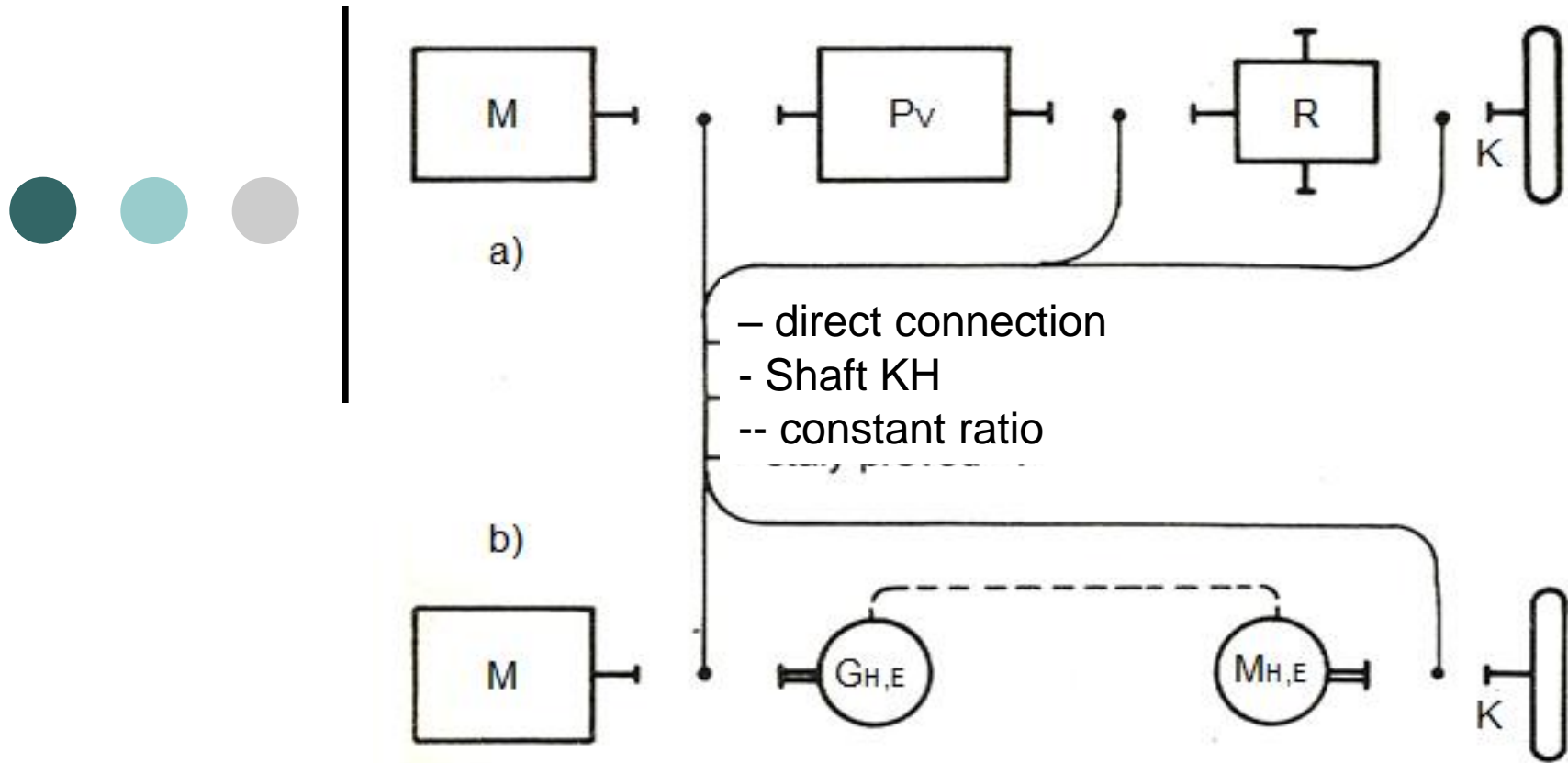


## Scheme of two basic concepts of vehicle energy transmission



a) Mechanical transmission, b) Hydraulic or electricity transmission

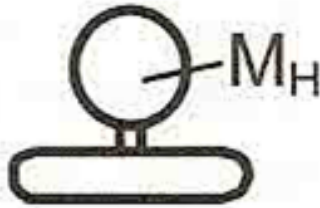
Pv - gearbox

G<sub>H,E</sub> - generator

M<sub>H,E</sub> - hydraulic motor, electric motor

# Drive train arrangements

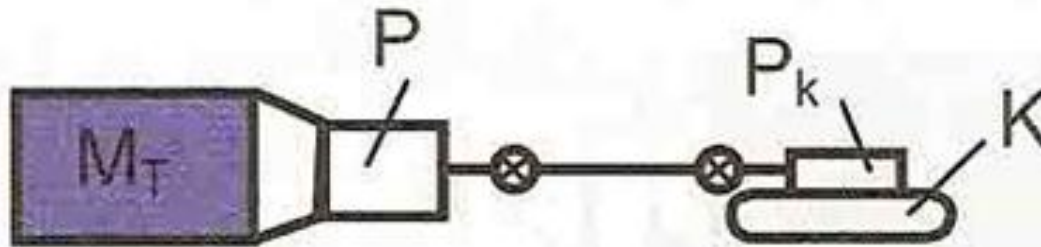
- The more simply:



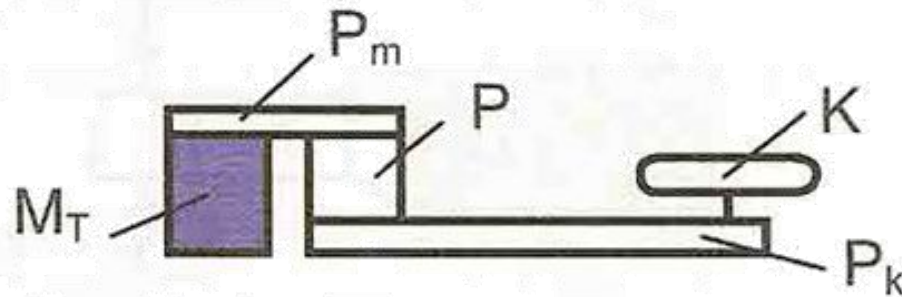
Low speed motor directly connected to the drive wheel

# Drive train arrangements

- Typical arrangement of single-track vehicles:



