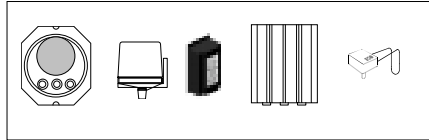


Fly-By-Wire Steering and Autopilot

Web Price US \$ excl. sales tax Jan '07

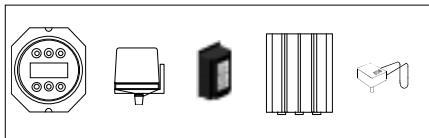
Fly-By-Wire steering with autopilot (26 00 01) Set: \$ 1'876.50



23 10 00 Steering Wheel	\$ 489.17
23 01 00 Autopilot Computer (Drive-Box)	\$ 562.73
23 00 04 Rudder Angle Sensor	\$ 125.79
91 01 05 Flux-Gate Sensor	\$ 411.93
91 02 05 Sonic Heading Gyro	\$ 286.88

A steering wheel, that holds the heading. The steering wheel determines the rate of turn, not the rudder angle. The heading is held, when the wheel is centered, the autopilot is included. For the Wind-Mode you may add the optional Autopilot Display and the Wind sensor. Complete the system with one of the following drives or an already existing rudder drive.

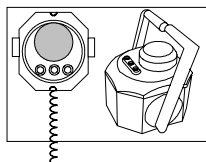
Autopilot with Sonic Heading Gyro (24 00 00) \$ 1'523.41



23 01 00 Autopilot Computer (Drive-Box)	\$ 562.73
23 00 04 Rudder Angle Sensor	\$ 125.79
23 10 10 AP-display	\$ 548.02
91 02 05 Sonic Heading Gyro	\$ 286.88
91 01 05 Flux gate sensor (optional)	\$ 411.93

Autopilot with Heading-, Wind- and Nav-Mode (latter modes require wind sensor or GPS respectively). System may be expanded to Fly-By-Wire by adding steering wheels. Complete the system with one of the rudder drives below, or an already existing rudder drive.

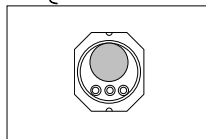
Additions:



Engine and thruster Remote Control

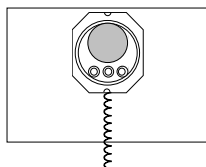
Electric helm station, portable or fixed, for autopilot, rudder, engine and thruster control, suitable for mechanically or electrically controlled engines.

For prices see the following pages ...



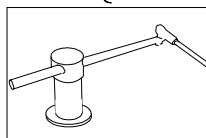
Fixed Steering Wheel (23 10 00, without engine control) \$ 489.17

Very gentle and accurate steering. Every Steering Wheel provides an extra station. Up to eight Steering Wheels are possible.



Remote Steering Wheel (23 10 05, w/out engine control) \$ 647.32

Same as the installed Steering Wheel, but with spiral cable (extends up to 6 m / 20 ft).



Sealed Rudder Sensor (23 00 03) \$ 321.45

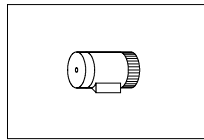
The sealed version is recommended for an exposed rudder sensor installation.

Accessories: 50 01 15 Battery cable and Bus terminator \$ 27.22

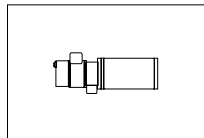
Autopilot Drive Units

Web Price US \$ excl. sales tax Jan '07

Hydraulic Pumps



RV1-12 > Hydraulic pump (reversible) 6...60 cuin/min,
RV1-24 > 12 or 24 Volts, for cylinders up to 13 cuin \$ 725.29



RV2-12 > Hydraulic pump (reversible) 12...120 cuin/min,
RV2-24 > 12 or 24 V, for cylinders up to 26 cuin \$ 836.37

RV3-12 > Hydraulic pump (reversible) 18...180 cuin/min,
RV3-24 > 12 or 24 V, for cylinders up to 39 cuin \$ 1'232.12

Linear Drive Units with separate pump; hose length approx. 4 ft.

