HOMA®
PUMP TECHNOLOGY

STAINLESS STEEL SUBMERSIBLE PUMPS

FOR CHEMICALLY AGGRESSIVE LIQUIDS

Ranges CH, CTP, CAMX(S), CAV(X) I Discharge 2“ - 6“

HIGHER PERFORMANCE TO MEET EVERY CHALLENGE

COMMITMENT TO QUALITY

HOMA submersible wastewater pumps operate worldwide in numerous domestic, municipal, and industrial applications.

Decades of experience in the design and manufacturing of submersible pumps, plus uncompromising attention to quality in every detail, ensure the utmost reliability and long service life of all HOMA products.

FLEXIBLE SYSTEM COMPONENTS FOR PROBLEM-FREE INSTALLATIONS

HOMA combines efficiency, reliability, and robust design with a flexibility to fit every project. With a wide variety of pumps for various applications and installations, as well as modifications available upon request, HOMA can help provide a solution for your pumping problem.

PROVEN TECHNOLOGY FOR EXTENDED APPLICATIONS

MULTIPLE CHALLENGES INDIVIDUAL SOLUTIONS

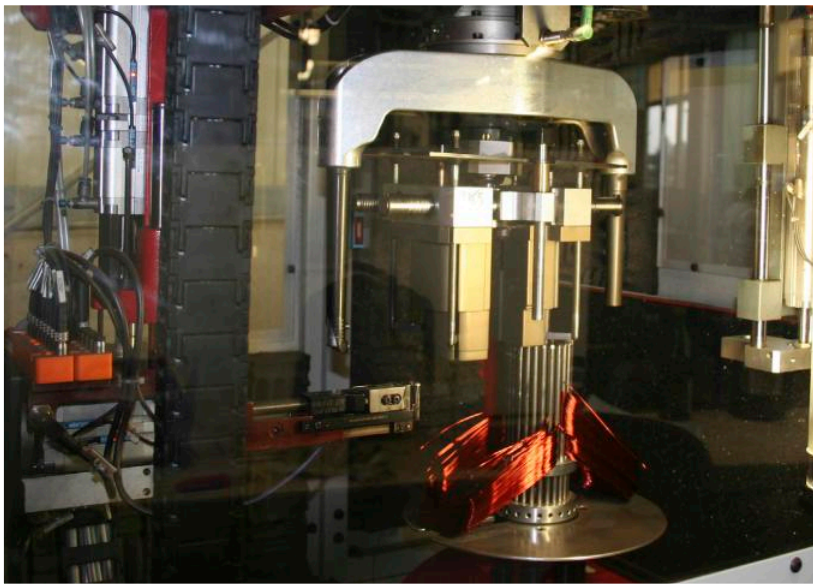
The stainless steel series is based on the proven wastewater product line made by HOMA. By using different high quality material options (different steel grades, bronze, Viton, etc.), the most suitable HOMA submersible pumps can be supplied for a wide range of tough applications:

- Oil and Gas
- Power Plants
- Industrial Applications
- Mining
- Chemical Processing
- Industrial Wastewater
- Shipbuilding / Offshore

MORE POWER FOR EVERY APPLICATION

Whether for water supply in power plants, for mining leachate applications, for aggressive media dewatering, for industrial wastewater, or for ballast water in the shipbuilding sector, the “C” series provides proven features, such as:

- Various impeller designs, depending on the pumped liquid
- High-quality, corrosion resistant materials
- Robust and reliable construction



RANGES AND PUMP TYPES: CH-CTP

CH432-CH436

HOMA CH 432 and CH 436 stainless steel submersible drainage pumps are suitable for pumping corrosive, abrasive or chemically aggressive liquids, drainage water, or chemicals containing solids up to 3/8” (10 mm) diameter. They are used in various domestic, industrial, or municipal applications.