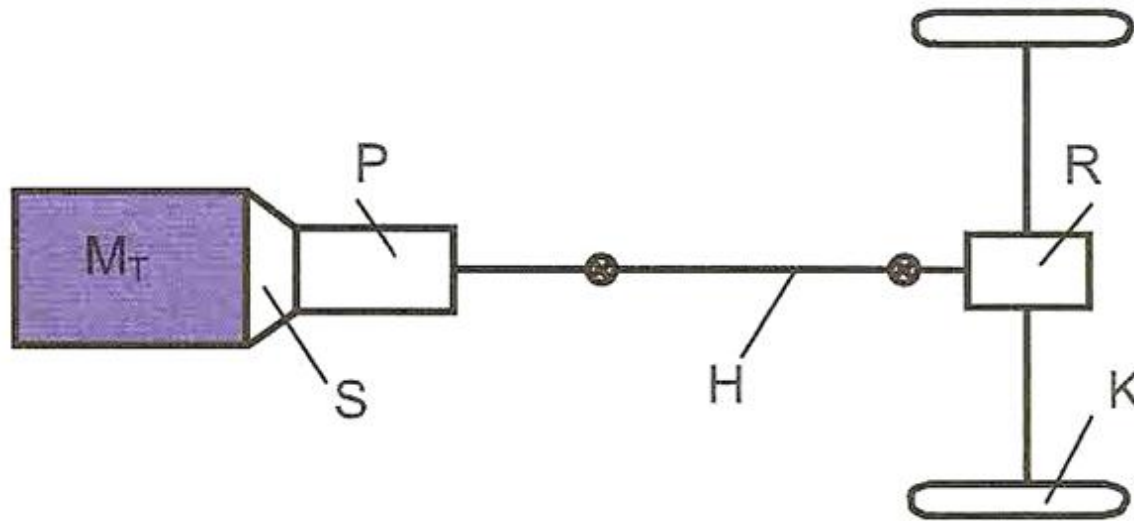
Drive shaft and bevel gear arrangement



Chain drive

# Drive train arrangements

- Classic vehicle arrangement with one drive axle, usually rear



$M_T$  – combustion engine

$S$  – clutch

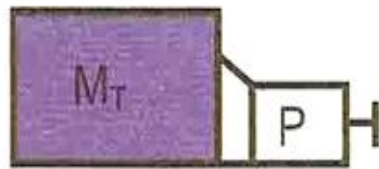
$P$  – Gearbox

$H$  – shaft

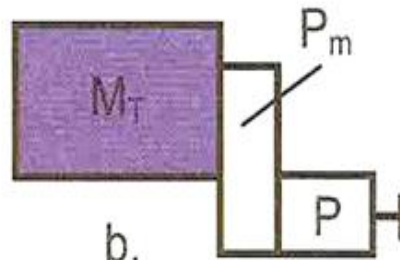
$R$  – axle

$K$  – wheel

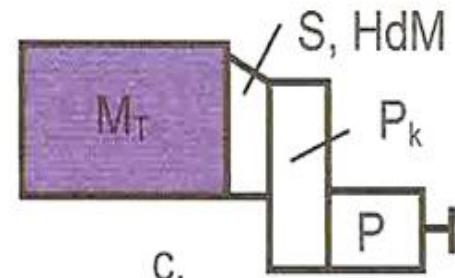
