



FAST & FLUID MANAGEMENT B.V.  
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THE TINTING COMPANY

## Recommended Spare Partlist

### HA450 (Refill + High Speed)

Quantity	Partnr.	Description	Page
1	1602782-SP	Fuse10AT (10pcs)	6932-A
1	1861979-SP	sensor5,thomesen.assy,HA/TM From 25-07-05	6920
1	1863284-SP	Sensor 6,tablepos.TMXL From 25-07-05	6920
1	1864020-SP	sensor2,4,HA450	6921
1	1861975-SP	Proximity switch cansensor 18mm	6930
1	1812528-sp	Switch Safety	6920
1	1863891-SP	Powersupply 48V 300W	6922
1	1864860-sp	Powerboard 2002 new	6920
1	1813952-SP	Container,brush,assy,HA450 up to sn 931570	6935-A
1	1864888-SP	Container,brush,assy,HA450 POM as of sn 931571	6935-B
1	1814029-SP	Brush only HA450	6935-A/B/C
1	1863862-SP	Brush,motor,micro,screws,3pcs up to sn 931570	6935-A
1	1864889-SP	Brush, motor, w coupling as of sn 931571	6935-B/C
4	1862422-SP	Wheel, transferring, centric, 35mm	6935-C
1	1362230-SP	O-ring,can,vit,15,88x2,62 10st	6941
1	1861350-SP	O-ring,vit,23,52 x 1,78 10pcs (2oz)	6961
1	1863714-SP	O-ring,vit,38 x 2 10pcs (5oz)	6963
1	1863653-SP	O-ring,vit,52 x 2 10pcs (10oz)	6964
1	1810936-SP	piston solid teflon, 2oz, 4-seals HA (set for 1 pump)	6962
1	1810933-SP	piston solid teflon, 5oz, 4-seals HA (set for 10 pumps)	6963
1	1813322-SP	piston solid teflon, 10oz, 4-seals HA (set for 10 pumps)	6964
1	1817841-sp	Ring, click tube, ballvalve (5 pcs)	6964
1	1863708-SP	Motor 404 938 Agitation	6932-A
1	1863527-SP	Ballvalve 2005,Disk 5pcs+Tool	6961
1	1861940-SP	Motor 80,805,0,24V,i=49 (HA200/400 TT)	6933
1	1861943-SP	Motor, valve, 80.805.0,24V,i=245	6921
1	1862015-SP	Actuater,cantable,with screw8x	6911
1	1863480-SP	Repair kit,cable defect cantable.	

### HA450 REFILL

1	1814983-SP	Refill valve	6936-A/B/C
1	1815200-SP	Floater	6936-A/B/C
1	1864071-SP	Sensor Floater	6936-A/B/C

### HA450 Speedset

1	1814849-SP	TT motor HA450	6980
1	1864594-sp	Piston Detector complete	6934
1	1815318-SP	Micro switch piston detector up to sn 871237	6975-A



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## Recommended Spare Partlist

