DIGGA

SCREW ANCHOR & FOUNDATION DRIVES

MACHINERY ATTACHMENTS EUROPE | WWW.DIGGAEUROPE.COM

2023-V2


DIGGA®
WE ARE DRIVEN TO MAKE YOU SUCCEED
WITH PROVEN EXPERTISE IN PROVIDING ATTACHMENT SOLUTIONS.

A TRUSTED REPUTATION FOR DELIVERING QUALITY PRODUCTS THAT PERFORM

Founded in 1981 in Brisbane, Australia, Digga specialise in the design & manufacture of planetary gearboxes & machinery attachments for the earthmoving & construction industry. Digga have 5 company owned facilities around the world to ensure prompt and efficient service through its extensive professional global dealer network.

DIGGA is your trusted source for new machinery attachments for the earthmoving and construction equipment industry

DIGGA MANUFACTURING – NOT JUST ASSEMBLERS WE ARE THE ORIGINAL MANUFACTURER

Europe - Berkshire, Hungerford

100% Privately owned, Digga is the largest manufacturer and exporter of planetary gearboxes for machinery attachments. Formed in 1981 by founder Stewart Wright, Digga pioneered pendulum drilling in Australia and today produce the largest range of compact high torque planetary drives for the pendulum drilling and attachment industry. As the largest attachment manufacturer in Australia, globally Digga specialises in drilling and trenching attachment solutions.

Not just an assembler, Digga is the original gearbox designer and manufacturer. Our products are built in-house to the highest of standards, offering the best product warranties in the industry.

As a multi-award winning company, recognised for our innovative approach to leading edge design and superior manufacturing quality, Digga is committed to providing total solutions worldwide for drilling and trenching.

Digga products are distributed by a dedicated professional dealer network. Local country manufacturing and professional support ensures fast and efficient service.

Our Europe factory boasts a state of the art 1,200sqm (13,000 sq ft) facility in Hungerford, Berkshire.

With 5 company owned manufacturing facilities around the world, Digga offers 24hr a day engineering support.

OUR PHILOSOPHY

Simply, to help our customers be successful.

The trend these days is for companies to outsource to low cost countries. We endeavour to make an affordable product, but are not willing to sacrifice our goals, or our product quality.

QUALITY
SERVICE
RELIABILITY
GUARANTEED

PIONEERING NEW MARKETS

AUGER DRILLING FOR EXCAVATORS

- Excellent return on investment – Maximum performance with minimal wear and tear.
- Fast quick attach from your bucket or breaker to a drilling machine.
- Drill large diameter holes in most ground conditions including frozen ground and rock.

SCREW ANCHOR INSTALLATION

- Not just a gearbox supplier, Digga supply a package of total solutions to screw anchor manufacturers for optimum performance.
- Manufacturers and installers.

ROCK DRILLING

- Providing the right solutions for a variety of host machines. Choose from our multipurpose combination augers for all ground conditions or dedicated rock augers for heavy duty rock drilling.

FOUNDATION DRILLING

- Turning Excavators into multipurpose high return tool carriers.
- Quick attach, easy connection.
- High performance attachments with great return on investment.

THE MOST ADVANCED ANCHOR DRIVE

SD-XD BUILDS
Standard with Radial Piston Motor, Pressure Relief Valve & Energy Control Valve

THE DIGGA DIFFERENCE

INTEGRATED SOLUTIONS

All valving and hoses are contained inside the hood, for optimum efficiency and protection of the equipment.

- Integrated Pressure Relief valve fitted standand on all DIGGA/BELL series motors.
- Pressure Relief valve mounted to all 2 Speed VIS and Radial Piston motors.

MORE COMPACT, LESS MAINTENANCE

No compromise in quality. Gears are precision machined from a high grade alloy steel, specifically formulated for the manufacturing of high performance gears.

A compact design allows for greater length under the drive for augers or screw anchor installation. Digga drives can go down the hole, for added depth when drilling.

HIGHEST SIDE LOAD RATINGS

More than double the side load capacity of any other gearbox on the market. Under torque load, the Digga two piece shaft design ensures there is no increased load on the bearings. The bearings do the job they were designed for, efficiently maintaining axial and side loading.

2 PIECE SHAFT DESIGN

The Digga shaft is a separate component to the planetary carrier, isolating the planetary gears from pushing, pulling, and bending forces generated by the machine.

- Digga drives have the highest shaft pullout rating in the industry, with a heavy duty custom designed lock nut.
- Lifetime warranty on shaft pullout.

EXTENSIVE WARRANTY

Digga offers industry leading warranty of up to 3 years on gearboxes and 2 years for motors on selected drives. Enjoy peace of mind when purchasing a Digga ScrewAnchor Drive.

A-SERIES DRIVES
Standard with Danfoss Geroler Motor, Pressure Relief Valve & Energy Control Valve

YOU HAVE EVER OWNED OR OPERATED

THE RIGHT POWER SOLUTION

INTEGRATED MOTOR AND OUTPUT HOUSING

In a joint effort with Danfoss, DIGGA have developed a range of custom hydraulic motors. Utilising Danfoss Geroler technology, and integrating the input housing allows the gearbox sungear direct connection into the motor. Integration of the pressure relief value and top porting of hoses to the motor head provides maximum protection to all hoses and valving. The new design significantly reduces the weight and overall length of the drives.

VIS TWO SPEED

As a high quality motor manufactured by Danfoss, the VIS series is 50% more efficient than conventional gear motors. It is contamination resistant, capable of 70kW in power (95hp), and tolerates higher pressures than the 6K Series.

2-Speed motors feature an increase of 50% in high speed/low torque applications.

RADIAL PISTON

Volumetrically superior to any other motor on the market today, and more contamination resistant than axial piston motors, it is capable of withstanding case drain pressures three times our nearest competitor.

Ratio - 2:1 two speed.

PATENTED ANTI KICK-BACK VALVE (ECV)

Screw anchors are installed to an engineering torque specification. When the installation torque is reached and the operator stops the machine, the pile has built up rotational energy (somewhat like a rubber band on a wind-up model plane). The anchor momentarily 'kicks back', forcing the energy back up the anchor through the drive shaft to the gearbox, and through to the hydraulic motor. This action causes the motor to effectively turn into a high speed pump, generating cavitation of the motor, in turn causing motor failure and expensive replacement costs. DIGGA's ECV controls the release of this energy.