# •Engine and gearbox connection concept



a.



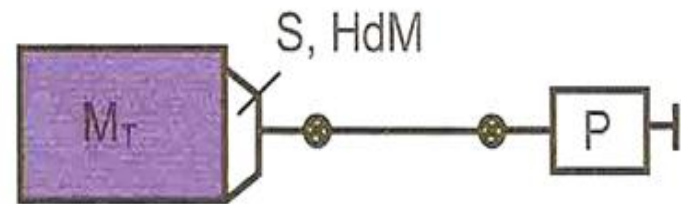
b.



c.



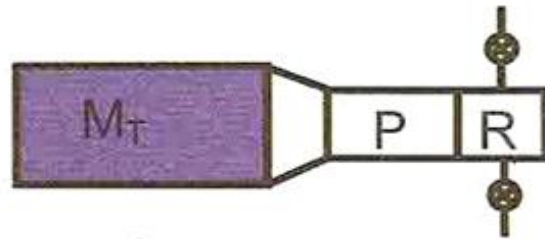
d.



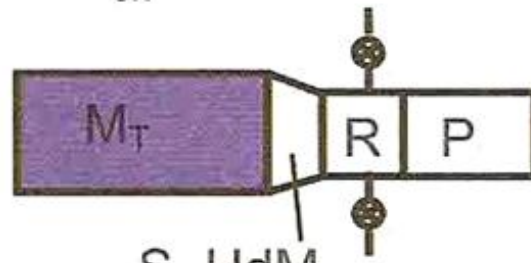
e.

- Engine and gearbox connection concept

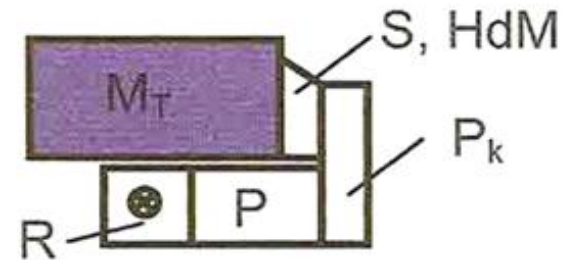
## Used Car concepts



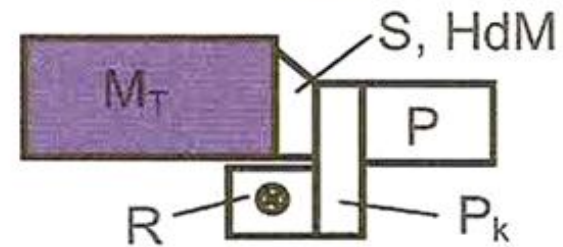
a.



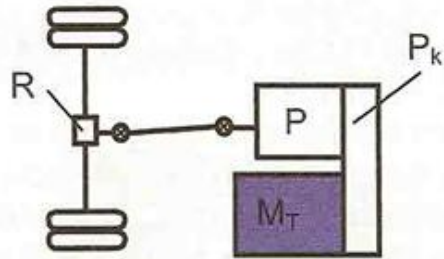
b.



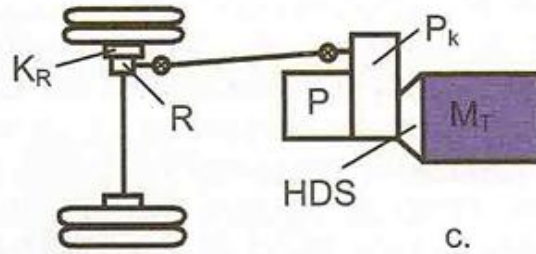
c.



