

Výukový materiál zpracovaný v rámci operačního programu Vzdělávání pro konkurenceschopnost



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

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Sada: 2 AJ

Číslo: VY_22_INOVACE_PRO_3.ROC_10

Technical English



Předmět:	Anglický jazyk
Ročník:	3.OZ
Klíčová slova:	tractor, crawler, mower
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Technical English

Tractors

= self-propelled vehicles designed to provide high power and traction at relatively low speeds. They were developed from mobile versions of the steam engines used in 19th century. The modern tractor is usually powered by a Diesel engine and equipped with the cab for a driver. A power take – off and hydraulically operated fittings enable shovels, loaders, moving machines, muck spreaders and cultivators to be operated by the tractor.



Technical English

Tractors

Farm tractors can be divided into 2 groups:

A. Wheeled tractors (kolové)



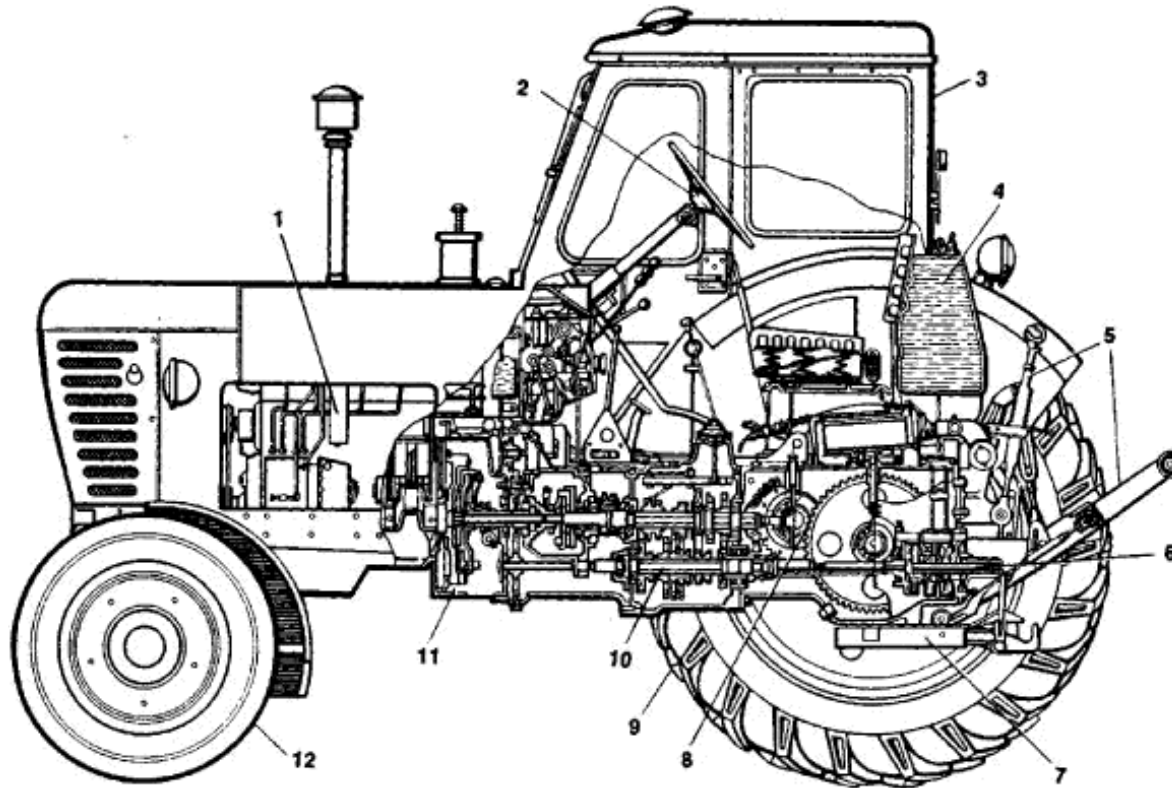
B. Track-laying (crawlers) tractors (pásové)



