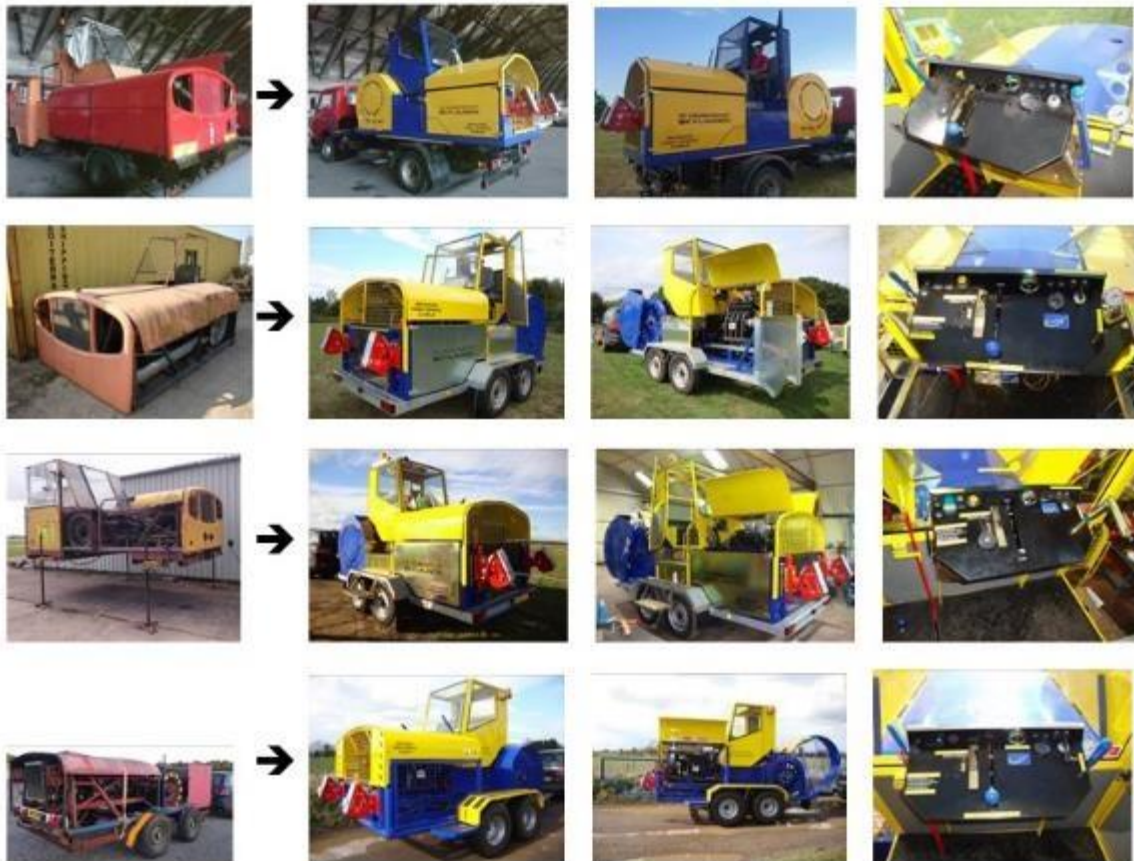




COMPONENTS, UPGRADES AND SPARES FOR TOST (AND ALL NON-SKYLAUNCH) WINCHES



Contents:

- | | | | |
|---|--------------------------------|---|-------------------------------|
| * | Engines, Transmissions etc. | * | Deliver / Installation |
| * | Skylaunch Final Drives etc. | * | Controls |
| * | Roller boxes, Guillotines etc. | * | Tost Final Drive, Brakes etc. |
| * | MEL / Vangelder Parts | * | Cables and equipment |
| * | Payment terms etc. | | |

