

# Dürselen

## General range features

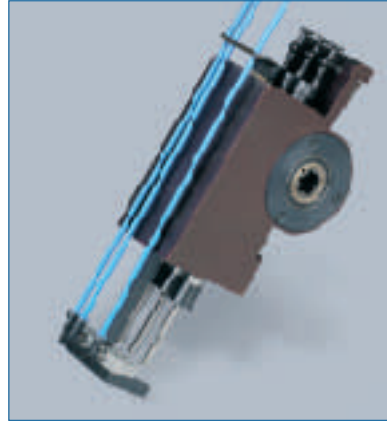


Precision performance drill heads and systems  
Extended hole pattern range and system options  
Accessories

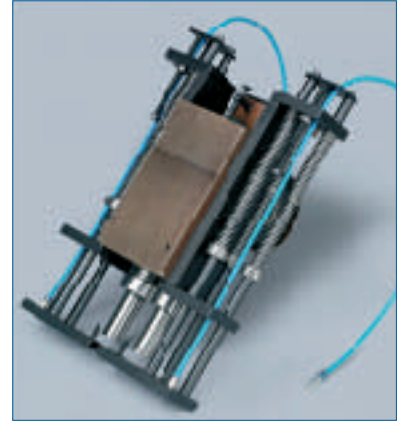
 **Dürselen**



*Precision drill head*



*Triple spindle drill head  
19.05 mm / 3/4" spacing*



*Double spindle drill head for  
20 mm / 3/4" diameter*

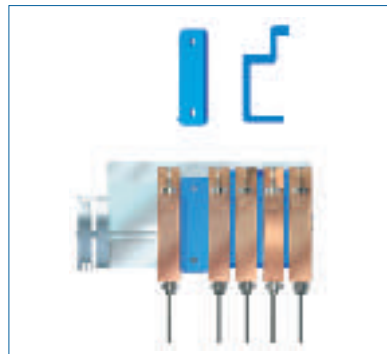
### Dürselen precision drill heads

On all Dürselen drilling systems the drill heads are shaft driven - no belts, with the following advantages:

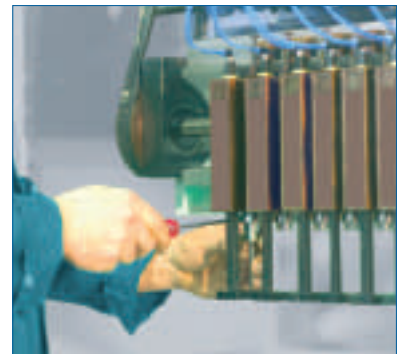
- consistent power transmission during the entire drilling operation
- easy and quick change of drill heads
- retro-fitting of additional or multi-spindle heads at any time

Dürselen drill head are available for all applications:

- standard drill heads 31.7 mm / 1 1/4" for greatest flexibility and the minimum spacing between holes
- drill bit diameter range 3 - 14 mm / 1/8" - 5/8" diameter
- multi spindle drill heads for single stroke, high productivity on narrow hole spacing for example, triple hole pattern for organisers, seven-hole-pattern for aeronautical map specific hole patterns down to minimum 19.05 mm / 3/4" between spindles
- drill heads for large hole diameters such as 20 mm / 3/4" and 30 mm / 1 1/4" are manufactured to customer's specification



*Drill head set-up*



*Drill bit change*

### "Easy-set" solutions for pattern changes

1. Dürselen spacers position drill heads precisely and consistently for quick and easy hole pattern changes

Spacers between drill heads allow drill heads to be positioned to touch the spacer and are locked in precise position. Precision grinding of Dürselen drill heads and spacers ensures identical spacing even using as many as 10 drill heads. Standard hole pattern spacers are included with each Dürselen drilling machine. Other spacers are manufactured for specific hole intervals.

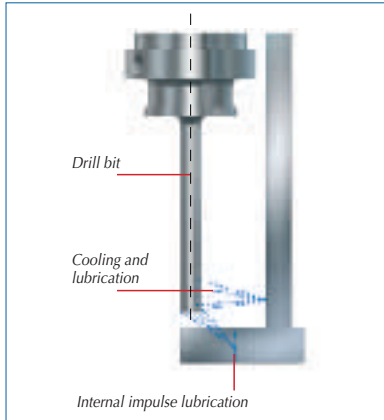
2. Quick drill bit change and length adjustment

Drill bit change requires release of one screw only. For adjustment to a new drill bit length the micrometer screw on each spindle is lowered until the drill bit touches the drill belt at bottom dead centre.