### HA650

Quantity	Partnr.	Description	Page
1	1602782-SP	Fuse10AT (10pcs)	6032-A/B
1	1861979-SP	sensor5,thomesen.assy,HA/TM From 25-07-05	6020
1	1863284-SP	Sensor 6,tablepos.TMXL From 25-07-05	6020
1	1864020-SP	sensor2,4,HA450	6021
1	1861975-SP	cansensor, assy	6030
1	1812528-SP	Switch D2D 1100	6022
1	1863891-SP	Powersupply 48V 300W	6022
1	1864860-SP	Powerboard 2010 USB	6020
1	1813952-SP	Container,brush,assy,HA650 up to sn 931570	6035-A
1	1864888-SP	Container brush assy, HA650 POM as of sn 931571	6035-B
1	1814029-SP	Brush only HA450	6035-A/B/C
1	1863862-SP	Motor, brush, 24V, RPM6050 up to sn 931570	6035-A
1	1864889-SP	Motor brush,w coupling as of sn 931571	6035-B
4	1862422-SP	Wheel, transferring, centric, 35mm	6030
1	1362230-SP	O-ring,can,vit,15,88x2,62 10st	6064
1	1861350-SP	O-ring,vit,23,52 x 1,78 10pcs (2oz)	6061
1	1863714-SP	O-ring,vit,38 x 2 10pcs (5oz)	6063
1	1863653-SP	O-ring,vit,52 x 2 10pcs (10oz)	6064
1	1810936-SP	piston solid teflon, 2oz, 4-seals HA (set for 10 pumps)	6062
1	1810933-SP	piston solid teflon, 5oz, 4-seals HA (set for 10 pumps)	6063
1	1813322-SP	piston solid teflon, 10oz, 4-seals HA (set for 10 pumps)	6064
1	1817841-SP	Ring, click tube, ballvalve (5 pcs)	6061
	1863528-SP	Ballvalve 2005,Disk 5pcs	6061
1	1863527-SP	Ballvalve 2005,Disk 5pcs+Tool	6061
1	1861943-SP	Motor 80,805,0,24V	6021
1	1814848-SP	Turntablemotorotor,TT HA650	6033
1	1862015-SP	Actuator,cantable,with screw8x	6011
1	1863480-SP	Repair kit,cable defect cantable.	
1	1863708-SP	Motor 404 938 Agitation	6032-A
1	1864594-SP	Piston Detector complete, as of sn 871238	6075-B
1	1815318-SP	Micro switch piston detector, up to sn 871237	6075-A
1	1814983-SP	Refill valve	6036-A/B/C
1	1815200-SP	Floater Refill	6036-A/B/C
1	1864071-SP	Sensor Floater Refill	6036-A/B/C



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## Recommended Spare Partlist

### TM300

Quantity	Partnr.	Description	Page
1	1864860-SP	PCB, USB 2010 CbV4	4620
1	1861980-SP	Sensor 5/6 TT home/pos disp2002	4622
1	1861976-SP	Sensor 2/4/8, step.H./valve.H.Mi	4620
1	1130071-SP	Motor,404156,incl screws TM300	4622/31
1	A-08811BVK-SP	Canister,assy,1,75,TM300	4640
1	A-08810BVK-SP	Can&pump, 1,75, fixed, TM300	4640
1	A-08812VK-SP	Pump,assy,TM300	4640
3	1862422-SP	Wheel,traversing,centric,35mm	4630
1	1862749-SP	Powersupply,assy,TM300	4630
1	1861975-SP	Sensor 1,cansensor assy	4630
1	1811074-SP	Wheel,driving,assy TM300	4631
1	1860537-SP	Container+brush,kit,TM300	4633
1	1863271-SP	Cantable assy HA150/TM300	4612
1	4120925-SP	Pin,index,housing,assy,comp	4613-A
1	A-08488-SP	Spring,valve,return(10pcs)	4641/43/45
1	A-B015VK-SP	O-ring,BS015,set(25pcs)	4641-45
1	A-03380AK-SP	Nozzle wiper, set, 21P/53P, 25pcs	4646
1	A-03541BK-SP	Nozzle, arm seal black, set (10pcs)	4646
1	A-13534K-SP	Nozzle, out, f3/16 "53P, set 10pcs	4646
4	A-B122VK-SP	O-ring BS122 (valve/set) 10pcs	4646
4	A-B011VK-SP	O-ring, BS011, nozzle 25 pcs	4646
1	A-03746K-SP	Solid, piston, teflon, set 10pcs	4646



