Sections used in Miscellaneous Areas

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In this thirtieth series of articles on Rollforming we will discuss about some of the Sections used in miscellaneous areas. In the preceding series of articles we had devoted one full article for each area/subject. However, there are several hundreds of areas where rollformed sections are used and each area won't merit coverage in one full article at this stage of development in India. It may take several more years for India till rollformed sections are widely used as in the advanced countries. Hence it is felt that we would discuss about the usage of rollformed sections in the various miscellaneous areas in this article and also in our next few forthcoming articles

for the present. After the miscellaneous sections series we are planning to cover the other aspects of Rollforming like basics of rollforming, manufacturing of rollformed sections, machineries used for rollforming, rollforming vs tubemaking, rollforming vs pressbraking etc.

Coming back to miscellaneous areas where rollformed sections are used--- Fig. 1 to Fig. 16 are some of the sections used in these areas. Fig.1 to Fig. 4 are the sections used in Poultry Equipments. Fig. 1 to Fig. 3 are various types of feeding troughs. They are formed both in aluminium as well as GI versions. Fig. 4 is the section used in manure removal system and Fig. 5 is the section used for foot-rest system.

Fig. 6 to Fig. 12 are some of the rollformed sections used in Textile machineries. Fig. 6 , Fig. 7 & Fig. 9 are the sections used for yarn heating and cooling systems. The material used for them is stainless steel. There are different variations of sections used by different textile machinery manufacturers. One more variation of heating tube (SS)for yarns is shown in Fig.10. It consists of a and b sections TIG welded at the top. After TIG welding the sections are Tuftrided (one form of nitriding) to get much higher wear resistance and finally the grooves are buffed to get a fine polished surface. The variation of yarn cooling tube is shown in Fig.11. This is also made of two sections a and b. After inserting one section into another they are passed through pressure rollers to get a leakproof joint.

Fig. 15 to 17 are some of the sections used in hoisting equipments. They are used for mono-rails. Here the coils used could be galvanized. There are several variations available in different thicknesses. Fig. 18 and Fig. 19 are some of the sections used in packaging machines. Out of the above sections Sedvik Industries, Bangalore has developed several sections.

There is ample scope in India to change into rollforming from the traditional press braking process during the coming years. In some areas rollforming can be combined with press braking in order to get an economical solution, e.g. in the case where a lot of ribbing is there in the middle and edges have changing shapes, the repetitive ribbed portion could be rollformed and the edge portions could be press braked in each case.

From the above one could visualize the enormous possibilities of making use of rollforming technology for different applications and requirements in India in the coming years.

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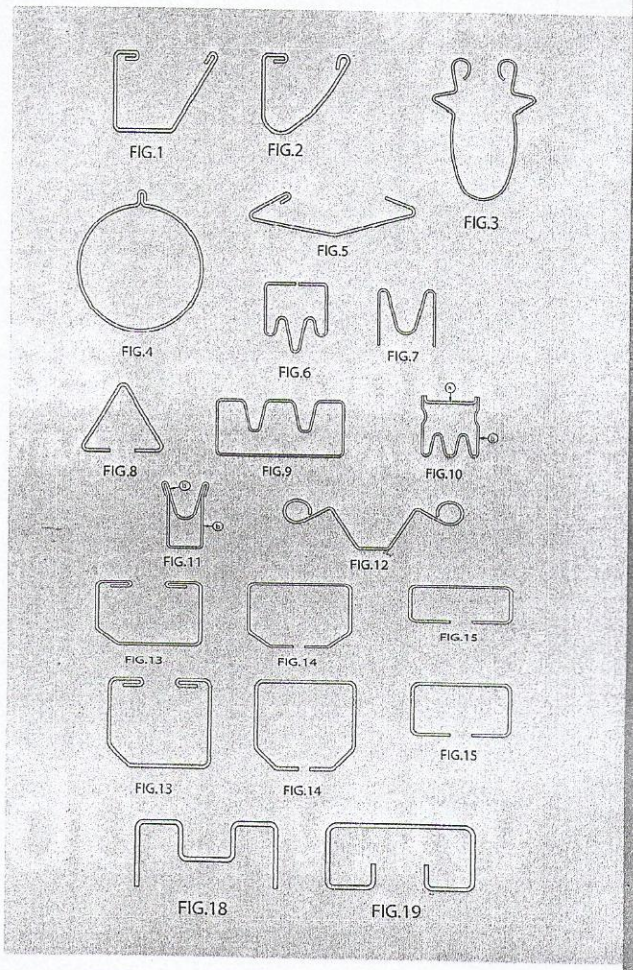

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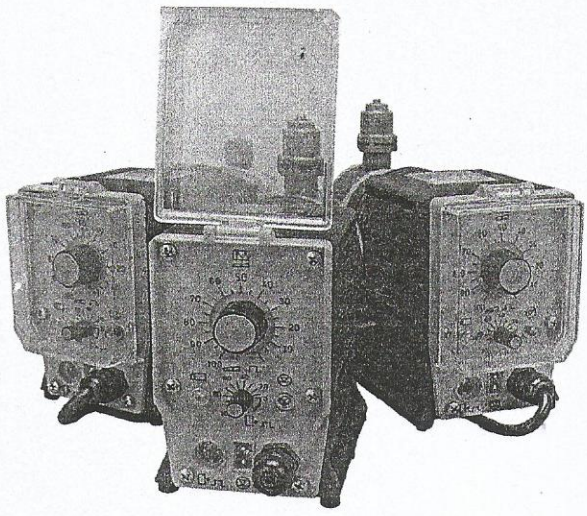

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