HARDMAN BROS PTY LTD

385-393 LOWER DANDENONG RD. DINGLEY,
VIC 3172 AUSTRALIA
TELEPHONE: **(03) 9551 5566** FACSIMILE: (03) 9551 8060
EMAIL: info@hardmanbros.com.au

A.B.N. 50 004 436 711

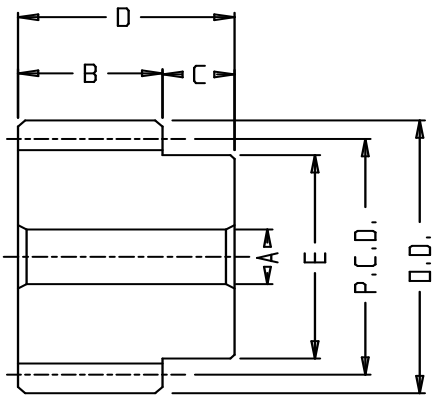
Quality System
Quality Endorsed Company
ISO 9001 Lic 4517

DIAMETRAL PITCH SPUR GEAR 5DP 20° PA

MATERIAL CAST IRON AS1830 FEB, 2008
MATERIAL STEEL K1040 - K1045 SUITABLE FOR FLAME OR INDUCTION HARDENING

PART NO	TEETH	PCD	OD	A	B	C	D	E	$	Kg
SS512	12 *	2.600”	3.000”	1 1/8”	2”	7/8”	2 7/8”	1.80”		1.2
SS514	14 *	3.000”	3.400”	1 1/8”	2”	7/8”	2 7/8”	2.20”		1.8
SS515	15 *	3.200”	3.600”	1 1/8”	2”	7/8”	2 7/8”	2.40”		2.1
SS516	16 *	3.400”	3.800”	1 1/8”	2”	7/8”	2 7/8”	2.60”		2.5
SS518	18	3.600”	4.000”	1 1/8”	2”	7/8”	2 7/8”	3.00”		3.0
SS520	20	4.000”	4.400”	1 1/8”	2”	7/8”	2 7/8”	3.40”		3.8
SS521	21	4.200”	4.600”	1 1/8”	2”	7/8”	2 7/8”	3.50”		4.2
SS522	22	4.400”	4.800”	1 1/8”	2”	1 1/4”	3 1/4”	3.50”		5.0
SS524	24	4.800”	5.200”	1 1/8”	2”	1 1/4”	3 1/4”	3.75”		5.9
SS525	25	5.000”	5.400”	1 1/8”	2”	1 1/4”	3 1/4”	3.75”		6.3
SS528	28	5.600”	6.000”	1 1/8”	2”	1 1/4”	3 1/4”	3.75”		N/A
SI530	30	6.000”	6.400”	1 1/8”	2”	1 1/4”	3 1/4”	3.75”		N/A
SI535	35	7.000”	7.400”	1 1/4”	2”	1 1/4”	3 1/4”	3.75”		N/A
SI540	40	8.000”	8.400”	1 1/4”	2”	1 1/4”	3 1/4”	3.75”		N/A
SI545	45	9.000”	9.400”	1 1/4”	2”	1 1/4”	3 1/4”	3.75”		N/A

* NOTE: To give added strength and improved tooth action, all pinions having 16 teeth or less have had their effective meshing pitch diameter increased by 1 addendum.
To obtain centre distance for any 2 meshing gears, add their pitch diameters as shown in the tables divided by 2.



