



# Excavator Attachment Range

Australia's Leading Award Winning Attachment Manufacturer



September 2010

## Established in 1981 Digga are the World Leaders in Planetary Auger Drive and Trenching Attachments for the earthmoving and construction Industry.

### About Digga™

100% Australian owned, Digga are Australia's largest manufacturer and exporter of gearboxes and attachments for the earthmoving machinery industry. Formed in 1981 by founder, Chairman & Director of Research & Development, Stewart Wright, Digga pioneered Pendulum Drilling in Australia and today produce the largest range of compact high torque planetary drives for the Pendulum drilling & attachment industry. Digga are a Multi-award winning company both for product design and business practices, recognised for their Innovative approach to leading edge design and manufacturing quality.



### Digga Manufacturing

Digga are not just an assembly plant, we are the original manufacturer. Products are manufactured in Digga's company owned, state of the art 12,500sqm (130,000 sq ft) facility in Brisbane Australia. Using only the highest grade materials and with the strictest of quality control methods, Digga gears, components and attachment range are produced in house through 15 CNC and VMC machining centres, 15 gear cutting machines and extensive state of the art steel fabrication & robotic processes.



### Distribution

Distributed through an extensive worldwide dealer network, Digga product is exported to over 72 different countries. Digga has 3 additional company owned manufacturing plants in Sydney, Melbourne and the United Kingdom to service our extensive worldwide dealer network.



### Research & Development

A full time Research & Development division are committed to new and better methods of manufacturing, product design & new product development. Digga are able to provide end users worldwide with a superior product at an always competitive price.

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Digga's 12,500m<sup>2</sup> (130,000 sq ft) state of the art manufacturing facility, Brisbane Australia.



Australia's Leading Award Winning Attachment Manufacturer

## Digga Premium Drives

Digga's New Generation Premium Drive range for the ultimate in performance, quality and cost effectiveness.

29 years of design and development has produced the highest quality most extensive range of drives on the worldwide market today . Fully Australian manufactured and assembled using only the highest grade materials & strictest quality control. Easy drive selection, the New Generation drives are optimized around the tonnage of your machine ensuring more accurate selection.



### Features:

- > Compact high torque gearboxes for machines from 750kg up to 50 Tonne.
- > In built Pressure Relief standard on models PD6HF, PD8HF, PD10HF, PD12 - PD50.
- > Powered by high quality Eaton hydraulic motors - high torque, high efficiency performance.
- > 3 year gearbox & hydraulic motor warranty.
- > Full range of output shafts available upon request.
- > No case drains required.

### Ideal Use:

Augering, drilling, tree planting, fencing, foundations, sound barriers and more.



*Extreme heavy duty shaft locking system - lifetime warranty\**  
*Subject to dealer warranty specifications\**

**EATON**  
Powering Business Worldwide

| Char-Lyn

**NEWGENERATION**

# Excavator Auger Drive Units

Easy Drive selection - Digga 'New Generation' Premium Drives are optimised around the tonnage of your machine ensuring more accurate model selection.

