



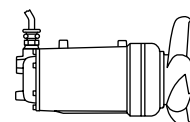
Submersible Flow Accelerators
and Mixers

*Mélangeurs et Accélérateurs
de Flux Submersibles*

**Miscelatori e Acceleratori
di Flusso Sommersi**

caprari

pumping power



CM

Caprari presents a full range of submersible mixers and installation equipment designed to meet all industrial and civil engineering requirements.

Pioneering design and carefully selected construction materials achieve the very best efficiency in terms of running economy and reliability.

Caprari offers customers exclusive and diversified proprietary know-how as to the choice of mixer, its position and size in relation to the type of tank, its dimensions and fluid head.

Caprari présente sa gamme complète de mélangeurs submersibles et d'équipements d'installation conçue pour répondre à toutes les demandes spécifiques des applications civiles et industrielles.

La conception novatrice et la sélection des matériaux de fabrication permettent d'obtenir la meilleure efficacité en termes d'économie d'exploitation et de fiabilité. Caprari offre son savoir-faire, exclusif et diversifié, pour assister le client dans le choix, le positionnement et le dimensionnement en fonction du type de bassin, de ses dimensions et de la profondeur d'immersion.

Caprari presenta una gamma completa di miscelatori sommersi e attrezzature di installazione costruita con caratteristiche studiate per soddisfare ogni specifica richiesta di applicazione civile ed industriale. La progettazione innovativa e la scelta dei materiali costruttivi consentono di ottenere la migliore efficienza in termini di economia di esercizio e affidabilità. Caprari offre il proprio know-how, esclusivo e diversificato, per assistere il cliente nella scelta, nel posizionamento e nel dimensionamento in funzione della tipologia di vasca, delle sue dimensioni e del battente liquido.

The performances have been tested and are guaranteed in compliance with ISO 21630:2007

Les performances ont été mesurées et elles sont garanties suivant la norme ISO 21630:2007

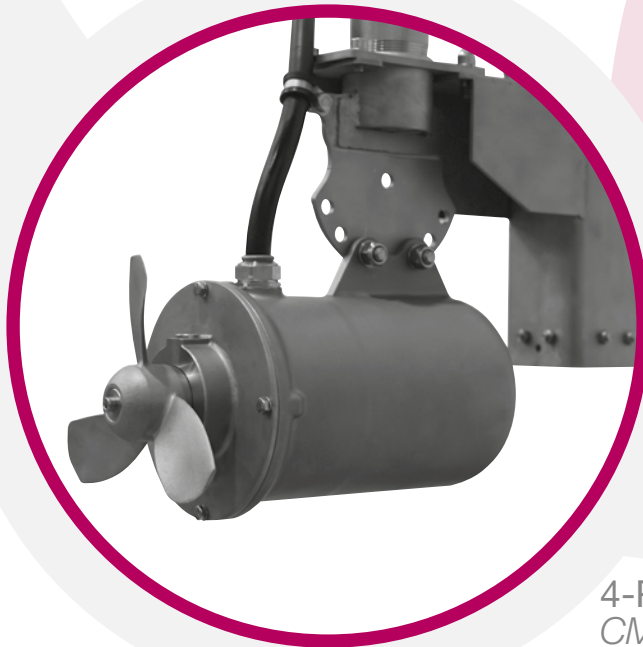
Le prestazioni sono state rilevate e sono garantite secondo la norma ISO 21630:2007

CMD

Horizontal submersible mixers with direct drive

Mélangeurs submersibles horizontaux à entraînement direct

Miscelatori sommersi orizzontali ad azionamento diretto



☑ Motors in IE3 efficiency class as defined in Regulation 640/2009.
Moteurs en classe de rendement IE3 conformément au Règlement 640/2009.

Motori in classe di efficienza IE3 like secondo quanto definito nel Regolamento 640/2009.