HARDMAN BROS PTY LTD

385-393 LOWER DANDENONG RD. DINGLEY,
VIC 3172 AUSTRALIA
TELEPHONE: **(03) 9551 5566** FACSIMILE: (03) 9551 8060
EMAIL: info@hardmanbros.com.au

A.B.N. 50 004 436 711

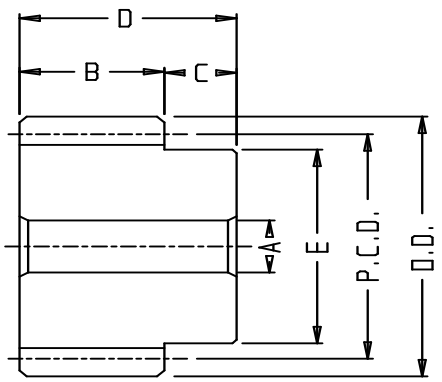
Quality System
Quality Endorsed Company
ISO 9001 Lic 4517

DIAMETRAL PITCH SPUR GEAR 6DP 20° PA

MATERIAL CAST IRON AS 1830 FEB, 2008
MATERIAL STEEL K1040 - K1045 SUITABLE FOR FLAME OR INDUCTION HARDENING

PART NO	TEETH	PCD	OD	A	B	C	D	E	$	Kg
SS612	12 *	2.166”	2.500”	1”	1 5/8”	7/8”	2 1/2”	1 1/2”		0.7
SS614	14 *	2.500”	2.833”	1”	1 5/8”	7/8”	2 1/2”	1 13/16”		1.0
SS615	15 *	2.666”	3.000”	1”	1 5/8”	7/8”	2 1/2”	2”		1.2
SS616	16 *	2.833”	3.166”	1”	1 5/8”	7/8”	2 1/2”	2 5/32”		1.4
SS618	18	3.000”	3.333”	1”	1 5/8”	7/8”	2 1/2”	2 1/2”		1.7
SS620	20	3.333”	3.666”	1”	1 5/8”	7/8”	2 1/2”	2 3/4”		2.2
SS621	21	3.500”	3.833”	1”	1 5/8”	7/8”	2 1/2”	3”		2.5
SS622	22	3.666”	4.000”	1”	1 5/8”	7/8”	2 1/2”	3”		2.7
SS624	24	4.000”	4.333”	1 1/8”	1 5/8”	1”	2 5/8”	3”		3.1
SS627	27	4.500”	4.833”	1 1/8”	1 5/8”	1”	2 5/8”	3”		3.8
SS630	30	5.000”	5.333”	1 1/8”	1 5/8”	1”	2 5/8”	3”		4.5
SI633	33	5.500”	5.833”	1 1/8”	1 5/8”	1 1/2”	3 1/8”	3”		N/A
SI636	36	6.000”	6.333”	1 1/8”	1 5/8”	1 1/2”	3 1/8”	3”		N/A
SI642	42	7.000”	7.333”	1 1/4”	1 5/8”	1 1/2”	3 1/8”	3”		N/A
SI648	48	8.000”	8.333”	1 1/4”	1 5/8”	1 1/2”	3 1/8”	3”		N/A
SI654	54	9.000”	9.333”	1 1/4”	1 5/8”	1 1/2”	3 1/8”	3”		7.9
SI660	60	10.000”	10.333”	1 1/4”	1 5/8”	1 1/2”	3 1/8”	3 1/2”		N/A
SI666	66	11.000”	11.333”	1 1/4”	1 5/8”	1 1/2”	3 1/8”	3 1/2”		10.0
SI672	72	12.000”	12.333”	1 1/4”	1 5/8”	1 1/2”	3 1/8”	3 1/2”		N/A

* NOTE: To give added strength and improved tooth action, all pinions having 16 teeth or less have had their effective meshing pitch diameter increased by 1 addendum.
To obtain centre distance for any 2 meshing gears, add their pitch diameters as shown in the tables divided by 2.



