Milling (Freis)

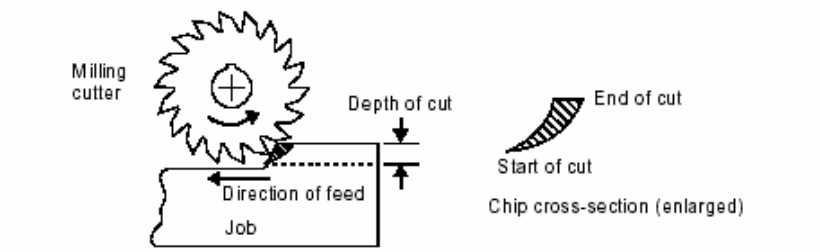


Fig. 24.2 Principal of up-milling

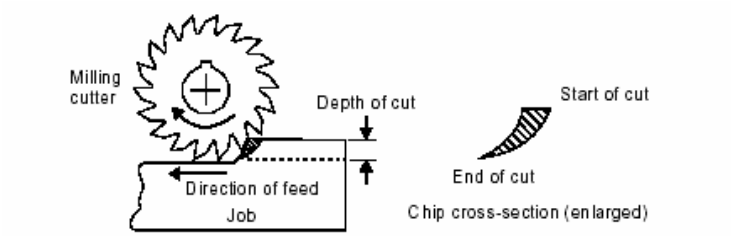
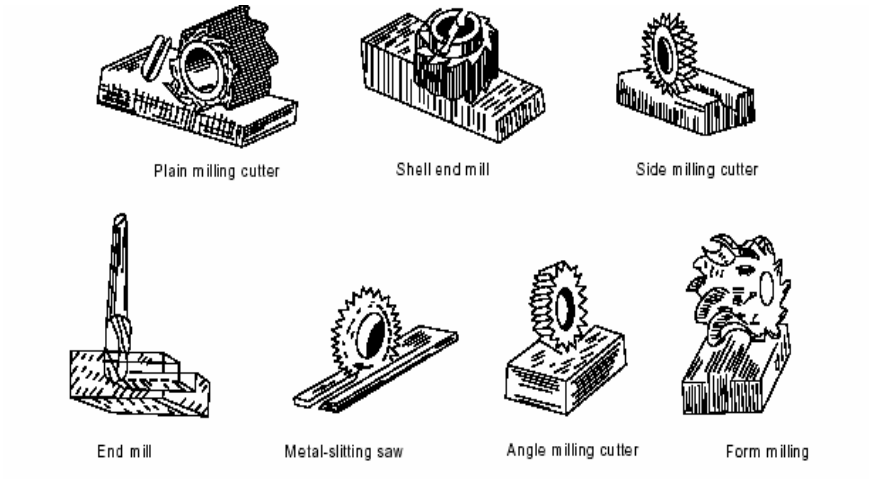
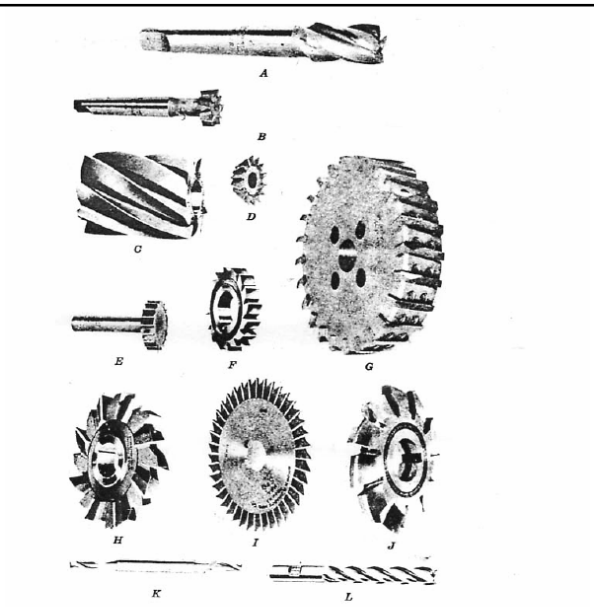