☑ Three-blade propeller with self-cleaning profile
Hélice à trois pales à profil autonettoyant
Elica a tre pale a profilo autopulente

☑ Galvanic separation of components as standard construction for efficient protection against corrosion
Système de séparation galvanique des composants standard pour une protection efficace contre la corrosion
Sistema di separazione galvanica dei componenti di serie per un'efficace protezione dalla corrosione

4-POLE CMD in Stainless Steel
CMD 4 POLES en Acier Inoxydable
CMD 4 POLI in Acciaio Inox

APPLICATIONS • APPLICATIONS • APPLICAZIONI

Application in small tanks used for:

- Homogenization
- Equalization
- Disinfection
- Industrial mixers

Applications en petits bassins :

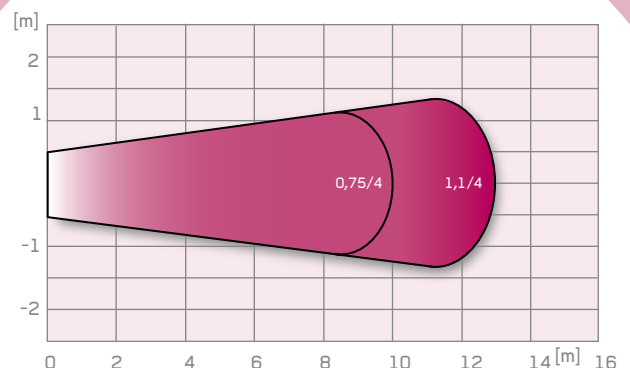
- Homogénéisation
- Maintien en suspension
- Désinfection
- Mélanges industriels

Applicazioni in piccole vasche di:

- Omogeneizzazione
- Equalizzazione
- Disinfezione
- Miscelazioni industriali

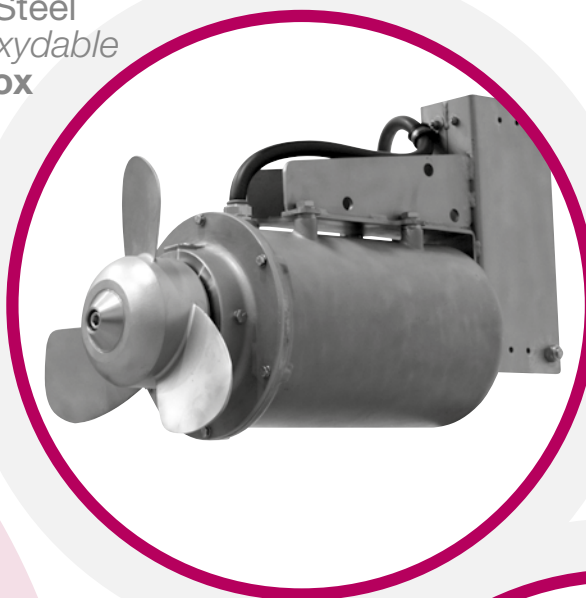
TECHNICAL SPECIFICATIONS CARACTÉRISTIQUES TECHNIQUES CARATTERISTICHE TECNICHE

Power up to	1,1 kW
Puissances jusqu'à	1,1 kW
Potenze fino a	1,1 kW



Flow extension for $v = 0,3$ m/s in clean water
Extension du flux pour $v = 0,3$ m/s en eau propre
Estensione flusso per $v = 0,3$ m/s in acqua pulita

6-POLE CMD in Stainless Steel
 CMD 6 POLES en Acier Inoxydable
 CMD 6 POLI in Acciaio Inox



☑ Motors in IE3 efficiency class as defined in Regulation 640/2009.
 Moteurs en classe de rendement IE3 conformément au Règlement 640/2009.
Motori in classe di efficienza IE3 like secondo quanto definito nel Regolamento 640/2009.

☑ Thermal probes for motor protection
 Sondes thermiques de protection moteur
Sonde termiche di protezione motore

☑ Adaptable lifting equipment for installation in tanks with different construction characteristics. Stainless steel for all parts exposed to the liquid
 Equipements de levage adaptables aux installations dans différents types de bassins. Matériels en contact avec le liquide en acier inoxydable
Attrezzature di sollevamento adattabili per installazione in vasche con diverse caratteristiche costruttive. Materiali a contatto con il liquido in acciaio inox

6-POLE CMD with Cast Iron Motor Casing
 CMD 6 POLES a Carcasse Moteur en Fonte
 CMD 6 POLI con Carcassa Motore in Ghisa

