

Atlas Copco Tensor DS

Intelligence in a box



Smart tools for your simple transition

Tensor DS helps your operators to be certain



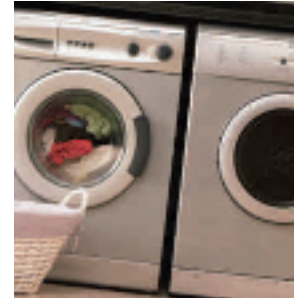
Intelligence in a box takes your production to a higher level

Today, leading manufacturing companies around the world demand increased control and reduced errors in their tightening operations. Tensor DS offers the high performance of more advanced tools at a fraction of the cost. Combined with market leading durability and the flexibility to choose only the functionality needed, it fulfils your requirements.

Successful manufacturers typically shift strategies from focusing on volume to focusing on quality. That's where Tensor DS can help. With less re-work and lower warranty costs the payback is immediate! In addition your operators will benefit from ergonomic advantages such as smooth and quiet operation, no exposure to air-borne oil vapours and no risk of high pressure hoses to causing injuries.

All manufacturers face the same challenges

Tensor DS eliminates the four most common assembly problems



1. Missing fasteners

Tensor DS ensures that your operators get ALL the operations right. By simply counting each fastener as it is tightened, Tensor DS ensures that the most common human errors are immediately detected and identified.

Set the system to the appropriate number of bolts for your operation, and let the tool do the work AND do the thinking. Now you have a sound solution to handle this most basic manufacturing need.

2. Incorrect joint conditions

With automatic measurement of run-down angles and clamping angle of the tightening, Tensor DS can detect thread defects such as cross threads, stripped threads and incorrect screw length. Even missing components such as washers or

gaskets can be detected. These defects are often invisible to the human eye, making visual inspection useless. Tensor DS will identify all of these conditions to assure that the joint condition is always correct.

3. Inconsistent repeatability

Using conventional compressed air tools, the final torque can often vary due to inconsistencies in air pressure, variances in joint hardness, or even the type of materials being assem-

bled. With Tensor DS, the right program and strategy is easily allocated for each condition. This means that concerns of inconsistency can become a thing of the past.

4. Wrong torque applied

Getting torque exactly right is more complex than many manufacturers realise. Applying low torque is a common problem that is often compensated for by using secondary manual torque wrench operation. This results of in too much torque being

applied. Tensor DS removes the human factor by shutting off at the desired programmed torque whilst ensuring a specified minimum level has been reached. It does what it's programmed to do, which means the right result is achieved every time.

Choose the right Tensor DS solution



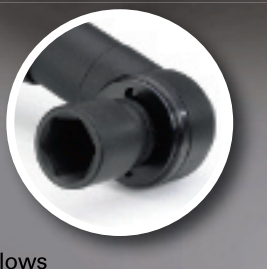
The all-round tool to meet all your quality demands

Available in pistol, angle or straight configuration, Tensor DS is the perfect tool to suit any tightening operation. With torques ranging from 1 – 4000 Nm, it has

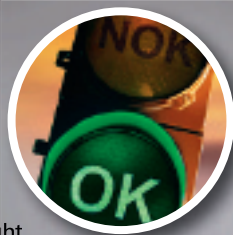
the versatility and ease of use to ensure that operators are happy and the fastening quality is assured each and every time.



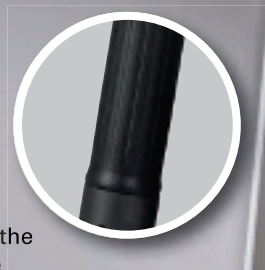
Compact angle head with unique spiral design angle gears allows easy access and consistent performance with unrivalled durability.



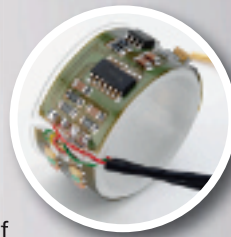
The unique DigiTork technology ensures the right torque each and every time. This eliminates the need for secondary checking operations which are unreliable and a waste of valuable production time.



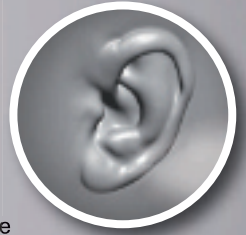
The enhanced moulded hand grip of the motor sleeve improves grip and operator comfort and makes the tool even easier to handle.



The built-in memory chip stores critical information of tool conditions and service intervals. It ensures tracking and control of maintenance to prevent unnecessary and costly failures.



The low noise and vibration levels from the Tensor DS electric motor remove potentially dangerous health risks for the operator and improves the work environment.



Signal lights on the tool provide immediate visual feedback for each tightening activity and make sure that the operator quickly can take corrective actions in case of a mistake.



Electrically driven with a safe and secure cable connection, Tensor DS removes the costly problem of leaking air hose connections, and prevents operator exposure to dangerous high pressure air connections.