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## Recommended Spare

HA150

Quantity	Partnr.	Description	Page
1	1864860-SP	PCB 2010 USB,w.software	5220
1	1861979-SP	Sensor 5 TableHomesensor	5221
1	1861976-SP	Sensor 2/4/8, step.H./valve.H.Mi	5220
1	1861978-SP	Sensor 4 Valveclosedsensor	5221
1	1863284-SP	Sensor 6 Table position	5221
1	1861943-SP	motor valve 80,805 0,24 i=245	5221
1	1860567-SP	Motor Agit.geared DC404,148	5230
1	1863708-SP	Motor Agit.404,938 From SN 710648	5230
3	1862422-SP	Wheel,traversing,centric,35mm	5230
1	1862749-SP	Powersupply,assy,TM300	5230
1	1861975-SP	Sensor 1,cansensor assy	5230
1	1812267-SP	Canister assy 2.3 L POM	5240
1	1812268-SP	Canister assy 4,5 L POM	5240
1	1810560-SP	Ball valve assy 2 oz	5240
1	1811074-SP	Wheel,driving,assy TM300	5231
1	1130071-SP	Motor TT 404,603 + 3 screws	5231
1	1362230-SP	O-ring,can,vit,15.88x2.62 (10pcs)	5241/42/43
1	1863547-SP	Brush assy TMXL	5233-B
1	1862722-SP	Motor micro brush 158-24-100	5233-B
1	1801842-SP	Fork container brush	5233-B
1	1810556-SP	Arm assy ballvalve	5241/42
1	1863527-SP	Ballvalve 2005 disk (5 pcs) + Tool	5241/42
1	1810497-SP	Piston assy 2oz ballvalve	5242



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## Recommended Spare Partlist

**SK350**

Quantity	Partnr.	Description	Page
1	1602782-SP	Fuse,T10A,set,10pcs	5810-A-B
1	1864739-SP	Motor,assy,shake,400W,SO20-A, up to sn 886049	5830-A
1	1863937-SP	V-bellt micro V 4PJ762 up to sn 886049	5830-A
1	1864240-SP	Motor, Shake, Wonder, 750W, as of sn 886050	5830-B
1	1864239-SP	V-belt shakemotor micro 4PJ790 as of sn 886050	5830-B
1	1864230-SP	Pulley motor size 80 D82, as of sn 886050	5830-B
2	1175211-SP	F2,fuse,T8,shake motor	
2	1864139-SP	Superstrut,SK350/450/550,4 pcs	5830-A-B
1	1864796-SP	Clampingmotor,SK350	5822
1	1862173-SP	V-belt,clamp,S03/400	5820
1	1862580-SP	Bearing,UCF 204 D1	5820
1	1863008-SP	Capacitor,50muf,400W,motor up to sn 886049	5840
1	1863007-SP	Capacitor,10muf,400W,SO20A up to sn 886049	5840
1	1863009-SP	Relais,2CR3-92,400W motor up to sn 886049	5840
1	1864485-SP	Capacitor run wondermotor as of sn 886050	5840
1	1864493-SP	Capacitor start wondermotor as of sn 886050	5840
1	1814370-SP	Powerboard,SK350	5840
1	1864920-SP	Trafo,powerunit,SK350	5840
1	1862616-SP	Switch micro, up to 09 feb 2014	5810-A
1	1160200-SP	Switch,micro, as of 09 feb 2014	5810-B
1	1860672-SP	Solenoid>manual,punch,HA	5840
1	1810429-SP	Belt,front,SO/SK	5802
1	1811350-SP	Spring leaf,door,SO/SK	5802



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## Recommended Spare Partlist

SK450/550/SO400

Quantity	Partnr.	Description	Page
1	1810665-SP	Shake,motor,assy,SO-400	4530
1	1864139-SP	Super strut,assy,4-pcs (SK450 version)	4530
1	1862172-SP	V-belt,SO-400,Micro	4530
1	1864590-sp	Clamp,motor,assy,SO-400	4523
1	1862580-SP	Bearing,UCF 203 D1	4520
1	1810562-SP	Trafo,powerunit,SO400	4540
1	1860672-SP	Magnet, solenoid, door	4540
1	1160200-SP	Switch door	4510-A-B
1	1864250-SP	Powerboard,SO400	4540
1	1810299-SP	Display,keyboard,assy,SO400	4540
1	1810429-SP	Belt,door,SO400	4502
1	1862810-SP	Motor,assy,door,SO400	5603
1	1815039-SP	Shake motor SK550	5630
1	1863715-SP	Powerboard,bi-directional,SK550	5640