APPLICATIONS • APPLICATIONS • APPLICAZIONI

Application in tanks used for:

- Equalization
- Nitrification/denitrification
- Sludge treatment and storage
- Disinfection
- Industrial mixers

Applications en bassins :

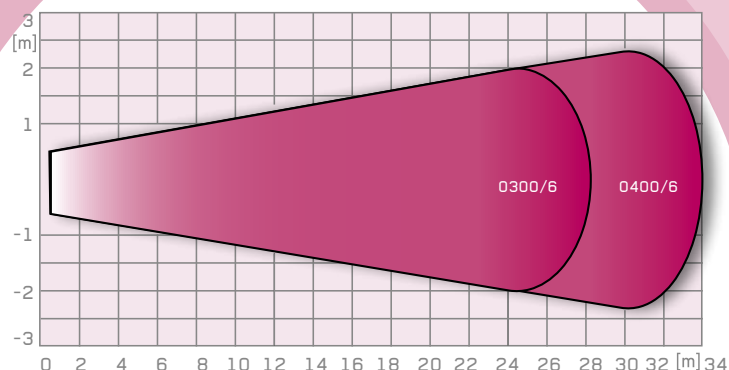
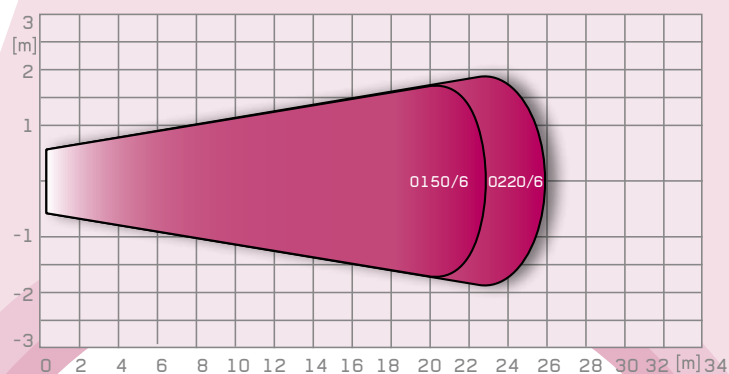
- Maintien en suspension
- Nitrification/dénitrification
- Traitement et stockage des boues
- Désinfection
- Mélanges industriels

Applicazioni in vasche di:

- Equalizzazione
- Nitrificazione/denitrificazione
- Trattamento e stoccaggio fanghi
- Disinfezione
- Miscelazioni industriali

**TECHNICAL SPECIFICATIONS
 CARACTÉRISTIQUES TECHNIQUES
 CARATTERISTICHE TECNICHE**

Power up to	4 kW
Puissances jusqu'à	4 kW
Potenze fino a	4 kW

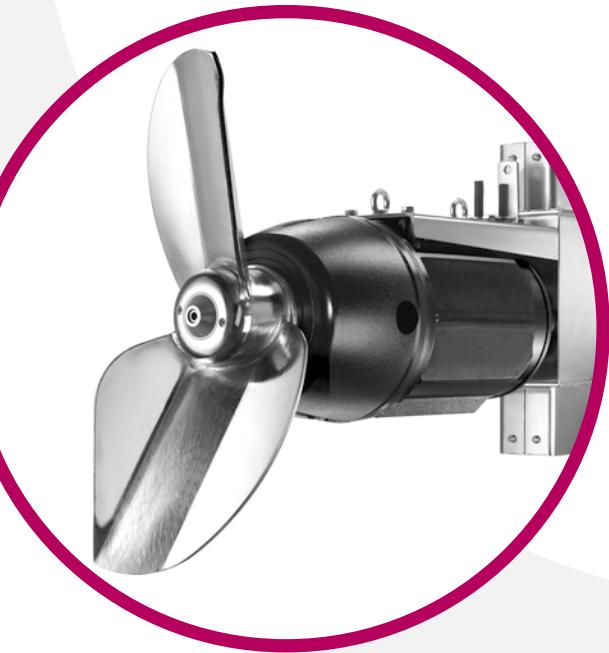


CMR

Horizontal submersible mixers with planetary gear unit

Mélangeurs submersibles horizontaux à réducteur planétaire

Miscelatori sommersi orizzontali con riduttore epicicloidale



C Cast iron motor casing, two-blade propeller with self-cleaning profile in stainless steel