SKYLAUNCH PARTS FOR NON-SKYLAUNCH WINCHES

Part No.	Description	Photo	EUROS €
ENGINE AND FUEL SYSTEMS			
SK-E82	GENERAL MOTORS (Chevy) V8 BIG BLOCK ENGINE Up to 300kw / 400Hp (depending on fuel system) 8 litres, fully assembled with the following equipment - Water pump, inlet manifold, contactless HEI distributor system, coil, spark plugs, high performance ignition HT lead set. Engine protection RPM limiter, auto-flywheel, gear reduction starter motor, with relay, loom and earth strap. Dipstick assembly, oil filter including adaptor and oil pressure switch, pipe work for transmission vacuum, coolant etc, breather and hose. Universal alternator and mounting brackets / threaded adjuster. Engine cradles and adjustable marine chassis rubber mounts. 550mm Ø reverse pitch crankshaft fan with machined spacer mount. Twin row water pump and crankshaft pulleys with HD V-belt. Self-contained left and right exhaust system with built-in headers – <i>May need modification to fit a Tost winch.</i> Thermostat and O-ring seal housing, coolant temperature gauge and sender kit. Spare oil filter and engine oil for first 200 launch service	  	€17,967.00
SK-EXR	EXHAUST SYSTEM As specified above, supplied separately for customer's own GM 'Big block Chevy' engine 7.4 or 8.2 litre (includes gaskets set and all fasteners).		€893.00 (pair)
SK-EXS	REDUCED NOISE EXHAUST SYSTEM Dual bank Triple silencer system to significantly reduce exhaust noise from petrol / Propane 7.4 / 8.2 litre engines <i>For Airfields near residential or other noise sensitive areas.</i>		€1,238.00 (pair)

SK-RMK	MARINE RUBBER ENGINE / TRANSMISSION MOUNTS KIT Conversion kit for customer's own GM 'Big Block Chevy' engine (7.4 or 8.2 litre) and GM T400 Transmissions. Engine mounts are adjustable sideways and for height.		€328.00
SK-FSG-K	FUEL SYSTEM – PROPANE Propane carburettor and manifold adaptor, throttle body and gaskets / insulator, air filter housing and element, Propane evaporator and fuel lock C/W fittings, new 100 litre Propane tank C/W mounting brackets, fuel line and hose etc. <i>Price can be reduced if refurbished Propane tank(s) is(are) used = €150 - €250 reduction per tank</i> <i>Additional Propane tanks up to 200 litres fuel capacity each are available - €POA</i>		€2,638.00
SK-FSG-T	PROPANE TANKS – New tanks with mounting brackets, fixings etc. Propane tanks up to 200 litres fuel capacity each are available. Refurbished propane tanks also available and would reduce the price by €150 - €200, ask for details.		€POA
SK-FSP-K	FUEL SYSTEM - PETROL CARBURETTOR Carburettor, throttle body and gasket / insulator, air filter housing and element. Fuel pump, fuel pre-filter and main filter, assemblies, brackets, fittings etc. Hoses and clips from carburettor to main filter, pump and pre-filter. (Price excludes fuel tank, see below)		€2,794.00

SK-FSPI-K	FUEL SYSTEM - PETROL FUEL INJECTION (EFI) Electronic fuel injection system with throttle body and gasket / insulator, air filter assembly, adaptor and element. EFI control unit with complete wiring harness. Fuel pump, fuel- pre filter and main filter assemblies, brackets etc. Hoses and clips from carburettor to main filter pump and pre-filter. (Price excludes fuel tank, see below)		€4,009.00
SK-FSP-T	PETROL (GASOLINE) TANK Marine type plastic fuel tank, with steel mounting tray and strap, 91 litre capacity (910mm long x 300mm wide x 410mm high) Mechanical Level gauge is fitted on tank <i>Other sizes and capacities of tanks are available to order – POA</i>		€489.00
SK-FSP-FG	ELECTRONIC REMOTE LEVEL GAUGE AND SENDER KIT For above fuel tank, to be fitted in control panel.		€148.00
SK-TU-C-K	‘CHEVY FIT’ GM T400 TRANSMISSION – WITH SHORT TAILSHAFT Heavy duty General Motors 3 speed automatic transmission, to fit standard Chevrolet big block and small block engines, fitted with - Smooth shift mechanism, torque converter with stall speed specification to suit glider launching, high-capacity sump pan, adjustable vacuum modulator, custom built governor unit. Drive - neutral control gate with detent*, control lever arm*, linkage rod and fittings*. Cooler outlet adaptors to standard thread ports with 90° hose outlets, rubber rear mount(s) assembly*, speedometer drive plug and retainer*. Special short dipstick and tube assembly* Includes large diameter pressure gauge kit, for correct transmission calibration and then for monitoring of cable tension during the glider climb while launching, to optimise launches and reduce weak link breaks. Available separately to upgrade existing transmissions (which are not fixed in one gear) = €114.00 <i>Price does not include Prop shaft – see below</i>	  	€4,089.00