HALO

THE FUTURE OF DRILLING

FOR PDD-PD50 EARTH DRILLS

PLANTWORX 2023 YOUR CONSTRUCTION SHOW

INNOVATION AWARDS

WINNER

WHAT IS HALO?

An alignment system which is built into the drive unit hood. A band of green LED lights indicate when the unit is in a plumb position, while a sequence of red and green lights guides the operator back to plumb, when the unit goes out of alignment. Available for PDD-PD50. Complete range coming soon.

WHY YOU NEED HALO

- ✓ DRILL STRAIGHT / AVOID SIDE LOAD
- ✓ NEVER TAKE YOUR EYES OFF THE JOB
- ✓ NO SETUP WITH BATTERY OPTION
- ✓ REDUCE IN-HOLE ANGLE CORRECTIONS
- ✓ USE LESS CONCRETE
- ✓ REDUCE COSTS & INCREASE EFFICIENCY
- ✓ NO NEED FOR A SPOTTER

OUR RANGE

LIGHTWEIGHT & MINI MACHINE
SCREW ANCHOR DRIVES

UP TO 8,000NM
LIGHTWEIGHT & MINI MACHINE DRIVES
› SINGLE SPEED ... PAGE 8

4,000 - 40,000NM
PREMIUM ANCHOR DRIVES
› SINGLE SPEED ... PAGE 9
› TWO SPEED ... PAGE 10

45,000 - 90,000NM
SUPA ANCHOR DRIVES
› TWO SPEED ... PAGE 12

115,000 - 200,000NM
MEGA ANCHOR DRIVES
› TWO SPEED ... PAGE 12

190,000 - 300,000NM
ULTRA ANCHOR DRIVES
› TWO SPEED ... PAGE 13

260,000 - 500,000NM
XTREME ANCHOR DRIVES
› TWO SPEED ... PAGE 13

QUICK REFERENCE CHART

MODELS	MACHINE	TORQUE RANGE
Lightweight Drives	N/A	Up to 8,000 Nm
Premium Drives	4-30 tonnes	4,000 - 40,000 Nm
Supa Drives	15-30 tonnes	45,000 - 90,000 Nm
Mega Drives	20 - 40 tonnes	115,000 - 200,000 Nm
Ultra Drives	30 - 50 tonnes	190,000 - 300,000 Nm
Xtreme Drives	35- 80 tonnes	260,000 - 500,000 Nm

OUR SCREW ANCHOR TORQUE HEADS FOR MINI LOADERS AND MINI MACHINES UP TO 3.5 TONNES ARE ADEAL FOR CONFINED OR LOW ACCESS SITES.

MINI MACHINE

MODEL	MM-14K
Theoretical Torque (Nm)	14,206 NM @ 205 Bar
Max Continuous Pressure - Do not exceed *	205 Bar @ 70 lpm
Max Flow - Do not exceed *	70 lpm @ 205 Bar
Max Continuous Power - Do not exceed *	33 KW (44 hp)
PRV Fitted	N/A
Standard Output Shaft	63.5mm Hex
Weight (kg)	63
Overall Length (mm)	612
Diameter (mm)	290
HALO Available	Yes

LIGHTWEIGHT SCREW ANCHOR DRIVES FOR THE INSTALLATION OF SCREW PILES IN CONFINED OR LOW ACCESS SITES, SUCH AS CRAWL SPACES. THE UNITS CAN BE POWERED BY PORTABLE HYDRAULIC POWER PACKS.

LIGHTWEIGHT

MODEL	HH-6K
Theoretical Torque (Nm)	8,849 @ 142 Bar
Max Continuous Pressure - Do not exceed *	145 Bar @ 42 lpm
Max Flow - Do not exceed *	57 lpm @ 159 Bar
Max Continuous Power - Do not exceed *	15 Kw (20 hp)
PRV Fitted	INCLUDED
Standard Output Shaft	50.8mm Hex
Weight (kg)	40
Overall Length (mm)	500
Diameter (mm)	240

* Output speed and torque specifications are THEORETICAL. Speed and torque output are dependent on the overall system efficiencies associated with the prime mover's hydraulic system. This document should be used for information and comparative purposes only.

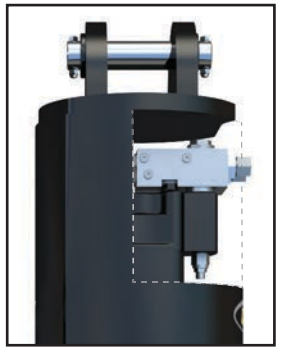
SINGLE SPEED 4,000 - 40,000 NM

PREMIUM DRIVES 4,000 - 6,000 NM

MODEL	PD4HF	PD6HF
Max Torque @ 240 Bar (Nm)	4,473	5,634
Motor Type	6K Bell Danfoss	6K Bell Danfoss
Max Continuous Pressure - Do not exceed *	240 Bar @ 130 lpm	
Max Flow - Do not exceed *	170 lpm @ 180 Bar	210 lpm @ 145 Bar
Max Continuous Power (Kw) - Do not exceed *	50 Kw (67 hp)	
PRV Fitted	Optional	Optional
ECV Fitted	NA	NA
Standard Output Shaft	75mm Square	75mm Square
Weight (mm)	149	149
Overall Length (mm)	950	950
DIA (mm)	290	290
HALO Available	Yes	Yes

PREMIUM DRIVES 7,000 - 12,000 NM

PD8HF	PD10HF	PD12-SV
7,136	9,690	11,268
6K Bell Danfoss	6K Bell Danfoss	6K Bell Danfoss
	240 Bar @ 130 lpm	
	230 lpm @ 130 Bar	
	50 Kw (67 hp)	
Optional	Optional	Included
NA	NA	Included
75mm Square	75mm Square	75mm Square
149	149	149
950	950	950
290	290	290
Yes	Yes	Yes



INTEGRATED PRESSURE RELIEF AND ENERGY CONTROL VALVE STANDARD ON DEDICATED DIGGA ANCHOR DRIVES PD12 AND ABOVE

PREMIUM DRIVES 13,000 - 23,000 NM

MODEL	PD15-SV	PD18-SV	PD22-SV
Max Torque @ 240 Bar (Nm)	13,918	17,630	22,176
Motor Type	6K Bell Danfoss	6K Bell Danfoss	6K Bell Danfoss
Max Continuous Pressure - Do not exceed *		240 Bar @ 130 lpm	
Max Flow - Do not exceed *	210 lpm @ 145 Bar	230 lpm @ 130 Bar	230 lpm @ 130 Bar
Max Continuous Power (Kw) - Do not exceed *		50 Kw (67 hp)	
PRV Fitted	Included	Included	Included
ECV Fitted	Included	Included	Included
Standard Output Shaft	75mm Square	75mm Square	75mm Square
Weight (mm)	176	176	176
Overall Length (mm)	1006	1006	1006
DIA (mm)	290	290	290
HALO Available	Yes	Yes	Yes