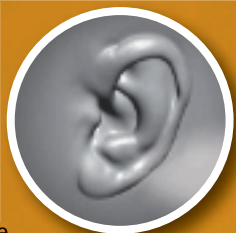


The industrial work horse that sets a standard

Tensor DS is unrivalled in its versatility for high torque applications. With torque levels up to 4000 Nm for all configurations it can ensure the best quality for each application in all conditions. The range is now expanded with a compact series of

true handheld pistol grip tools with swivel mount. This positions Tensor DS as a unique tool on the market with its combination of accuracy, versatility and handling characteristics.

The low noise and vibration levels from the Tensor DS electric motor remove potentially dangerous health risks for the operator and improves the work environment.



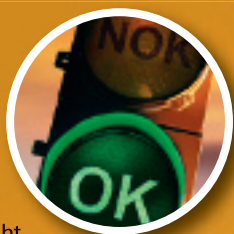
Compact gear package of the new pistol series provides significant weight reduction compared to traditional tools and allows it to be used in a true hand held manner.



Electrically driven with a safe and secure cable connection, Tensor DS removes the costly problem of leaking air hose connections, and prevents operator exposure to dangerous high pressure air connections.



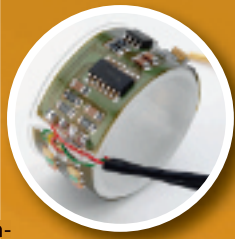
The unique DigiTork technology ensures the right torque each and every time. This eliminates the need for secondary checking operations which are unreliable and a waste of valuable production time.



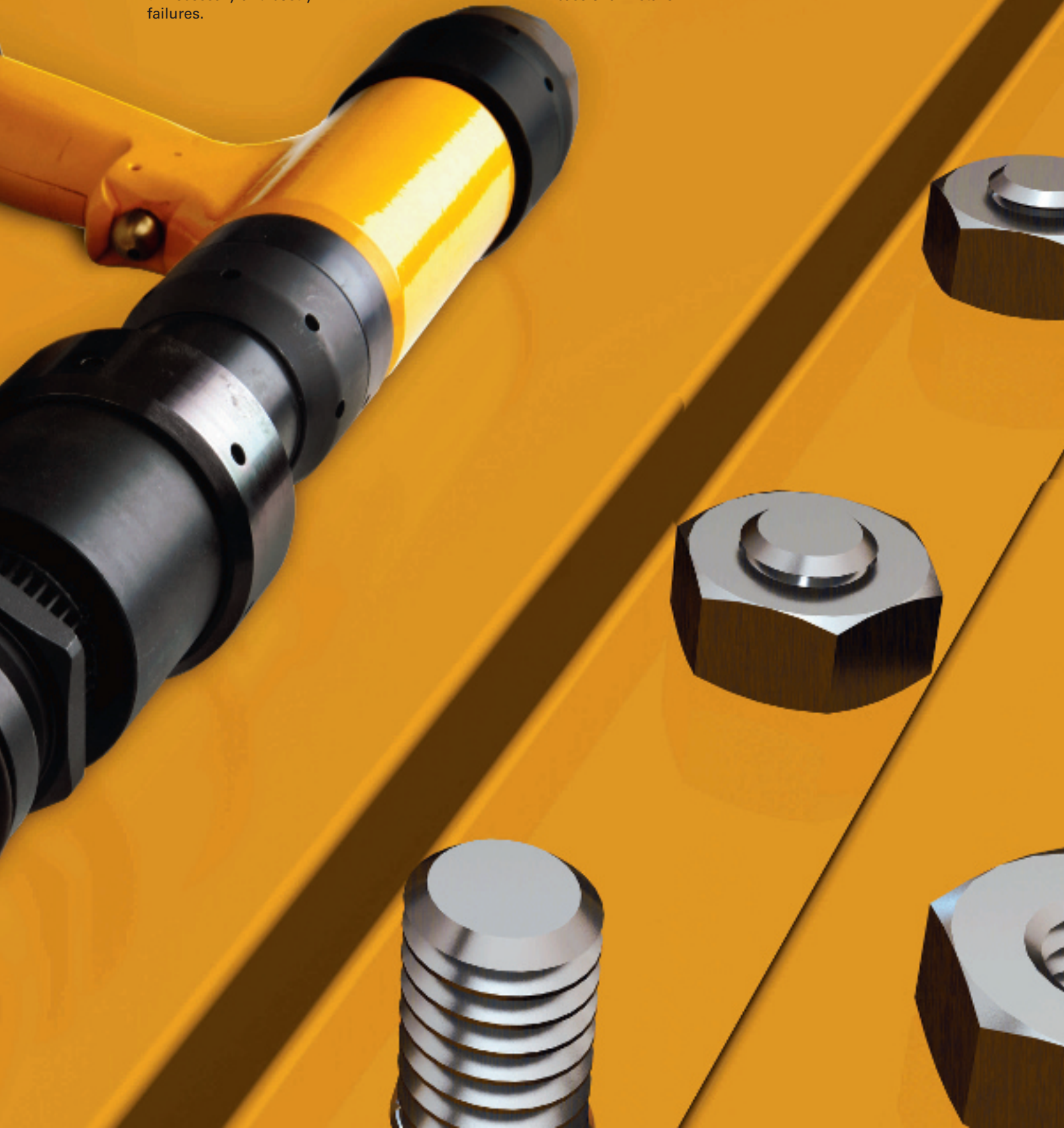
The swivelling front part allows real versatility in that the reaction bar is free to rotate into the desired position without need of repositioning the entire tool.



