

## What is the LTSS Series Single shaft shredder?

### I. The application of LTSS Series Single shaft shredder

The LTSS Series Single shaft shredder is an essential machine for plastic industry. Its design can meet waste material recycle of all kinds of industries. The single-shaft is mainly used to recycle plastic, paper, wood, fiber, rubber, domestic waste etc. It is a better choice to recycle all kinds of waste material for recycling industry.

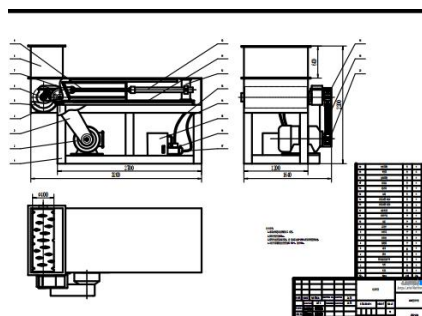
### II. The working principle of LTSS Series Single shaft shredder

Through the feeding system, the material is conveyed into box inside of shredder. Because there are blades on the box, and the material will be pushed near the knives, so the material will be shredded, extruded, cut by knives. Then the material will be shredded into small pieces. Finally, those small pieces will be filtered from screen mesh. But the unqualified products will return the box to do another shredding action.



### III. The composition of LTSS Series Single shaft shredder

The single-shaft shredder consist of blade, main shaft, fixed knife, carrying box, box support, feeding system, hydraulic pushing system, power system, electrical control system etc.



## **IV. Features of LTSS Series Single shaft shredder**

1. The single-shaft shredder applies to material that is easy to twin, such as huge size material using for testing machine, all kinds of pipes having thick wall thickness, big diameter pipes, and profile. What is more, small amount of metal can be allowed to exist in material.
2. Compared with other type shredder, knives of single-shaft shredder have low cost in maintenance.
3. Under the same power, compared with twin-shaft shredder, three-shaft shredder, four-shaft shredder, the price of single-shaft is lower.
4. Compared with other shredders, knives of single-shaft shredder are easy to change.
5. The diameter of screen mesh can be custom-made. So you can adjust the size of material that you want to shred.
6. The difference is that the knife rest is integrated, not be welded. What's more, the four angles of knives are right angle and the shape of knives are square. In addition, the single-shaft just has two fixed knives, but it can have a lot of rotary knives.
7. Blades of shredder will reverse when they meet big size material and they will never be blocked. And it will never influences motor.

## **V. Blades of LTSS Series Single shaft shredder**

Blade is one of the most important parts for single-shaft shredder. The quality of blade will influence the process cycle directly. Blade of single-shaft shredder installs on the shaft of shredder and it is also called rotary knives. The shape of blade is square and it has radian. It is used with fixed knives.

Generally, the material of blade is 9crsi、Cr12MoV、SKD-11. 9CrSi is alloy tool steel, this material has high hardness and good wear resistance. But it is very crisp. It is mainly used for soft waste material such as rubber, fiber, and paper etc. Cr12MoV and SKD-11 are cold work die steels. These two materials have similar properties, strong wear resistance and strong impact resistance, and are suitable for shredding wood, waste furniture, high hardness plastics, etc.

## **VI. Equipment maintenance**

We should maintain and protect machine carefully and termly to make sure that machine operates normally. What is more, periodic maintenance will influence the service life of single-shaft shredder. So we need to make safe operation regulations and maintenance system to warn workers to repair and change some spare parts termly. And such action will prevent equipment and personal accidents caused by incorrect operation.

The safe operation rules and reasonable maintenance system of the shredder should be made carefully by users according to the actual situation on site. The following precautions should be considered:

1. Workers should inspect the equipment every day. Please handle hidden danger in time. Remember that do not use machine when it has hidden danger.
2. Check whether the pipeline is leaking. And please handle that when you find something wrong in time.
3. Please maintain machine once a month and clean up the waste oil from the main lubrication points.

4. Please check the current of the main motor regularly.
5. Please check whether the hydraulic system is normal regularly.
6. Please check the wear of blades regularly.
7. The bearing is close the rotor cannot be cleaned daily, so please do a thorough clean when you do internal maintenance.
8. The sealing ring will appear loose due to long-term oxidation, so it is necessary to maintain carefully in daily life.

If this page still not solve your questions, we can talk about your questions and discuss it, just tell me!

Just call me if you want: 008617691068515, my name is Lexi.