E.g 5 Tonne Machine

Standard Selection - PD5

Lighter Duty (more speed) - PD4

Heavy Duty (more power) - PD6

	Excavators - Micro and Mini 750kg - 4T					Excavators - Medium 4T - 10T									Excavators - Large 10T - 50T							
Order Code	PDD	PDX	PDX2	PD3	PD4	PD4	PD5	PD6	PD7	PD8	PD10	PD6HF	PD8HF	PD10HF	PD12	PD15	PD18	PD22	PD25	PD30	PD40	PD50
Standard Output Shaft	65mm Round					75mm Square									75mm Square				100mm Sq Output Shaft			
Rec Flow (LPM)	15-45	20-50	30-50	45-75	50-85	50-85	60-90	70-115	75-115	80-115	85-115	70-230	100-230	100-230	110-230	125-230	130-230	140-230	140-230	140-230	150-230	150-230
Rec Pressure (BAR)	125-240	125-240	125-240	175-240	175-240	175-240	175-240	175-240	175-240	175-240	175-240	175-240	175-240	175-240	240 (Prv)	240 (Prv)	240 (Prv)	240 (Prv)	240 (Prv)	240 (Prv)	240 (Prv)	240 (Prv)
Max Torque Nm @ 240 Bar	1197	1764	2331	3591	4473	4473	5166	5607	6048	7056	8568	6150	7175	9765	11340	13911	17620	22257	25956	30492	32886	38619
Weight (kgs)	59	59	59	60	60	60	88	88	110	110	110	140	140	140	150	170	170	170	310	312	313	315
OAL (mm)	620	620	620	624	624	624	775	775	775	775	775	950	950	950	950	1000	1000	1000	1316	1316	1316	1316
DIA (mm)	187	187	187	240	240	240	240	240	290	290	290	290	290	290	290	290	290	290	355	355	355	355
Suit Auger	A4	A4	A4	A4	A4	A5/A6	A5/A6/A7	A5/A6/A7	A5/A6/A7	A6/A7	A6/A7	A6/A7	A6/A7	A6/A7	A8/A9	A8/A9	A8/A9	A8/A9	A10/A11	A10/A11	A10/A11	A10/A11

Chart shows all torques @ 240Bar. Other output shaft options available. For more detailed information, please contact Digga.

Pressure Relief Valve (Prv) fitted as standard to the PD8HF and PD10HF.

(Recommended when fitted to excavators)



## Swing Control System - Patented

The only true Swing Control/Dampening system in the world today. Integrated into the hitch & drive hood, this multi-award winning design doesn't depend on friction or cradles and is fully independent of your hydraulic system. Patented Swing control is the most revolutionary pendulum dampening system on the market today.

**SCS**<sup>™</sup>  
SWING CONTROL SYSTEM



Whilst it dampens the swing it still allows the movement required for efficient excavator mounted pendulum drilling, both forward/aft and side to side.

Its unique design means the faster you move the quicker the drive unit stops. SCS controls the pendulum action of your auger making your auger easier to operate and control, safer on the work site and greatly improving operator efficiency and effectiveness.

### Features:

- > Unique independent dampening cylinders control forward/aft and side to side movement.
- > Compact, low maintenance.
- > Adjustable levels of dampening.
- > Increase efficiency.
- > Increase productivity.
- > Increase safety.

Swing control can be retrofitted to most existing auger drives.



### Awards:

- 2003 Civenex Best New Product Award
- 2003 Australian International Design Award
- 2003 Australian Powerhouse Museum Selection
- 2003 Mayors Innovation Award

## Augers, Extensions and Adaptors

Custom built augers to drill in earth, clay, shale, and most fracturable rock conditions, bitumen, asphalt and concrete are our specialty.

Building quality augers since 1981, all Digga augers are designed heavy duty and feature ideal flight pitches to provide maximum soil removal in all ground conditions. Fitted with a range of wear parts to suit most ground conditions. Ideal for augering, tree planting, sound barriers, foundation drilling and more.

Full range of auger to drive adaptors. Extensions up to 4 metres, standard and telescopic available.

Custom builds are our speciality.



## Wear Parts - Padloc®

Digga provide a full range of auger teeth & pilots to suit your individual requirements. Digga teeth are fitted with PADLOC® the world first Advanced Tooth Locking System.

### Teeth and Pilots:

- > **Earth** - standard, durable and cost effective for light to moderate ground conditions.
- > **TC** - flat tungsten carbide braised to your wear parts ensures longer life.
- > **MFT** - multi faced tungsten carbide, for difficult medium to heavy solid ground conditions, compacted soils, heavy clay, asphalt, concrete, frozen ground.



### Padloc:

- > Bonded friction pads already fitted to your auger teeth ensures you're locked in tight.
- > 1 step process - knock in knock out.
- > No special tools required.
- > Fits most types of pockets and wearparts.

## Wear Parts - Teeth and Pilots

### Teeth



### Pilots

Digga provide a full range of heavy duty cast steel pilots to suit your individual requirements.