SK-TU-O-K	‘OLDSMOBILE FIT’ GM T400 TRANSMISSION - WITH LONG TAILSHAFT As above, but with case to fit Oldsmobile engine bolt pattern and with long tail shaft housing – fits most original Tost winches.		€4,089.00
SK-TPS-?	PROP SHAFT (BALANCED) – Manufactured to order Supplied with built in transmission tail shaft yoke (price varies if customers axle pinion flange can be re-used and lengths are to suit customer’s requirements).		€450-600
SK-T-K	KIT OF TRANSMISSION ANCILLIARIES to fit customer’s own GM 3 speed transmission (same models as above) Including: Drive - neutral control gate with detent, control lever arm, linkage rod and fittings. Cooler outlet adaptors to standard thread ports with 90° hose outlets, rubber rear mount assembly, speedometer drive plug and retainer. Special short dipstick and tube assembly		€372.00
SK-T-SAG	SELECTOR ARM AND GATE KIT – with ball plunger. Restricts transmission shift to D and N gear positions only.		€166.00
SK-T-CS	INDUSTRIAL TYPE TRANSMISSION COOLER ASSEMBLY Kit includes: Electric fan, mounting brackets, with self-contained temperature sender switch for fan and fittings / adaptors to fit in line, oil hoses etc.		€1,253.00
SK-T-WS	TRANSMISSION OVER-HEAT WARNING Transmission over-heat warning light and buzzer kit, including temperature switch, fittings, wiring, connectors etc.		€163.00
SK-E-CS	ENGINE COOLING SYSTEM Engine coolant radiator, 3 row copper x core and separate transparent header tank with brackets to suit Four rubber mountings on steel radiator cradle assembly, fan cowling mounted onto cradle. Top and Bottom hoses / metal elbow and header tank hoses complete with clips		€1,993.00

SK-E-RF	RADIATOR FAN - 600mm Diameter Available as high-capacity pusher or puller – size can be cut down in diameter to fit customers fan cowling		€275.00
SK-E-RAF	ELECTRONIC BOOSTER FAN KIT– Available as pusher or puller, with mount brackets and thermoswitch, wiring, relay etc.		€280.00
DELIVERY / INSTALLATION OF SKYLAUNCH COMPONENTS			
Prices are estimated and subject to details agreed, specific to each winch and exact location in each country. Prices based on winches located in Germany, France, Benelux. Please contact for prices in other countries			
SK-MI-DFE	DELIVERY / INSTALLATION / TESTING BY SKILLED SKYLAUNCH TECHNICIAN Engine / transmission and cooling systems. With assistance from customers skilled members and workshop / lifting equipment etc. <i>Labour only - Parts not included.</i>		Estimate €5,500 - €6,500 Depending on exact location, food/accom modation, etc.
SK-MI-DFEC	DELIVERY / INSTALLATION / TESTING BY SKILLED SKYLAUNCH TECHNICIAN Engine / transmission, cooling systems, and control panel system. With assistance from customers skilled members and workshop / lifting equipment etc. <i>Labour only - Parts not included</i>		Estimate €6,500 - €7,500 Depending on exact location, food/accom modation, etc.

SKYLAUNCH FINAL DRIVE SYSTEM, DRUMS, ETC.

SK-BB-CFD	FINAL DRIVE ASSEMBLY Complete Skylaunch system, assembled for twin drum operation All new, with standard Lockheed disc brakes, callipers (including pads). Drum hubs, hardened spline male/female couplings for easy drum selection. Chassis mount points, oil level sight glass, switch for neutral light, etc. <i>Ratios available from 3:1 to 6:1 to suit customer requirements</i>		€20,108.00
SK-BB-ABO	AUTOMATIC CABLE TOW-OUT BRAKE SYSTEM For Skylaunch Final Drive Assembly. Includes mechanical Left and Right brake callipers with pads, gas strut actuators and linkages to suit.		€2,514.00
SK-BB-SD	FINAL DRIVE ASSEMBLY – SINGLE DRUM Final Drive Assembly as above but assembled for single drum operation. <i>Note: Unit is prepared for future upgrade to twin drum system</i>		€18,716.00
SK-BB-MF	FINAL DRIVE MOUNTING FRAME Includes 8 mount holes for final drive and lower cable retainer bolts, if loose cable separates from drum		€524.00
SK-WD-??	NEW CABLE DRUMS – Steel construction Skylaunch design High strength, light weight steel and re-enforced, proven design. Machined core and bolt face, fully balanced. Cable funnelling catch rails included, if enough space in winch. Suitable for all cable types / sizes (steel or synthetic). <i>Other sizes available to suit customer requirements (maybe at additional cost)</i> Diameters are calculated by Skylaunch to give optimum cable speed. <i>Capacity up to 2000m (5mm diameter) with Dyneema / Spectra / steel cables.. (Capacity of 1200m if using 10mm Skyrope)</i>		€3,969.00 (each)

