Long Story Short: Let's introduce the DIGGA

The 1980's

Established in 1981 by Steward Wright who started as a one-man company

Photos of phone box and old factory

The 1990's

Digga range of products grew steadily leading to the introduction of computerized machining and robotic welding. In 1997 Digga began exporting to Europe and New Zeland constantly increasing its reach.

The 2000's

In 2000 Digga gets worldwide recognition with winning of several design awards. Since now Digga is a leader in.

Since then, Digga has been a world leader in the production of reliable hydraulic accessories

Digga Central Europe based in Poland since 2009

EARTHMOVING MACHINERY ATTACHMENTS

TRENCHERS

PLANETARY
AUGER DRIVE

WHAT IS A DIGGA AUGER DRIVE?

A Digga Auger Drive is a set of gears, shafts, and bearings that are enclosed in a housing and are arranged in a way that resembles a solar system, with one or more planet gears orbiting around a sun gear

An auger drive is a hydraulically driven device that is made up of a hydraulic motor fitted to a planetary gearbox with an output shaft

GEAR SET

A gear set comprises of an internal cut ring gear and a planet carrier, with normally three gears mounted on to the carrier via needle roller bearings.

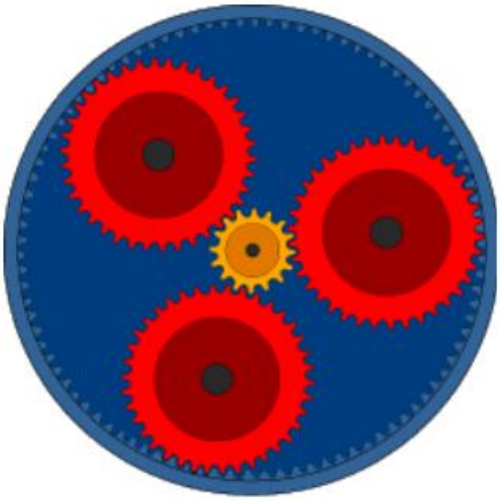
Digga has multiple types of gear sets with multiple gearings including 3 planet, 4 planet and 5 planet gear sets.

SUN: (Yellow) The central gear

PLANET GEAR: (Red) Can be three, four or five gears that are held by the planet carrier and orbit around the sun gear

RING GEAR: (Light Blue) An outer ring with inward-facing teeth that mesh with the planet gears.

CARRIER (Dark Blue) Holds one or more peripheral planet gears, of the same size, meshed with the sun gear



WHY USE PLANETARY GEARS

• Large savings in weight, volume and cost.

• Permit compact constructions at competitive prices.

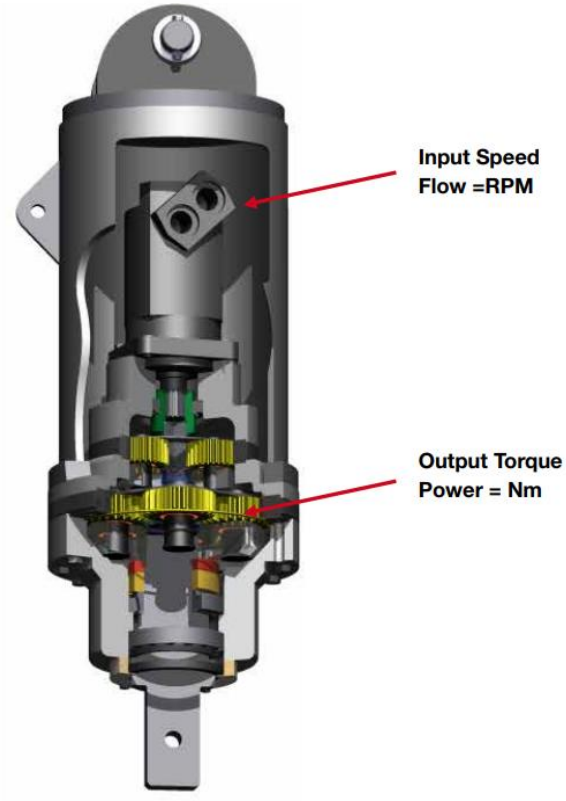
• Very low maintenance, other than oil changes rarely require any other maintenance.

• Allows unlimited variable to occur ie. Different combinations of gear ratios and motor sizes for a more varied range

GEARBOXES ARE KNOWN AS SPEED REDUCERS OR TORQUE MULTIPLIERS

• They convert input speed (typically provided by a hydraulic motor) into a lower output speed while correspondingly multiplying higher torque.

