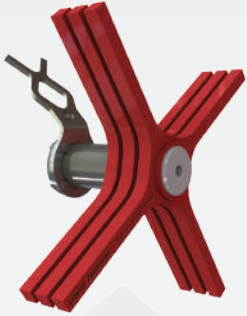



FlexiClean Standard

Made for work class ROVs



Standard Head

- Original FlexiClean
- Long lifetime cleaning heads.
- Effective tool for marine growth removal.
(Can reduce cleaning time by up to 80%)
- Hydraulic motor interfaces directly to ROV

 *Standard (R) / Hard (Y)*

- Standard Unit - FCLN-3425-T
- Standard Head - FCLN-3HD4-25R
- Standard Hard Head - FCLN-3HD4-25Y

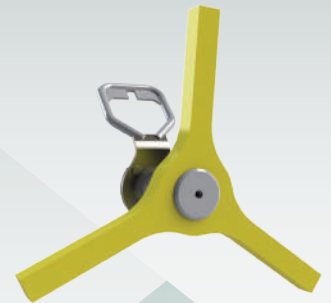


Low Vibration Head

- Reduce strain and wear on manipulator
- Long lifetime cleaning heads.
- Effective tool for marine growth removal.
(Can reduce cleaning time by up to 80%)
- Hydraulic motor interfaces directly to ROV

 *Standard (R) / Hard (Y)*

- Standard Unit - FCLN-3425-T
- Low Vibration Head - FCLN-3HD4-25R-V
- Low Vibration Head - FCLN-3HD4-25Y-V



Heavy Duty Head

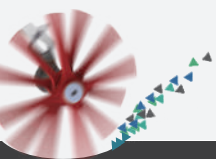
- Clean the toughest of marine growth.
- Long lifetime cleaning heads.
- Does not harm sensitive surfaces.
- Hydraulic motor interfaces directly to ROV
- Available in different finger configurations.

 *Standard (R) / Hard (Y)*

- Standard Unit - FCLN-3425-T
- Heavy duty head - FCLN-1HD4-40Y
- Heavy duty head - FCLN-1HD4-40R

Key features

- Does not harm sensitive surfaces such as flexible risers, sheathed wire or painted hulls.
(Extensive 3rd party testing performed by manufacturers with documented results)
 - Interface Requirements - 140 bar / 35 L/min flow
 - Depth Rating - ROV hydraulic system rating
 - Weight in Air / Water - 15/12 kg



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FlexiClean Mini

Made for large observation class ROVs



Mini Head

- An effective tool for marine growth removal.
Can reduce cleaning time by up to 80%
- Hydraulic motor interfaces directly to ROV.
- Versatile for custom applications.

 *Standard (R) / Hard (Y)*

- Standard Mini Unit - FCLN-1425-T
- Standard Mini Head - FCLN-1HD4-25-R
- Standard Mini Hard Head - FCLN-1HD4-25-Y

Applications and projects

FlexiClean Mini is ideal for custom applications or integrating into cleaning modules on larger machines. Some examples below:

- Hull crawlers
- Pipe cleaning internal
- Riser cleaning modules
- Electrical power cable cleaning
- Offshore windturbine socket cleaning
- Nuclear powerplant water tunnels

Key features

- Does not harm sensitive surfaces such as flexible risers, sheathed wire or painted hulls.
 - Interface Requirements - 100 bar / 12-15 L/min flow
 - Depth Rating - ROV hydraulic system rating
 - Weight in Air / Water - 6 / 5 kg



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FlexiClean Axial

Rental Only



Axial Head

- Effective for cleaning hard to reach places.
- Extremely effective for hull penetrations, caissons, hawse-tubes and water intakes
- Cleaning element is close to neutral in water.
- Hydraulic motor interfaces directly to ROV



Standard (R)

- Standard Axial Unit - FCLN-AX-60-X
- Available in standard lengths:
1000mm - 1500mm - 2500mm
- Other lengths and hardness available upon request.
**Standard lengths may change without warning.*



Axial Mini Head

- Effective for cleaning hard to reach places
- Extremely effective for hull penetrations, caissons, hawse-tubes and water intakes
- Cleaning element is close to neutral in water.
- Hydraulic motor interfaces directly to ROV



Standard (R)

- Mini Axial Unit - FCLN-AX-40-X
- Available in standard lengths:
1000mm - 1500mm - 2000mm
- Other lengths and hardness available upon request.
**Standard lengths may change without warning.*

Key features

- Does not harm sensitive surfaces such as flexible risers, sheathed wire or painted hulls.
- Cleaning element 60x60mm, multiple lengths available
 - Interface Requirements - 140 bar / 35 L/min flow
 - Depth Rating - ROV hydraulic system rating
 - Weight in Air / Water - 15 / 12 kg**System weight is dependant on lenght.*
- Cleaning element 40x40mm, multiple lengths available
 - Interface Requirements - 100 bar / 15 L/min flow
 - Depth Rating - ROV hydraulic system rating
 - Weight in Air / Water - 8 / 6 kg**System weight is dependant on lenght.*



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FlexiClean Micro

Perfect companion for observation or light work class ROV



Micro Electric

- Long lifetime cleaning heads.
- An effective tool for marine growth removal.
- Allow smaller ROVs to perform cleaning tasks.



Standard (R)

- FlexiClean Micro Unit - TBA
- FlexiClean Micro Head - TBA
- FlexiClean Micro Motor - TBA
- FlexiClean Micro Battery pack - TBA



Optional Flexible Shaft

- 100cm high quality drive shaft.
- Allows for flexible placement of the Micro Electric motor on the vehicle.



100cm / 2 kg

- Flexible Shaft - TBA

Key features

- Does not harm sensitive surfaces such as flexible risers, sheathed wire or painted hulls.
 - Can be driven directly from supplied battery pack with trickle charge, or directly from ROV power supply.
- Depth Rating - 1000 meter water depth
 - Weight in Air / Water - 7 / 3 kg*
 - Can be operated by divers



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FlexiClean Micro

Interface table and power supply specification

Micro Electric with supplied battery pack

Micro Electric direct power supply

Interface requirements	24VDC for ON/OFF, 24VDC for trickle charge	Interface requirements	24VDC for ON/OFF, 24VDC for power supply
Depth rating	1000 mwd	Depth rating	1000 mwd
Weight in air / water:		Weight in air / water:	
-Electric drive unit	3 / 2 kg	-Electric drive unit	3 / 2 kg
-Battery pack	4 / 1 kg		
-Flexible driveshaft (incl. head)	2 / 1,5 kg	-Flexible driveshaft (incl. head)	2 / 1,5 kg
Operating time	20-30 min, no trickle charge	Power requirements	18-24VDC, 30A
Normal charge time (drained - charged)	4 hours		
Trickle charge	24 VDC, 3.5A With a use of 10min/h, battery is replenished by trickle charge		

Dimensions

Motor:

-Diameter	80mm
-Length	200mm
-Axle Diameter	16mm

Head:

-Diameter	300mm
-Thickness	15mm
-Fingers	6 per head

Battery Bottle:

-Diameter	150mm
-Lenght	200mm

Flexible Shaft:

-Diameter	20mm
-Lenght	1000mm