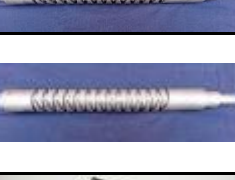
ST-DRK	TOST DRUM REINFORCEMENT FOR SYNTHETIC CABLES – KIT ONLY Steel band(s) kit, with counter sunk screws and instructions to reinforce original Tost 4 drum(s) This will require customer to weld the bands onto (around) original drum(s) and drill holes into aluminium drum core to secure bands in place		€548.00 per drum
ST-DRK-F	TOST DRUM REINFORCEMENT FOR SYNTHETIC CABLES Supply and Fitting of Steel band upgrade kit at Skylaunch, including rebalancing of drum Excludes price of drum if not customers own, transport of customers drum(s) to and from Skylaunch		€802.00 per drum
ST-UD-T	TOST ORIGINAL USED ALUMINIUM OR STEEL DRUMS – Various types and conditions in stock for Tost 4, or later models, please ask for details.		From €450
CONTROLS, ETC.			
SK-CPS	SKYLAUNCH CONTROL PANEL SYSTEM Includes- Power control presets for glider type and head wind speed, with steel control panel and console, pivot mechanisms, acceleration control damper, cable, brackets etc. Throttle lever and rod, pivot, swivel ends and all fasteners to suit. Additional options available- see below		€2,005.00
SK-CPS-??	CONTROL PANEL OPTIONS Universal Control Panel mounting frame incorporating drive, drum brake lever pivots and brake master cylinder mount. Brakes master cylinder and lever assembly, drive lever and actuation arm.		ADD €531.00
SK-CPS-WB	Cable tow-out tension weight and bracket.		ADD €56.00
SK-CPS-??	Electronics - Ignition switch, master switch, wiring looms with DC Re-settable circuit breakers, warning lamps, engine rpm and temperature gauges / sender, voltmeter, switches and labels etc – to suit customer's requirements.		ADD €POA

ROLLER BOXES, GUILLOTINES ETC.

SK-GUA	GUILLOTINE ASSEMBLY Robust guillotine unit (50mm² cable aperture) to cut steel or synthetic cable – As fitted to all new Skylaunch winches Powerful coil spring powered chisel and anvil cutting system. Replaceable blades and release pin. Self-contained unit with universal bolt mounting points. Includes resetting tool and ratchet.		€1,956.00 (each)
SK-CPRB-A	SYNTHETIC CABLE PULLEY / ROLLER SYSTEM: Swivelling system with large diameter aluminium pulleys and tube side rollers for use with synthetic cables. HD Swivel design, so does not tighten under load. All bearings are standard metric sealed type. Available with 4 bolt universal chassis mount – Or Tost fit 4 bolt mount to guillotine		€2,210.00 (each)
SK-CPRB-S	STEEL PULLEY / ROLLER SYSTEM: (FOR USE WITH STEEL CABLE) As above but fitted with fully hardened long-life pulleys and side rollers manufactured from high grade steel – - for use with steel cables. <i>All components are interchangeable to easily transfer between steel and aluminium for synthetic cable launching.</i>		€2,482.00 (each)
SK-CPRB-APCA	Aluminium pulley complete with top hat inserts, bearing & circlip, mounting bolt and sleeves to fit into housing / frame.		€191.39 (each)
SK-CPRB-CAR	Complete aluminium side roller assembly – with mounting bolt and sleeves to fit into housing / frame.		€92.12 (each)
SK-CPRB-??	Hardened steel pulleys and Rollers for above Skylaunch Pulley Roller boxes also available, for use with steel cables - - please ask if required.		€POA