Lecomble & Schmitt:



V2H32S-12 Electro hydraulic linear drive
V2H32S-24 8 in. stroke, 600 lbs. thrust \$ 1'647.73
V2H40S-12 Electro hydraulic linear drive
V2H40S-24 9.5 in. stroke, 1050 lbs. thrust \$ 1'721.29
V2H50S-12 Electro hydraulic linear drive
V2H50S-24 12 in. stroke, 1700 bs. thrust \$ 1'838.98
V2H53S-12 Electro hydraulic linear drive
V2H53S-24 12 in. stroke, 1700 lbs. thrust, w. RV3 pump \$ 2'280.34

Linear Drive Units for Power Assisted Stern Drives

V2HAC-12 Electrohyd. Linear drive 12 Volts for servo assist. Sterndrive for push pull cable \$ 1'054.84
V2HAH-12 Electrohyd. Linear drive 12 Volts for servo assist. Sterndrive for hydraul. steering \$ 1'054.84
VM2200655 Installation kit f.Volvo 872 229 servo assisted steering (cable) \$ 100.78
VM2200656 Installation kit f.Volvo 872 229 servo assisted steering (hydraul.) \$ 124.32
VM2200657 Installation kit f.Mercuriser servo assisted steering (cable) \$ 108.87
VM2200658 Installation kit f.Mercuriser servo assisted steering (hydraul.) \$ 132.41

Servo Valves and Proportional Valves (Moog or Hydrauned):

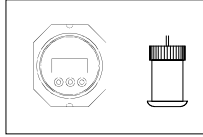
HNPR3-06 NG06 Proportional Valve 4/3 (5, 15 or 30 L/min) \$ 430.32
HNPR3-10 NG10 Proportional Valve 4/3 (50 or 60 L/min) \$ 641.34

quotes for other parts on request

Instruments

Web Price US \$ excl. sales tax Jan '07

Sonic Log




Display Unit (61 01 00)

\$ 514,91

Ultrasonic Speed Sensor (62 02 45)

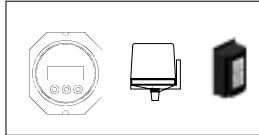
\$ 620,22

(Option: Paddle Wheel Sensor  instead ultrasonic \$ 128,80)

Digital and analog speed display, trip distance, water temperature, trip time, race timer, stopwatch, average speed, total log.

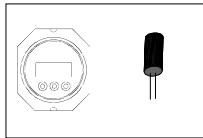
Compass-6 (93 00 00)

\$ 1'213.73



With sonic heading gyro and Fluxgate, Heading-Hold function, heading selection and autopilot control. Analog LED-pointer for heading deviation, analog rudder angle display, automatic deviation compensation. Other functions available in the system may also be displayed.

Sonic Wind



Display Unit (81 01 00)


\$ 514.91

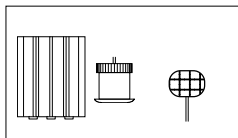
Ultrasonic Wind Sensor (81 03 00) (Wind, GPS, Compass, Inclinometer, Barometer, Temperature)

\$ 992.35

Mast Cable (81 03 15)

\$ 90.63

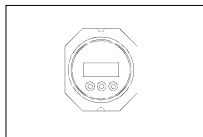
Digital and analog display of apparent and true wind angle. Apparent and true wind speed, Compass Heading, Heel Angle, Ground Speed and Track (Option: Precision Wind Sensor  instead ultrasonic: \$ 551.69)



Echo-6 (72 00 01)

The Echo-Box is connected to any display unit in the system. Depth can be read on all displays. Complete set, including Echo-Box, Transducer and Alarm Buzzer

\$ 558.31



Repeater displays: Multi Function Display (30 00 00)

or extra **Log-, Wind-, Depth- or Compass Display**

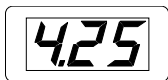
\$ 514.91

Digital and analog display, NMEA data. All functions in the system may be displayed.

Jumbo Display (40 02 05 yellow or 40 02 10 red)

\$ 784.88

40 mm/1.5 in. tall electro-mechanical digits, in fluorescent yellow or red. All basic functions of the system may be displayed, (e.g. speed, true or apparent wind angle, VMG, depth etc.)



Jumbo Bus Cable 10 m / 33 ft (50 04 10); one required per JUMBO group

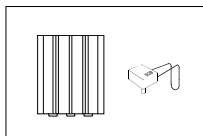
\$ 51.49



Additions: Sonic Heading Gyro (91 02 05)

\$ 286.88

Provides a non-swinging and non-dragging, instantly correct heading information for the display and for the autopilot. Instant transmission of turn rate. Improves autopilot performance dramatically. Synchronized by flux gate compass to magnetic north.