• In other words, gearboxes reduceRPM, turning it into power for use in low Speed high-torque applications.



FLOW = SPEED

PRESSURE = POWER

Flows and pressure work hand in hand. The more flow (speed) you have, the less pressure (power).


NEWGENERATION

WHAT IS AN AUGER DRIVE USED FOR?

An auger drive can be used for many applications.

- Digging holes for fence posts, foundations, sound barriers and power poles just to name a few
- Digga is able to custom design auger drives for the screw anchoring industry and other applications

DRIVE UNITS>>

2.2M HOSES & COUPLERS
LINKAGE BLOCK AND PIN
INCLUDED

ISO
COUPLERS

OR

FLUSH FACE
COUPLERS

PLEASE SPECIFY
WHEN ORDERING

HITCH OR FRAME>>

OPTIONS
AVAILABLE

SINGLE OR
DOUBLE
PIN HITCH

OR

FRAME & CRADLE

PLUS
OPTIONAL
RECOMMENDED

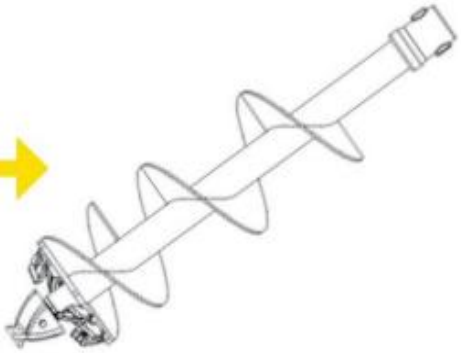
CRADLE HITCH*
*RECOMMENDED

EXTENSIONS>>

1 PIN INCLUDED

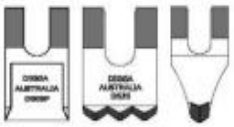
AUGERS>>

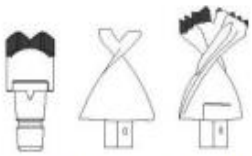
1 PIN, TEETH,
PILOT INCLUDED



SPARE WEAR PART KITS>>

RECOMMENDED
TEETH / PILOTS





WEARPART KITS AVAILABLE INCLUDE OUTER TEETH, INNER TEETH, PILOTS, AND NUT & BOLT

EXTRAS

WIDE RANGE
OF OPTIONS

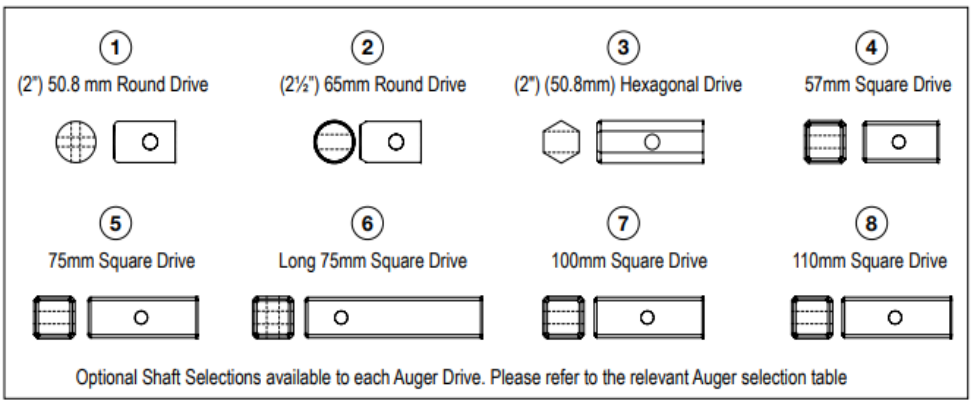
ENERGY CONTROL VALVE (ECV)
TORQUE MEASURING SYSTEM 2 WAY
VALVE

AUGER ALIGNMENT SYSTEM (DIGGALIGN)
MONITORING SYSTEM (DIGGALOGIC)

Ideally, drive units are coded to approximately match the machine tonnage. Please be aware that this is a guide only and it is required to check the Kw's of the machine before confirming the correct drive unit that the customer requires.