SK-CPRB/G U-MF	MOUNTING FRAME For above pulley / roller system and guillotine assembly. Steel fabrication with universal mounts / bolt holes to attach on a winch chassis		€230.00 (each)
ST-GUK-F	RE-ENGINEER CUSTOMERS ORIGINAL TOST 4 GUILLOTINES TO CUT DYNEEMA Assumes customers guillotines are in good serviceable condition – to be advised on receipt of parts: Full Skylaunch conversion - will require entire units to be sent to Skylaunch for conversion Skylaunch to completely re-engineer TOST 4 Guillotines including new blade and anvil, re-machining of Blade carrier, repaint and rebuild. <i>Price assumes original complete guillotine units to be sent to Skylaunch UK for work to be carried out*</i>		€1,339.00 for 1 off €2,479.00 for 2 off
ST-GUK-K	KIT FOR CUSTOMER TO RE-ENGINEER THEIR ORIGINAL TOST 4 GUILLOTINES TO CUT DYNEEMA – KIT ONLY Assumes customers guillotines are in good serviceable condition A kit of upgrade parts and instructions for the customer to fit themselves. Supply conversion kit only Skylaunch to provide kit of components to re-engineer TOST 4 Guillotines, including new blade and anvil, specially machined fixings and instructions for customer re-machining of Blade carrier. <i>Note: Tost winch designs vary, so guillotine blade mount bolt points may need also re-machining by customer.</i>		€390.00 for 1 off €664.00 for 2 off
ST-GB	REPLACEMENT PARTS FOR GUILLOTINE CONVERSION - Sliding Blades for Skylaunch Tost Guillotine conversion		€126.00 (each)
ST-GA	Fixed Anvils for Skylaunch Tost Guillotine conversion		€129.00 (each)
ST-GBS	Mounting screws for Skylaunch Tost Guillotine conversion, for blades or anvils.		€4.60 (each)

TS-GB	Replacement parts for original Tost guillotine Good condition Used Blades for Tost Guillotine conversion-subject to availability		€60.00
ST-HSP	HARDENED STEEL PULLEY FOR TOST PULLEY HEADS New manufacture to improved design for increased cable joint life.		€136.00 (each)
ST-ACP	ALUMINIUM CABLE PULLEY FOR TOST PULLEY HEADS As above but Aluminium		€121.00 (each)
ST-DRB-TP	Replacement double row sealed pulley bearing - Premium		€39.44 (each)
ST-DRB-TB	Replacement double row sealed pulley bearing - Budget		€16.13 (each)
ST-PCP	New Pulley Bearing clamp plates <i>(including 3 x Screws)</i>		€8.34 (each)
TS-PCP	Pulley Bearing clamp plates <i>(including 3 x Screws)</i> Good condition used, with 3 x new screws		€5.82 (each)
ST-PCP-S	Pulley Bearing clamp plate Screws		€0.16 (each)
ST-AR	ALUMINIUM ROLLER FOR TOST ROLLER HEADS Improved larger diameter design – 28mm diameter Outer only - For use with synthetic cables		€75.35 (each)
ST-AR-BRB	Replacement sealed roller bearing – for above and original Tost rollers - Budget.		€1.52 (each)
ST-AR-BRP	Replacement sealed roller bearing – for above and original Tost rollers - Premium		€5.32 (each)
ST-AR-BN	Replacement roller bolt and nut – for Tost rollers.		€15.05 (each)

ST-AR-BS	Bearing Spacer - for Tost rollers.		€10.08 (each)
TS-LWR-C	TOST LEVEL WIND ASSEMBLY Recondition of customers scroll boxes. Fit with a new scroll shaft and follower stone, bearings etc. Left or Right unit.		€2,105.00 (each)
TS-LWR-S	Skylaunch supply of scroll box, Reconditioned as above - Left or Right unit.		€2,251.00 (each)
TS-LW-U	TOST LEVEL WIND - USED Low hours Scroll box – subject to availability		€946.00 (each)
ST-LWS-B	Tost level wind scroll bar – new		€781.00 (each)
TS-LWS-BU	Tost level wind scroll bar – used , good condition Subject to availability		€576.00 (each)
ST-LWS-P	Tost level wind follower stone / puck – new		€262.00 (each)
TS-LWS-PU	Tost level wind follower stone / puck – used Subject to availability		€97.60 (each)
ST-LWS-UK6	UPGRADE KIT FOR LEVEL WIND TO USE 6mm CABLE Includes new cast iron pulley with taper lock hub. New V – belt to suit (<i>Measurements of originals will be needed</i>)		€103,00 (per side)
ST-LWR-A-5/6	ALUMINIUM LEVEL WIND ROLLERS To fit customer's own original Tost bearings, bolt etc. (4 required per winch) For 5mm or 6mm cable - please specify		€63.00 (each)
ST-LWR-S5	TOST LEVEL WIND ROLLER – STEEL - NEW New hardened steel rollers for use with steel cables Subject to availability		€101.00 (each)
TS-LWR-SU	TOST LEVEL WIND ROLLER – STEEL – USED Good condition used rollers Subject to availability		€53.40 (each)