Autopilot

23 01 00 Autopilot Computer (Drive Box)

\$ 562.73

23 00 04 Rudder Angle Sensor

\$ 125.79

Accessories:

50 01 15 Battery cable and Bus terminator

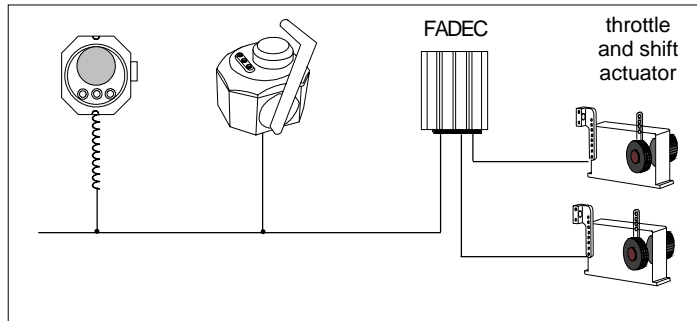
\$ 27.22

Engine Remote Control

Web Price US \$ excl. sales tax Jan '07

Fly-By-Wire Helm Station with Rudder, Engine and Thruster Control

Mechanically controlled throttles and gear shift, for single engine:



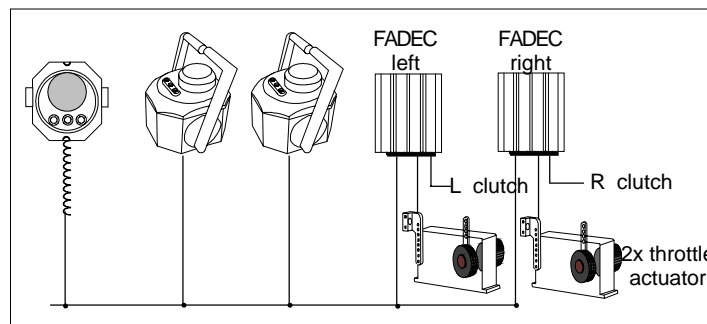
1 remote and 1 fixed helm station

Cables for throttle and shift actuator to be ordered separately. Rudder and thruster control needs an autopilot computer installed.

Package price \$ 3'692.68

Fixed Throttle Station with one right throttle (needs 23 09 00)	23 05 01	\$ 416.35
Fixed Servo Wheel and Throttle control unit	23 09 00	\$ 489.17
Remote Servo Wheel and throttle control, w/ right throttle	23 09 06	\$ 735.59
FADEC-Box for two mechanical actuators	23 02 01	\$ 656.15
Throttle actuator for mechanical throttle	23 03 00	\$ 697.71
Shift actuator for mechanical shift	23 03 01	\$ 697.71

Twin engines with mechanical throttles and electric gear shift



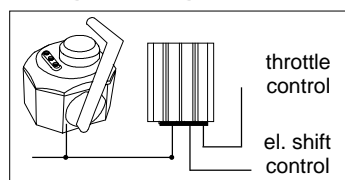
1 remote and 2 fixed helm stations

Engine speed pickup and throttle cables to be ordered separately. Rudder and thruster control needs an autopilot computer installed.

Package price \$ 5'658.90

Fixed throttle station with dual throttles (needs 23 09 00)	23 05 02	\$ 585.53	(2 x)
Fixed Servo Wheel and Throttle control unit	23 09 00	\$ 489.17	(2 x)
Remote Servo Wheel and throttle control, dual throttles	23 09 07	\$ 801.80	
FADEC-Box for one mechanical throttle and elec. shift	23 02 10	\$ 656.15	(2 x)
Throttle actuator for mechanical throttle	23 03 00	\$ 697.71	(2 x)

Single Engine with electric throttle and shift control



Throttle station, one right throttle	23 05 01	\$ 416.35
Fixed Servo Wheel and Throttle control unit	23 09 00	\$ 489.17
FADEC-Box for electric throttle and shift	23 02 20	\$ 656.15

Package price \$ 1'561.70

Accessories:

50 01 15 Batt.cable and Bus termination	\$ 27.22
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