CTP 50 / CTP 53

CTP stainless steel submersible drainage pumps are suitable for pumping corrosive, abrasive, or chemically aggressive liquids, waste water, or sewage and chemicals. Due to the large free passage of 2” (50 mm) diameter, they are particularly suitable for pumping liquids with solids and fiber content, for waste disposal in industrial or municipal applications.

RANGES AND PUMP TYPES: CAV(X) - CAMX - CAMS

MOTOR SELECTION

SPEED:

For the standard hydraulic range, the motors are designed with the following speeds.

- 3450 rpm = 2-pole
- 1750 rpm = 4-pole
- 1160 rpm = 6-pole

VOLTAGES:

Motors are supplied standard with an operating voltage of 230/460V/3 Ph, 60 Hz. Different voltages are available on request.

SOFT START DEVICES AND VFDS:

All motors are available upon request as VFD rated for operation with frequency converter.

MOTOR MONITORING:

All motors are supplied with temperature sensors in the winding, bi-metallic sensors (standard) or PTC sensors (on request). Additional monitoring devices (bearing temperature, stator motor housing) on request.

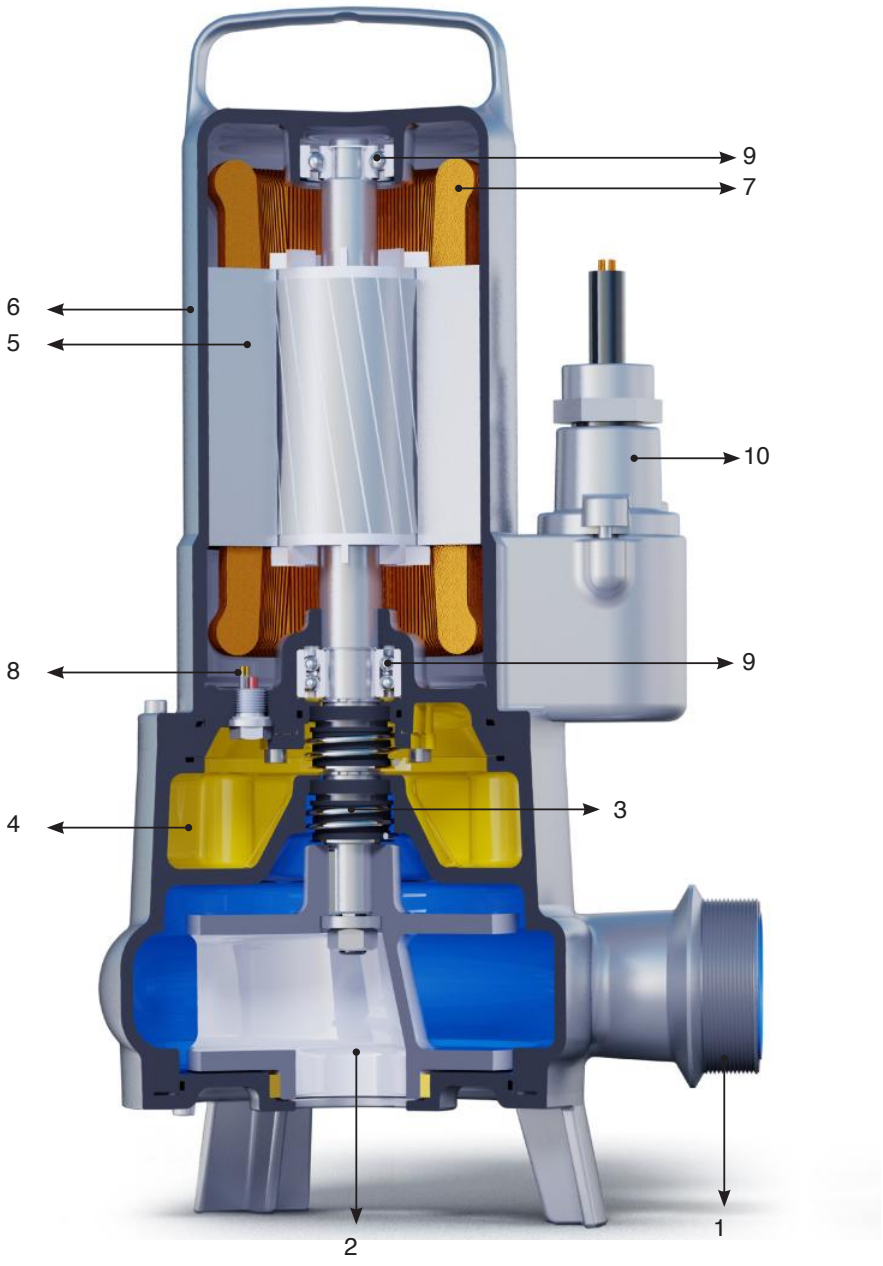
SOLIDS HANDLING:

All pumps have a minimum of 3” (80mm) solids passage.

HIGH QUALITY MATERIALS

Quality can be measured – HOMA submersible wastewater pumps are characterized by their robust design, and high quality materials of all components.

Model shown: CTP 50



1. DISCHARGE

- BSP2” M / BSP2½” M or BSP3” M
- 3”, 4”, or 6” Class 125 lb ANSI/DIN flange

2. NON-CLOGGING IMPELLERS

- Open multi channel impeller (CH)
- Enclosed single channel impeller with replaceable wear ring
- Enclosed multi channel impeller with replaceable wear ring
- Vortex impeller

3. SHAFT SEALS

Two independently working silicon-carbide mechanical seals in tandem-arrangement.

4. MOTOR

Single or three phase electric motor with 2, 4-or 6-pole winding. Insulation class H (180 C), Protection IP 68

Explosion protection (FM):
In addition to the standard version, most motors are also available FM-approved Explosion Proof for Class 1, Div. 1, Group C&D area classifications.

MATERIALS

Motor housing
Pump housing
Impeller
Wear ring
Motor shaft
Mechanical seals*
O-Rings
Cable

* encapsulated seals on request

** also available in bronze for some sizes

5. OIL CHAMBER

Separate large oil chamber, lubricating and cooling the mechanical seals. Electronic seal condition monitoring is standard.

6. MOTOR COOLING

Motors for submerged operation, cooled by the surrounding liquid.

7. THERMAL SENSOR (BI-METAL)

Embedded in the motor winding. PTC sensors available on request.

8. MOISTURE MONITORING IN MOTOR HOUSING

Optionally available.