PREMIUM DRIVES 24,000 - 40,000 NM

PD25-SV	PD30-SV	PD40-SV	PD50-SV
26,267	30,543	33,041	38,420
6K Bell Danfoss	6K Bell Danfoss	6K Bell Danfoss	6K Bell Danfoss
240 Bar @ 130 lpm			
230 lpm @ 130 Bar			
50 Kw (67 hp)			
Included	Included	Included	Included
Included	Included	Included	Included
100mm Square	100mm Square	100mm Square	100mm Square
300	300	300	300
1152	1152	1152	1152
355	355	355	355
Yes	Yes	Yes	Yes

TWO SPEED 3,000 - 12,000 NM

PREMIUM DRIVES 3,000 - 6,000 NM

MODEL	PDT3	PDT6	PDT8
Max Torque @ 240 Bar (Nm)	2,954	4,664	5,635
Motor Type	2K Bell Danfoss	2K Bell Danfoss	2K Bell Danfoss
Max Continuous Pressure - Do Not Exceed *		200 bar @ 76 lpm	
Max Flow - Do Not Exceed *		76 lpm @ 200 bar	
Max Continuous Power (Kw) - Do Not Exceed *		25 Kw (34 hp)	
PRV Fitted	Included	Included	Included
ECV Fitted	NA	NA	NA
Standard Output Shaft	65mm Round	75mm Square	75mm Square
Overall Length (mm)	766	877	883
DIA (mm)	240	240	290
HALO Available	Yes	Yes	Yes

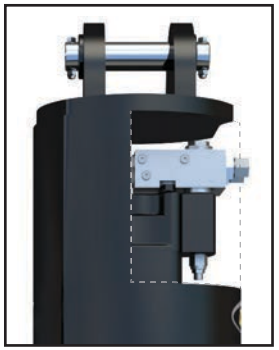
PREMIUM DRIVES 5,000 - 12,000 NM

MODEL	PDT4HF	PDT6HF	PDT8HF	PDT10HF	PDT12-SV
Max Torque @ 240 Bar (Nm)	4,673	5,758	7,881	9,916	11,531
Motor Type	VIS Danfoss	VIS Danfoss	VIS Danfoss	VIS Danfoss	VIS Danfoss
Max Continuous Pressure - Do Not Exceed *			240 Bar @ 150 lpm		
Max Flow - Do Not Exceed *			180 lpm @ 200 Bar		
Max Continuous Power (Kw) - Do Not Exceed *			60 Kw (80 hp)		
PRV Fitted	Included	Included	Included	Included	Included
ECV Fitted	NA	NA	NA	NA	Included
Standard Output Shaft	75mm Square	75mm Square	75mm Square	75mm Square	75mm Square
Overall Length (mm)	910	910	1042	1042	1042
DIA (mm)	340	340	340	340	340
HALO Available	Yes	Yes	Yes	Yes	Yes

TWO SPEED 13,000 - 40,000 NM

PREMIUM DRIVES 18,000 - 23,000 NM

MODEL	PDT18-SV	PDT22-SV
Max Torque @ 240 Bar (Nm)	18,372	22,640
Motor Type	VIS Danfoss	VIS Danfoss
Max Continuous Pressure - Do Not Exceed *	240 Bar @ 180 lpm	
Max Flow - Do Not Exceed *	200 lpm @ 210 Bar	
Max Continuous Power (Kw) - Do Not Exceed *	60 Kw (80 hp)	
PRV Fitted	Included	Included
ECV Fitted	Included	Included
Standard Output Shaft	75mm Square	100mm Square
Overall Length (mm)	1069	1069
DIA (mm)	340	340
HALO Available	Yes	Yes



INTEGRATED PRESSURE RELIEF AND ENERGY CONTROL VALVE STANDARD ON DEDICATED DIGGA ANCHOR DRIVES PD12 AND ABOVE

PREMIUM DRIVES 24,000 - 40,000 NM

MODEL	PDT25-SV	PDT30-SV	PDT40-SV	PDT50-SV
Max Torque @ 240 Bar (Nm)	27,373	31,829	33,733	39,224
Motor Type	VIS Danfoss	VIS Danfoss	VIS Danfoss	VIS Danfoss
Max Continuous Pressure - Do Not Exceed *	240 Bar @ 180 lpm			
Max Flow - Do Not Exceed *	180 lpm @ 200 Bar			
Max Continuous Power (Kw) - Do Not Exceed *	60 Kw (80 hp)			
PRV Fitted	Included	Included	Included	Included
ECV Fitted	Included	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square	100mm Square
Overall Length (mm)	1307	1307	1307	1307
DIA (mm)	355	355	355	355
HALO Available	Yes	Yes	Yes	Yes

TWO SPEED ANCHOR DRIVES

SUPA DRIVES 45,000NM - 90,000NM	SD 45	SD 50	SD 70	SD 80	SD 95
Max Torque @ 240 Bar (Nm)	44,333	51,985	68,018	81,986	91,215
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Max Continuous Pressure - Do Not Exceed *	240 bar @ 380 lpm				
Max Flow - Do Not Exceed *	380 lpm @ 240 bar				
Max Continuous Power (Kw) *	150 Kw (200 hp)				
PRV Fitted	Included	Included	Included	Included	Included
ECV Fitted	Included	Included	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square	100mm Square	100mm Square
Weight (mm)	838	836	836	836	843
Overall Length (mm)	1493	1493	1493	1493	1493
DIA (mm)	600	600	600	600	600