Carcasse moteur en fonte, hélice à deux pales à profil autonettoyant en acier inoxydable

Carcassa motore in ghisa, elica a due pale con profilo autopulente in acciaio inox

C The low speed propeller mixes with the minimum amount of turbulence so as not to spoil the formation of activated sludge flocs

La basse vitesse de rotation de l'hélice permet un mélange avec un minimum de turbulences qui améliore la formation des flocons de boue activée

Il basso numero di giri dell'elica consente una miscelazione con minime turbolenze per non deteriorare la formazione dei fiocchi di fango attivo

C Galvanic separation of components as standard construction for efficient protection against corrosion

Système de séparation galvanique des composants standard pour une protection efficace contre la corrosion

Sistema di separazione galvanica dei componenti di serie per un'efficace protezione dalla corrosione

C Thermal probes for motor protection

Sondes thermiques de protection moteur

Sonde termiche di protezione motore

C Adaptable lifting equipment for installation in tanks with different construction characteristics. Stainless steel for all parts exposed to the liquid

Equipements de levage adaptables aux installations dans différents types de bassins. Matériels en contact avec le liquide en acier inoxydable

Attrezzature di sollevamento adattabili per installazione in vasche con diverse caratteristiche costruttive. Materiali a contatto con il liquido in acciaio inox

All models are available in ATEX explosion-proof versions

Tous les modèles sont disponibles en version antidéflagrante ATEX

Tutti i modelli sono disponibili in versione antideflagrante ATEX

APPLICATIONS • APPLICATIONS • APPLICAZIONI

Application in tanks used for:

- Nitrification/denitrification
- Sludge treatment and storage
- Disinfection
- Industrial mixers

Applications en bassins :

- Nitrification/dénitrification
- Traitement et stockage des boues
- Désinfection
- Mélanges industriels

Applicazioni in piccole vasche di:

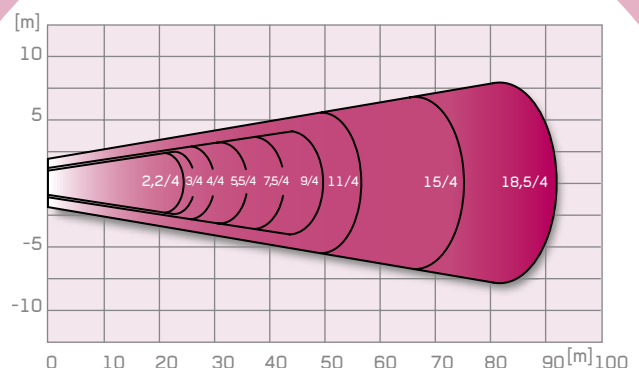
- Nitrificazione/denitrificazione
- Trattamento e stoccaggio fanghi
- Disinfezione
- Miscelazioni industriali

TECHNICAL SPECIFICATIONS CARACTÉRISTIQUES TECHNIQUES CARATTERISTICHE TECNICHE

Power up to 18,5 kW
Electric Motor 4 poles

*Puissances jusqu'à 18,5 kW
Moteur Electrique 4 poles*

**Potenze fino a 18,5 kW
Motore Elettrico 4 poli**



Flow extension for $v = 0,3$ m/s in clean water
Extension du flux pour $v = 0,3$ m/s en eau propre
Estensione flusso per $v = 0,3$ m/s in acqua pulita

CMB

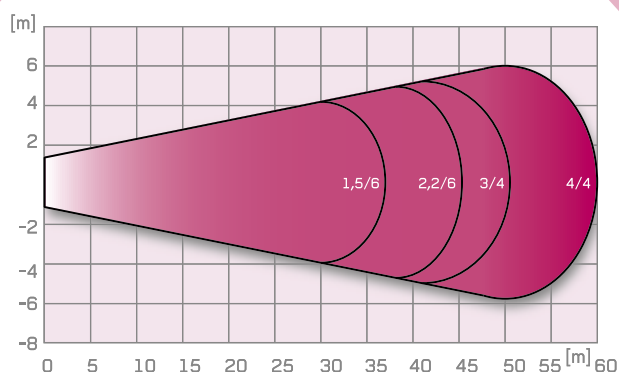
Horizontal submersible flow accelerators with planetary gear unit *Accélérateurs de flux submersibles horizontaux à réducteur planétaire* **Acceleratori di flusso sommersi orizzontali con riduttore epicicloidale**



