Principle Continue of March 1994   1995		INPUT PARAMETERS	ERS						
Part	Ultimate ten	sile stress [N/m] *	7.50E+08	8					
Total Name   Paris   Total N	Maximum defor	mation allowed [mm]	<u>.</u> ,	10					
Part	Elastic m	odule [N/m] *	9.00E+10	0					
Part	Densit	y [kg/m^3]*	1.60E+03	3					
Part	Tota	l mass [kg]	1.50	0					
NEW NAME   N	dunf	height [m]	0.1	1					
Part	Impact di	splacement [m]	0.005	10					
Note	Knee	Length [m]	0.2126	50					
FIN MURE [N*m]   139.73   13	Hip L	ength [m]	0.2622	2					
In Notice   National   1997									
Total File   F	TORQUE	N KNEE [N*m]	62.57	7					
TUBES EXTREME   N	TORQUE	IN HIP [N*m]	139.73	8					
TIMES   TIME	FORCE IN KNI	EE'S EXTREME [N]	294.30	0					
TUBES   TUBE	FORCE IN HI	P'S EXTREME [N]	294.30	0					
0.006         5.27E-00         5.72E-00         1.59E-09         1.59E-09         1.59E-09         1.10F-01         Mass Kinee [M]         1.10F-09         1.59E-09         1.59E-09         1.59E-09         1.10F-09         1.59E-09         1.59E-09         1.59E-09         1.59E-09         1.59E-09         2.71E-08         3.40E-09         3.40E-0					JT	BES			
0.006         S.27F-10         7.12F+08         1.58F-09         1.58F-09         1.58F-09         1.58F-09         1.58F-09         1.58F-09         1.58F-09         1.58F-09         1.207         1.207         1.507         1.507         1.507         1.507         1.507         1.507         1.508	r1 [mm]	r2 [mm]	Intertia moment [m^4]	Stress knee [N/m^2]	Stress Hip [N/m^2]	e's displacement in extreme [mm]	Hip's displacement in extreme fmm	Mass Knee [g]	Mass Hip [g]
0.007         8.68E-10         5.05E+08         1.13E-09         1.26P         1.20P         1.28P	0.005	0.006	5.27E-10	7.12E+08	1.59E+09		19.87	11.76	14.50
0.009 1.98±09 2.91±048 8.44€+06 7.87 7.87 1.60 1.60 1.60 1.00 1.91 1.91 1.91 1.91 1.91 1.91 1.9	9000	0.007	8.68E-10	5.05E+08	1.13E+09	12.07	12.07	13.89	17.13
1000   104E-09   131E-08   6.50E+08   5.1E   1.50   1.3	0.007	0.008	1.33E-09	3.76E+08	8.40E+08	7.87	7.87	16.03	19.77
0.012 5. 0.00 0.01 1.022 F08	0.008	0.009	1.94E-09	2.91E+08	6.50E+08	5.41	5.41	18.17	22.41
0.0125         5.68E-09         1.02E+08         2.28E+08         1.35<	600.0	0.01	2.70E-09	2.32E+08	5.17E+08	3.88	3.88	20.30	25.04
0.0125 5.44-09 1.44f+08 3.21f+08 0.77 0.77 0.77 45.68 0.0015 1.37f-08 3.21f+08 0.77 0.77 0.77 0.77 0.001 0.001 0.002 3.37f-08 3.72f+07 0.001 0.	0.011	0.0125	7.68E-09	1.02E+08	2.28E+08	1.36	1.36	37.67	46.46
0.015         1.37E-08         6.88E+07         1.538+08         0.77         0.77         0.77         45.68           0.02         3.37E-08         3.72E+07         8.30E+07         1.53H-08         0.77         0.031         6.171           0.02         3.37E-08         3.72E+07         5.22E+10         5.22E+10         2.36E+10         2.36E+10         2.32E+10         2.34.28         2.40         2.40           0.0015         3.98E-13         2.36E+10         2.22E+10         83.50         341.40         833.50         4.27           0.0025         3.07E-11         5.10E+09         1.14E+10         341.40         341.40         6.88           0.0035         4.91E-10         6.59E+09         1.24E+09         1.14A+0         341.40         6.88           0.005         4.91E-10         6.59E+09         1.42E+09         1.029         1.029         1.029           0.006         1.02E-09         3.69E+08         8.24E+09         1.029         1.029         1.029           0.006         1.8EE-11         2.17E+09         8.8E+09         1.25E+10         3.9EE+09         1.55E+10         5.79.38         579.38         579.38           0.001         0.02         4.3EE-11	0.0115	0.0125	5.44E-09	1.44E+08	3.21E+08	1.93	1.93	25.65	31.63
PRODIS   Michael moment [m/4]   Stress knee [N/m/2]   Stress kn	0.0135	0.015	1.37E-08	6.86E+07	1.53E+08	0.77	0.77	45.68	56.34
Properties   Pro	0.0185	0.02	3.37E-08	3.72E+07	8.30E+07	0.31	0.31	61.71	76.11