The built-in memory chip stores critical information of tool conditions and service intervals. It ensures tracking and control of maintenance to prevent unnecessary and costly failures.



Signal lights on the tool provide immediate visual feedback for each tightening and make sure that the operator quickly can take corrective actions in case of a mistake.



Choose your own level of functionality

The tool does the work, but the box provides the intelligence



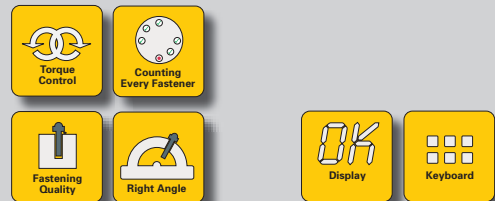
BOX



Simple, smart and effective

If you are unsure of tightening quality with your existing air tools, then Tensor DS Box is a cost effective first step into the world of controlled tightening. DS Box lets you control speed and tightening strategy to ensure that the tool does the job right independently of operator influence. The angle monitoring and bolt counting capabilities further help you to immediately detect common assembly errors and your operators are advised if any problem occur. Using the Box is quick and easy too. If the tool lights indicate "OK", then the tightening has been checked and the next operation can be performed. There's no need to refer to any additional readouts or data.

BASIC

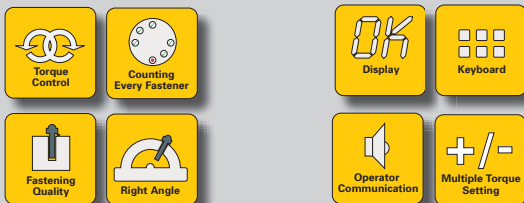


Extra security with the information you need

The Tensor DS Basic drive offers extra security by enabling the operator to see the precise torque value displayed on the controller – instead of just the light on the tool. This feature can help you to be sure that the right tightening program has been used and that the joint is tightened according to specification. The keypad and display easily allow for new input of tightening parameters if the application or production demands change. Programming can also quickly be accomplished by through connecting a laptop computer using the ToolsTalk software.



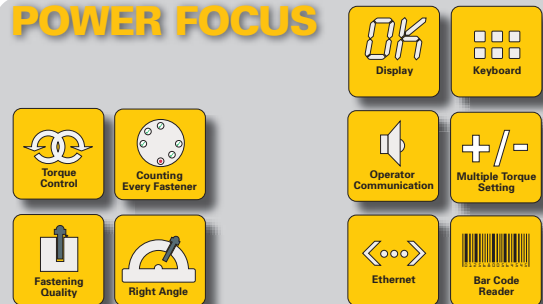
ADVANCED



Optimal quality control with multiple options

With the Advanced solution Tensor DS demonstrates its full range of capabilities. In addition to controlled tightening you can add error-proofing modules such as stack lights or alarms for increased audio-visual feedback to the operator. Unlike the single program Box or Basic solutions, Tensor DS Advanced allows up to 10 different programs for a single tool. This means a potential that up to 10 conventional air tools can be replaced with a single Tensor DS unit. These capabilities, in combination with easy-to-add accessories, means a top-of-the-line quality control workstation can be easily created in a cost-effective way.

POWER FOCUS



A common solution for any level of complexity

By adding the specific software key, Tensor DS is ready to go with functionality normally seen only in more expensive systems, thus providing a common platform for use throughout any assembly plant. The ability to receive and transmit signals and sequentially link programs can further reduce cost and complexity by eliminating the need for additional PLC's which was common in the past. Power Focus also offers the capacity to select specific programs based on bar code scanning and to store tightening status of each and every fastener. Combined with a user friendly colour screen and easy-to-access USB connection, these capabilities make Power Focus the outstanding solution to ensure versatility, quality and process security for the integrated workstation.

Choose the right accessories

Atlas Copco offers a wide range of accessories for your Tensor DS system. The right accessories help you improve safety

and ergonomics for your operators as well as offer you better feedback and error-proofing capabilities for your production.

