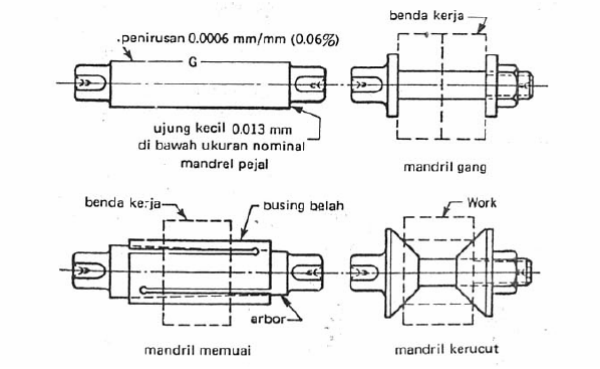
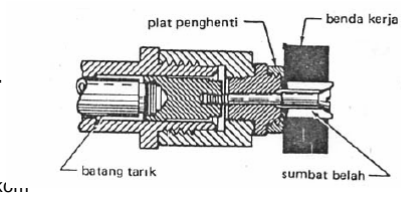
Alat Pemegang (1)

Mandril

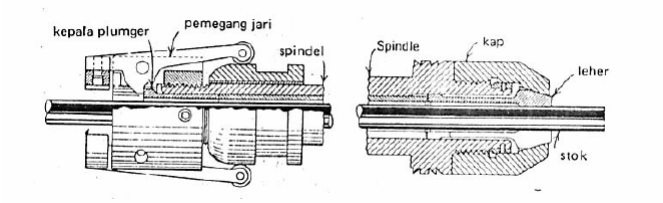


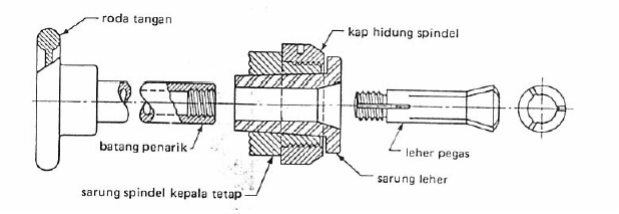
Arbor



Alat Pemegang (2)

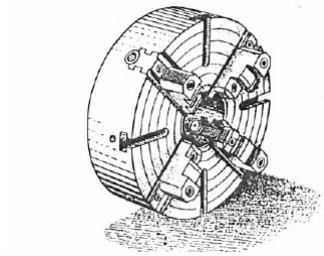
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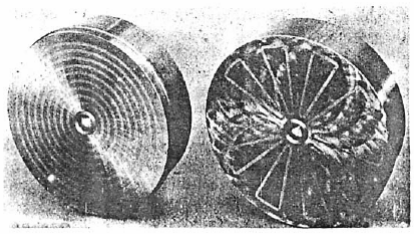




Alat Pemegang (3)

Pencekam (*chuck*)





Mesin Gurdi (*Drilling Machine*)

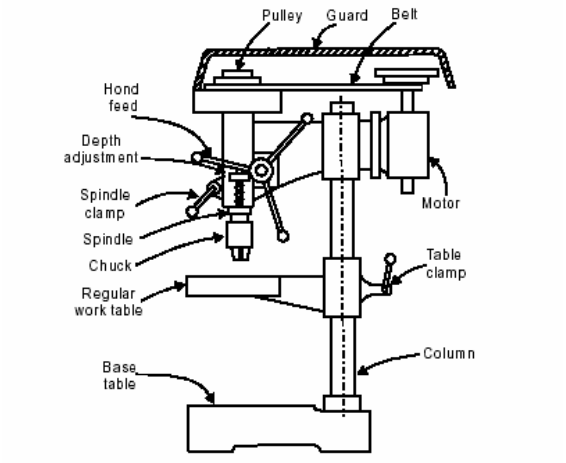
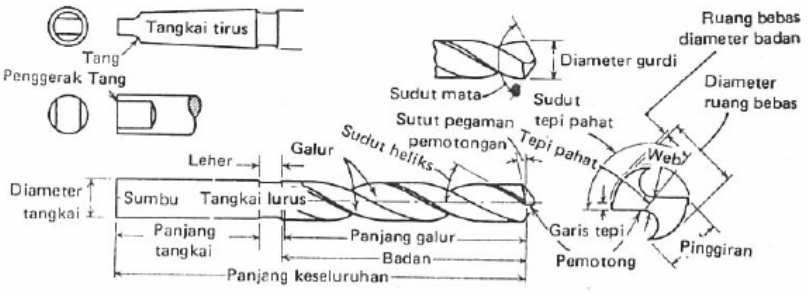
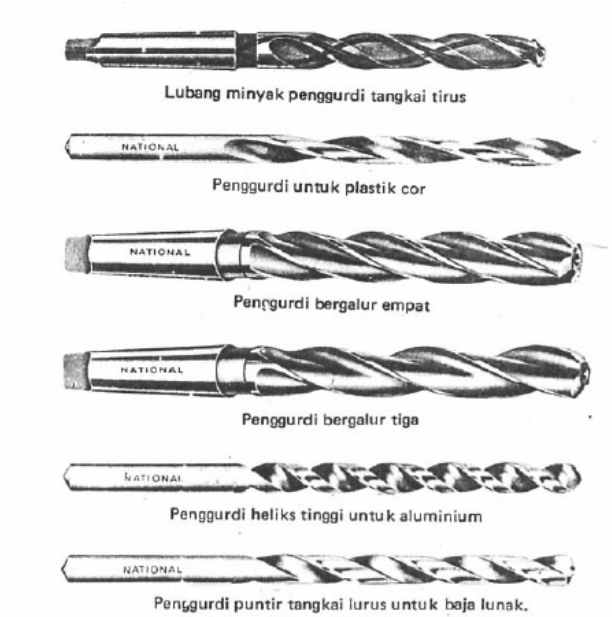


Fig. 22.1 Construction of drilling machine

Pahat Gurdi



Jenis Pahat Gurdi



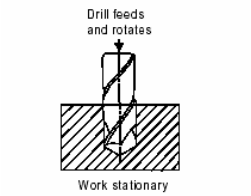


Fig. 22.6 Drilling operation

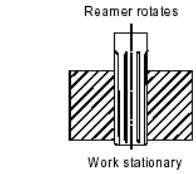


Fig. 22.7 Reaming operation

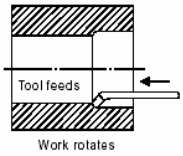


Fig. 22.8 Boring operation

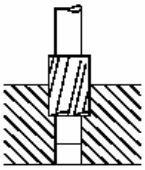


Fig. 22.9 Counter borin operation

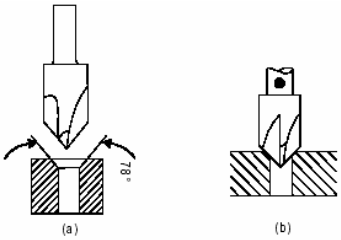


Fig. 22.10 Counter sinking operation

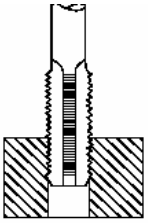


Fig. 22.11 Tapping operation

Jurusan Teknik Industri Unikom