HARDMAN BROS PTY LTD

385-393 LOWER DANDENONG RD. DINGLEY,
VIC 3172 AUSTRALIA
TELEPHONE: **(03) 9551 5566** FACSIMILE: (03) 9551 8060
EMAIL: info@hardmanbros.com.au

A.B.N. 50 004 436 711

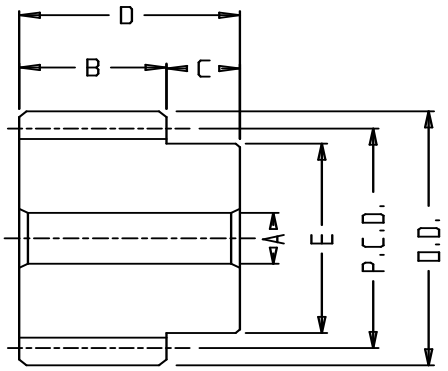
Quality System
Quality Endorsed Company
ISO 9001 Lic 4517

DIAMETRAL PITCH SPUR GEAR 8DP 20° PA

MATERIAL CAST IRON AS1830 FEB, 2008
MATERIAL STEEL K1040 - K1045 SUITABLE FOR FLAME OR INDUCTION HARDENING

PART NO	TEETH	PCD	OD	A	B	C	D	E	$	Kg
SS812	12 *	1.625"	1.875"	3/4"	1 1/4"	3/4"	2"	1 1/8"		0.30
SS814	14 *	1.875"	2.125"	3/4"	1 1/4"	3/4"	2"	1 3/8"		0.45
SS815	15 *	2.000"	2.250"	3/4"	1 1/4"	3/4"	2"	1 1/2"		0.50
SS816	16 *	2.125"	2.375"	7/8"	1 1/4"	7/8"	2 1/8"	1 5/8"		0.55
SS818	18	2.250"	2.500"	7/8"	1 1/4"	7/8"	2 1/8"	1 7/8"		0.75
SS820	20	2.500"	2.750"	7/8"	1 1/4"	7/8"	2 1/8"	2 1/8"		1.0
SS822	22	2.750"	3.000"	7/8"	1 1/4"	7/8"	2 1/8"	2 3/8"		1.3
SS824	24	3.000"	3.250"	7/8"	1 1/4"	7/8"	2 1/8"	2 5/8"		1.5
SS828	28	3.500"	3.750"	7/8"	1 1/4"	7/8"	2 1/8"	3 1/8"		2.2
SS832	32	4.000"	4.250"	1"	1 1/4"	1"	2 1/4"	2 1/2"		2.4
SS836	36	4.500"	4.750"	1"	1 1/4"	1"	2 1/4"	2 1/2"		2.9
SS840	40	5.000"	5.250"	1"	1 1/4"	1"	2 1/4"	2 1/2"		3.5
SS844	44	5.500"	5.750"	1"	1 1/4"	1"	2 1/4"	2 1/2"		4.8
SS848	48	6.000"	6.250"	1"	1 1/4"	1"	2 1/4"	2 1/2"		4.9
SI856	56	7.000"	7.250"	1"	1 1/4"	1"	2 1/4"	2 1/2"		N/A
SI864	64	8.000"	8.250"	1"	1 1/4"	1"	2 1/4"	2 1/2"		N/A
SI872	72	9.000"	9.250"	1"	1 1/4"	1"	2 1/4"	2 1/2"		N/A
SI880	80	10.000"	10.250"	1 1/8"	1 1/4"	1 1/4"	2 1/2"	3"		N/A
SI888	88	11.000"	11.250"	1 1/8"	1 1/4"	1 1/4"	2 1/2"	3"		9.5 N/A
SI896	96	12.000"	12.250"	1 1/8"	1 1/4"	1 1/4"	2 1/2"	3"		N/A
SI8112	112	14.000"	14.250"	1 1/8"	1 1/4"	1 1/4"	2 1/2"	3 1/4"		N/A
SI8128	128	16.000"	16.250"	1 1/8"	1 1/4"	1 1/4"	2 1/2"	3 1/4"		11.1

* NOTE: To give added strength and improved tooth action, all pinions having 16 teeth or less have had their effective meshing pitch diameter increased by 1 addendum.
To obtain centre distance for any 2 meshing gears, add their pitch diameters as shown in the tables divided by 2.