Safety and Ergonomics



Suspension yoke



Cover for standard socket



Safety lever



Supported extensions



Tool extension



Reaction bars



Error proofing



Stacklight



Operator Panel



Socket selectors



I/O Expansion box



RE-alarm



How to order

- 1 Decide on tool model
- 2 Choose drive unit according to tool motor size and functionality demands
- 3 Choose the right cable length
- 4 Choose accessories





TENSOR DS

Angle electric nutrunners

Model	Square drive	Torque		Speed r/min	Weight		Length mm	CS distance mm	Ordering No.
	in	Nm	ft lb		kg	lb			
ETV DS42									
DS42-05-06	1/4	1.8-6	1.4-4.4	1488	1.2	2.6	381	11	8433 1705 31
DS42-08-06	1/4	2.4-8	1.8-5.9	1105	1.2	2.6	381	11	8433 1706 10
DS42-10-06	1/4	3.6-12	2.7-8.8	762	1.3	2.9	381	11	8433 1706 14
DS42-20-10	3/8	6-20	4.5-14	401	1.3	2.9	381	13.5	8433 1706 49
ETV DS42 Ball Retainer									
DS42-10-B10	3/8	4.5-12	3.4-8.8	762	1.3	2.9	381	13.5	8433 1706 31
DS42-20-B10	3/8	6-20	4.5-14	401	1.3	2.9	381	13.5	8433 1706 51
ETV DS72									
DS72-15-10	3/8	5-17	3.7-12	1525	1.4	3.1	412	13.5	8433 1720 10
DS72-28-10	3/8	8.4-28	6.3-20	1171	1.4	3.1	412	13.5	8433 1720 28
DS72-30-10	3/8	10-35	7.4-25	800	1.4	3.1	412	13.5	8433 1721 42
DS72-40-10	3/8	12-40	8.9-29	800	1.6	3.5	434	18	8433 1721 94
DS72-50-10	3/8	17-55	13-40	480	1.6	3.5	434	18	8433 1722 58
DS72-70-13	1/2	24-80	18-59	348	2.1	4.6	461	20	8433 1723 16
DS72-100-13	1/2	33-110	25-81	229	2.3	5.1	482	20	8433 1723 70
DS72-160-13	1/2	48-160	36-118	152	2.8	6.2	525	25.5	8433 1723 98
DS72-180-13	1/2	60-180	45-133	123	2.8	6.2	525	25.5	8433 1724 15
DS72-200-20	3/4	63-210	47-155	123	3	6.6	525	27	8433 1724 40
ETV DS72 Flush Socket									
DS72-30-FS	-	10-35	7.4-25	800	1.4	3.1	412	13.5	8433 1721 65
DS72-50-FS	-	17-55	13-40	480	1.6	3.5	434	18	8433 1722 75
DS72-70-FS	-	24-80	18-59	345	2.1	4.6	461	20	8433 1723 26
ETV DS72 Hold & Drive									
DS72-50-HAD	-	17-55	13-40	480	3.0	6.6	504	26	8433 1722 60
DS72-70-HAD	-	24-80	18-59	348	3.1	6.8	479	26	8433 1723 30
DS72-100-HAD	-	33-110	25-81	229	3.2	7.1	525	26	8433 1723 73
DS72-160-HAD	-	45-160	34-118	152	3.3	7.3	525	26	8433 1724 02
DS72-200-HAD	-	60-200	45-148	123	3.2	7.7	525	26	8433 1724 45
ETV DS72 Ball Retainer									
DS72-15-B10	3/8	5-17	3.7-12	1525	1.4	3.1	412	13.5	8433 1720 20
DS72-30-B10	3/8	10-35	7.4-25	800	1.4	3.1	412	13.5	8433 1721 54
DS72-40-B10	3/8	12-40	8.9-29	800	1.6	3.5	434	18	8433 1721 99
DS72-50-B10	3/8	17-55	13-40	480	1.6	3.5	434	18	8433 1722 63
DS72-70-B13	1/2	24-80	18-59	348	2.1	4.6	461	20	8433 1723 21
DS72-100-B13	1/2	33-110	25-81	240	2.3	5.1	482	20	8433 1723 68
DS72-160-B13	1/2	48-160	36-118	152	2.8	6.2	525	25.5	8433 1724 12
DS72-180-B13	1/2	60-180	45-133	123	2.8	6.2	525	25.5	8433 1724 20
ETV DS92									
DS92-100-13	1/2	40-100	29.6-74	642	3.3	7.3	534	20	8433 1750 21
DS92-120-13	1/2	36-120	26.7-88	480	3.5	7.7	560	23	8433 1750 32
DS92-180-13	1/2	72-180	53.3-133	395	3.8	8.4	578	25.5	8433 1750 68
DS92-270-20	3/4	108-270	80-199	240	7.0	15.4	661	33.5	8433 1751 38
DS92-370-20	3/4	115-370	85.1-273	152	7.1	15.7	661	33.5	8433 1751 86
DS92-450-20	3/4	115-450	85.1-333	131	11.6	25.6	702	54	8433 1752 04
DS92-600-25	1	150-600	111-444	112	11.6	25.6	702	54	8433 1752 63
DS92-600-20TM	3/4	150-600	111-444	97	9.7	21.4	603	26.3	8433 1752 40
DS92-1000-25TM	1 1/2	250-1000	185-740	60	12	26.5	666	32	8433 1752 90
DS92-2000-38TM	1 1/2	500-2000	370-1480	30	17	37.5	706	63.5	8433 1752 96
DS92-4000-38TM	1 1/2	1000-4000	740-2960	14	21	46.3	615	71	8433 1753 25
ETV DS92 Flush Socket									
DS92-180-FS	-	72-180	53.3-133	385	4.1	9.0	577	26	8433 1750 73
DS92-270-FS	-	108-270	80-199	235	7.0	15.4	661	34	8433 1751 46