# I-DRIVE

Patent Pending

**High capacity compact hydraulic drive system for screw anchor/core barrelling and foundation drilling.**

Fully Australian designed and manufactured, the **world first** Digga 'I-Drives' are high capacity, compact, hydraulic drive systems fitted to Digga hi torque planetary gearboxes. Designed to fit 12 – 50 tonne excavators for the installation of ground **screw anchors, core barrelling** and **foundation drilling**.

The cost effective I-Drive systems can fully utilize the total available horsepower of the machine, accepting flows 375, 500, 750 & 1000 lpm with single/dual or three speed options (high speed/ low torque, mid speed/mid torque, low speed/ high torque).

**"I-Drive technology allows you to harness the total available hydraulic power of the host machine, substantially increasing productivity over previously available drive systems."**

**World First Technology**



#### Features:

- > No Case Drain required.
- > No complex hose, valving or filtration.
- > No de-tuning of machine required.
- > In built Pressure Relief Valve standard.
- > 1-2 and 3 speeds available up to 1,000 lpm.

Patent Pending



## Supa Drives, Mega Drives and Ultra Drives

Fitted with the world first I-Drive hydraulic motor system these units are able to utilise the total available horsepower of your machine to deliver maximum power to the application. Designed for maximum efficiency, easy fitment and reduction of operator error (ie. no need for case drain) these units are bullet proof.

### I-DRIVE

#### Features:

- > Heavy duty Australian made Digga planetary gearboxes.
- > Extreme duty shaft locking system (lifetime warranty\*).
- > Engineered hood & linkage design for maximum strength & durability.
- > The most compact high powered drive on the market today.

Eg. Total size of a complete 300,000nm power head is just 670mm in diameter and 1.8mtrs tall.