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## Recommended Spare Partlist

### SK550 1.1

Quantity	Partnr.	Description	Page
1	1060213-SP	Motor, Shake, ABB	7130
1	1864139-SP	Super strut,assy,4-pcs (SK450 version)	7130
1	1818228-SP	V-belt, shake motor MV6PJ813	7130
1	1818105-SP	Pulley, shake motor, SK, 80mm	7130
1	1818227-SP	Clamp,motor,assy,SK 550 1.1	7120
1	1862580-SP	Bearing,UCF 203 D1	7120
1	1818145-SP	Powersupply, SP-200-24	7140
1	1860672-SP	Magnet, solenoid, door	7140
1	1160200-SP	Switch door	7110
1	1818155-SP	PCB, Logic Board V3.1	7140
1	1818130-SP	Display,SK, GA	7140
1	1818296-SP	Display, Keyboard assy, SK	7140
1	1818132-SP	Keyboard foil, SK	7140
1	1864913-SP	Inverter 3G3MX2-AB004	7140
1	1864915-SP	Netfilter for Inverter	7140
1	1818326-SP	Netentry line filter	7110
1	1818182-SP	On/Off-switch, round	7140
1	1810429-SP	Belt,door,SO400	7102







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## Recommended Spare Partlist

### GA450

Quantity	Partnr.	Description	Page
1	1068417-SP	ENCODER BOARD	A102032
1	A102029-SP	ELASTIC BAND	A102033
1	A100801-SP	BELT,HTD755-5M-25	A102007
1	A101501-SP	TRIANGLE KEY LOCK	A102037
1	1602782-SP	FUSE T10A	A102037
1	A101215-SP	ON-OFF SWITCH	A102037
1	A102161-SP	DOOR MAGNET	A101999
1	1864853-SP	DISPLAY BOARD INCL SCREWS	A102002
1	1816217-SP	KEYBOARD FOIL	A102002
1	1090126-SP	POLY BELT 1549J	A102036
1	1090125-SP	POLY BELT 914J	A102036
1	1864921-SP	TRANSMISSION SYSTEM	A102005
1	A101713-SP	DOOR LOCK SUBASSEMBLY	A101713
1	1816897-SP	AC ADAPTER	A101248
1	1816194-SP	GA450,LogicBoard	A101248
1	1816192-SP	INVENTOR BOARD	A101248



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## Recommended Spare Partlist

### Ferraris

Quantity	Partnr.	Description	Page
	2010821-SP	Complete Actuator Assy	11
	1090130-SP	Transmission Belt Long	11
	1090131-SP	Transmission Belt Short	11
	2011037-SP	Inverter Programmed Ferraris	12
	2010905-SP	Logic Board Programmed Ferraris	12
	1068417-SP	Optical Sensor Board	12
	1067723-SP	Actuator Control Board	12
	1068667-SP	Proximity Switch M18	12
	1090129-SP	Belt Upper Toothed	9
	4000646-SP	Crown Wheel Kit	4
	1068695-SP	Door Locking Magnet	2
	1068703-SP	Microswitch with cable	2



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## Recommended Spare Partlist

### Galileo

Quantity	Partnr.	Description	Page
	1864487-SP	Actuator Galileo	12
	2008833-SP	Smooth vulcanized upperplate	9
	1068377-SP	Schrack relay	
	4000647/4000646-SP	Crown wheel + pinion, shaft and bearing	4
	1090126-SP	Long transmission belt	12
	1090125-SP	Short transmission belt	12
	1090128-SP	Upper transmission belt	9
	1864610-SP	Safety doorlock	2
	1068417-SP	Optical sensor board	13
	4000556-SP	Complete electronic (NT version)	13
	1067740-SP	Inverter new From SN 3500	13
	4000761-SP	Inverter new From SN 3500 incl cooling kit	13