ST-LWR-B	Bearings for Tost level wind rollers		€5.94 (each)
ST-LWR-MB	Bolt / spindle for Tost level wind rollers		€10.68 (each)
TOST FINAL DRIVE, BRAKES ETC.			
ST-DBC-T	DISC BRAKE CONVERSION TO FIT TOST WINCHES: Includes new brake discs machined and fitted to inside edge of existing brake drums, standard brake callipers / mount brackets and easily accessible pads (same parts as all Skylaunch winches). New single master cylinder connected to both callipers and one brake lever / pivot unit. Includes brackets / fittings / pipe work and weight attachment for tow-out brake. Requires welding/fabrication and machining of original lorry brake drums. <i>Kit price based on customer machining their two brake drums and the new Skylaunch discs to suit.</i>	 	€2,568.00 (per 2 drums)
TS-DBC-TS	Kit price based on Skylaunch machining two brake drums and discs for customer – Price assumes an order of 2 off, brake drums to be sent to Skylaunch UK for work to be carried out*		€3,193.00 (per 2 drums)
TS-DBC-TC2	Additional Brake lever / pivot unit - for above conversion. Includes master cylinder, bracket / fittings / pipe work and weight attachment for tow-out brake. For independent drum braking. – - NOT required for normal two drum launch operations.		ADD €531.00

TS-ARC	TOST 4 AXLE RE-ENGINEERING – COMPLETE CONVERSION TO CUSTOMERS UNIT Includes: DBC-T Disc Brake conversion (listed above) MDS-T Improved Drum drive shafts (listed below) Strip down, inspection and service of complete axle with new bearings in differential as required. All pre-assembled with brake lines etc, ready for mounting onto winch chassis. Fully re-painted including base and top coat.	 	€8,523.00
TS-ARS	Surcharge for Skylaunch to supply donor Tost 4 axle assembly	SURCHARGE	ADD €3,500.00
TS-ASF	Steel fabricated subframe (only) – Steel fabricated sub frame to mount Tost axle onto club-built winches It will raise whole unit up to allow fitting larger diameter narrow drums, with brake calliper mounts.		€682.00
TS-ACT	Turn centre section over to operate correct way up. (as original is upside down, causing oil feed issues to the bearings). <i>Note; This will produce cable feed from the bottom of the drum.</i>		€123.00
TS-SSL	SINGLE SELECTOR LEVER OPTION Modify 2 separate L + R drum selector levers to one single lever L - N - R drum system, includes linkages and mechanisms.		€1,038.00
TS-LWD	Remove and blank off pay-on (level wind) mechanisms - for conversion to narrow cable drums.		€135.00
TS-PBS	Fully Automatic Partial brake system on drum selector lever (s) – to apply drag on brake disc when 'neutral' is selected and for slow tow out speeds (depending on drum weight). This includes a LH and RH assembly with spring actuation and brake pads, brackets, ball joints etc. Assembly fits onto top of drum selector housing plate and links to drum select levers. <i>Recommended, especially if steel cable drums are fitted.</i>		€529.00

ST-DSCH	Replacement bolts for Tost drive shaft selector Modified bolts machined down to fit the Tost drum select system		€4.90 (each)
ST-FDS 1	Final drive inner hub seal for 94mm bearing hub		€53.52 (each)
ST-FDS 2	Final drive inner hub seal for 95mm bearing hub		€15.44 (each)
ST-MDS	IMPROVED DRUM DRIVE SHAFTS TO FIT TOST WINCHES: Modification to eliminate common Tost problem of keyways shearing off on the drum end of the shaft (which can also break the complete hub and brake assembly). Includes increasing the diameter of the shaft, re-design of the keys and taper. Manufactured new high grade axle hub end caps to suit. <i>Requires customers original shafts.</i>		€1,333.00 (Per Twin Drum Winch) €773.00 (Single shaft only)
SKYLAUNCH SYNTHETIC CABLES			
SKY-5-	SKYNEEMA HS (HIGH STRENGTH) LAUNCH CABLE – 5 MM Weight – 1.4kg/100m / Breaking Strain 3,400kg Available in bright colour		€1.17/m
SKY-5-	SKY DYNALINE LAUNCH CABLE – 5.5 MM Weight – 1.5kg/100m / Breaking Strain 3,480kg Available in blue colour For hi wear systems (suitable for use with Pay-on)		€1.32/m
SKY-6-	SKYNEEMA HS (HIGH STRENGTH) LAUNCH CABLE – 6 MM Weight – 2.0kg/100m / Breaking Strain 4800kg Available in bright colour		€1.44/m
MI-DRK	DYNEEMA REPAIR KIT Tool set in box with – Dyneema scissors, splicing needle, tape and instructions.		€49.00

SKYLAUNCH UPGRADES FOR MEL / VANGELDER WINCHES

Skylaunch provide parts, spares, upgrades and on-site support for all old MEL / Van Gelder / Busio winches including European Military organisations.