#### Supa Drives

25,000Nm - 95,000Nm

#### Mega Drives

100,000Nm - 200,000Nm

#### Ultra Drives

200,000Nm - 300,000Nm



*Subject to dealer warranty specifications\**

### Machine Flow (LPM)

	Drive Code	Standard Torque	Torque (Nm) Speed (RPM)	Machine Flow (LPM)													
				150 (LPM)			250 (LPM)			375 (LPM)	500 (LPM)			1000 (LPM)			
				3 SPEED			SINGLE	2 SPEED		SINGLE	SINGLE	2 SPEED		3 SPEED			SINGLE
			LO	MID	HI	LO	LO	HI	LO	LO	LO	HI	LO	MID	HI	LO	
SUPA DRIVES	SD25	25,000	Nm	-	-	-	27,105	29,922	14,961	29,922	29,922	29,922	14,961	29,922	22,442	14,961	29,922
			RPM	-	-	-	35	32	64	48	64	64	128	64	96	128	128
	SD30	30,000	Nm	33,900	25,425	16,950	33,803	33,803	16,902	33,803	33,803	33,803	16,902	33,803	25,352	16,902	33,803
			RPM	17	25	34	28	28	57	42	57	57	113	57	85	113	113
	SD40	40,000	Nm	42,800	32,100	21,400	42,818	42,755	21,377	42,755	42,755	42,755	21,377	42,755	32,066	21,377	42,755
			RPM	13	20	27	22	22	45	34	45	45	89	45	67	89	89
	SD50	50,000	Nm	54,100	40,575	27,050	54,023	54,023	27,011	54,023	54,023	50,830	25,415	50,830	38,123	25,415	50,830
			RPM	11	16	21	18	18	35	27	35	38	75	38	56	75	75
SD60	60,000	Nm	61,600	46,200	30,800	60,032	60,345	30,173	60,345	60,345	60,345	30,173	60,345	45,259	30,173	60,345	
		RPM	9	14	19	16	16	32	24	32	32	63	32	47	63	63	
SD75	75,000	Nm	61,600	46,200	30,800	75,995	75,369	37,684	75,369	75,369	75,369	37,684	75,369	56,527	37,684	75,369	
		RPM	8	11	15	13	13	25	19	25	25	51	25	38	51	51	
SD95	95,000	Nm	85,500	64,125	42,750	96,026	95,526	47,763	95,526	95,526	95,526	47,763	95,526	71,644	47,763	95,526	
		RPM	7	10	13	10	10	20	15	20	20	40	20	30	40	40	
MEGA DRIVES	MD100	100,000	Nm	106,606	79,954	53,303	106,606	103,225	51,613	103,225	103,225	102,662	51,331	102,662	76,996	51,331	102,662
			RPM	5	8	11	9	9	19	14	19	19	37	19	28	37	37
	MD110	110,000	Nm	116,997	87,748	58,499	116,997	116,997	58,499	116,997	116,997	108,108	54,054	108,108	81,081	54,054	108,108
			RPM	5	7	10	8	8	16	12	16	18	35	18	27	35	35
	MD125	125,000	Nm	130,769	98,077	65,384	130,769	130,769	65,384	130,769	130,769	129,705	64,852	129,705	97,278	64,852	129,705
			RPM	4	7	9	7	7	15	11	15	15	29	15	22	29	29
	MD150	150,000	Nm	147,921	110,941	73,960	147,921	147,921	73,960	147,921	147,921	148,735	74,367	148,735	111,551	74,367	148,735
			RPM	4	6	8	6	6	13	10	13	13	26	13	19	26	26
MD175	175,000	Nm	165,135	123,852	82,568	165,135	165,135	82,568	165,135	165,135	176,028	88,014	176,028	132,021	88,014	176,028	
		RPM	3	5	7	6	6	12	9	12	11	22	11	16	22	22	
MD200	200,000	Nm	206,451	154,838	103,225	206,451	206,451	103,225	206,451	206,451	211,271	105,635	211,271	158,453	105,635	211,271	
		RPM	3	4	6	5	5	9	7	9	9	18	9	14	18	18	
ULTRA DRIVES	UD200	200,000	Nm	201,067	150,800	100,534	-	201,067	100,534	201,067	201,067	190,050	95,025	190,050	142,537	95,025	207,000
			RPM	3	4	6	-	5	10	7	10	10	20	10	15	20	18
	UD225	225,000	Nm	227,484	170,613	113,742	-	227,484	113,742	227,484	227,484	232,805	116,402	232,805	174,603	116,402	232,900
			RPM	3	4	5	-	4	8	6	8	8	16	8	12	16	16
	UD250	250,000	Nm	253,963	190,472	126,982	-	253,963	126,982	253,963	253,963	261,913	130,957	261,913	196,435	130,957	262,000
			RPM	2	3	5	-	4	8	6	8	7	15	7	11	15	15
	UD275	275,000	Nm	285,701	214,275	142,850	-	285,701	142,850	285,701	285,701	278,064	139,032	278,064	208,548	139,032	278,100
			RPM	2	3	4	-	3	7	5	7	7	14	7	10	14	14
UD300	300,000	Nm	317,438	238,079	158,719	-	317,438	158,719	317,438	317,438	310,427	155,214	310,427	232,820	155,214	310,500	
		RPM	2	3	4	-	3	6	5	6	6	12	6	9	12	12	

Speed Options SS = Single Speed 2S = Two Speed 3S = Three Speed  
 RPM High Low/High Low/Mid/High

Chart shows all torques @ 240Bar. Speed shown is rpm @ max torque.  
 For more detailed info please contact Digga.

## Swoosh Valve - Screw Anchor Bypass Valve

A revolutionary flow reversal bypass valve called a 'swoosh' valve is fitted to the manifold to control the rapid induced decompression of oil caused by the application of screw anchoring.

**I-DRIVE**

Optional extra fitted to the new "I-Drives" manifold system.

### Features:

- > Protects motor from rapid decompression of oil.



## Diggalign - Drilling Alignment System

The Diggalign system indicates when the drilling attachment is vertical (plumb). Mounted inside the hood, Diggalign monitors forward/aft and side to side positioning.

**DIGGALIGN**  
AUGER ALIGNMENT SYSTEM

### How it works:

If the drilling attachment moves off centre the Diggalign system will alert the operator by illuminating the yellow LED lights, allowing the operator to return the auger to a vertical and plumb position. Once the operator corrects this condition, the green centre LED will illuminate again.