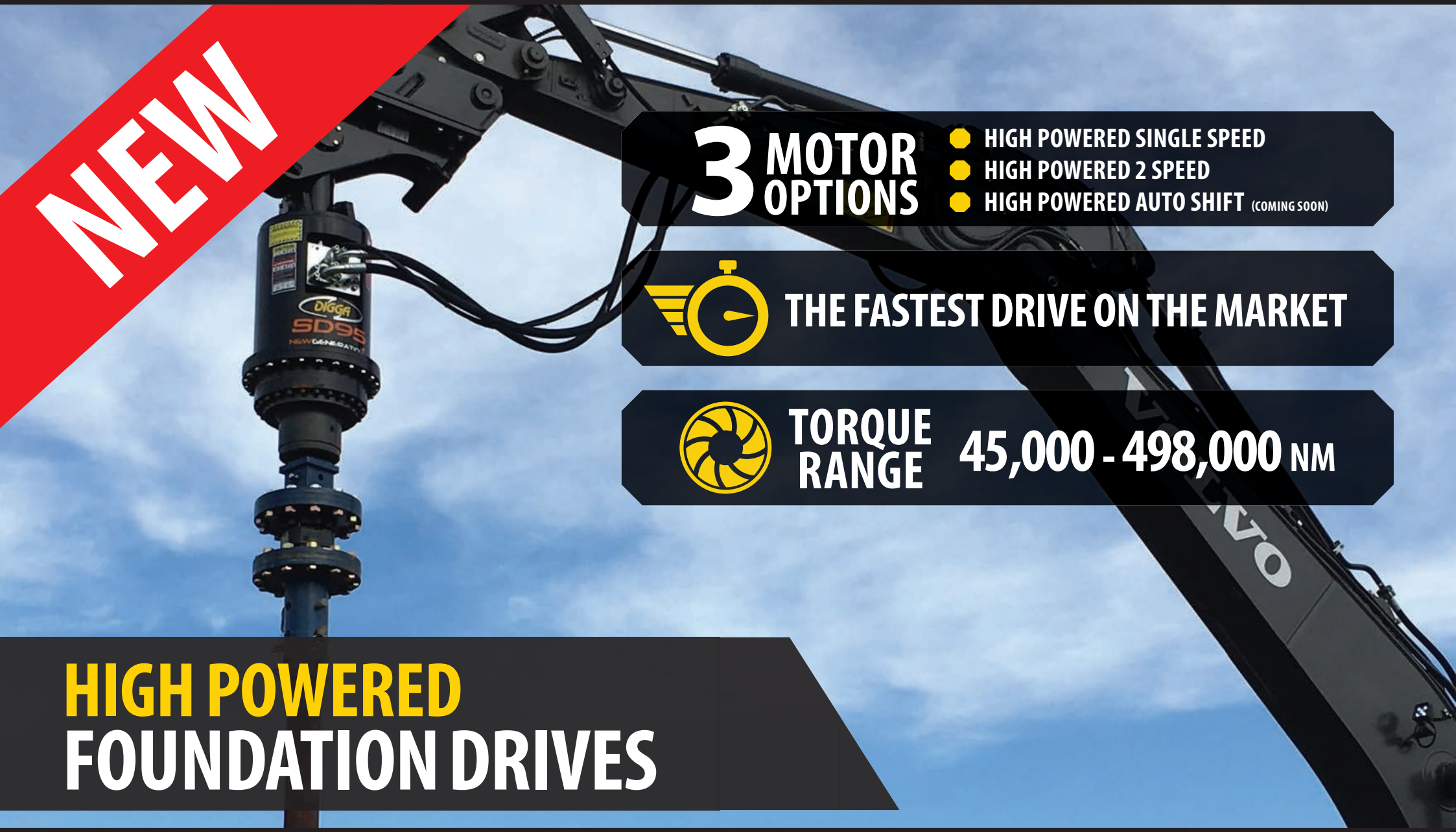
MEGA DRIVES 115,000NM - 200,000NM	MD 110	MD 160	MD 190
Max Torque @ 240 Bar (Nm)	114,395	169,354	198,585
Motor Type	Radial Piston	Radial Piston	Radial Piston
Max Continuous Pressure - Do Not Exceed *	240 bar @ 380 lpm		
Max Flow - Do Not Exceed *	380 lpm @ 240 bar		
Max Continuous Power (Kw) *	150 Kw (200 hp)		
PRV Fitted	Included	Included	Included
ECV Fitted	Included	Included	Included
Standard Output Shaft	130mm Square	130mm Square	130mm Square
Weight (mm)	1028	1191	1194
Overall Length (mm)	1638	1791	1794
DIA (mm)	610	610	610

ANCHOR-FOUNDATION DRIVES TO SUIT 15 - 80 TONNE EXCAVATORS

ULTRA DRIVES 190,000NM - 300,000NM	UD 190	UD 220	UD 250	UD 300
Max Torque @ 240 Bar (Nm)	186,644	207,653	243,495	305,371
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Max Continuous Pressure - Do Not Exceed *	240 bar @ 380 lpm			
Max Flow - Do Not Exceed *	380 lpm @ 240 bar			
Max Continuous Power (Kw) *	150 Kw (200 hp)			
PRV Fitted	Included	Included	Included	Included
ECV Fitted	Included	Included	Included	Included
Standard Output Shaft	150mm Square	150mm Square	150mm Square	150mm Square
Weight (mm)	1194	1573	1573	1573
Overall Length (mm)	1915	1915	1915	1915
DIA (mm)	671	671	671	671

XTREME DRIVES 260,000NM - 500,000NM	XD 270	XD 310	XD 410	XD 500
Max Torque @ 240 Bar (Nm)	259,803	304,646	398,602	480,458
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Max Continuous Pressure - Do Not Exceed *	240 bar @ 380 lpm			
Max Flow - Do Not Exceed *	380 lpm @ 240 bar			
Max Continuous Power (Kw) *	150 Kw (200 hp)			
PRV Fitted	Included	Included	Included	Included
ECV Fitted	Included	Included	Included	Included
Standard Output Shaft	200mm Square	200mm Square	200mm Square	200mm Square
Weight (mm)	2878	2878	2878	2878
Overall Length (mm)	2410	2410	2410	2410
DIA (mm)	820	820	820	820

HIGH SPEED • HIGH PRESSURE • HIGH PERFORMANCE



3 MOTOR OPTIONS

- HIGH POWERED SINGLE SPEED
- HIGH POWERED 2 SPEED
- HIGH POWERED AUTO SHIFT (COMING SOON)

THE FASTEST DRIVE ON THE MARKET

TORQUE RANGE 45,000 - 498,000 NM

HIGH POWERED FOUNDATION DRIVES

HIGH POWERED
SINGLE SPEED DRIVES - 45,000 NM - 498,000 NM

	SD45HPS	SD50HPS	SD70HPS	SD80HPS	SD95HPS
Max Torque (Nm)	45,959	53,891	70,512	84,992	94,559
Max Speed (RPM)	45	39	30	25	22
Max Flow (lpm)	380 lpm @ 240 bar				
Max Pressure - Do Not Exceed	345 bar @ 266 lpm				
Max Power	150 Kw (200 hp)				
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square	100mm Square	100mm Square