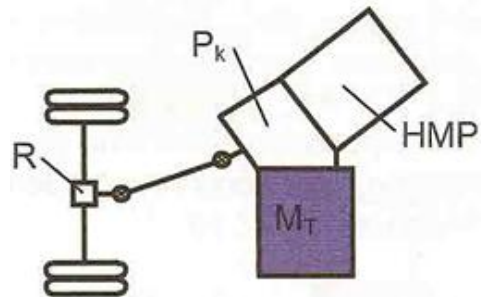
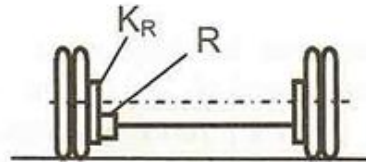
d.



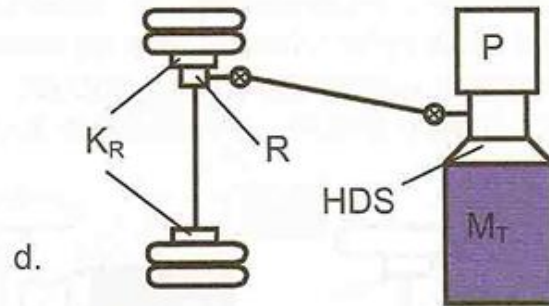
a.



C.

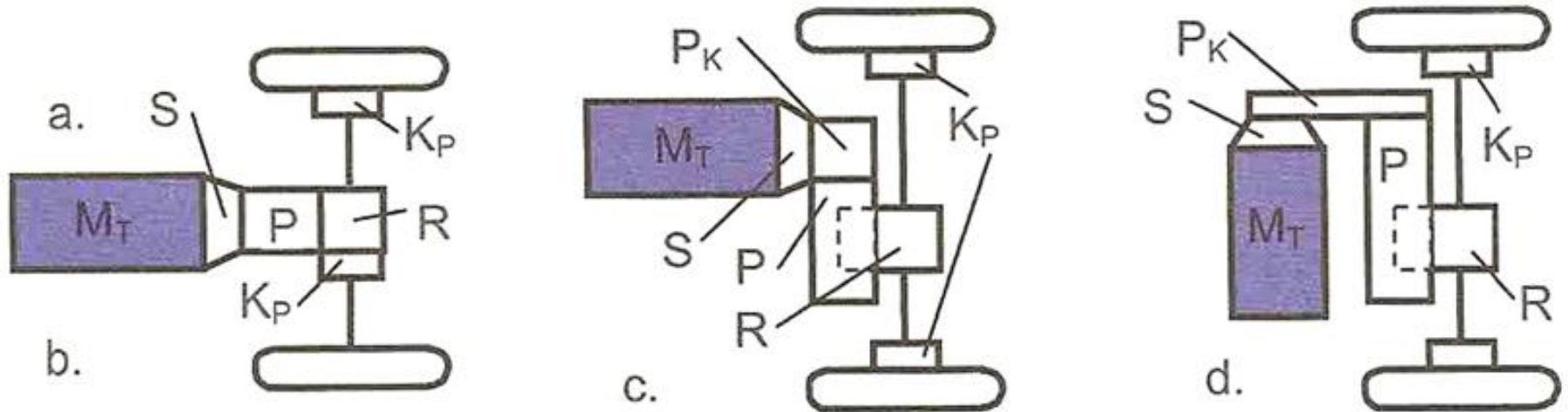


b.