### Digital display units are available in:

- > Standard definition - 2° Increments "suitable for drives and piles under 5-6mtrs"
- > High definition - 0.5° Increments "suitable for drives and piles over 5-6mtrs"

### Features:

- > Easy read LED display.
- > Micro Chip inclinometer.
- > Quality Duetsch plug connections.
- > Range of harness lengths available.
- > Can be fitted to all machine types.



## Rhino Hitch

Specifically designed to handle the torsional loads of anchors and screw piling. The Rhino hitch allows the operator to cradle the drive up to a 90 degree angle for easy connection to augers or anchors.

**I-DRIVE**

### Features:

- > Extra heavy duty, fully engineered design.
- > Premium grade steel.
- > Highly efficient.
- > Compact.



## Bigfoot Trencher Range

A compact, yet powerful planetary drive trencher fitted with an adjustable skid foot to maintain consistent digging depths and a single spoil removal auger for efficient spoil removal to one side of the trench.

### Features:

- > Quality Digga New Generation gearbox & motor.
- > High quality bearings and components.
- > Full range of chain options available.
- > Frame can be side shifted for digging close to permanent structures ie; buildings, trees etc.

### Ideal Use:

Pipe laying for irrigation, underground power and communications, road repairs, removal of trees and general construction.

## Optional - Xtra Drive

Xtra Drive is an optional extra attached to the motor to keep its speed nearly constant. Xtra drive stores energy to provide more power when needed.



The Xtra Drives stored inertia keeps the speed from decreasing quickly.

*Extra drive recommended for excavators with low flow.*

## Mini Bigfoot Trencher

### Excavators up to 1.2T

The new Digga lightweight trencher delivers maximum performance and quality at only 145kgs - designed specifically for excavators up to 1.2T, or those wanting a lighter weight trencher with maximum efficiency. This is the lightest, most compact, power packed mini trencher on the market today.

## Bigfoot Trencher

### Excavators 1.2T - 4.5T

Ideal for Excavators from 1.2 to 4.5T with flows from 30 - 75 lpm. Bigfoot is suitable for trenching 750mm to 900mm digging depth and 200mm digging width, fitted with a 1.654" chain.

## Bigfoot XD Trencher

### Excavators 4.5T - 8T

Ideal for excavators from 4.5 to 8T with flows from 60 - 115 lpm, Bigfoot XD is suitable for heavy duty trenching up to 1200mm digging depth and 300mm digging width, fitted with a 2" chain and a heavy duty steel crumber bar.

*Optional Motor upgrade available for machines with flows up to 135 lpm\**

Model	Chain Length	Cutting Depth	Cutting Width	Max Flow (LPM)	Max Pressure (BAR)
Mini BF	750mm	up to 750mm	100 - 200mm	30-55	240
	900mm	up to 900mm	100 - 200mm	30-55	240

Model	Chain Length	Cutting Depth	Cutting Width	Max Flow (LPM)	Max Pressure (BAR)
Bigfoot	750mm	up to 750mm	100 - 200mm	30-60	240
	900mm	up to 900mm	100 - 200mm	40-75	240

Model	Chain Length	Cutting Depth	Cutting Width	Max Flow (LPM)	Max Pressure (BAR)
Bigfoot XD	900mm	up to 900mm	150 - 300mm	60-115	240
	1200mm	up to 1200mm	150 - 300mm	70-115	240



## Hydrive Trencher Range

The Hydrive trencher range are fitted with twin spoil removal augers for efficient spoil removal to both sides of the trench. Spoil augers can be removed for close up trenching.

### Features:

- > Quality Digga New Generation gearbox & motor.
- > High quality bearings and components.
- > Full range of chain options available.
- > Frame can be side shifted for digging close to permanent structures ie; buildings, trees etc.

### Ideal Use:

Pipe laying for irrigation, underground power and communications, road repairs and general construction.

## Chains

All Digga trenchers are available with a variety of chain types and widths to suit your individual needs.

Suits all trencher models.

## Hydrive Trencher

### Excavators from 2.4T - 4.5T

Hydrive trenchers are suitable for trenching up to 1200mm digging depth and 300mm digging width, fitted with a 1.654" chain.