	MD110HPS	MD160HPS	MD190HPS
Max Torque (Nm)	118,588	175,562	205,864
Max Speed (RPM)	18	12	10
Max Flow (lpm)	380 lpm @ 240 bar		
Max Pressure - Do Not Exceed	345 bar @ 266 lpm		
Max Power	150 Kw (200 hp)		
Motor Type	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included
Energy Control Valve	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square

	UD190HPS	UD220HPS	UD250HP	UD300HPS
Max Torque (Nm)	193,486	215,266	269,968	316,566
Max Speed (RPM)	11	10	8	7
Max Flow (lpm)	380 lpm @ 240 bar			
Max Pressure - Do Not Exceed	345 bar @ 266 lpm			
Max Power	150 Kw (200 hp)			
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included
Standard Output Shaft	130mm Square	130mm Square	130mm Square	130mm Square

	XD270HPS	XD310HPS	XD410HPS	XD500HPS
Max Torque (Nm)	269,327	315,814	413,214	498,071
Max Speed (RPM)	8	7	5	4
Max Flow (lpm)	380 lpm @ 240 bar			
Max Pressure - Do Not Exceed	345 bar @ 266 lpm			
Max Power	150 Kw (200 hp)			
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included
Standard Output Shaft	150mm Square	150mm Square	150mm Square	150mm Square

HIGH POWERED
2-SPEED DRIVES - 45,000 NM - 94,000 NM

HP SUPA DRIVES	SD45HPT	SD50HPT	SD70HPT	SD80HPT	SD95HPT
Max Torque (Nm)	45,629	53,505	70,007	84,383	93,882
Max Speed (RPM) - Low Torque	78	66	51	42	38
Max Speed (RPM) - High Torque	46	39	30	25	22
Max Flow (lpm)	380 lpm @ 240 bar				
Max Pressure - Do Not Exceed	345 bar @ 266 lpm				
Max Power	150 Kw (200 hp)				
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included	Included
Standard Output Shaft	100mm Square	100mm Square	100mm Square	100mm Square	100mm Square

HIGH POWERED DRIVES OPERATE AT A MAXIMUM PRESSURE OF 345 BAR.
SPEED & PERFORMANCE WITHOUT DETUNING YOUR MACHINE.

CONTACT DIGGA FOR MORE INFORMATION

HIGH POWERED
2-SPEED DRIVES - 110,000 NM - 315,000 NM

HP MEGA DRIVES	MD110HPT	MD160HPT	MD190HPT
Max Torque (Nm)	117,739	174,304	204,390
Max Speed (RPM) - Low Torque	30	20	17
Max Speed (RPM) - High Torque	18	12	10
Max Flow (lpm)		380 lpm @ 240 bar	
Max Pressure - Do Not Exceed		345 bar @ 266 lpm	
Max Power		150 Kw (200 hp)	
Motor Type	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included
Energy Control Valve	Included	Included	Included
Standard Output Shaft	130mm Square	130mm Square	130mm Square

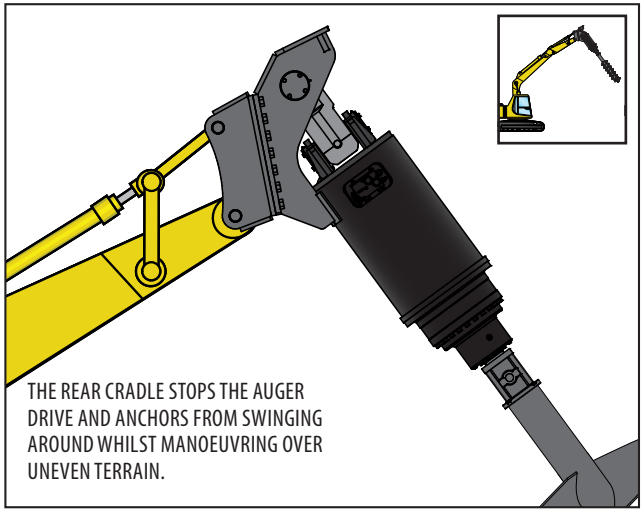
HP ULTRA DRIVES	UD190HPT	UD220HPT	UD250HPT	UD300HPT
Max Torque (Nm)	192,100	213,724	250,613	314,298
Max Speed (RPM) - Low Torque	18	17	14	11
Max Speed (RPM) - High Torque	11	10	8	7
Max Flow (lpm)		380 lpm @ 240 bar		
Max Pressure - Do Not Exceed		345 bar @ 266 lpm		
Max Power		150 Kw (200 hp)		
Motor Type	Radial Piston	Radial Piston	Radial Piston	Radial Piston
Pressure Relief Valve	Included	Included	Included	Included
Energy Control Valve	Included	Included	Included	Included
Standard Output Shaft	150mm Square	150mm Square	150mm Square	150mm Square

RYNO PILING HITCH

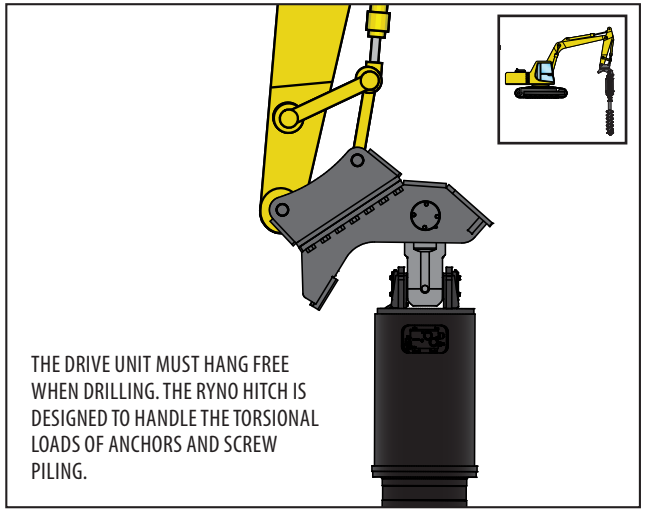
TO SUIT PD12-XD500 DRIVE UNITS

DEVELOPED FOR FASTER CONNECTION TO THE AUGER OR SCREW PILE, THE RYNO HITCH HAS BEEN DESIGNED TO HANDLE THE TORSIONAL LOADS OF LARGE AUGERS AND HELICAL SCREW PILING.