	ORDER CODE	REC FLOW (LPM)	REC PRESSURE (BAR)	
MACHINES UP TO 2 T	PDD	15-45	125-240	
	PDX	20-50	125-240	
	PDX2	30-50	125-240	
	PD3	45-75	175-240	
MACHINES UP TO 2 T	PD4	50-85	175-240	2 KW MOTOR
	PD4	60-90	175-240	
	PD5	70-115	175-240	
MACHINES FROM 3 - 4 T	PD6	75-115	175-240	
	PD7	80-115	175-240	
	PD8	80-115	175-240	
	PD10	80-115	175-240	
	PRESSURE RELIEF VALVE(PRV) RECOMMENDED WHEN FITTED TO EXCAVATORS			
	PD6HF	70-230	240 PRV	
MACHINES FROM 12 - 15 T	PD8HF	100-230	240 PRV	
	PD10HF	100-230	240 PRV	
	PD12	110-230	240 PRV	
MACHINES FROM 15 TO 24 T	PD15	125-230	240 PRV	6 KW MOTOR
	PD18	130-230	240 PRV	
	PD22	140-230	240 PRV	
MACHINES FROM 25 - 50 T	PD25	140-230	240 PRV	
	PD30	140-230	240 PRV	
	PD40	150-230	240 PRV	
	PD50	150-230	240 PRV	
	PRESSURE RELIEF VALVE(PRV) FITTED AS STANDARD			

SHAFTS OPTIONS:



Example: PDX2 -4 – SQUARE SHAFT 57 MM

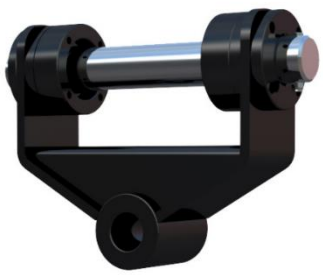
PD4 -2 – ROUND SHAFT

PD12 -5 SQUARE SHAFT 75 MM

THE SHAFT MUST BE COMPATIBLE TO AUGER/EXTENSION

THE QUESTION YOU NEED TO ASK BEFORE OFFERING:

- The type of the machine (tonnage, model to check the auxiliary oil flow)
- The work that needs to be done
- The size of the auger
- The type of the ground (easy, clay, rock)
- The depth
- The hitch (single pin, double pin, plate) – check the sizes with the customer
- The couplings



Seria 4 - dedicated to PDD-PD4

	A4TL - GENERAL DRILLING AUGER (OTR)				RC4 - ROCK/EARTH AUGER		DR4 - ROCK AUGER	
	LIGHT CONDITIONS EARTH		HEAVY CONDITIONS MFT - HARD GROUND		ROCK/EARTH COMBO TAPER TEETH		DEDICATED ROCK ROTATING ROCK PICKS	
DIA	ORDER CODE	EURO	ORDER CODE	EURO	ORDER CODE	EURO	ORDER CODE	EURO
100MM	A4TL-04-4-E	€ 270,00	A4TL-04-4-MFT	€ 320,00	-	-	-	-
150MM	A4TL-06-4-E	€ 315,00	A4TL-06-4-MFT	€ 410,00	RC4-06-4-MFT	€ 560,00	DR4-06-4	€ 760,00
200MM	A4TL-08-4-E	€ 335,00	A4TL-08-4-MFT	€ 425,00	RC4-08-4-MFT	€ 580,00	DR4-08-4	€ 780,00
225MM	A4TL-09-4-E	€ 405,00	A4TL-09-4-MFT	€ 510,00	RC4-09-4-MFT	€ 690,00	-	-
250MM	A4TL-10-4-E	€ 410,00	A4TL-10-4-MFT	€ 510,00	RC4-10-4-MFT	€ 690,00	DR4-10-4	€ 930,00
300MM	A4TL-12-4-E	€ 410,00	A4TL-12-4-MFT	€ 510,00	RC4-12-4-MFT	€ 710,00	DR4-12-4	€ 930,00
350MM	A4TL-14-4-E	€ 425,00	A4TL-14-4-MFT	€ 550,00	RC4-14-4-MFT	€ 760,00	DR4-14-4	€ 990,00
400MM	A4TL-16-4-E	€ 500,00	A4TL-16-4-MFT	€ 635,00	RC4-16-4-MFT	€ 870,00	DR4-16-4	€ 1 150,00
450MM	A4TL-18-4-E	€ 535,00	A4TL-18-4-MFT	€ 650,00	RC4-18-4-MFT	€ 900,00	DR4-18-4	€ 1 180,00
500MM	A4TL-20-4-E	€ 575,00	A4TL-20-4-MFT	€ 685,00	RC4-20-4-MFT	€ 950,00	DR4-20-4	€ 1 250,00
600MM	A4TL-24-4-E	€ 680,00	A4TL-24-4-MFT	€ 810,00	RC4-24-4-MFT	€ 1 120,00	DR4-24-4	€ 1 490,00
750MM	A4TL-30-4-E	€ 835,00	A4TL-30-4-MFT	€ 970,00	RC4-30-4-MFT	€ 1 460,00	-	-
900MM	A4TL-36-4-E	€ 1 130,00	A4TL-36-4-MFT	€ 1 350,00	RC4-36-4-MFT	€ 1 860,00	-	-

