with a snap-on coupling, the ram can easily be extended to draw out the edge of the roof. Note that full force can be applied even at a high level. ▲

Pulling inside the car in the longitudinal direction can easily be arranged by securing a ram to the transport beams and then sloping the ram into the car. ▼



Two rams have been secured to the front of the car. Measurement is carried out simultaneously, which provides perfect control of the work. Since a laser beam is used, no mechanical measuring tips or jigs can be damaged, as in a mechanical measuring system. ▼



Fine adjustment is carried out at the same time as the last dimensional check. This completes the alignment work, and the time it has taken is appreciably shorter than that needed with any other system. The Dataliner 800 is invaluable to the profitability of a body repair workshop. ▼

