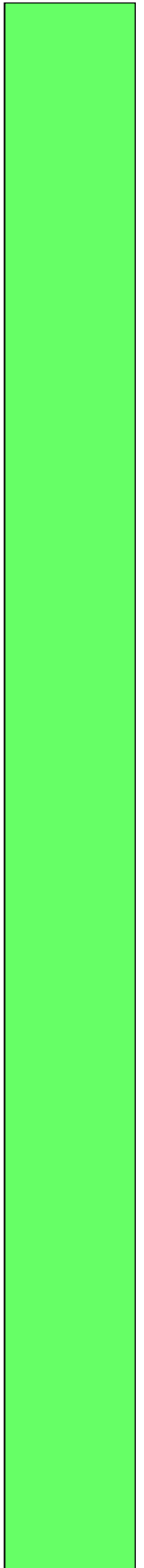


**Partner for Tool Manufacture**



**dehonit<sup>®</sup>**





# Partner for Tool Manufacture



Airbus - large tool 880 x 250



Airbus - tool 360 x 360



SKODA - Tool 525 x 250



5,000 tons press



5-Axis-CNC machine

## dehonit®:

Is a Compressed Laminated Wood manufactured to DIN 7707.

The material is made from high quality selected rotary cut beech veneers that are coated or impregnated with a special synthetic phenolic resin. It is then pressed under high pressure and temperature to form a unique laminate material

## Typical fields of application for dehonit® compressed wood are:

Tool manufacture, construction of jigs and fixtures, machine construction, foundry practice, aircraft construction, propellers, work-piece supports in the automotive industry, thermal insulation and supports in the ship building industry and electrical insulation in the transformer industry

## Advantages for Tool Manufacture:

- economic
- low specific weight 1.35 - 1.40 g/cm<sup>3</sup>
- high compressive strength
- low coefficient of friction  $\mu = 0.15-0.25$
- elastic against compression
- self-lubricating up to the maximum compressive load
- machines like wood

## Applications in Tool Manufacture:

folding tools, deep-drawing dies, production masters, swaging tools.

## Typical working materials:

Steel sheet 0.5 – 2.0 mm; aluminium sheet 0.5 – 3.0 mm and titanium using hydraulic presses for the forming operation.

## Sizes Available:

Sheet thickness: 5 - 80 mm; standard sizes: 2000 x 1000 mm and 2500 x 1000 mm. Other sizes available on request. Cut blocks and billets and machined items to order on 5-Axis CNC machines if required.

## Technical Data



	Quality	B 140	B 240	B 340	B 335-1
	DIN 7707	KP20 226	KP20 226	KP20 226	KP20 227
Direction of laminations					
Specific weight (g/cm <sup>3</sup> )	DIN 53 479	1,4	1,4	1,4	1,35
Flexural strength (N/mm <sup>2</sup> ) II and ?	DIN 53 452	180	174	170	150
Module of elasticity in flexure (N/mm <sup>2</sup> )	DIN 53 452	16.000	15.000	15.000	16.000
Compressive strength (N/mm <sup>2</sup> ) ?	DIN 53 454	280	250	240	250
Impact resistance (kJ/m <sup>2</sup> ) ?	DIN 53 453	41	40	40	26
Impact resistance with slot (kJ/m <sup>2</sup> ) II	DIN 53 453	39	37	35	15
Impact resistance with slot (kJ/m <sup>2</sup> ) ?	DIN 53 453	21	20	18	13
Tensile strength (N/mm <sup>2</sup> )	DIN53 455	156	144	135	89

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