

Ball Transfer Units Spring Housing

consist of a big ball, which is supported by several small balls. The small supporting balls run in a hemispheric shell made of hardened steel embedded in a housing. This unit is mounted on coil- or plate springs in a separate sheet steel housing. Ball Units Spring Housing serve the purpose of reducing shock loads, and also the distribute of loads with uneven bottom surfaces onto several Ball Transfer Units.

Ball Transfer Units with spring elements are being imbedded into the bench, so that the tool can be shoved in with rolling friction instead of with sliding friction. After having been put into position and while the tool is being clamped, the Ball Transfer Units spring back into the bench, which guarantees a tight position of the tool.

Ball Transfer Units with Spring Housing requires little maintenance. From size 22 they are protected against contamination by a felt seal. The conveying speed is 2 m / sec.

Our manufacturing program includes Ball Transfer Units with big balls having diameters ranging from $\varnothing 15$ bis $\varnothing 30$ mm of steel, stainless steel. Ball Transfer Units with spring elements are easy to assemble and disassemble from the operator side.

Number and Arrangement of Ball Transfer Units

The number and distribution of Ball Transfer Units depends on the weight, size, and condition of the base area of the goods to be conveyed. In order to ensure that the base area of the load rests on Ball Transfer Units at all times, and in order to prevent it from slipping into the gaps between them, the distance between the individual ball transfer units is calculated by taking the shortest edge length and dividing it by 2.5. If the base are of the load is adaptable, you may assume that further Ball Transfer Units will be used. In these cases, the load can be divided by the number of carrying ball transfer units. This gives you the load per Ball Transfer Unit.