r [mm]         Intertia moment [mA]         Stress kinee [IV/MA2]         Stress kinee [IV/MA2]         Knee's displacement in extreme [mm]         Hij's displacement in extreme [mm]         Hij's displacement in extreme [mm]         Mass Kinee [g]           0.0015         3.38E-12         2.36E+10         5.27E+10         5.27E+10         833.50         2.40         2.40           0.002         1.26E-11         5.06E+09         1.22E+10         833.50         833.50         833.50         2.40           0.0025         3.07E-11         5.06E+09         1.34E+09         1.64.64         9.62         9.62           0.003         6.36E-11         2.95E+09         6.59E+09         1.64.64         9.62         9.62           0.006         1.02E-09         3.69E+08         1.42E+09         2.134         2.134         2.6.72           0.006         1.02E-09         3.69E+08         8.24E+08         10.29         10.29         3.47           0.006         1.02E-09         3.69E+08         1.55E+10         5.79.38         5.79.38         5.79.38           0.004         1.8E-11         6.9E+09         1.5E+10         1.5E+10         1.5E+10         1.5E+10         1.5E+10         1.5E+10         1.5E+10         1.5E+10         1.5E+10						RODS			
0.0015         3.98E-12         2.36E+10         5.27E+10         833.50         2634.28         2.40           0.002         1.26E-11         9.96E+09         2.22E+10         833.50         833.50         4.27           0.0025         3.07E-11         2.96E+09         1.44E+10         341.40         833.50         4.27           0.0025         3.07E-11         2.95E+09         1.44E+10         144.64         164.64         9.62           0.005         4.91E-10         6.37E+08         1.42E+08         1.134         26.72           0.006         4.91E-10         6.37E+08         8.24E+08         1.029         1.029           0.006         4.91E-10         6.37E+08         8.24E+08         1.029         1.029           0.006         4.91E-10         5.95E+09         1.55E+10         579.38         579.38           0.006         8.67E-11         2.17E-09         4.84E+09         74.15         74.15         5.10           0.008         8.57E-11         2.17E-09         3.96E+09         74.15         74.15         5.10           0.008         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         37.15           0.02         6.37E-0		r [mm]	Intertia moment [m^4]	Stress knee [N/m^2]	Stress Hip [N/m^2]		Hip's displacement in extreme fmm	Mass Knee [g]	Mass Hip [g]
0.002         1.26F-11         9.96F+09         2.22E+10         833.50         4.27           0.0025         3.07E-11         5.10E+09         1.14E+10         341.40         341.40         6.68           0.003         6.36F-11         2.95E+09         6.59E+09         164.64         164.64         9.62           0.005         4.91E-10         6.37E+08         8.24E+08         10.29         10.29         33.47           BOOM         1.02E-09         3.69E+08         8.24E+08         10.29         10.29         38.47           Exterior side [mm]         Intertia moment [m/4]         Stress kine [lv/m/2]         Kneès displacement in extreme [mm]         Hip's displacement in extreme [mm]         Hip's displacement in extreme [mm]         3.847           0.004         8.67E-11         2.17E+09         4.84E+09         120.85         6.80         6.80           0.005         8.67E-11         2.17E+09         4.84E+09         120.85         120.85         6.80           0.006         8.67E-10         6.36E+08         1.42E+09         74.15         74.15         8.76           0.007         4.92E-10         6.36E+09         2.19E+08         1.64         1.64         1.64           0.01		0.0015	3.98E-12	2.36E+10	5.27E+10		2634.28	2.40	2.97