TENSOR DS

Pistol grip electric nutrunners

Model	Square drive in	Torque		Speed r/min	Weight		Length mm	CS distance mm	Spline/ Mounting	Ordering No.
		Nm	ft lb		kg	lb				
ETP DS4										
DS4-05-06S	1/4	2 - 5	1.5 - 3.6	1310	1.1	2.5	193	21.5	- / -	8433 0708 76
DS4-10-06S	1/4	3.5 - 12	2.5 - 8.8	660	1.1	2.5	193	21.5	- / -	8433 0708 92
DS4-10-10S	3/8	3.5 - 12	2.5 - 8.8	660	1.1	2.5	193	21.5	- / -	8433 0709 06
ETP DS4 Female Hex										
DS4-02-106S	1/4	1.0 - 2.5	0.7 - 1.8	2942	1.1	2.5	201	21.5	- / -	8433 0708 57
DS42-02-106	1/4	1.0 - 2.5	0.7 - 1.8	2950	0.9	2.0	188	21.3	- / -	8433 0708 40
DS4-05-106S	1/4	2 - 5	1.5 - 3.6	1310	1.1	2.5	201	21.5	- / -	8433 0708 61
DS42-05-106	1/4	2 - 5	1.5 - 3.6	1770	0.9	2.0	188	21.3	- / -	8433 0708 69
DS4-07-106S	1/4	2.1 - 7	1.5 - 5.1	905	1.1	2.5	201	21.5	- / -	8433 0708 80
DS4-10-106S	1/4	3.5 - 12	2.5 - 8.8	660	1.1	2.5	201	21.5	- / -	8433 0708 83
DS42-10-106	1/4	3.5 - 12	2.5 - 8.8	905	1.0	2.2	188	21.3	- / -	8433 0708 87
ETP DS7										
DS7-20-10S	3/8	6 - 20	4.4 - 14.5	1240	1.6	3.6	273	22	- / 1	8433 0726 36
DS7-30-10S	3/8	10 - 35	7.3 - 25	750	1.6	3.6	273	22	- / 1	8433 0726 53
DS7-50-13S	1/2	17 - 55	12 - 40	540	1.9	4.2	318	21.5	2 / 2	8433 0726 87
DS7-70-13S	1/2	21 - 70	15 - 51	370	2.1	4.7	340	21.5	2 / 2	8433 0727 01
DS7-90-13S	1/2	28 - 95	21 - 69	275	2.1	4.7	340	21.5	2 / 2	8433 0727 19
DS7-120-13S	1/2	38 - 125	28 - 91	220	2.1	4.7	340	21.5	2 / 2	8433 0727 47
ETP DS7 Telescopic										
DS7-70-13ST	1/2	21 - 70	15 - 51	370	2.2	4.9	367	22.5	3 / 5	8433 0727 05
ETP DS7 Swivelling										
DS7-70-13SSW	1/2	21 - 70	15 - 51	370	2.2	4.9	339	29.5	2 / 4	8433 0727 09
DS7-90-13SSW	1/2	28 - 95	21 - 69	275	2.2	4.9	339	29.5	2 / 4	8433 0727 28
DS7-120-13SSW	1/2	38 - 125	28 - 91	220	2.2	4.9	339	29.5	2 / 4	8433 0727 84
ETP DS9										
DS9-100-13S	1/2	40 - 100	29 - 73	790	3.8	8.5	378	32	2 / 2	8433 0765 39
DS9-150-13S	1/2	60 - 150	44 - 110	510	3.8	8.5	392	32	2 / 2	8433 0765 58
DS9-200-13S	1/2	80 - 200	58 - 146	375	3.8	8.5	392	32	2 / 2	8433 0766 05
DS9-270-20S	3/4	108 - 270	79 - 197	250	5.8	12.9	451	36	6 / 8	8433 0766 49
DS9-450-20S	3/4	115 - 450	85 - 328	140	7.4	16.5	487	40.5	6 / 8	8433 0767 52