HARDMAN BROS PTY LTD

385-393 LOWER DANDENONG RD. DINGLEY,
VIC 3172 AUSTRALIA
TELEPHONE: **(03) 9551 5566** FACSIMILE: (03) 9551 8060
EMAIL: info@hardmanbros.com.au

A.B.N. 50 004 436 711

Quality System
Quality Endorsed Company
ISO 9001 Lic 4517

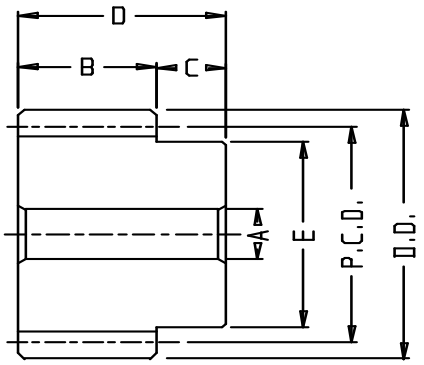
DIAMETRAL PITCH SPUR GEAR 10DP 20° PA

MATERIAL CAST IRON AS1830 FEB, 2008
MATERIAL STEEL K1040 - K1045 SUITABLE FOR FLAME OR INDUCTION HARDENING

PART NO	TEETH	PCD	OD	A	B	C	D	E	$	Kg
SS1012	12 *	1.300”	1.500”	5/8”	1 1/8”	5/8”	1 3/4”	1 5/16”		0.15
SS1014	14 *	1.500”	1.700”	5/8”	1 1/8”	5/8”	1 3/4”	1 1/8”		0.25
SS1015	15 *	1.600”	1.800”	3/4”	1 1/8”	5/8”	1 3/4”	1 7/32”		0.25
SS1016	16 *	1.700”	1.900”	3/4”	1 1/8”	5/8”	1 3/4”	1 5/16”		0.30
SS1018	18	1.800”	2.000”	3/4”	1 1/8”	5/8”	1 3/4”	1 17/32”		0.30
SS1020	20	2.000”	2.200”	7/8”	1 1/8”	5/8”	1 3/4”	1 23/32”		0.50
SS1024	24	2.400”	2.600”	7/8”	1 1/8”	5/8”	1 3/4”	2 1/8”		0.80
SS1025	25	2.500”	2.700”	7/8”	1 1/8”	5/8”	1 3/4”	2 7/32”		0.85
SS1028	28	2.800”	3.000”	7/8”	1 1/8”	5/8”	1 3/4”	2 1/2”		1.1
SS1030	30	3.000”	3.200”	7/8”	1 1/8”	1”	2 1/8”	2 1/2”		1.2
SS1035	35	3.500”	3.700”	7/8”	1 1/8”	1”	2 1/8”	2 1/2”		1.7
SS1040	40	4.000”	4.200”	1”	1 1/8”	1”	2 1/8”	2 1/2”		1.9
SS1045	45	4.500”	4.700”	1”	1 1/8”	1”	2 1/8”	2 1/2”		2.7
SS1050	50	5.000”	5.200”	1”	1 1/8”	1”	2 1/8”	2 1/2”		2.9
SS1055	55	5.500”	5.700”	1”	1 1/8”	1”	2 1/8”	2 1/2”		4.0
SS1060	60	6.000”	6.200”	1”	1 1/8”	1”	2 1/8”	2 1/2”		4.8
SI1070	70	7.000”	7.200”	1”	1 1/8”	1”	2 1/8”	2 1/2”		4.8
SI1080	80	8.000”	8.200”	1”	1 1/8”	1”	2 1/8”	2 1/2”		N/A
SI1090	90	9.000”	9.200”	1”	1 1/8”	1”	2 1/8”	2 1/2”		N/A
SI10100	100	10.000”	10.200”	1 1/8”	1 1/8”	1 1/8”	2 1/4”	3”		N/A
SI10110	110	11.000”	11.200”	1 1/8”	1 1/8”	1 1/8”	2 1/4”	3”		6.8
SI10120	120	12.000”	12.200”	1 1/8”	1 1/8”	1 1/8”	2 1/4”	3”		N/A
SI10140	140	14.000”	14.200”	1 1/8”	1 1/8”	1 1/8”	2 1/4”	3”		N/A
SI10160	160	16.000”	16.200”	1 1/8”	1 1/8”	1 1/8”	2 1/4”	3”		N/A

* NOTE: To give added strength and improved tooth action, all pinions having 16 teeth or less have had their effective meshing pitch diameter increased by 1 addendum.