Please don't forget Skylaunch offer support and assistance with all aspects of operation and maintenance of these winches and all other types of Glider winch.



Above are a few example pictures of some of the MEL / VanGelder parts manufactured, stocked and supplied by Skylaunch:

Service and spare parts, Consumables, Accessories etc:

- ▶ Full Dyneema conversion components and instructions,
- ▶ Adapters to upgrade to Skylaunch Pulley Roller Heads,
- ▶ Cable Pulleys, Rollers, Bearings, etc.
- ▶ Guillotine Blades and other parts,
- ▶ Drum repairs or complete new Drums,
- ▶ Chain Drive and driveline components,
- ▶ Brake and pay-on (level wind) parts,
- ▶ Drive Belts, Pulleys,
- ▶ Filters, Lubricants, etc,
- ▶ Cables, Parachutes and Accessories,

All other winch parts also available – please enquire.

CABLE END LAYOUTS

	A - Standard Layout (steel cables) For use with stranded Steel or non-braided synthetic cables (Skyrope) For steel cables any swivels fitted must lock under load.		B - Standard Layout With Bearing Swivel Only for use with braided synthetic cables		C - Lightweight (min steel) Layout with Bearing swivel but <u>without</u> disconnect at cable end For use with braided synthetic cables at higher risk cable landing zones		D - Lightweight (min steel) Layout with Bearing swivel <u>with</u> disconnect at cable end For use with braided synthetic cables at higher risk cable landing zones	
Ser.	Item	Price	Item	Price	Item	Price	Item	Price
1	(Cable Eye with) Buffer	€10.45	(Cable Eye with) Buffer	€10.45	(Cable Eye with) Buffer	€10.45	(Cable Eye with) Buffer	€10.45
2							Aluminium Karabiner	€22.49
3	SS Jaw/Eye locking swivel	€14.19	10mm Bow Shackle	€7.90	Soft Shackle	€19.29	Soft Shackle	€19.29
4	Parachute-Aerochute w/Standard plates	€227.16	Parachute-Aerochute w/Standard plates	€227.16	Parachute-Aerochute w/Loops	€227.16	Parachute-Aerochute w/Loops	€227.16
5	10mm Bow Shackle	€7.90	10mm Bow Shackle	€7.90	Soft Shackle	€19.29	Soft Shackle	€19.29
6			Bearing Swivel	€57.74	Bearing Swivel	€57.74	Bearing Swivel	€57.74
7			10mm Bow Shackle	€7.90	Soft Shackle	€19.29	Soft Shackle	€19.29
8	16mm Trace 17m-Eye QR Hook w/Ring	€77.44	16mm Trace 17m-Eye QR Hook w/Ring	€77.44	16mm Trace 17m-Eye Eye	€48.82	16mm Trace 17m-Eye Eye	€48.82
9	QR Ring	€18.61	QR Ring	€18.61	Aluminium Karabiner	€22.49	Aluminium Karabiner	€22.49
10					Soft Shackle	€18.20	Soft Shackle	€18.20
11	WLH Shackle-Rounded type	€6.66	WLH Shackle-Rounded type	€6.66	WLH Shackle-Rounded type	€6.66	WLH Shackle-Rounded type	€6.66
12	Plastic Weak Link Holder	€13.65	Plastic Weak Link Holder	€13.65	Plastic Weak Link Holder	€13.65	Plastic Weak Link Holder	€13.65
13	Weak Link (any colour)	€5.37	Weak Link (any colour)	€5.37	Weak Link (any colour)	€5.37	Weak Link (any colour)	€5.37