DS9-600-20S	3/4	150 - 600	110 - 438	120	7.4	16.5	487	40.5	6 / 8	8433 0768 08
DS9-1000-25S	1	250 - 1000	184 - 730	68	12.1	26.7	620	47	7 / 11	8433 0768 66
DS9-1200-25S	1	300 - 1200	220 - 880	55	12.1	26.7	620	47	7 / 11	8433 0768 83
DS9-1500-38S	1 1/2	375 - 1500	280 - 1100	42	16.8	37	574	68	8 / 12	8433 0768 94
DS9-2000-38S	1 1/2	500 - 2000	440 - 1475	34	16.8	37	574	68	8 / 12	8433 0769 10
DS9-3000-38S	1 1/2	750 - 3000	550 - 2200	21	21.7	47.8	654	68	8 / 12	8433 0769 30
DS9-4000-38S	1 1/2	1000 - 4000	730 - 2950	17	21.7	47.8	654	68	8 / 12	8433 0769 50
ETP DS9 Telescopic										
DS9-1000-25ST	1	250 - 1000	184 - 730	68	12.3	27.1	672	47	7 / 11	8433 0768 79
DS9-1200-25ST	1	300 - 1200	220 - 880	55	12.3	27.1	672	47	7 / 11	8433 0768 92
DS9-1500-38ST	1 1/2	375 - 1500	280 - 1100	42	17	37.5	672	68	8 / 12	8433 0768 98
DS9-2000-38ST	1 1/2	500 - 2000	440 - 1475	34	17	37.5	672	68	8 / 12	8433 0769 20
DS9-3000-38ST	1 1/2	750 - 3000	550 - 2200	21	21.9	48.3	753	68	8 / 12	8433 0769 33
DS9-4000-38ST	1 1/2	1000 - 4000	730 - 2950	17	21.9	48.3	753	68	8 / 12	8433 0769 60
ETP DS9 Swivelling										
DS9-100-13SSW	1/2	40 - 100	29 - 73	790	3.9	8.7	394	32	2 / 4	8433 0765 41
DS9-150-13SSW	1/2	60 - 150	44 - 110	510	3.9	8.7	394	32	2 / 4	8433 0765 69
DS9-200-13SSW	1/2	80 - 200	58 - 146	375	3.9	8.7	394	32	2 / 4	8433 0766 12
DS9-270-20SSW	3/4	108 - 270	79 - 197	250	5.9	13.1	451	36	6 / 8	8433 0766 54
DS9-350-20SSW	3/4	100 - 370	75 - 270	180	5.2	11.5	387	35	4	8433 0766 56**
DS9-450-20SSW	3/4	115 - 450	85 - 332	140	7.5	16.7	487	40.5	6 / 8	8433 0767 61
DS9-500-20SSW	3/4	140 - 530	105 - 390	125	5.2	11.5	387	35	4	8433 0767 71**
DS9-600-20SSW	3/4	150 - 600	110 - 442	120	7.5	16.7	487	40.5	6 / 8	8433 0768 20
DS9-750-25SSW	1	220 - 750	162 - 553	84	5.5	12.1	428	47	5	8433 0768 24
DS9-1000-25SSW	1	250 - 1000	184 - 730	68	12.1	26.7	620	47	7 / 11	8433 0768 76
DS9-1200-25SSW	1	300 - 1200	220 - 880	55	12.1	26.7	620	47	7 / 11	8433 0768 85
DS9-1500-25SSW	1	375 - 1500	280 - 1100	45	8.5	18.8	450	46	9	8433 0768 99**
DS9-2000-38SSW	1 1/2	500 - 2000	440 - 1475	34	16.8	37	574	68	8 / 12	8433 0769 15