To obtain centre distance for any 2 meshing gears, add their pitch diameters as shown in the tables divided by 2.



HARDMAN BROS PTY LTD

385-393 LOWER DANDENONG RD. DINGLEY,
VIC 3172 AUSTRALIA
TELEPHONE: **(03) 9551 5566** FACSIMILE: (03) 9551 8060
EMAIL: info@hardmanbros.com.au

A.B.N. 50 004 436 711

Quality System
Quality Endorsed Company
ISO 9001 Lic 4517

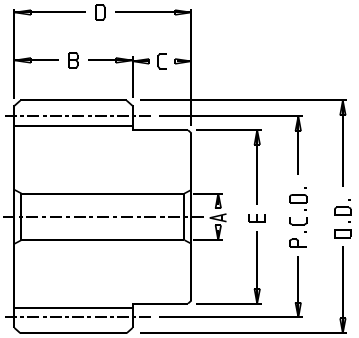
DIAMETRAL PITCH SPUR GEAR 12DP 20° PA

MATERIAL CAST IRON AS1830 FEB, 2008
MATERIAL STEEL K1040 - K1045 SUITABLE FOR FLAME OR INDUCTION HARDENING

PART NO	TEETH	PCD	OD	A	B	C	D	E	$	Kg
SS1212	12 *	1.083”	1.250”	1/2”	1”	5/8”	1 5/8”	3/4”		0.10
SS1213	13 *	1.166”	1.333”	5/8”	1”	5/8”	1 5/8”	13/16”		0.10
SS1214	14 *	1.250”	1.416”	5/8”	1”	5/8”	1 5/8”	29/32”		0.11
SS1215	15 *	1.333”	1.500”	5/8”	1”	5/8”	1 5/8”	1”		0.15
SS1216	16 *	1.416”	1.583”	5/8”	1”	5/8”	1 5/8”	1 1/16”		0.20
SS1218	18	1.500”	1.666”	3/4”	1”	5/8”	1 5/8”	1 1/4”		0.20
SS1220	20	1.666”	1.833”	3/4”	1”	5/8”	1 5/8”	1 13/32”		0.30
SS1221	21	1.750”	1.916”	3/4”	1”	5/8”	1 5/8”	1 1/2”		0.35
SS1222	22	1.833”	2.000”	3/4”	1”	5/8”	1 5/8”	1 1/2”		0.35
SS1224	24	2.000”	2.166”	3/4”	1”	5/8”	1 5/8”	1 3/4”		0.50
SS1228	28	2.333”	2.500”	3/4”	1”	5/8”	1 5/8”	2 1/16”		0.70
SS1230	30	2.500”	2.666”	3/4”	1”	5/8”	1 5/8”	2 1/4”		0.80
SS1236	36	3.000”	3.166”	3/4”	1”	7/8”	1 7/8”	2 1/4”		1.1
SS1242	42	3.500”	3.666”	3/4”	1”	7/8”	1 7/8”	2 1/4”		1.3
SS1248	48	4.000”	4.166”	7/8”	1”	7/8”	1 7/8”	2 1/2”		2.0
SS1254	54	4.500”	4.666”	7/8”	1”	7/8”	1 7/8”	2 1/2”		2.4
SS1260	60	5.000”	5.166”	7/8”	1”	7/8”	1 7/8”	2 1/2”		2.9
SS1266	66	5.500”	5.666”	7/8”	1”	7/8”	1 7/8”	2 1/2”		N/A
SS1272	72	6.000”	6.166”	7/8”	1”	7/8”	1 7/8”	2 1/2”		4.0
SI1284	84	7.000”	7.166”	7/8”	1”	7/8”	1 7/8”	2 1/2”		N/A
SI1296	96	8.000”	8.166”	7/8”	1”	7/8”	1 7/8”	2 1/2”		2.5
SI12108	108	9.000”	9.166”	7/8”	1”	7/8”	1 7/8”	2 1/2”		N/A
SI12120	120	10.000”	10.166”	1”	1”	7/8”	1 7/8”	2 1/2”		N/A
SI12132	132	11.000”	11.166”	1”	1”	1”	2”	2 1/2”		N/A
SI12144	144	12.000”	12.166”	1”	1”	1”	2”	2 1/2”		N/A