0.0025         3.07E-11         5.10E+09         1.14E+10         341.40         341.40         6.688           0.003         6.3E-11         2.95E+09         6.59E+09         164.64         164.64         9.62           0.005         4.91E-10         6.3Fe08         8.24E+08         10.29         10.29         36.72           0.006         1.02E-09         8.24E+08         8.24E+08         10.29         38.47         38.47           Exterior side [mm]         Intertial moment [m/4]         Stress Rine [N/m/2]         Knee's displacement in extreme [mm]         Hip's displacement in extreme [mm]         Mass Knee [g]           0.004         1.81E-11         6.92E+09         1.55E+10         579.38         33.2           0.006         8.67E-11         2.17E+09         4.84E+09         120.85         6.873.8         6.80           0.01         4.95E-10         3.96E+09         1.42E+09         21.29         74.15         6.80           0.02         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         37.76           OPTIMAL HIP'S PROFILE         7.1be 20-18         7.1be 20-18         7.1be 20-18         7.1be 20-18         1.64         1.64         37.76		0.002	1.26E-11	9.96E+09	2.22E+10	833.50	833.50	4.27	5.27
0.003         6.36E-11         2.95E+09         6.59E+09         164,64         164,64         9.62           0.005         4.91E-10         6.37E+08         1.42E+09         21.34         21.34         26.72           0.006         1.02E-09         3.69E+08         8.24E+08         10.29         38.47         38.47           Exterior side [mm]         Intertia moment [m²4]         Stress knee [N/m²2]         Knee's displacement in extreme [mm]         Hip's displacement in extreme [mm]         Mass Knee [g]           0.004         1.81E-11         6.92E+09         1.55E+10         579.38         3.32           0.006         8.67E-11         2.17E+09         3.96E+09         74.15         5.79.38         3.32           0.008         1.41E-10         1.77E+09         3.96E+09         74.15         74.15         5.10           0.01         4.92E-10         1.2E+09         21.29         74.15         5.10           0.02         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         1.64           OPTIMAL HIP'S PROFILE         Tube 20-18         Tube 20-18         1.64         1.64         1.64		0.0025	3.07E-11	5.10E+09	1.14E+10	341.40	341.40	89.9	8.24
0.005         4.91E-10         6.37E+08         1.42E+09         21.34         21.34         26.72           B 3.69E+08         3.69E+08         1.029         1.029         3.67           B 2.24E+08         1.029         1.029         38.47           B 2.24E+08         1.029         1.029         38.47           B 2.24E+08         1.029         1.029         38.47           B 2.24E+09         1.55E+10         579.38         579.38         3.32           C 0.004         1.1E-11         6.92E+09         1.56E+10         74.15         579.38         3.32           0.006         8.67E-11         1.77E+09         4.84E+09         74.15         74.15         5.10           0.01         6.36E+08         1.42E+09         21.29         74.15         1.64         37.76           0.02         6.3F-09         9.8E+07         2.19E+08         1.64         1.64         37.76           OPTIMAL HIP'S PROFILE         1.ub-20-18         1.ub-20-18         2.1.29         1.64         37.76		0.003	6.36E-11	2.95E+09	6.59E+09	164.64	164.64	9.62	11.86