** Available Q2 2008



TENSOR DS

Straight electric nutrunners

Model	Square drive in	Torque Nm	ft lb	Speed r/min	Weight kg	lb	Length mm	CS distance mm	Spline/ Mounting	Ordering No.
ETD DS4										
DS4-05-10S	3/8	2 - 5	1.5 - 3.6	1315	1.1	2.5	380	28	- / 1	8433 0710 29
DS4-10-10S	3/8	4 - 14	3 - 10	620	1.1	2.5	380	28	- / 1	8433 0710 52
ETD DS4 Telescopic										
DS4-05-10ST	3/8	2 - 5	1.5 - 3.6	1315	1.3	2.9	418	28	2 / 2	8433 0710 37
DS4-10-10ST	3/8	4 - 14	1.5 - 3.6	620	1.3	2.9	418	28	2 / 2	8433 0710 73
ETD DS4 Female Hex										
DS4-02-106S	1/4	1.0 - 2.5	0.7 - 1.8	2942	1.1	2.5	371	21.5	- / 1	8433 0710 22
DS4-05-106S	1/4	2 - 5	1.5 - 3.6	1310	1.1	2.5	371	28	- / 1	8433 0710 26
ETD DS7										
DS7-20-10S	3/8	6 - 20	4.4 - 14.5	1240	1.4	3.1	411	28	- / 1	8433 0730 23
DS7-30-10S	3/8	10 - 35	7.3 - 25	745	1.4	3.1	411	28	- / 1	8433 0730 88
DS7-50-13S	1/2	17 - 55	12 - 40	540	1.9	4.2	456	28	2 / 2	8433 0731 12
DS7-70-13S	1/2	21 - 70	15 - 51	370	2.2	4.9	477	28	2 / 2	8433 0731 31
DS7-90-13S	1/2	28 - 95	21 - 69	275	2.2	4.9	477	28	2 / 2	8433 0731 45
DS7-120-13S	1/2	38 - 125	28 - 91	225	2.2	4.9	477	28	2 / 2	8433 0731 84
ETD DS7 Telescopic										
DS7-20-10ST	3/8	6 - 20	4.4 - 14.5	1240	1.5	3.3	449	28	2 / 2	8433 0730 44
DS7-30-10ST	3/8	10 - 35	7.3 - 25	745	1.5	3.3	449	28	2 / 2	8433 0731 05
DS7-50-13ST	1/2	17 - 55	12 - 40	540	2.1	4.7	483	28	3 / 5	8433 0731 24
DS7-70-13ST	1/2	21 - 70	15 - 51	370	2.4	5.4	504	28	3 / 5	8433 0731 40
DS7-90-13ST	1/2	28 - 95	21 - 69	275	2.4	5.4	504	28	3 / 5	8433 0731 52
DS7-120-13ST	1/2	38 - 125	28 - 91	225	2.4	5.4	504	28	3 / 5	8433 0731 96
ETD DS9										
DS9-100-13S	1/2	40 - 100	29 - 73	715	3.0	6.7	529	32	2 / 2	8433 0756 42
DS9-150-13S	1/2	60 - 150	44 - 110	455	3.2	7.1	544	32	2 / 2	8433 0757 54
DS9-200-13S	1/2	80 - 200	58 - 146	340	3.2	7.1	544	32	2 / 2	8433 0758 71
DS9-450-20S	3/4	115 - 450	85 - 328	125	7.4	16.3	639	40.5	6 / 8	8433 0760 71
DS9-1000-25S	1	250 - 1000	184 - 730	68	12.3	27.1	769	47	7 / 11	8433 0763 60
DS9-1200-25S	1	300 - 1200	220 - 880	55	12.3	27.1	769	47	7 / 11	8433 0763 80
DS9-1500-38S	1 1/2	375 - 1500	280 - 1100	42	16.8	37	725	68	8 / 12	8433 0763 91
DS9-2000-38S	1 1/2	600 - 2000	440 - 1475	34	20.5	45.2	725	68	8 / 12	8433 0764 05
DS9-3000-38S	1 1/2	750 - 3000	550 - 2200	21	21.7	47.8	809	68	8 / 12	8433 0764 23
DS9-4000-38S	1 1/2	1000 - 4000	730 - 2950	17	21.7	47.8	809	68	8 / 12	8433 0764 37
ETD DS9 Telescopic										
DS9-100-13ST	1/2	40 - 100	29 - 73	715	3.2	7.1	557	32	3 / 5	8433 0756 92
DS9-150-13ST	1/2	60 - 150	44 - 110	455	3.4	7.6	572	32	3 / 5	8433 0758 03
DS9-200-13ST	1/2	80 - 200	58 - 146	340	3.4	7.6	572	32	3 / 5	8433 0759 11
DS9-270-20ST	3/4	108 - 270	79 - 197	225	6.0	13.4	653	36	6 / 8	8433 0760 55
DS9-450-20ST	3/4	115 - 450	85 - 328	125	7.6	17	689	40.5	6 / 8	8433 0760 88
DS9-600-20ST	3/4	150 - 600	110 - 438	110	7.6	17	689	40.5	6 / 8	8433 0761 35
DS9-1000-25ST	1	250 - 1000	184 - 730	68	12.5	27.6	824	47	7 / 11	8433 0763 63
DS9-1200-25ST	1	300 - 1200	220 - 880	55	12.5	27.6	824	47	7 / 11	8433 0763 83
DS9-1500-38ST	1 1/2	375 - 1500	280 - 1100	42	17	37.5	824	68	8 / 12	8433 0763 93
DS9-2000-38ST	1 1/2	600 - 2000	440 - 1475	34	21	46.3	824	68	8 / 12	8433 0764 20
DS9-3000-38ST	1 1/2	750 - 3000	550 - 2200	21	21.9	48.3	904	68	8 / 12	8433 0764 25
DS9-4000-38ST	1 1/2	1000 - 4000	730 - 2950	17	21.9	48.3	904	68	8 / 12	8433 0764 40
ETD DS9 Swivelling										
DS9-450-20SSW	3/4	180 - 450	79 - 197	125	7.8	17.4	639	40.5	6 / 8	8433 0760 94
DS9-600-20SSW	3/4	240 - 600	175 - 438	110	7.8	17.4	639	40.5	6 / 8	8433 0761 59

Drive units and cables

Drive unit Box	Ordering No.	Drive unit Advanced 10 prog	Ordering No.	Cables	Ordering No.
No display				2 m cable	4220 1616 02
D32-DS4	8433 0820 66	D312-DS4	8433 0820 33	5 m cable	4220 1616 05
D32-DS7	8433 0822 66	D312-DS7	8433 0822 33	7 m cable	4220 1616 07
D32-DS9	8433 0824 66	D312-DS9	8433 0824 33	10 m cable	4220 1616 10
Basic		Power Focus 4000		5 m extension cable	4220 2047 05
1 prog		PF 4000-G-HW Graph	8433 6100 00	10 m extension cable	4220 2047 10
D302-DS4	8433 0820 48	PF 4000-C-HW Compact	8433 6100 05	Extension cables	
D302-DS7	8433 0822 48	Software	Ordering No.	10 m cable	4220 2046 10
DS02-DS9	8433 0824 48	ToolsTalk DS (English)	8092 1138 62	15 m cable	4220 2046 15
		ToolsTalk PF W07 1-user license	8092 1183 01		
		RBU DS*	8433 0005 10		