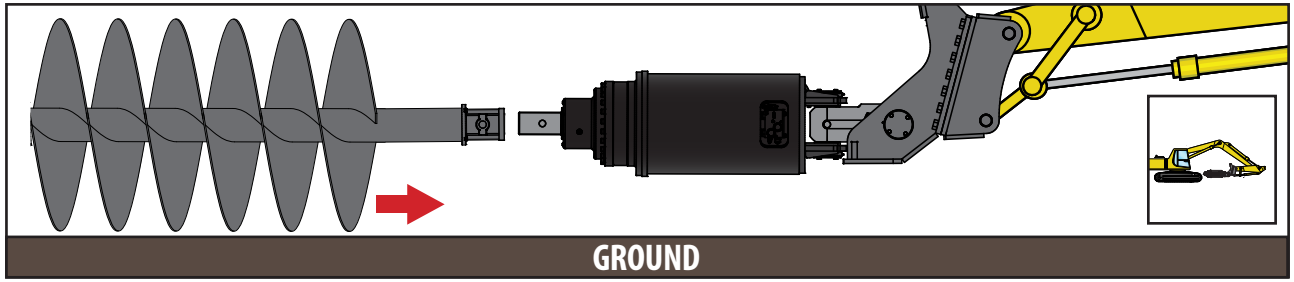
The Ryno Hitch front cradle allows operators to angle the drive unit up to 90° for easy connection to augers or anchors while a rear cradle stops the drive or anchor from swinging whilst manoeuvring over uneven terrain.



THE REAR CRADLE STOPS THE AUGER DRIVE AND ANCHORS FROM SWINGING AROUND WHILST MANOEUVRING OVER UNEVEN TERRAIN.



THE DRIVE UNIT MUST HANG FREE WHEN DRILLING. THE RYNO HITCH IS DESIGNED TO HANDLE THE TORSIONAL LOADS OF ANCHORS AND SCREW PILING.



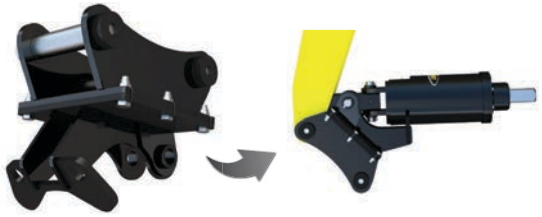
EXCAVATOR HITCHES

DIGGA MANUFACTURES A RANGE OF HITCHES FOR EXCAVATORS UP TO 90T. CONFIGURATIONS INCLUDE FIXED AND LOOSE PIN.

DOUBLE PIN | CRADLE HITCH

BACKHOE HITCH

Designed to provide safer drive unit transportation between holes, the backhoe cradle hitch is available with optional carry strap.



SKID STEER LOADER FRAME

A side-shift frame is available for most skid steer loaders, backhoes, and telehandlers. The side-shift frames feature a slide cradle which allows the operator to offset the attachment mounted on the frame, enabling trenching and drilling close to structures. Other frames available upon request.

TELESCOPIC EXTENSION MOUNT

DESIGNED TO BE USED WITH DRIVES UP TO 21,000 NM. ITS UNIQUE DESIGN GIVES THE OPERATOR GREATER RANGE AND VISIBILITY.

TPE BOOM EXTENSION

MINI PILING EXTENSION

EFFECTIVELY INCREASE YOUR REACH FOR ADDED DRILLING DEPTH. ENGINEERED FOR UP TO 4,473 NM .

REACH FURTHER

EFFECTIVELY INCREASE YOUR REACH FOR ADDED DRILLING DEPTH, OR HELICAL PILE INSTALLATION

TORQUE MEASURING SYSTEMS

PRESSURE DIFFERENTIAL GAUGE

WHEN SCREW ANCHORS / PIERS ARE INSTALLED, A TORQUE READING IS REQUIRED TO ENSURE THAT THE CORRECT INSTALLATION TORQUE HAS BEEN ACHIEVED.

Traditionally, torque was calculated by a single sensor gauge located at the hydraulic pump in the excavator. Pressure is lost as the oil travels up the boom to the Drive Unit and back pressure is then created as the oil is transferred back to the parent machine. Pressure readings can be out by as much as 15-20% by the use of a single gauge system.

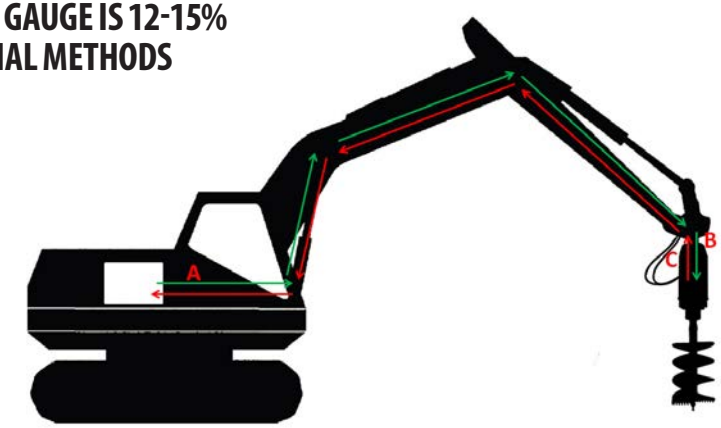
DIGGA OFFER TWO METHODS FOR CALCULATING INSTALLATION TORQUE.

A DIFFERENTIAL PRESSURE GAUGE TO CALCULATE THE DIFFERENCE OF PRESSURE MEASUREMENTS BETWEEN TWO POINTS...

Digga's Pressure Differential comprises of two sensors and an electronic display. The first sensor is located on the supply line at the entry to the drive unit (B). The second sensor is located on the return line where oil leaves the drive unit (C). A microprocessor calculates the 'actual usable' pressure using these two sensors and displays this reading.

DIGGA'S PRESSURE DIFFERENTIAL GAUGE IS 12-15% MORE ACCURATE THAN TRADITIONAL METHODS

The reading is displayed in BAR or PSI, depending on the option chosen at the time of purchase. This figure is correlated to a supplied torque chart, to give the pressure reading in Nm or Ft/Lb.



FEATURES

- Clear 4-digit 7-segment LED display.
- Accuracy ≤ ± 0.5%.
- RS232 interface.
- Voltage supply - 12 .. 32V DC.
- Option for PT100 sensor input or frequency input.
- Optional PSI or BAR display value.