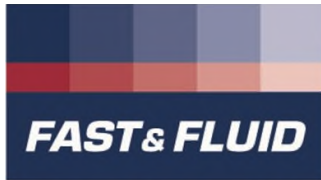
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## Recommended Spare Partlist

### Hercules Digital

Quantity	Partnr.	Description	Page
	1068377-SP	Relais Shrak	7;8
	1067689-SP	Logic Board(old) Limited Availability	7
	1864917-SP	Inverter new (Omron)	9
	1067743-SP	Logic Board(new)	9
	1817406-SP	Electromagnetic Lock (black)	2
	1090125-SP	Belt Poly Svil 914	3
	1090126-SP	Belt Poly Svil 1549	3
	1092017-SP	Bearing 6000	4
	1090093-SP	Belt Spz 2120	4
	4000600-SP	Complete Handle	5
	2005698-SP	Block Bush	5
	3001521/3001522-SP	Lock Nut DX/SX	5
	2000899-SP	Upper Disc Plate	5
	2003856-SP	Lower plate	6
	1092016-SP	Bearing 6010	6
	4000789-SP	Shutter	2
	1067681-SP	Transformer support board	9
	1060214-SP	Three phase motor	3
	1092015-SP	Bearing 6205	6
	1092014-SP	Bearing 6002	6



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## Recommended Spare Partlist

### Harbil Automatic 200-400 and 600

Quantity	Partnr.	Description	Page
1	1602782-SP	Fuse10AT (10pcs)	
1	1861979-SP	sensor5,thomesen.assy,HA/TM From 25-07-05	4921
1	1861980-SP	Sensor5/6,TT.home/pos.Disp2002 Up to 24-07-05	4921
1	1863284-SP	Sensor 6,tablepos.TMXL From 25-07-05	4921
1	1861976-SP	sensor2,stepmot-assy,HA2/4/6TM	4921
1	1861982-SP	sensor8,vmidsen-assy,HA2/4/600	4921
1	1861978-SP	sensor4,vclosensor.HA2/4/6TM	4921
1	1861975-SP	Proximity switch cansensor 18mm	4930
1	1861943-SP	Valve motor, unit	4921
1	1862231-SP	Switch Safety	4920
1	1860745-SP	Fuse 3,15AT (10pcs)	4320
1	1862234-SP	Transformer 345VA,1*30V,2*115V	4920
1	1863370-SP	Powerboard 2002	4920
1	1862233-SP	Powersupply,disp.2002SD	4920
1	1814917-SP	Keyboard,Qwerty,HA 1.2 new	4941
1	1809161-SP	Container,brush,assy,2002SD	4950
1	1861240-SP	Brush,motor,with,screws,3pcs	4950
2	1862421-SP	Wheel, transferring, excentric, 35mm	
4	1862422-SP	Wheel, transferring, centric, 35mm	4931
1	1362230-SP	O-ring,can,vit,15,88x2,62 10st	4955
10	1862561-SP	O-ring valve,vit,6,00*2,00	4935
10	1810932-SP	piston solid teflon, 2oz, 4-seals HA (for 1 pump)	4935
1	1863528-SP	Ballvalve 2005,Disk 5pcs	4977
1	1863527-SP	Ballvalve 2005,Disk 5pcs+Tool	4977
1	1861940-SP	Motor 80,805,0,24V,I=49 (HA200/400 TT)	4942
1	1862560-SP	Motor,GR53x30,PLG52 i=64,24V (HA600 TT)	4943
1	1862015-SP	Actuator,cantable,with screw8x	4915
1	1860567-SP	Motor,gearred DC 404.148,Ha-m/l (agitation)	4930
1	1864007-SP	To fit 1860567-SP in HA2/4/6 from SN 713625/713091/714443	
1	1864005-SP	New Agitation motor Fits all HA2002	