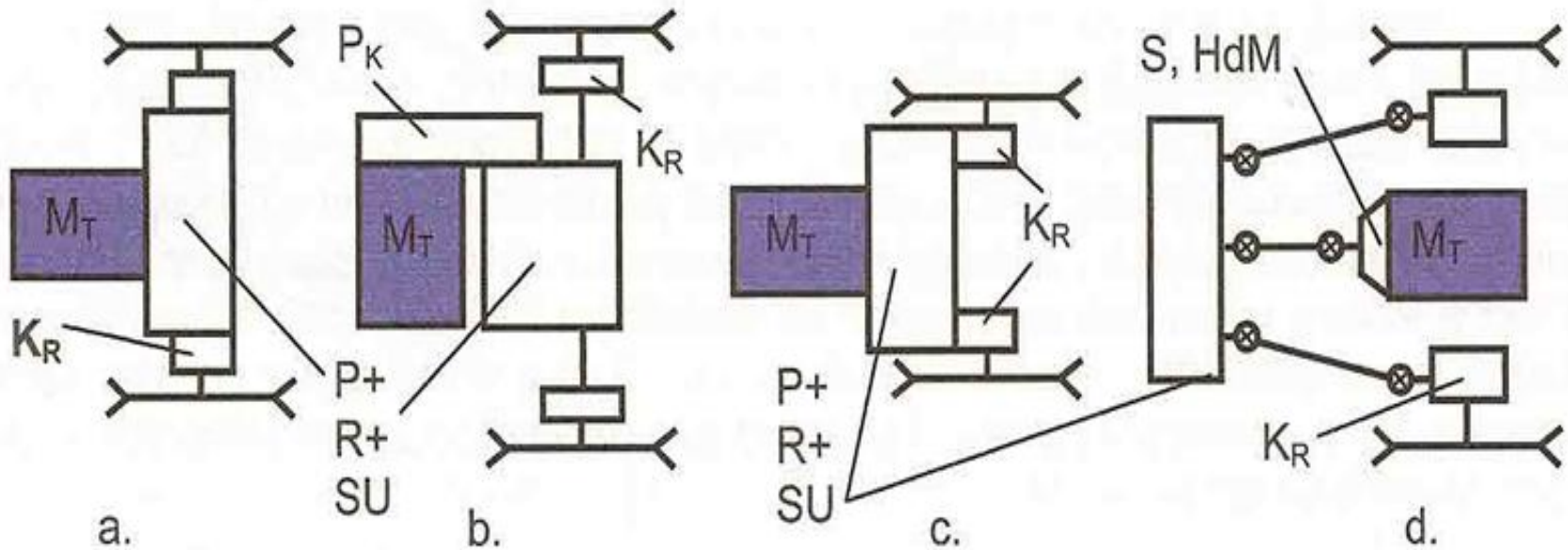
d.

## Used Tractor concepts

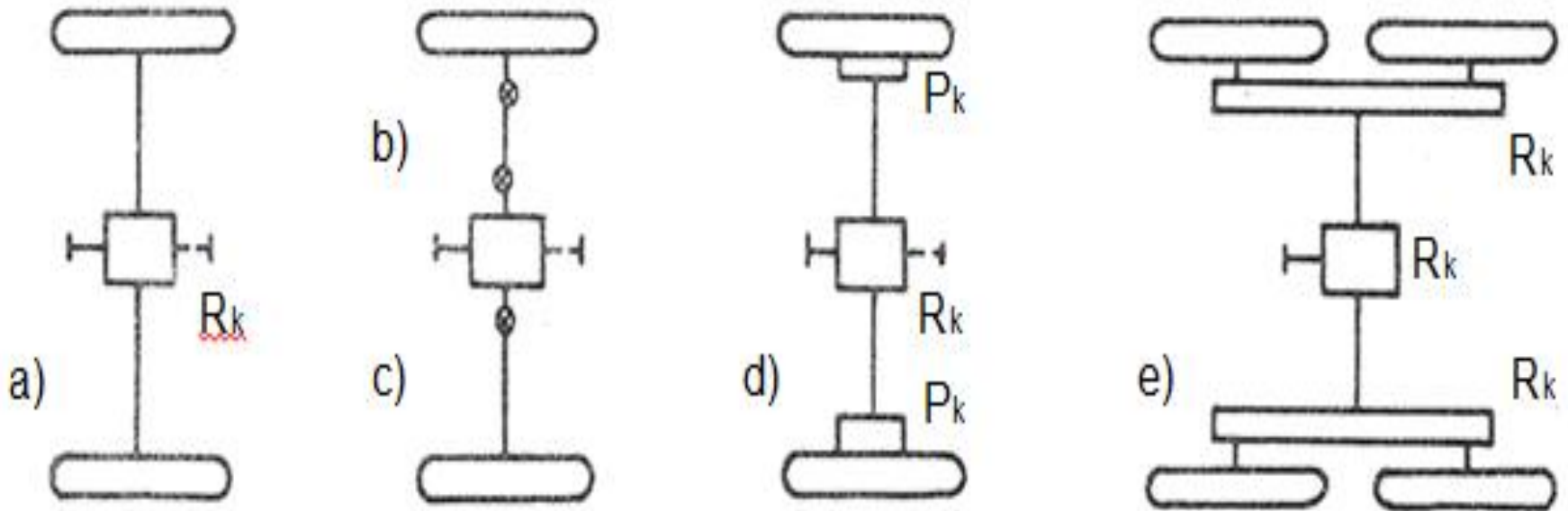




## Used Tracked vehicle concepts



## Types of drive axles



a) Rigid axle,

b) b),c) swing axles,

d) axles with wheel gear reducers

e) combined axle with gearbox