Fig. 24.3 Principal of down-milling

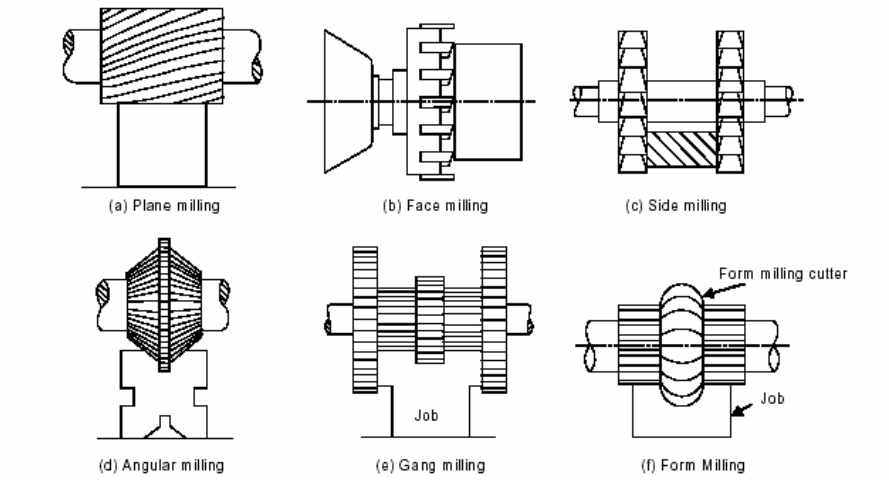
Jenis Pahat Milling



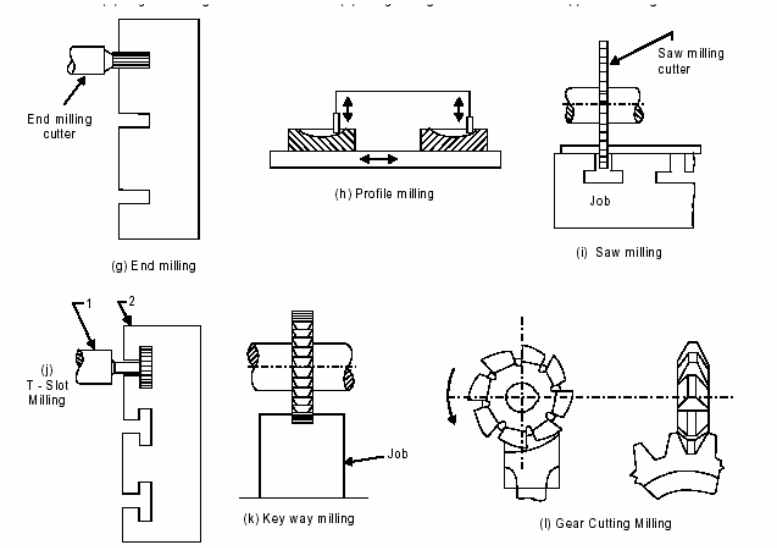


Jenis dari pemotong fris. A, Fris ujung spiral. B, Pemotong fris celah—T. C, Pemotong biasa dengan gigi heliks. D, Pemotong fris sudut. E, Pemotong dudukan pasak Woodruff. F, Pemotong fris biasa G, Pemotong bergigi sisipan. H, Pemotong fris samping. I, Pemotong gergaji pembelah logam. I, Pemotong bentuk timbul untuk roda gigi. K, Fris spiral ujung ganda. L, Fris ujung spiral sangat panjang.

Jenis Operasi (1)



Jenis Operasi (2)



Jurus

Jenis Mesin Milling (1)

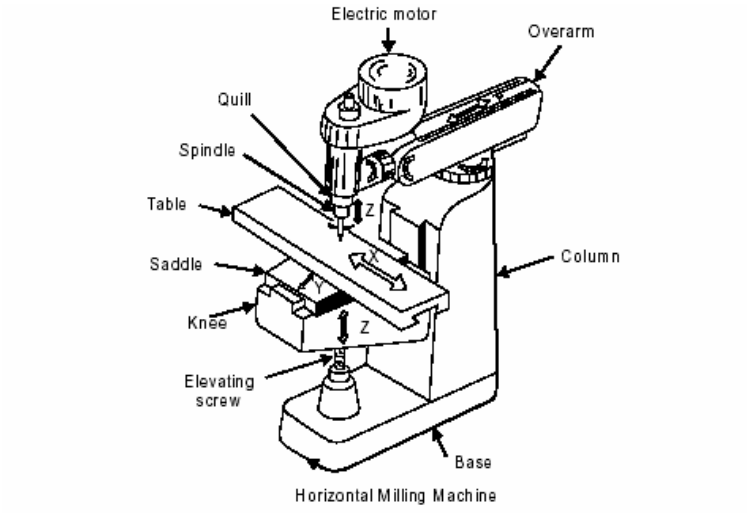
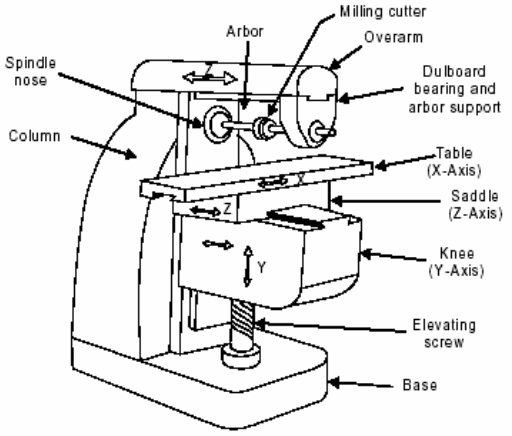


Fig. 24.5 Horizontal column and knee type milling machine

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Jenis Mesin Milling (2)



Vertical Milling Machine

Fig. 24.6 Vertical column and knee type milling machine

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