14	WLH Shackle-Rounded type	€6.66	WLH Shackle-Rounded type	€6.66	WLH Shackle-Rounded type	€6.66	WLH Shackle-Rounded type	€6.66
15	3m Strop – 6mm SS ring Flag Glider rings + HS on 1 end	€88.51	3m Strop – 6mm SS ring Flag Glider rings + HS on 1 end	€88.51	3m Strop – 6mm SS ring Flag Glider rings + HS on 1 end	€88.51	3m Strop – 6mm SS ring Flag Glider rings + HS on 1 end	€88.51
16	Total Per side	€476.60	Total Per side	€535.95	Total Per side	€563.58	Total Per side	€586.07
17	Total Per Twin Drum Winch	€953.20	Total Per Twin Drum Winch	€1071.90	Total Per Twin Drum Winch	€1,127.16	Total Per Twin Drum Winch	€1,172.14

Three Recommended Cable Layouts (listed per 1 Drum)

<u>A. Standard Layout with locking swivels</u> For use with stranded Steel cables or non-braided twisted construction synthetic cables (e.g. Skyrope) (Cable Eye with) Plastic buffer SS Jaw/Jaw locking Swivel* Parachute - Aerochute with steel clamp plates holding straps SS Jaw/Jaw locking Swivel* 16mm Trace 17m - Eye end QR Hook with ring, spliced into eye end QR Ring WLH Shackle - Rounded type* Plastic Weak Link Holder Weak Link (any colour) WLH Shackle - Rounded type* 3m Strop – 6mm SS ring (Optional Strop Flag – colour coded to weak link OR Hi vis orange) Heat shrink one end Glider rings	
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B. Standard Layout with Bearing Swivel

Only for use with braided synthetic cables

(Cable Eye with) Plastic buffer

8mm Bow Shackle*

Parachute - Aerochute with steel clamp plates holding straps

8mm Bow Shackle*

Aluminium lightweight bearing swivel

8mm Bow Shackle*

16mm Trace 17m -

Eye end

QR Hook with ring, spliced into eye end

QR Ring

WLH Shackle - Rounded type*

Plastic Weak Link Holder

Weak Link

(any colour)

WLH Shackle - Rounded type*

3m Strop -

6mm SS ring

(Optional Strop Flag - colour coded to weak link
OR Hi vis orange)

Heat shrink one end

Glider rings



C. Enhanced Safety Layout

For use only with braided synthetic cables - Low metal cable layout, for increased safety on airfields where there may be hazards (e.g.: highways, footpaths, power lines, buildings, parked vehicles, gliders, etc.) in case the cable drifts and lands in the wrong area, including if cable break / launch failure. (Many clubs have stories of various incidents/accidents!)

(Cable Eye with) Plastic buffer

Soft Shackle

Parachute - Aerochute with loops on the strap ends.

Soft Shackle

Aluminium lightweight bearing swivel

Soft Shackle

16mm Trace 17m -

Eye end

Eye end

Aluminium Karabiner

Soft Shackle

WLH Shackle - Rounded type*

Plastic Weak Link Holder

Weak Link

(any colour)

WLH Shackle - Rounded type*

3m Strop -

6mm SS ring

(Optional Strop Flag - colour coded to weak link
OR Hi-vis orange)

Heat shrink one end

Glider rings



NOTE 1: * For certain customers in Europe (Germany, for example) Bolts and Lock nuts are required on the shackles and Jaw swivels –

- These are available for a small additional cost

NOTE 2: Specification in some Countries also includes requirement for detachment of launch equipment at cable end –

- For this we offer Aluminium lightweight karabiners or QR Hooks and rings

Discounts available for multiple purchases

All parts available with instructions / notes including set-up, operation and maintenance as required - for fitting costs, contact Skylaunch.

-CUSTOMERS CHOICE OF Collection or delivery to any country is available.

Skylaunch are happy to give free no obligation advice to gliding clubs looking to re-engineer or improve their winching performance / safety or replacing / repairing worn or damaged parts.

Skylaunch have a Euro account, so can supply invoices in Euros as required.

ALL PRICES IN THIS DOCUMENT ARE LISTED IN EUROS AND EXCLUDE Carriage / Shipping, VAT, taxes, etc.

ALL ITEMS ARE CLASSED WITH AN AVIATION COMODITY CODE (880510100), WHICH MEANS THERE ARE NO IMPORT DUTIES TO PAY IN EUROPE AND OTHER COUNTRIES.

IF APPLICABLE PRICES QUOTED ARE SUBJECT TO INSPECTION OF CUSTOMERS SUPPLY OF DONOR / CORE COMPONENTS

Prices are valid from November 2025

Standard payment terms are -

- 50% with placement of all ordered items.
- 50% when order is complete ready for dispatch, (or if delivered / fitted by Skylaunch personnel).

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