

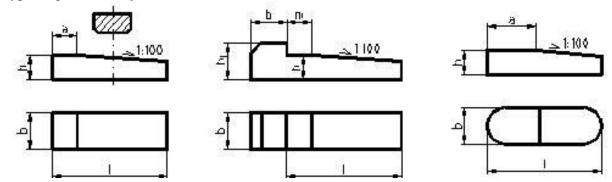
DESIGN of MACHINES and MACHINES PART

Lecturer: prof. Ing. Robert Grega, PhD. Part no: 4.2

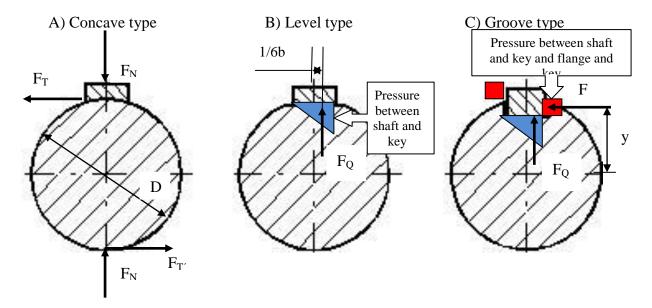
Shaft Components

Design of gib-head key

Type of gib-head key



Type of shaft and flange connection using gib-head key



A) Concave type – only friction contact between shaft- gib-head key-flange

Basic condition

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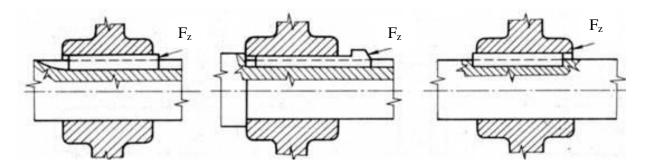
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B) Level type – combinations of friction contact and key-flange	profile contact	between	shaft-gib-h	neac
C) Groove type - combinations of friction contact and gib-head key-flange	d groove profile	e contact	between sh	ıaft-

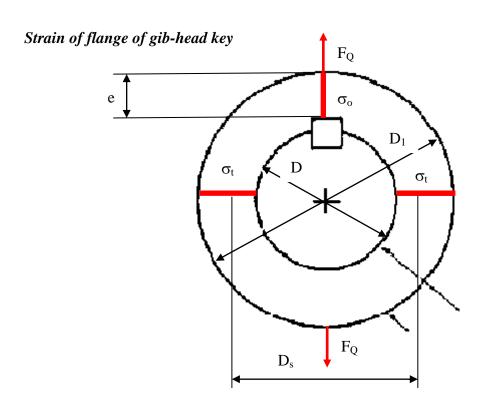


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Force for hammering away of gib - head key



Hammering force

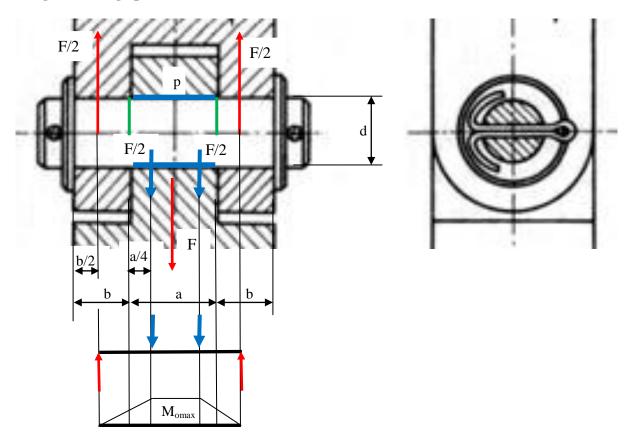




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Stress in flange

Design of linkage pins



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DESIGN of MACHINES and MACHINES PART Part no: **4.2** The bending moment 1. Bending stress of linkage pin 2. Pressure on linkage pin 3. Shear stress of linkage pin