THEIR ILINE			RS: QUICK SELECTION GUIDE													
Product	Hardness	Operating emp. °C	Tensile Strength		Size Range				Equivalent Standards						Application / Feature	
	nar uncoo	Max. Oper Temp.	(Property Class)		Metric		Inch*		 					information ( 1 outsil o		
01-4114	D UD- 00 44		Psi min	<b>N/mm² min</b> 1220	Diameter	Length 5	Diameter	Length	18	4700	DIN	B8	ANSI D10.01M	JIS		
Socket Head Cap Screws	HRc 39-44	300°	190000	(12.9)	M3 to M42	to 300 mm	1/8* to 1"	3/8" to 12"	2209	4762	912	4168 2470	B18.3.1M	B1170		Suitable for all high tensile applications.
Socket Low Head Cap Screws	HRc 33-40	300°	_	1040 (10.9)	M4 to M20	10 to 90 mm	_	_	_	6912 7984	_	-	-	_		Suitable for use in parts too thin to Std. S.H.C.S.; and for applications with limited clearances.
Socket Countersunk Head Screws	HRc 39-44	300°	160000	1220 <sup>1</sup> (12.9)	M3 to M16	6 to 60 mm	3/16* to 5/16*	3/8" to 1.1/4"	6761	_	7991	4168 2470	B18.3.5M	_		Controlled angle under the head ensures max flushness and side wal contact. Non-slip hex socket prevents marring of material.
Socket Button Head Cap Screws		300°	_	1220 <sup>1</sup> (12.9)	M3 to M10	6 to 50 mm	-	_	_	7380	9427	4168	B18.3.4M	_		Low head streamline design. Use them in materials too thin to counters; also for non- critical loading requiring heat treated screws.
Socket Set Screws (Knurled Cup Point)	HRc 45-53	250°			M3 to M20	3 to 75 mm	1/8" to 3/4"	1/8" to 3"	-	_		_	B18.3.6M	B1177		Fasten collars, sleeves gears, knobs on shafts Locate machine parts.
Socket Set Screws (Special Points)	HRc 45-53	250°			M3 to M20	3 to 75 mm	1/8" to 3/4"	1/8" to 3"	6094	4026 4027 4028 4029	913 914 915 916	4168 2470	B18.3.6M	B1177		For permanent location of parts and for higher axial and torsional loading.
Pressure Plugs	HRb 82-95	300°			M18 to M30	_	1/8" to 1"**	_	9645	-	906	_	<del></del>	_		Taper threads for positive seal without sealing compound. Controlled chamber fo faster starting.
Socket Head Shoulder Screws	HRc 39-44	300°	96000	ear 730	M6 to M24	10 to 120 mm	1/4" to 1"	1/2" to 5"	_	7379	9841	4168 2470	-	B1175		Replace costly special parts – shafts, pivot pins, guides, linkages and trunion mountings Also standard for tool and die industries.
Hex Wrenches	HRc 47min	_		Hardness HRc 47 Min	1.5 to 32mm A/F	_	1/16" to 3/4" A/F	_	3082	2936	911	4168 2470	B18.3.2M	B4648		Tough, ductile, for high torquing; corners won' round; accurate fit in al type socket screws.
Hex Head Screws / Bolts	HRc (8.8) 22-34 (10.9) 32-39	300°	120000 (5) 150000 (8)	800/830 (8.8) 1040 (10.9)	M4 to M48	10 to 300 mm	1/4" to 1"	1/2" to 8"	1364	4014 4017		1083 1768	B18.2.1	B1180		Suitable for a wide range of industrial applications, in the automotive, plant and machinery, structural and electrical industries
Hex Nuts	HRc (8) 19-36 (10) 26-36	300°	Proof _	Stress (8) 840 (10) 1040	M10 to M42	-	_	_		4032	970	1768				Suitable for a wide range of industrial applications, in the automotive, plant and machinery, structural and electrical industries
High Strength Structural Bolts, Nuts, Washers	HSS Bolt (8S) 22-34 (10S)32-39 HSS Nut (Class 8)HRb89 (Class10)HRc26	to HRc36 to HRc38	5	Bolts 8.8/10.9 Nuts 8/10	M16 to M30	40 to 300 mm		_	6623	7412 4775 7415	6915		B18.2.3.7V B18.2.4.6V		5-	Heavy Hex series structural bolts, nuts and washers for use in both friction grip and bearing type structura joints.
Special Products				800/840 (8.8) 1040 (10.9)	M3 to M42	6 to 410 mm	1/8" to 1"	3/8" to 12"					pecification	S.		As per customers specifications.

<sup>\*</sup> Thread type in any of the following inch series: BSW, BA, UNC & UNF. \*\* Thread type in NPTF. ¹Because of their head configuration these screws may not meet their minimum tensile load properties. Note: PFL standards meet, or in many instances, exceed the requirements of the standards listed. The strengths quoted are at room temperature, tensile strength varies considerably with operating temperature.