- C** Cast iron motor casing and gear, two- or three-blade propeller with self-cleaning profile in compound material with high hydraulic efficiency
Carcasse moteur et réducteur en fonte, hélice à deux ou trois pales à profil autonettoyant en matière composite à très haut rendement hydraulique
Carcassa motore e riduttore in ghisa, elica a due o tre pale a profilo autopulente in materiale composito dall'elevato rendimento idraulico
- C** These flow accelerators are suitable for use in large-size, channel and carousel tanks since they are able to generate a high flow rate at low speed
La capacité de produire un flux à haut débit avec une vitesse de rotation réduite les rend adaptés aux applications en bassins de grandes dimensions, à canaux ou carrousel
La capacità di generare un flusso ad elevata portata e a ridotta velocità li rende adatti per applicazioni in vasche di grandi dimensioni, a canali, carousel
- C** Used in conjunction with aeration systems, it increases the oxidizing efficiency and achieves remarkable energy savings
En combinaison avec des systèmes d'aération, il augmente l'efficacité d'oxygénation et permet d'importante économie d'énergie
Impiegato in combinazione con sistemi di aerazione, aumenta l'efficienza ossidativa ottenendo importanti risparmi energetici
- C** Galvanic separation of components as standard construction for efficient protection against corrosion
Système de séparation galvanique des composants standard pour une protection efficace contre la corrosion
Sistema di separazione galvanica dei componenti di serie per una efficace protezione dalla corrosione
- C** Thermal probes for motor protection
Sondes thermiques de protection moteur
Sonde termiche di protezione motore
- C** Adaptable lifting equipment for installation in tanks with different construction characteristics. Stainless steel for all parts exposed to the liquid
Equipements de levage adaptables aux installations dans différents types de bassins. Matériels en contact avec le liquide en acier inoxydable
Attrezzature di sollevamento adattabili per installazione in vasche con diverse caratteristiche costruttive. Materiali a contatto con il liquido in acciaio inox

TECHNICAL SPECIFICATIONS *CARACTÉRISTIQUES TECHNIQUES* **CARATTERISTICHE TECNICHE**

Power up to	4 kW
Electric Motor	4 poles
<i>Puissances jusqu'à</i>	<i>4 kW</i>
<i>Moteur Electrique</i>	<i>4 poles</i>
Potenze fino a	4 kW
Motore Elettrico	4 poli



Flow extension for $v = 0,3$ m/s in clean water
Extension du flux pour $v = 0,3$ m/s en eau propre
Estensione flusso per $v = 0,3$ m/s in acqua pulita

Italy

France

Spain

United Kingdom

Germany

Portugal

Australia

Tunisia

Greece

New Zealand

People's Republic of China

CAPRARI SPA Modena (Italy) • **CAPRARI FRANCE SARL** Maurepas - Paris (France) • **BOMBAS CAPRARI SA** Alcalà de Henares Madrid (Spain) • **CAPRARI PUMPS (U.K.) LTD** Peterborough (United Kingdom) • **CAPRARI PUMPEN GMBH** Fürth/Bayern (Germany) • **CAPRARI PORTUGAL LDA** Santarém (Portugal) • **CAPRARI PUMPS AUSTRALIA PTY LTD** Beverley SA (Australia) • **CAPRARI HELLAS SA** Thessaloniki (Greece) • **CAPRARI TUNISIE SA** Ben Arous (Tunisia) • **CAPRARI PUMPS (SHANGHAI) CO LTD** Shanghai (People's Republic of China) • **CAPRARI PUMPS NEW ZEALAND** Christchurch (New Zealand)



Water Collection and Distribution



Boosting and Distribution of surface water



Wastewater Transport and Treatment



Pump Control Technology

caprari

pumping power



www.caprari.com