Seria 6 – PD5-PD10

	A6 -GENERAL DRILLING AUGER				RC6 -ROCK/EARTH AUGER		DR6 - ROCK AUGER	
	LIGHT CONDITIONS EARTH		HEAVY CONDITIONS MFT - HARD GROUND		ROCK/EARTH COMBO TAPER TEETH		DEDICATED ROCK ROTATING ROCK PICKS	
DIA	ORDER CODE	EURO	ORDER CODE	EURO	ORDER CODE	EURO	ORDER CODE	EURO
150MM	A6-06-5-E	€ 580,00	A6-06-5-MFT	€ 625,00	RC6-06-5-MFT	€ 910,00	DR6-06-5	€ 1 240,00
200MM	A6-08-5-E	€ 630,00	A6-08-5-MFT	€ 680,00	RC6-08-5-MFT	€ 990,00	DR6-08-5	€ 1 240,00
225MM	A6-09-5-E	€ 680,00	A6-09-5-MFT	€ 730,00	RC6-09-5-MFT	€ 1 090,00	-	-
250MM	A6-10-5-E	€ 680,00	A6-10-5-MFT	€ 730,00	RC6-10-5-MFT	€ 1 130,00	DR6-10-5	€ 1 310,00
300MM	A6-12-5-E	€ 710,00	A6-12-5-MFT	€ 765,00	RC6-12-5-MFT	€ 1 180,00	DR6-12-5	€ 1 460,00
350MM	A6-14-5-E	€ 760,00	A6-14-5-MFT	€ 820,00	RC6-14-5-MFT	€ 1 230,00	DR6-14-5	€ 1 580,00
400MM	A6-16-5-E	€ 840,00	A6-16-5-MFT	€ 905,00	RC6-16-5-MFT	€ 1 390,00	DR6-16-5	€ 2 050,00
450MM	A6-18-5-E	€ 1 000,00	A6-18-5-MFT	€ 1 080,00	RC6-18-5-MFT	€ 1 570,00	DR6-18-5	€ 2 520,00
500MM	A6-20-5-E	€ 1 040,00	A6-20-5-MFT	€ 1 120,00	RC6-20-5-MFT	€ 1 670,00	DR6-20-5	€ 2 860,00
600MM	A6-24-5-E	€ 1 220,00	A6-24-5-MFT	€ 1 320,00	RC6-24-5-MFT	€ 1 930,00	DR6-24-5	€ 3 510,00
750MM	A6-30-5-E	€ 1 410,00	A6-30-5-MFT	€ 1 530,00	RC6-30-5-MFT	€ 2 280,00	DR6-30-5	€ 4 700,00
900MM	A6-36-5-E	€ 1 740,00	A6-36-5-MFT	€ 1 890,00	RC6-36-5-MFT	€ 2 790,00	DR6-36-5	€ 5 540,00
1000MM	A6-40-5-E	€ 2 590,00	A6-40-5-MFT	€ 2 810,00	RC6-40-5-MFT	€ 3 980,00	-	-
1200MM	A6-48-5-E	€ 3 230,00	A6-48-5-MFT		RC6-48-5-MFT	€ 4 960,00	-	-