SPECIFICATIONS	
Control panel housing (mm)	96 x 48 x 109
Control panel cut-out (mm)	92 (+0.8) x 45 (+0.6)
Front panel thickness (mm)	15
Minimum installation depth (mm)	121

TORQUE HUB

SCREW ANCHOR MONITOR AND DATA LOGGER

Digga's Torque Hub implements the latest available technology to deliver 99%+ accurate torque readings. The Torque Hub measures not only torque, but also inclination. The data is then sent over a robust 2.4GHz RF FHSS signal to the handheld display / datalogger. This torque monitoring and data logging device is intended to replace a Kelly Bar Adaptor, or mount directly onto the drive head output shaft. It suits 75mm Square & 100mm Square shaft sizes.

TORQUE SPOOL

SCREW ANCHOR MONITOR AND DATA LOGGER

Like the Torque Hub, the Torque Spool also measures torque and inclination. The difference between the two is that this torque monitoring and data logging device is mounted between the output shaft and drive tool. Utilising the same technology as the Torque Hub, the Torque Spool also delivers over 99% accurate torque readings, with recorded data sent over a robust 2.4 GHz RF FHSS signal to the handheld display / datalogger.

REPORTING CAPABILITIES

Digga's Torque Hub and Torque Spool reports are exportable directly from the display, either via email (using a smartphone with its' hotspot enabled), or through the onboard USB port (connected to a flash drive).

SIMPLE INSTALLATION ON A WIDE RANGE OF SCREW ANCHOR DRIVES

Torque Hubs are available for drive units with 75mm and 100mm square shafts, and torque ratings from 13,000Nm-95,900Nm. - including Digga's PD15-PD25 and SD range of drives. Torque Spools have been specifically descigned to suit larger screw anchor drives, like Digga's MD, UD and XD range with torques between 110,000 Nm and 500,000 Nm.

MORE THAN JUST TORQUE

Monitor, record, and transfer job details with ease with a WiFi capable 7" touch-enabled display and rugged IP67 ABS casing. Circuit boards are fully potted, sealed, gasketed, and cushioned to ensure maximum protection and long life. Record torque, pile depth, angle, date, and time with additional user-defined export field options available. Reports are exported as both bare data (.dat file – which opens in Microsoft Excel), and as a PDF line chart.

TRUE CUT AUGERS

DIGGA AUGERS CUT A TRUE SIZED HOLE, NOT AN OVERSIZED HOLE

Digga's 'True Cut' design ensures a 300mm auger drills a 300mm hole. Built tough with a heavy duty pipe, shallow pitch flights, and high efficiency cutting heads will maximise your drilling performance. Digga augers are fitted with a range of quality wearparts to provide superior wear and performance.

EARTH AUGER
(A4, A6, A8)
BLADED TEETH
EARTH/CLAY/SHALE

ALL PURPOSE EARTH AUGER FOR GENERAL DRILLING

Efficient and cost effective auger for general purpose drilling in earth, clay, shale, and soft rock. Available in earth or multi-facet tungsten (MFT) to provide longer wear life and greater cutting performance.

ROCK/COMBINATION AUGER
(RC4, RC6, RC8, RC10, RC11)
TAPER TEETH
(ALL GROUND CONDITIONS)

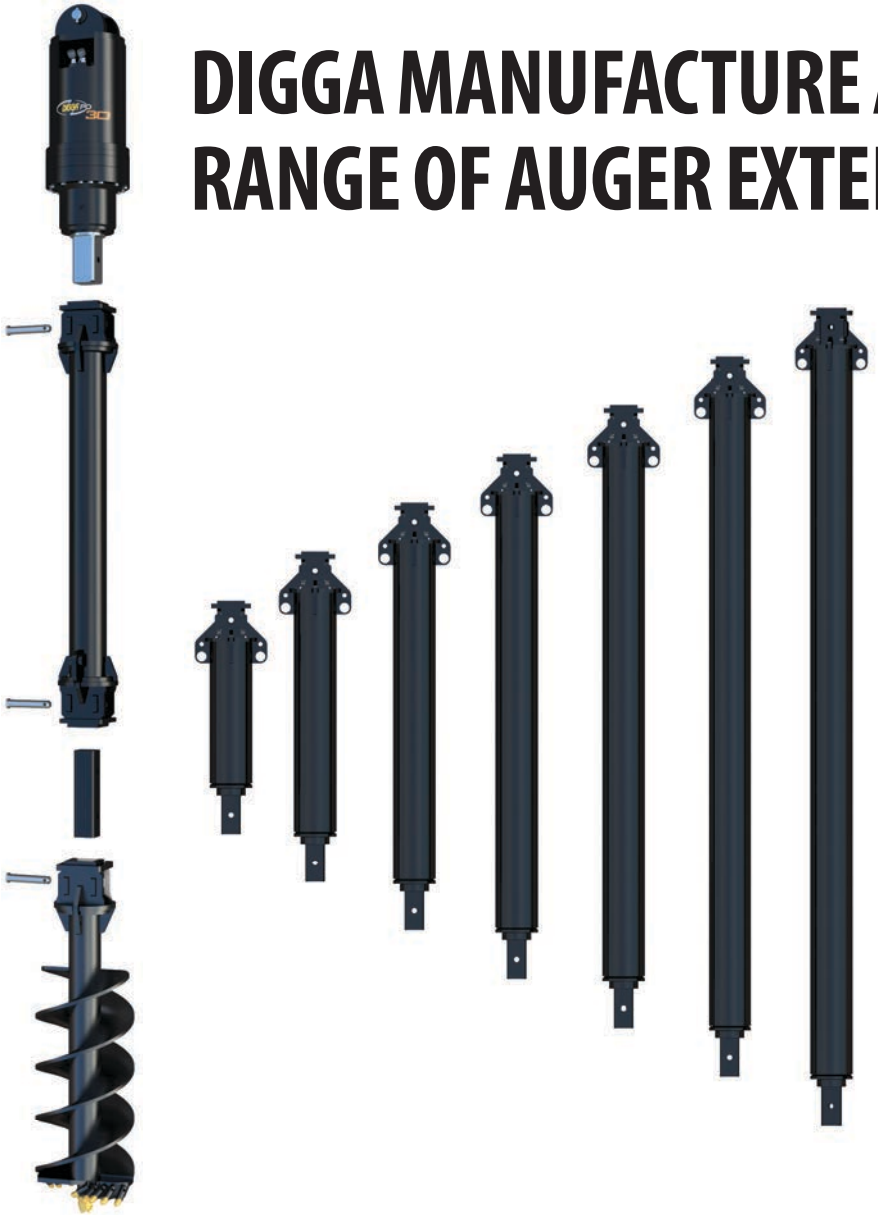
TAPER TOOTH DESIGN THE ULTIMATE ALL- PERFORMANCE AUGER

The angle and geometry of the teeth to the pilot is the key to the efficiency in which these augers perform. Essentially two augers in one, this auger is fitted with tungsten taper teeth for ultimate ripping ability in fracturable rock, permafrost, and general earth conditions.