Technical English

Tractors

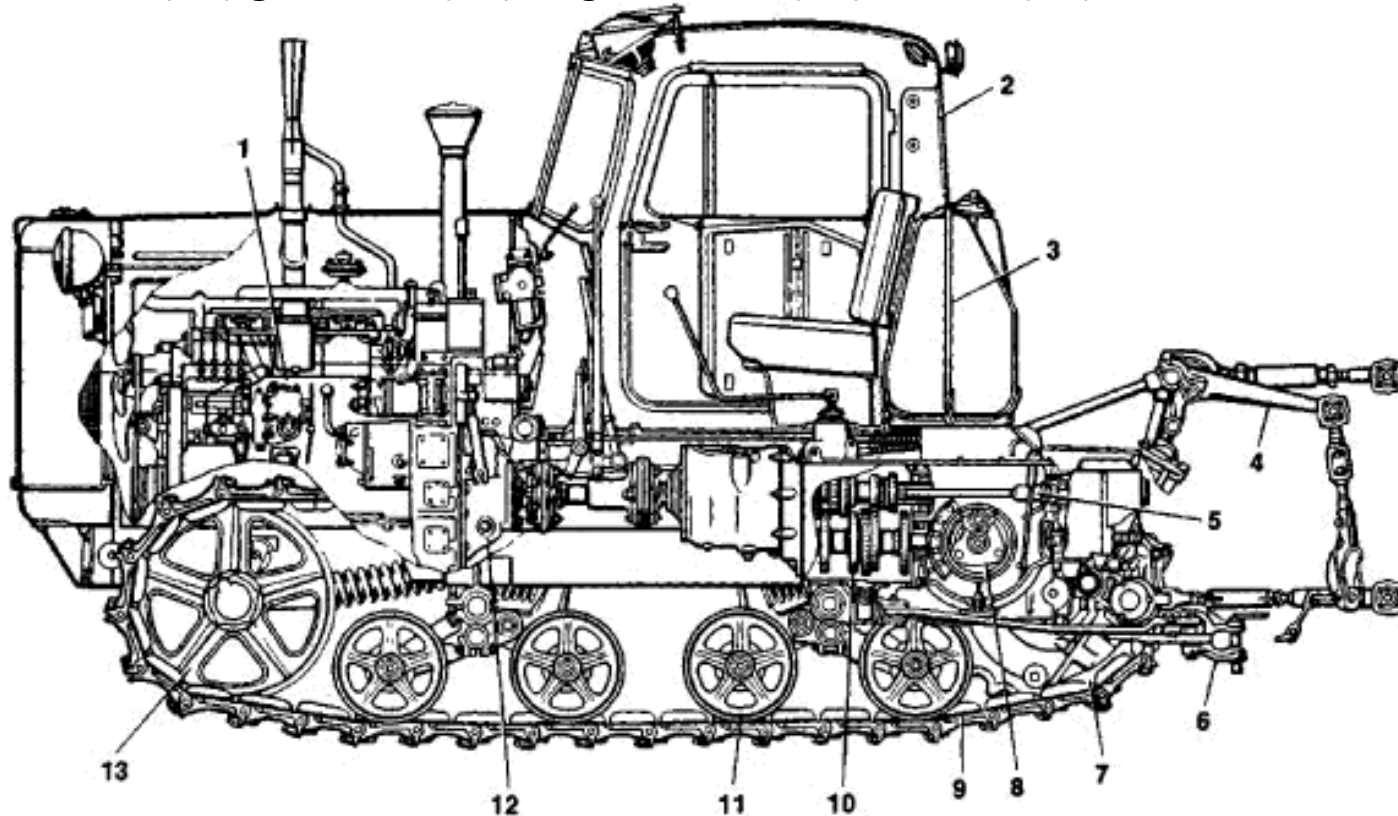
A.Wheel-type tractor: (1) engine, (2) steering wheel, (3) cab, (4) fuel tank, (5) levers of toolbar assembly. (6) power take-off shaft, (7) hitch, (8) main drive, (9) driving wheel, (10) gear box, (11) clutch, (12) front (steerable) wheel



Technical English

Tractors

B.Crawler tractor: (1) engine, (2) cab, (3) fuel tank, (4) levers of tool-bar assembly, (5) power take-off shaft, (6) hitch, (7) driving sprocket, (8) main drive, (9) crawler track, (10) gear box, (11) bogie wheel, (12) clutch, (13) idler wheel



Technical English

Tractors

English	Czech	English	Czech
engine	motor	Steering wheel	volant
cab	kabina	Fuel tank	Palivová nádrž
levers of toolbar assembly	Ovládací páky pro přídatná zařízení	front (steerable) wheel	Přední řídicí kolo
power take-off shaft	Náhon, vývodová hřídel	sprocket	Řetězové kolo
hitch	zavěs	crawler track	Pás (článekový)
main drive	Hlavní pohon	bogie wheel	Kolo (podvozek)
driving wheel	Hnací kolo	idler wheel	Vložené kolo
gear box	řazení	Cooling system	chlazení
clutch	spojka	Brake system	brzdy
winch	naviják	Controls	Ovládací zařízení

Technical English

Tractors

Functions of a tractor :

- 1) to pull such equipment as plows, cultivators, and mowers.
- 2) to power stationary devices such as saws and winches.
- 3) to push snowplows and earth-moving implements.