Coord         L.02E-09         3.69E+08         8.24E+08         BOXES           Exterior side [mm]         Intertia moment [mA]         Stress kine [N/mA2]         Knee's displacement in extreme [mm]         Hip's displacement in extreme [mm]         Mass Knee [g]           0.004         1.81E-11         6.92E+09         1.55E+10         579.38         729.38         3.32           0.004         8.67E-11         2.17E+09         4.84E+09         120.85         6.80         6.80           0.006         8.67E-11         1.77E+09         3.96E+09         74.15         74.15         6.80           0.008         1.41E-10         1.77E+09         3.96E+09         74.15         74.15         5.10           0.01         4.92E-10         6.36E+08         1.42E+09         21.29         21.29         1.64         37.76           0.02         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         1.64         37.76           OPTIMAL HIP'S PROFILE         Tube 20-18         Tube 20-18         Tube 20-18         1.64         1.64         37.76		0.005	4.91E-10	6.37E+08	1.42E+09	21.34	21.34	26.72	32.95
Exterior side [mm]         Intertia moment [m/4]         Stress knee [N/m^2]         Stress Hip [N/m^2]         Knee's displacement in extreme [mm]         Hip's displacement in extreme [mm]         Hip's displacement in extreme [mm]         Mass Knee [g]           0.004         1.81E-11         6.92E+09         1.55E+10         579.38         3.32         3.32           0.006         8.67E-11         2.17E+09         4.84E+09         120.85         120.85         6.80           0.008         1.41E-10         1.77E+09         3.96E+09         74.15         74.15         5.10           0.01         4.92E-10         6.36E+08         1.42E+09         21.29         21.29         12.25           0.02         0.02         6.37E-09         9.82E+07         2.19E+08         1.64         37.76           OPTIMAL KINE'S PROFILE           Tube 20-18		0.006	1.02E-09	3.69E+08	8.24E+08	10.29	10.29	38.47	47.45
Exterior side [mm]         Intertia moment [m/4]         Stress knee [N/m/2]         Stress Hip [N/m/2]         Knee's displacement in extreme [mm]         Hip's displacement in extreme [mm]         Miss Knee [g]           0.004         1.81E-11         6.92E+09         1.55E+10         579.38         3.32           0.006         8.67E-11         2.17E+09         4.84E+09         120.85         6.80           0.008         1.41E-10         1.77E+09         3.96E+09         74.15         74.15         74.15           0.01         4.92E-10         6.36E+08         1.42E+09         21.29         21.29         21.29           0.02         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         37.76           OPTIMAL KINE'S PROFILE           Tube 20-18						33%			
CASE IN CIRCLE IN COOK         A SECRETION OF TABLE IN COOK         A SEC	Imm] objection	Evtorior cido [mm]	Intertion on citrotal	C+rocs broo [N/m/2]	C+roce Hin [N/m/2]	Knoole displacement in outrame [mm]	um's displacement is action of alice	Mass Knoo [n]	Mass Hin [a]
OPTIMAL HIP'S PROFILE         Tube 20-18	0.0025	0.004	1.81F-11	6.92F+09	1.55F+10	579.38	579.38	3.37	4.09
0.008         1.41E-10         1.77E+09         3.96E+09         74.15         74.15         5.10           0.01         4.92E-10         6.36E+08         1.42E+09         21.29         21.29         12.25           0.02         6.37E-09         9.82E+07         2.19E+08         1.64         37.76           OPTIMAL KINE'S PROFILE           Tube 20-18         Tube 20-18         Tube 20-18	0.004	0.006	8.67E-11	2.17E+09	4.84E+09	120.85	120.85	6.80	8.39
0.01         4.92E-10         6.36E+08         1.42E+09         21.29         21.29         12.25           0.02         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         37.76           OPTIMAL KNEE'S PROFILE           Tube 20-18         Tube 20-18         Tube 20-18         Tube 20-18	0.007	0.008	1.41E-10	1.77E+09	3.96E+09	74.15	74.15	5.10	6.29
0.02         6.37E-09         9.82E+07         2.19E+08         1.64         1.64         37.76           OPTIMAL KNEE'S PROFILE         Tube 20-18         Tube	0.008	0.01	4.92E-10	6.36E+08	1.42E+09	21.29	21.29	12.25	15.10
Tube 20-18 Tube 20-18	0.017	0.02	6.37E-09	9.82E+07	2.19E+08	1.64	1.64	37.76	46.57
		OPTIMAL KNEE'S PR	OFILE	Tube 20-18					
		OPTIMAL HIP'S PRC	DFILE	Tilhe 20-18					