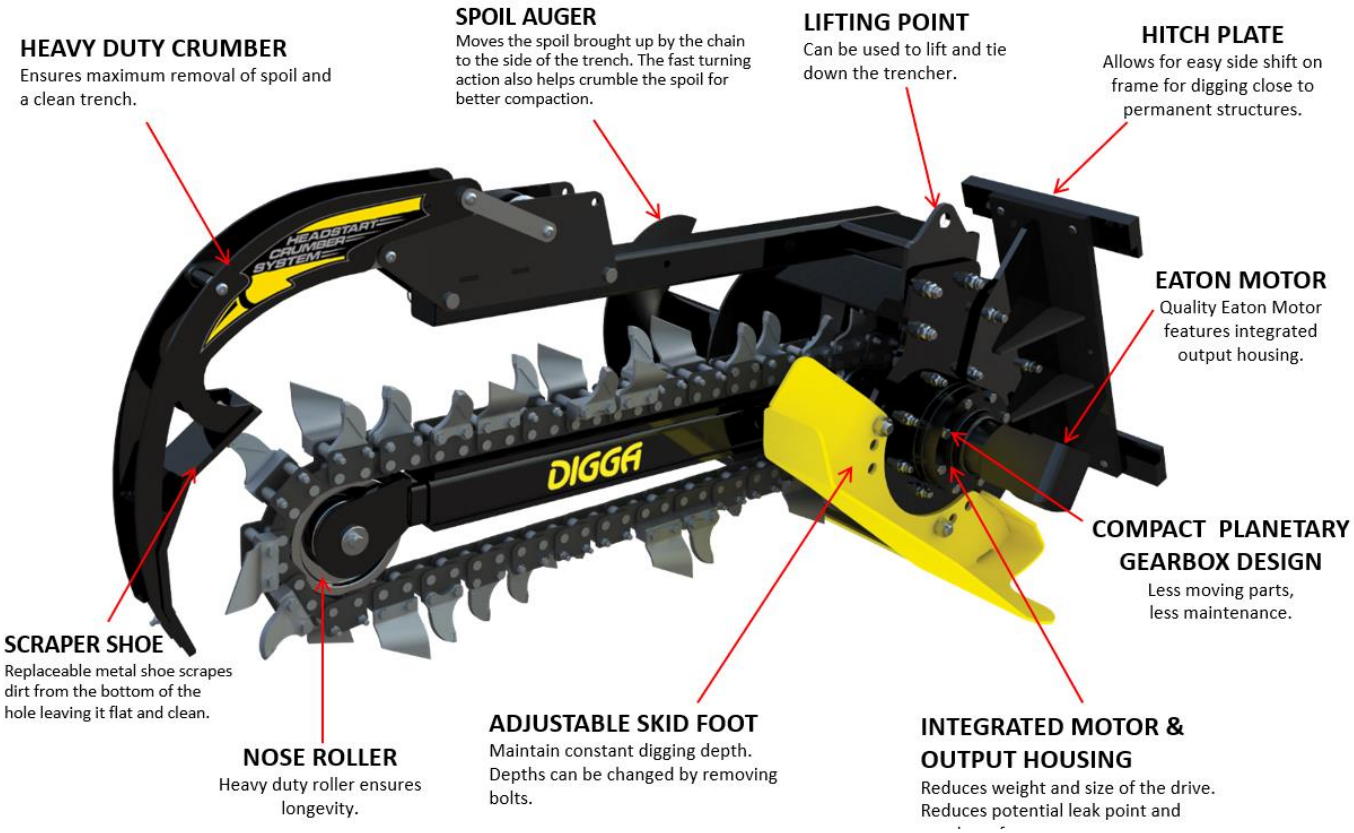
Seria 8 – PD12-PD22

Seria 10 / 11 – PD25-PD50

Auger wearparts

SPECIFICATIONS	OUTER TEETH	INNER TEETH	PILOT
ONE MAN MACHINE SUITS A1 AUGER	 TS-3 POCKET D665	 TS-C-3 POCKET D665	 PS-3 DRIVE LUG D635
MACHINES UP TO 5T SUITS A4 AUGER	 TS-3 POCKET D665	 TS-C-3 POCKET D665	 PM-SQ-3 SOCKET S74
MACHINES UP TO 5T SUITS RC4 AUGER	 TTD-3 POCKET TTD-H	 TTS-3 POCKET TTD-H	 PM-HX-3 SOCKET D627
MACHINES 5T - 10T SUITS A6 AUGER	 TM-3 POCKET TM-H	 TM-C-3 POCKET TM-H	 PM-HX-3 SOCKET D627
MACHINES 10T - 30T SUITS A8 AUGER	 TM-3 POCKET TM-H	 TM-C-3 POCKET TM-H	 PM-SQ-3 SOCKET S74
MACHINES UP TO 50T SUITS RC6 / RC8 / RC10 AUGER	 TTD-3 POCKET TTD-H	 TTS-3 POCKET TTD-H	 PH-3