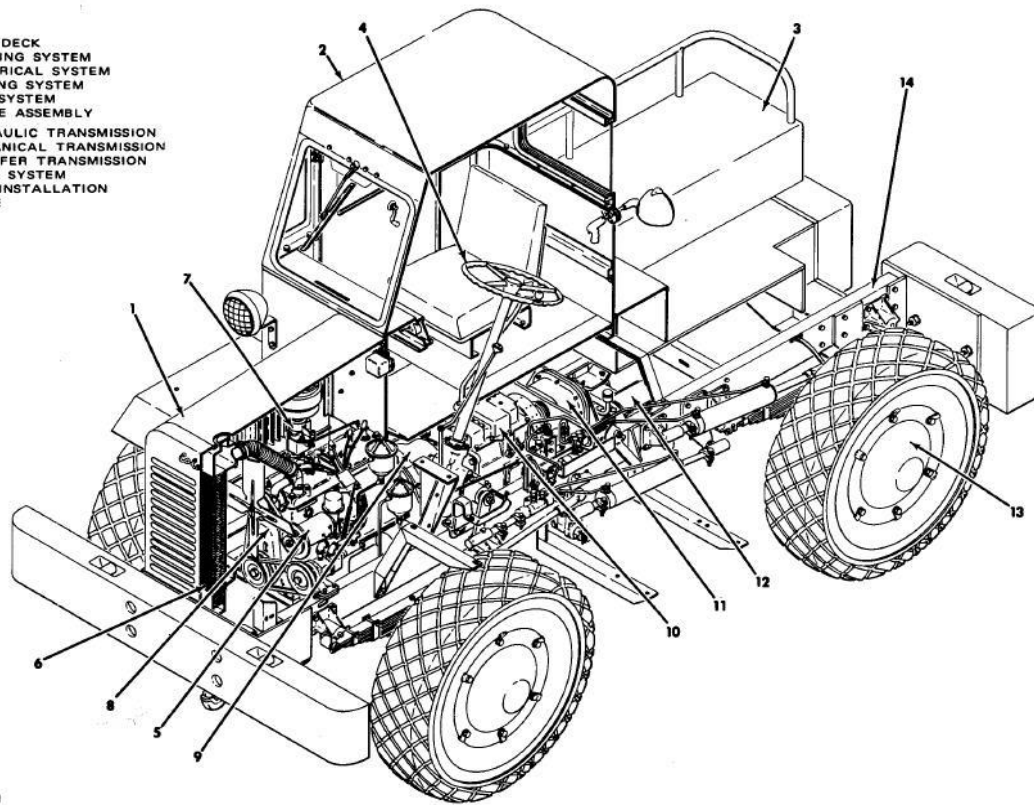


Technical English

Tractors

The major components of a tractor are:

1. HOOD
2. CAB
3. REAR DECK
4. STEERING SYSTEM
5. ELECTRICAL SYSTEM
6. COOLING SYSTEM
7. FUEL SYSTEM
8. ENGINE ASSEMBLY
9. HYDRAULIC TRANSMISSION
10. MECHANICAL TRANSMISSION
11. TRANSFER TRANSMISSION
12. BRAKE SYSTEM
13. AXLE INSTALLATION
14. FRAME



AV 008851

Figure 1-2. Tractor component description

TM 55-1740-200-14

Technical English

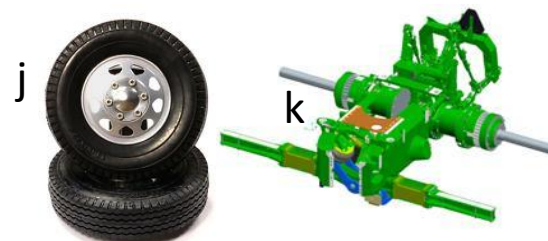
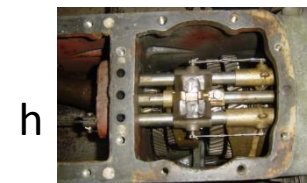
Tractors

Practice 1

Tractor Components

(match numbers to the pictures)

- (1) Engine
- (2) Clutch
- (3) Transmission gears
- (4) Differential unit
- (5) Main drive
- (6) Rear wheels
- (7) Front wheels
- (8) Steering mechanism
- (9) Hitch system
- (10) Brakes
- (11) Power take-off-unit
- (12) Cooling system
- (13) Control panel



Technical English

Tractors

Practice 2

Tractor Components

(name at least 5 tractor components)



Technical English

Tractors



Practice 3

True or false?

- 1) Tractors are self-propelled vehicles designed to provide low power and traction at relatively high speeds.
- 2) The predecessors of modern tractors, traction engines, used steam engines for power.
- 3) Tractors can have only 2 wheels.
- 4) Transmission of a tractor can be either hydraulic or mechanical.
- 5) The modern tractor is never powered by a Diesel engine.
- 6) Tractors are used to pull, to power and to push other implements.
- 7) Tractors are most commonly used in farms.
- 8) *New Holland* is red coloured.
- 9) A Crawler has at least 4 rear wheels.
- 10) Front wheels are steerable.



Technical English

Tractors

Check your answers

Practice 1

a)Transmission gears, b)control panel, c)engine, d)rear wheel, e)steering mechanism, f)brakes, g)cooling system, h)clutch, i)hitch, j)front wheel, k)main drive, l)differential, m)PTO

Practice 2

Steering wheel, brakes, hitch, differential, PTO...

Practice 3

1N,2T, 3N, 4T, 5N, 6T, 7T, 8N, 9T, 10T.

Použité zdroje



- Veškeré použité obrázky (kliparty) pocházejí ze sady Microsoft Office 2010.
- Všechny fotografie pochází z archivu autora
- <http://library.thinkquest.org/TQ0312380/machine.htm> 4.9.2013
- Voráček J., *Zemědělská angličtina*, Profi Press s.r.o., Praha:2004

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