ROCK AUGER
(DR4, DR6, DR8, DR11)
ROTATING ROCK PICKS
(SHALE/ FRACTURABLE ROCK)

HEAVY DUTY AUGER FOR DEDICATED ROCK DRILLING

DIGGA'S Rock augers - Heavy duty engineered design, with high efficiency cutting heads to maximise rock drilling performance. Fitted with a range of quality wearparts to provide superior wear and performance.



DIGGA MANUFACTURE A HEAVY DUTY RANGE OF AUGER EXTENSIONS

ENGINEERED FOR SUPERIOR

STRENGTH AND DURABILITY

- High quality steel for robust performance
- Large range of extensions up to 4000mm in length
- Easy-fit design

AUGER EXTENSIONS
TO SUIT 750KG TO 50T MACHINES

DIGGALIGN - INCLINOMETER

AUGER / ANCHOR ALIGNMENT SYSTEM - INDICATES WHEN THE AUGER OR SCREW ANCHOR IS PLUMB

FEATURES

- Two options available
  - *Standard definition with increments of 2° - Recommended for anchors/augers under 13ft)*
  - *High definition with increments of 0.5° - Rrecommended for anchors/augers over 13ft)*
- Can be retrofitted to existing drives
- Increased job site efficiency
- Can be calibrated for angles up to 20°
- Highlights misalignment forward and aft
- Dual supply cable with both 12V and 24V

SPECIFICATIONS	
Length (mm)	120
Length - Overall (mm)	146
Height - Overall (mm)	35
Width - Overall (mm)	93

MAINTAIN ACCURACY - KEEP IT STRAIGHT!

The Diggalign Inclinometer was developed for contractors where accuracy is key. Ideal for drilling, screw anchoring, and core barrelling applications.

Designed to show the operator when the top of the pylon/anchor/auger is off plumb, and helps to maintain accuracy throughout the installation.

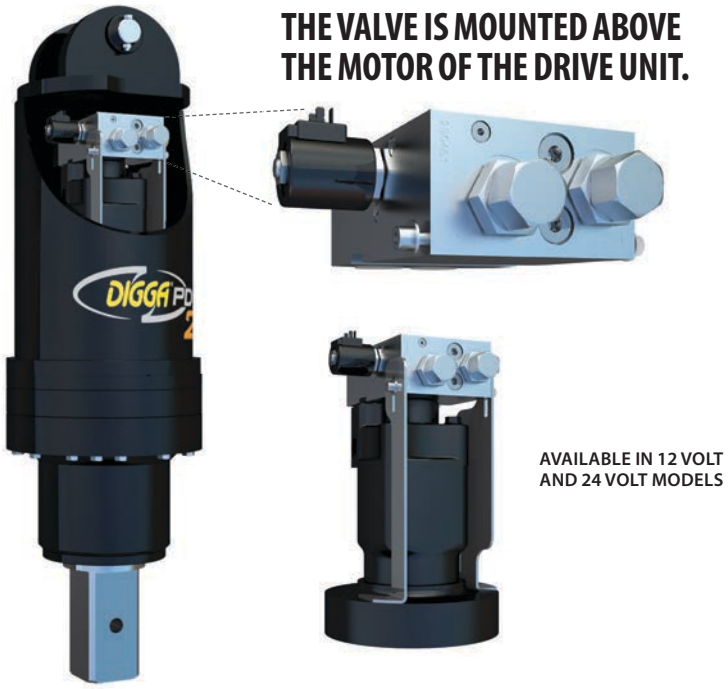
DOES YOUR EXCAVATOR ONLY HAVE A SINGLE FLOW HAMMER CIRCUIT?

NEED AN EASY WAY TO REVERSE YOUR DRIVE?

INTEGRATED VALVE

Flow reversal Valves provide you with a bi-directional use of your drive unit. Utilising the one way flow from your hammer circuit, forward and reverse control is obtained via an electrical signal, either 12 or 24volt (different models).

The Digga Flow reversal system has been rated to ensure a low pressure drop for the specific valve and drive unit (delivering more power to your drive head). Optional electrical wiring kits utilise high quality weatherproof Deutsch connectors for maximum performance and safety on the jobsite.



THE VALVE IS MOUNTED ABOVE THE MOTOR OF THE DRIVE UNIT.

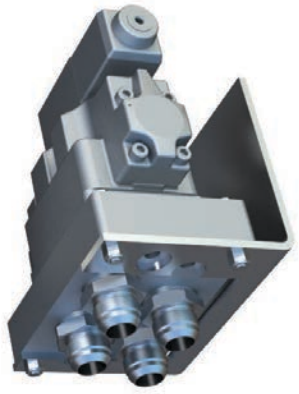
AVAILABLE IN 12 VOLT AND 24 VOLT MODELS

MACHINE MOUNTED VALVES

MOUNTED ON THE MACHINE'S DIPPER ARM / BOOM AND PLUMBED BETWEEN THE MACHINE'S SINGLE FLOW OUTLET AND DRIVE UNIT.

Externally mounted 2-Way Valves take the one-way flow from your hammer circuit, and utilises an electrical switch (which runs back to the cab) to give you forward and reverse control of the drive unit.

TO SUIT EXCAVATORS WITH FLOWS UP TO 115LPM



TO SUIT EXCAVATORS WITH FLOWS UP TO 300LPM

FEATURES

- Two models available - For excavators up to 115lpm, and excavators up to 300lpm
- Valves come with mounting bracket and fittings - hoses not included
- Utilises an electrical switch to engage forward and reverse control of the drive unit

2 COST EFFECTIVE SOLUTIONS

INTEGRATED / MACHINE MOUNTED

OVER 40 YEARS OF DESIGN, TESTING

AND MANUFACTURING EXPERIENCE

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