(*) Required when using Power Focus controller

Accessories

Tool and controller accessories

Tool and controller accessories	Ordering No.
Socket selector 4	8433 0610 04
Socket selector 8	8433 0610 08
Rotary selector	8433 0606 15
Bit selector	8433 0612 08
Selector for large sockets	8433 0610 44
RE-alarm**	8433 0560 03
I/O Expansion Box	8433 0564 39
I/O Bus cable 0.5 m	4222 0917 00
I/O Bus cable 1 m	4222 0917 01
I/O Bus cable 3 m	4222 0917 03
I/O Bus cable 5 m	4222 0917 05
I/O Bus cable 10 m	4222 0917 10
I/O Bus cable 15 m	4222 0917 15
I/O Termination plug	4222 0443 00
Operator panel basic*	8433 0565 10
Operator panel advanced*	8433 0565 00
Stack light*	8433 0570 13
Stacklight Basic	8433 0570 10
Start handle	4220 1391 91
Reverse trigger for swivelling tool	4220 0894 90

* Only compatible with Power Focus

** Only compatible with DS advanced and Power Focus

Protective covers

Protective covers	Ordering No.
ETV DS42, DS72 30	9040 0900 08
ETV DS72 40-50	9040 0900 09
ETV DS72 70-100	9040 0900 10
ETV DS72 160-180, DS92 100-180	9040 0900 11

Covers for standard sockets

Covers for standard sockets	Ordering No.
ETV DS42 20	4220 2154 03
ETV DS72 30	4220 3154 04
ETV DS72 70	4220 1993 03
ETV DS72 / 92 40-50	4220 1995 05
ETV DS72 100	4220 3154 05
ETVDS72 / 92 150-180	4220 3154 06
ETV DS92 270-370	4220 3154 08

Tool extensions

Tool extensions	Length	Ordering No.
ETD/ETV DS42	150	4220 1131 80
ETV/ETD DS72 15-50	150	4220 1131 80
ETD/ETV DS72 70-200	150	4220 1132 80
ETD/ETV DS42	100	4220 1131 86
ETV DS92 270-370	150	4220 1585 80
ETD DS92 200	100	4220 1132 82
ETD DS92 200	150	4220 1132 81
ETD DS92 270-600	150	4220 1585 85

Fixtured extensions

Fixtured extensions	Length	Ordering No.
ETV DS42/DS72 10-50	74	4220 2579 90
ETV DS72/DS92 70-200	73	4220 2469 90
ETV DS92 270-600	91	4220 2614 90



Reaction plate for ETV

Reaction plate for ETV	Ordering No.
ETV DS72 30	4220 1678 91
ETV DS72 40/50	4220 1672 93
ETV DS72 70	4220 1678 94
ETV DS72 100	4220 1678 95
ETV DS92 100	4220 1678 96
ETV DS72 180	4220 1678 97
ETV DS92 180	4220 1678 98



Reaction bars and mounting brackets ^{a)}

Mounting number	Spline type	Type	L/W/H	Ordering No.
1	-	Bracket	100/60/8	4220 1029 00
2	2	Bracket	70/41/14	4210 2134 02
5	3	Bracket	100/50/12	4210 2219 03
8	6	Bracket	200/100/15	4220 1200 00
11	7	Bracket	250/150/20	4220 1445 00
12	8	Bracket	250/160/20	4220 1972 00

For model	Spline type	Type	L/W/H	Ordering No.
ETP DS9	5	Bar	500/62/15	4210 2726 80
ETP DS9	9	Bar	500/85/12	4210 3899 80
ETP DS9	4	Bar	120/66/15	4210 2808 00
ETP DS9	5	S-type	n/a	4210 4480 05
ETP DS9	9	S-type	n/a	4210 4480 09
ETP DS9	4	S-type	n/a	4210 4480 04
ETP DS9	5	Sliding drive	n/a	4210 4481 85
ETP DS9	9	Sliding drive	n/a	4210 4481 89
ETP DS9	4	Sliding drive	n/a	4210 4481 84



Suspension yokes

Suspension yokes	Type	Assembly	Ordering No.
ETD/ETV DS92	Horizontal	Motor	4220 1418 93
ETD/ETV DS4/DS7	Horizontal	Motor	4220 0987 85
ETD/ETV DS4/DS7/DS9	Vertical	Handles	4220 1417 80
ETP DS4/DS7	Horizontal	Motor	4220 1154 90



Support ext.

Support ext.	Extension	Ordering No.
ETV DS42	88	4220 3668 80
ETV DS72 30	142	4220 3869 80
ETV DS72 40-50	180	4220 2209 81
ETV DS72 70	226	4220 2596 81



^{a)} Please find mounting number and spline type corresponding to your tool in the tables on previous pages