

EDWIN LOWE LTD, BIRMINGHAM, U K.

**NEW TECHNOLOGY - PREFABRICATED IDLER/ROLLER
BEARING HOUSING ASSEMBLIES (OR CARTRIDGES)**

TECHNICAL AND COMMERCIAL ADVANTAGES SUMMARISED

This new technology has had a very significant effect on the way in which idlers/rollers are now manufactured. Using prefabricated bearing housing assemblies (cartridges) for welded steel rollers offers several advantages to the roller manufacturer – both now and in the future - some of which may be summarised as follows:

MANUFACTURING PROCESS

- **Roller reduced to three components/four pieces only = greatly simplifies roller manufacturing process.**
- **Cartridge based rollers = less manpower / fewer operators.**
- **Maintenance free - zero maintenance required during the working life of the roller.**
- **All common standard international specifications can be manufactured.**
- **Reduced production cycle times = increased production throughput.**
- **Quicker throughput = reduced customer lead time.**
- **Greater production flexibility – small orders = no problem.**
- **Reduced direct and indirect costs = higher profit margins.**
- **Economics of batch production = economics of bulk production**
- **New design of welding machine tooling = automatic alignment of all central axes of all roller components during the assembly/welding cycle.**
- **Assembly process self regulating = easier to maintain high quality standards.**
- **Different cartridge designs = different roller specifications.**
- **New – different international roller specifications manufactured upon one single production line.**
- **New - change actual roller specification during the manufacturing process - without stopping production.**
- **New – now much easier to fully automate the roller manufacturing process.**

CAPITAL EXPENDITURE AND EQUIPMENT

- **New – initial capital investment and capital equipment to produce cartridge based rollers remain unchanged – even if roller designs change in future**
- **New – therefore automatic protection against capital equipment becoming obsolete.**
- **New – automation of cartridge based roller production = lower capital cost compared with automation of production of traditional roller designs.**

AVC/OMS
14.08.18