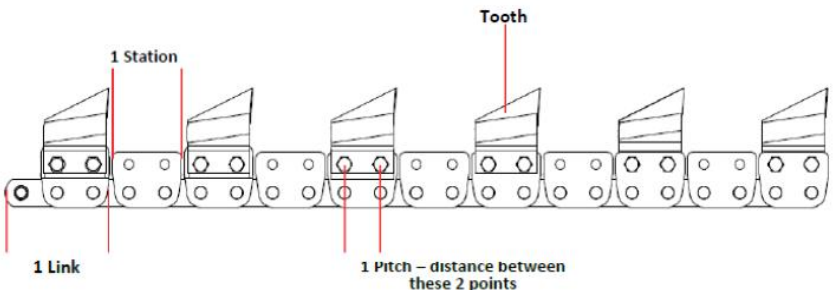
THE TRENCHERS



A trencher chain is made up of links, with each station being a possible or potential position for a tooth.
The length of the chain is determined by the amount of stations it has, for example, a 26 station with 15/8" pitch chain digs 750mm deep.
The type and size of tooth suiting the chain is dependent on the chain pitch.

WHAT IS A CHAIN PITCH?

Chain pitch is the distance between the middle of two pins which can hold a tooth. Standard trenchers use a 15/8" chain while XD models use a 2" pitch chain. A 2" chain holds a larger tooth.



THE CHAINS OPTIONS

EARTH CHAIN

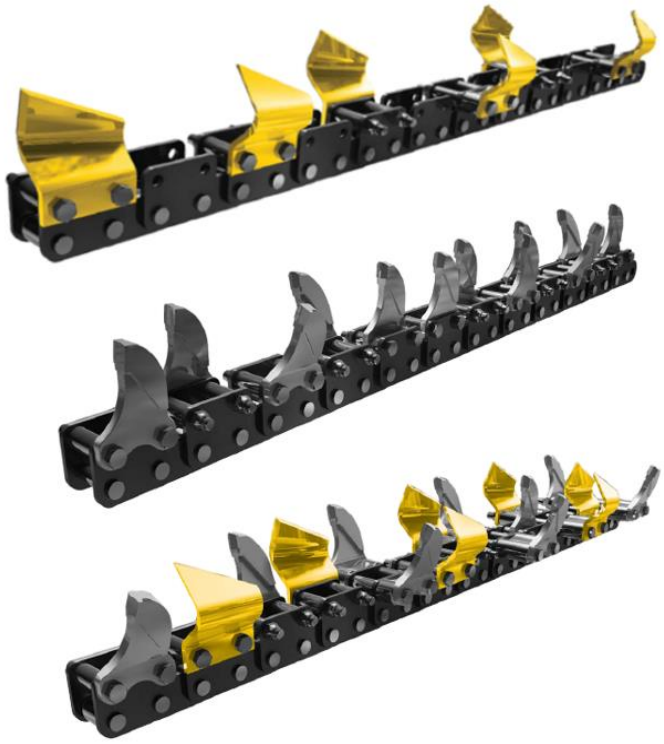
SETUP CUP TOOTH ON EVERY SECOND STATION
SUITABILITY BEST FOR SOFT, CLEAN GROUND WITH NO FLOATERS OR TREE ROOTS

DIGGATAC CHAIN

SETUP FULL TUNGSTEN TEETH ON EVERY STATION
SUITABILITY BEST FOR ROCKY HARD SHALE, ASPHALT, AND FROZEN GOUND

COMBO CHAIN

SETUP COMBINATION OF EARTH & TUNGSTEN TEETH
SUITABILITY SUITABLE FOR MOST APPLICATIONS. CUTS THROUGH HARD SOIL, ROOTS, SOFT SHALE, AND ROCKY GROUND



HOW TO SELL TRENCHER:

THE QUESTION YOU NEED TO ASK BEFORE OFFERING:

- The type of the machine (tonnage, model to check the auxiliary oil flow)
- What is the flow and the pressure of the machine - it is the most important factor
- The width of the chain
- The type of the ground (easy, clay, rock)
- The depth
- The hitch (double pin, plate) – check the sizes with the customer
- The couplings
- How experienced is the operator – the bigfoot is ideal for inexperienced operator, because the foot

Condition that must be met:

- Properly oil flow and pressure
- Hydrostatic gearbox – slow drive
- The best for 3 – 6 tones machines
- Not a good choice for the backhoes

FLOW = CHAIN SPEED

PRESSURE = POWER

How to trench: https://youtu.be/29_BB1edVoA?si=x8n5FtpalsILC1F_