Model	Chain Length	Cutting Depth	Cutting Width	Max Flow (LPM)	Max Pressure (BAR)
Hydrive	900mm	up to 900mm	100 - 300mm	45-75	240
	1200mm	up to 1200mm	100 - 300mm	50-80	240



## Hydrive XD Trencher

### Excavators 4.5T - 8T

Hydrive XD for the serious operator performing heavy duty trenching up to 1200mm digging depth and 350mm digging width. Fitted with a 2" chain and a heavy duty steel crumber bar.

Model	Chain Length	Cutting Depth	Cutting Width	Max Flow (LPM)	Max Pressure (BAR)
Hydrive XD	1200mm	up to 1200mm	150 - 350mm	70-115	240



### Diggatac

The most advanced trencher cutting system in the world today.

This chain will cut through most ground conditions and is able to grind through the hardest of shale. Diggatac provides extended tooth life and reduced vibration for machine and operator, particularly when starting in tough conditions.



### Combo

A full Diggatac Chain with additional 30% Cup teeth. Cup teeth can be removed to retain full Diggatac chain. Able to cut through soil, tree root, shale and rocky grounds. Excellent for wet clumpy soils.



### Frost

Cup tooth on every station of the chain. Chain for clean ground with some tree root, gives a chain saw effect, can cut through small roots.



### Earth

Cup tooth on every second station of the chain. Only for soft clean ground.



## Magnum Mulcher

The Digga Magnum Mulcher provides High Flow Skid Steer Loaders & Excavators up to 20 tonne with the versatility of grinding small and large material, trees or brush, even above ground stumps with just one operator. Ideal for clearing firebreaks, land clearing, maintenance of park or forestry trails, vegetation management and re-mediation.

### Features:

- > 165 hp adjustable bent axis piston motor.
- > Reversible/replaceable carbide hammers.
- > Process 6-8" trees intermittently & plane stumps up to 12" diameter to grade level.
- > Grind mulches/shreds trees, brush and debris to the optimum size for faster decomposition of material back into the soil.
- > Front mounted hydraulic deflector door, adjustable push bar and hydraulic pressure gauge.
- > Rotor operates at 2,000 RPM with a four second recovery time from dead stall stop.
- > 100mm hydraulic sight pressure gauge easily viewed from cab.
- > In built hydraulic air cooler.

Rec Flow Range (LPM)	115 - 230
Max Pressure (BAR)	240



## Slasha

Grass slashing attachment for effective cutting and clearing of grass and low ground shrubbery.

### Features:

- > Twin blade, dual rotation, single cutting bar, 1500mm (5') wide or 1800mm (6') wide.
- > Rounded side skids for smoother manoeuvrability over uneven terrain.
- > Adjustable height 110 - 150mm.
- > Incorporating a new frame allowing the hitch to be bolted on to the Slasha.
- > New Design motor cage to allow for easy fitment of an excavator hitch.
- > Centre balanced design for easy use with your excavator.
- > Includes rear mounted positioning for a skid steer frame

	No Jockey Wheel	With Jockey Wheel
Max Flow (LPM)	50 - 115	50 - 115
Max Pressure (BAR)	205	205
Weight (kgs)	418	441



## Compaction Wheel

The Digga compaction wheel, designed for easy compaction of dirt back into the trench.

### Features:

- > Heavy duty durable hammers.
- > Available in 4 trench widths; 100mm, 150mm, 200mm and 250mm (matching the Digga trench widths)
- > Fully sealed self aligning bearings ensuring longer product life.
- > 100% Australian manufactured bearing housing ensuring greater protection for your bearings.

Width	Diameter	Hammer (QTY)	Weight (kgs)
100mm	600mm	20	143
150mm	600mm	30	165
200mm	600mm	40	185
250mm	600mm	50	207





**Also by Digga**

Digga have a complete range of attachments to suit most machine types. For further information and brochures please contact Digga.



- Mini Loaders
- Skid Steers
- Small Loaders
- Excavators
- Telehandlers
- Wheeled Loaders
- Large Excavators
- Back Hoes



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