* NOTE: To give added strength and improved tooth action, all pinions having 16 teeth or less have had their effective meshing pitch diameter increased by 1 addendum.

To obtain centre distance for any 2 meshing gears, add their pitch diameters as shown in the tables divided by 2.



HARDMAN BROS PTY LTD

385-393 LOWER DANDENONG RD. DINGLEY,
VIC 3172 AUSTRALIA
TELEPHONE: **(03) 9551 5566** FACSIMILE: (03) 9551 8060
EMAIL: info@hardmanbros.com.au

A.B.N. 50 004 436 711

Quality System
Quality Endorsed Company
ISO 9001 Lic 4517

DIAMETRAL PITCH SPUR GEAR 16DP 20° PA

FEB, 2008

MATERIAL STEEL K1040 - K1045 SUITABLE FOR FLAME OR INDUCTION HARDENING

PART NO	TEETH	PCD	OD	A	B	C	D	E	$	Kg
SS-1616	16 *	1.062”	1.187”	1/2”	1/2”	7/16”	15/16”	7/8”		0.06
SS-1620	20	1.250”	1.375”	1/2”	1/2”	7/16”	15/16”	1 1/16”		0.11
SS-1624	24	1.500”	1.625”	1/2”	1/2”	7/16”	15/16”	1 5/16”		0.15
SS-1628	28	1.750”	1.875”	1/2”	1/2”	7/16”	15/16”	1 1/2”		0.20
SS-1632	32	2.000”	2.125”	1/2”	1/2”	7/16”	15/16”	1 3/4”		0.30
SS-1636	36	2.250”	2.375”	1/2”	1/2”	7/16”	15/16”	2”		0.40
SS-1640	40	2.500”	2.625”	1/2”	1/2”	7/16”	15/16”	2”		0.40
SS-1648	48	3.000”	3.125”	1/2”	1/2”	1/2”	1”	2”		0.60
SS-1654	54	3.375”	3.500”	1/2”	1/2”	1/2”	1”	2”		0.70
SS-1656	56	3.500”	3.625”	1/2”	1/2”	1/2”	1”	2”		0.80
SS-1660	60	3.750”	3.875”	5/8”	1/2”	5/8”	1 1/8”	2”		0.90
SS-1664	64	4.000”	4.125”	5/8”	1/2”	5/8”	1 1/8”	2”		1.0
SS-1672	72	4.500”	4.625”	5/8”	1/2”	5/8”	1 1/8”	2”		1.2
SS-1680	80	5.000”	5.125”	5/8”	1/2”	5/8”	1 1/8”	2”		1.5
SS-1684	84	5.250”	5.375”	5/8”	1/2”	5/8”	1 1/8”	2”		1.6
SS-1688	88	5.500”	5.625”	5/8”	1/2”	5/8”	1 1/8”	2”		1.7
SS-1696	96	6.000”	6.125”	5/8”	1/2”	5/8”	1 1/8”	2”		2.0
SS-16100	100	6.250”	6.375”	5/8”	1/2”	5/8”	1 1/8”	2”		2.2

* NOTE: To give added strength and improved tooth action, all pinions having 16 teeth or less have had their effective meshing pitch diameter increased by 1 addendum.

To obtain centre distance for any 2 meshing gears, add their pitch diameters as shown in the tables divided by 2.