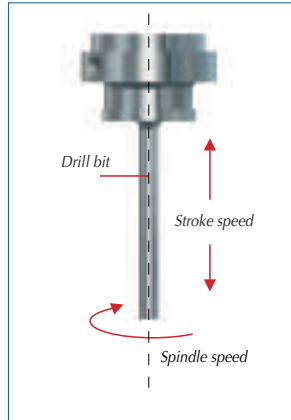
 **Dürselen**

# Dürselen

## General range features



*Drill bit cooling and lubrication*



*Stroke and spindle speed*



*Drill bit care*

### Extended drill bit service life without drill bit breakage

#### 1. Drill bit cooling and lubrication

Cooling and lubrication increases the service life of a drill bit dramatically. Difficult materials such as coated and glossy papers or plastic films cannot be processed efficiently without cooling. To prevent waste sticking and consequent drill bit breakage Dürselen also offers an optional impulse lubrication for internal drill bit lubrication, to assist waste to pass readily through the drill bit.

#### 2. Continuously variable stroke speed and spindle speed

Stroke speed and spindle speed adjustment is essential to accommodate the full range of drill bit diameters and difficult materials such as plastic films. Optimum settings guarantees clean holes and long drill bit service life. All automatic Dürselen drilling systems are equipped with this recommended option.

### Drill bits and care

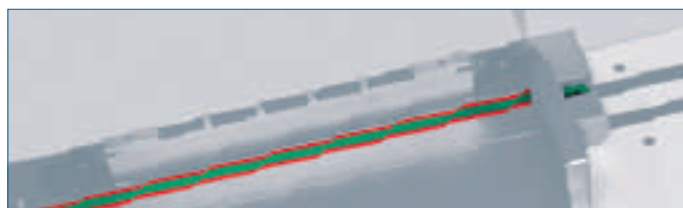
Drill bits of standard quality make working with Dürselen drilling systems profitable on common materials. For difficult materials specially coated drill bits are available.

Only sharp drill bits guarantee clean results without breakages. The Dürselen drill bit sharpener makes precision sharpening easy, quick and safe and re-sharpening as many as 60 times saves tool costs.

### The Dürselen drill belt - the economic drilling bed

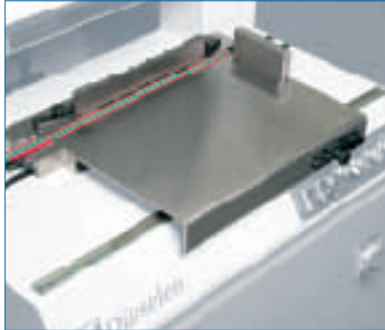
The drill belt is made of special resilient plastic and is moved on either manually or automatically to ensure constant clean holes down to the lowest sheet. It reduces drill bit wear and eliminates frequent manual repositioning and replacement of disposable drilling beds.

*Drill belt as drilling bed*



# Dürselen

## General range features



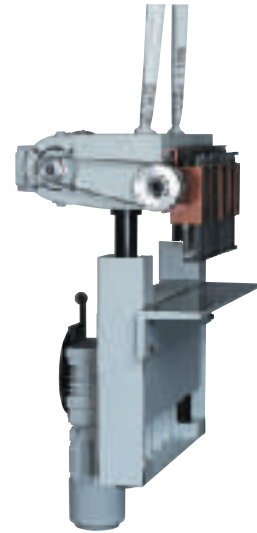
*Sliding table*

### **Dürselen sliding tables - difficult holes patterns with narrow distances**

Sliding tables are available with manual or programmable positioning and this makes patterns for twin wire binding or other complex patterns with narrow repeat distances straightforward. With the pile static on the sliding table an accuracy of 0.1 mm for repeat hole separation is achievable. For frequent hole pattern changes and short runs Dürselen-on-Demand drilling systems reposition programmable drill heads relative to the pile and can produce any hole pattern without set-up delay.

### **Dürselen - professional drilling systems**

Precise holes from the first to the last sheet demand high machine stability and even stroke movement. All Dürselen drilling systems meet these requirements by using solid and heavy cast iron construction and motorised cam for the stroke. Robust construction ensures that drill bits penetrate the pile at the exact vertical and the motorised precision cam reverses the stroke at bottom dead centre precisely. Apart from cleaning, Dürselen drilling systems need no maintenance, all moving parts are guided in self-lubricating bearings.



*The strong cast iron construction of the Dürselen drills ensures long and accurate service.*



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