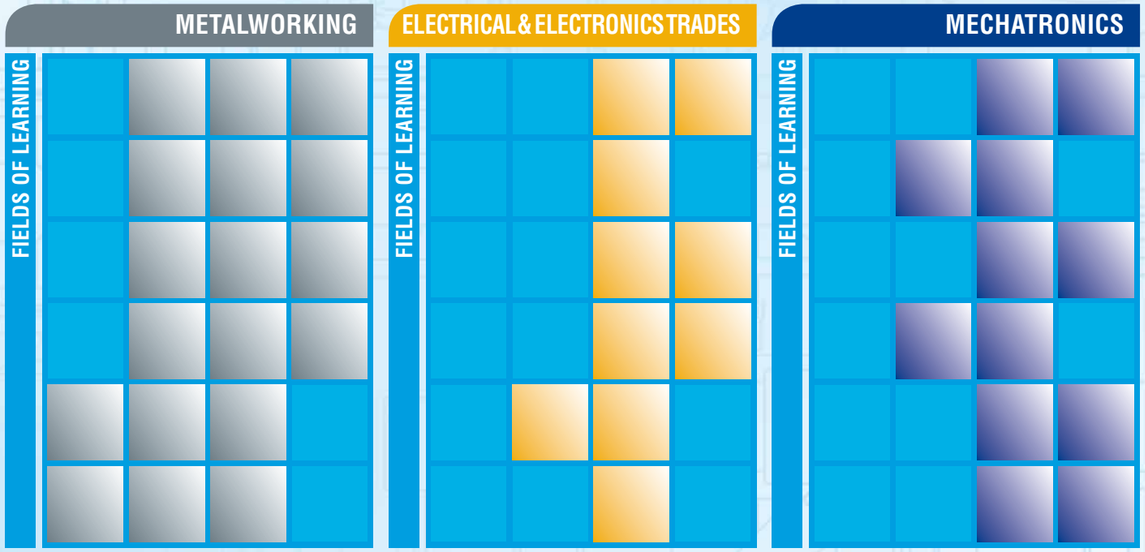
TEACHING AND LEARNING SYSTEMS FOR TRAINING IN THE METALWORKING, ELECTRICAL AND ELECTRONICS TRADES

Depending on teaching/learning requirements: suitable for teaching apprentice tradesmen, industrial training and vocational qualification, and of course for training technicians and engineers.

Which fields of learning and which trades does this catalogue cover?



Although the GUNT training systems presented in this catalogue mainly cover fields of learning for the **metalworking trades**, it also provides good coverage for learning topics in electrical and electronic engineering as well as in mechatronics.

How can a short title be found for such a wide-ranging catalogue?

We chose MECHATRONICS!

"The integration of electronics, electrical engineering, computer technology and process control engineering into machinery manufacture is becoming more and more important in terms of the planning, manufacture and maintenance of a wide range of technical products and processes. Consequently, engineers, technicians and skilled tradesmen need to adopt an integrated, interdisciplinary approach to project planning. The term 'mechatronics' embodies this integrated approach. One consequence of this approach is that engineers, technicians and skilled tradesmen must possess skills and knowledge which are not restricted to a single specialist field. They must be capable of working and communicating across a number of different technical fields." (William Bolton)

…and that is just how we see the teaching and learning systems in this catalogue in terms of their didactic differentiation and combination.

What learning content can you cover by using the GUNT training systems in this catalogue?

LEARNING CONTENT – FOUNDATION	THE GUNT PROGRAMME GROUPS
Comprehensive coverage of the fundamentals: an introduction to technical drawing and technical communication assisted by GUNT's models and assembly kits. Cutaway models will help you to understand machine elements, components and mechanisms. A thorough insight into testing methods, processes, dimensional metrology, and familiarity with manufacturing methods are essential prerequisites for addressing complex and specialised topics. Our teaching and learning systems will help you to build these foundations in a way that is both effective and practice-oriented.	Engineering Drawing Cutaway Models Dimensional Metrology Fasteners and Machine Parts Manufacturing Engineering

LEARNING CONTENT – SPECIFIC	THE GUNT PROGRAMME GROUPS
Having acquired a thorough grounding in the fundamentals, you can then advance into specific fields of mechatronics. The training systems in the Assembly Projects and Maintenance groups offer totally practical applications that will allow you to design your tuition in an entirely hands-on and interdisciplinary way. Our Machinery Diagnostics group offers a range of the latest new subject areas. The Automation group focuses on process automation and – as an entirely new feature – Fuzzy Control training systems.	Assembly Projects Maintenance Machinery Diagnosis Automation

The teaching and training systems contained in GUNT Catalogue Number 2 cover an extensive range of key fields providing essential learning content for training in the metalworking and electrical and electronics trades and for mechatronics engineers. Programme group content is staged, and all groups are interlinked. For example, students should be familiar with the fundamentals of Engineering Drawing and Dimensional Metrology before progressing to the Assembly Projects or Maintenance groups.