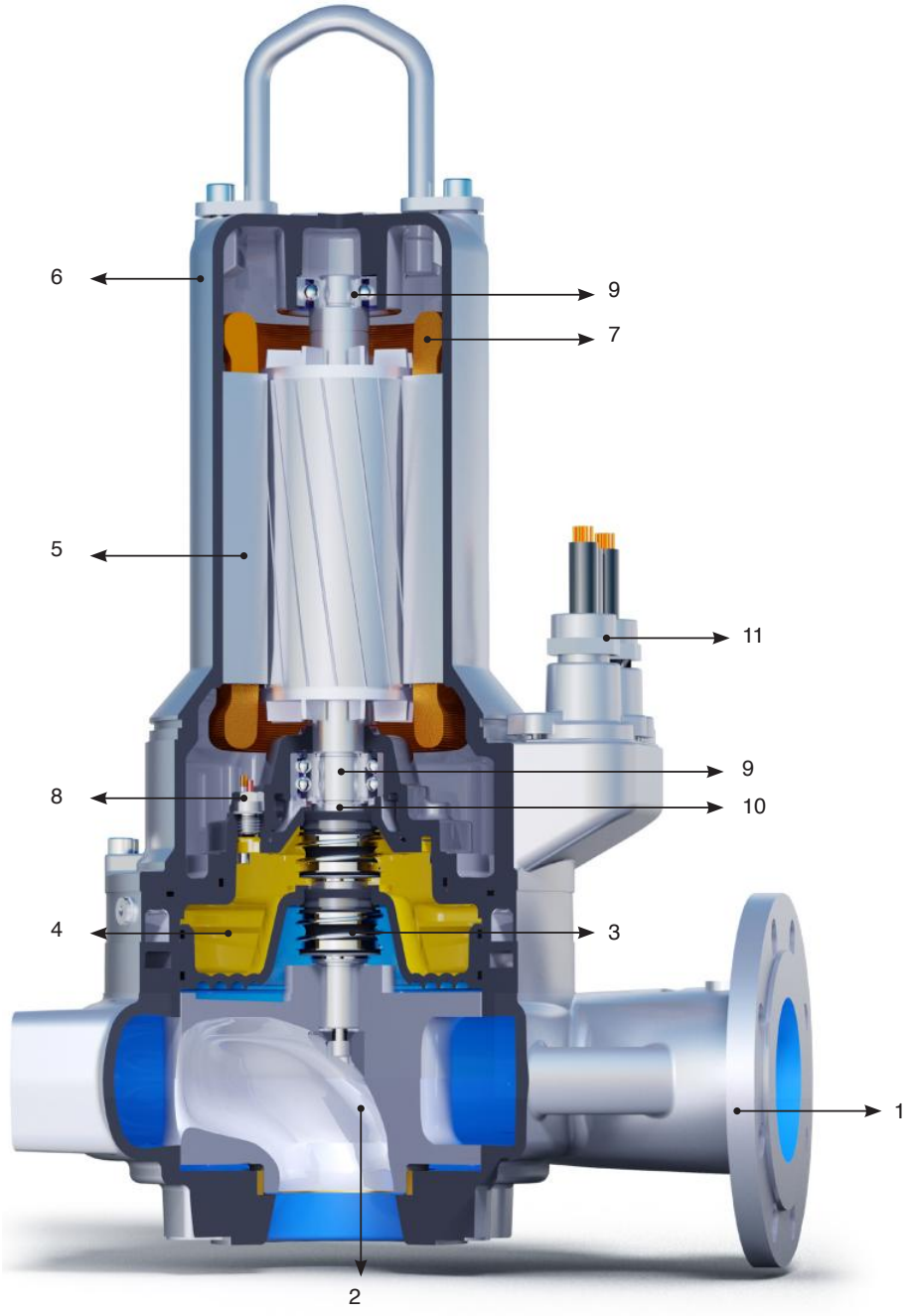
9. SHAFT BEARING

Maintenance-free, prelubricated ball bearings with a B10 life of 50,000 hours (CH and CTP Series) or 100,000 hours (CA Series).

10. PRESSURE SEALED, STRAIN RELIEF CABLE ENTRY

AISI 316 Stainless Steel
AISI 316 Stainless Steel
AISI 316 or Duplex Stainless Steel**
AISI 316 or Duplex Stainless Steel
AISI 318 LN Stainless Steel
Silicon-carbide, FPM (Viton)
FPM (Viton)
H07RN8-F (PLUS), protection hose

Model shown: CAMX444



PUMP TYPE CODE: CH - CTP

Range	Model	Motor Power P1 (hp)	Speed	Phase/ Voltages	Explosion proof
Pump		Motor			
CH	**432-436**	**20**	**/2**	**/1**	**(FM)**
		20/10 = 2,0 hp	2 = 2pole (3450 rpm)	1 = 1 Phase 230V, 60 Hz 3 = 3 Phase 230V/380/460V, 60 Hz	

Range	Spherical clearance / Discharge	Impeller	Motor Power P1 (hp)	Speed	Phase/ Voltages	Explosion proof
Pump			Motor			
CTP	**50**	**M**	**80**	**/2**	**/1**	**(FM)**
	50 = 2"(50 mm) 53 = 2"(50 mm) 50 = G2½ AG 53 = G3 AG	M = closed single channel impeller	80/10 = 8 hp	2 = 2pole (3450 rpm) 4 = 4pole (1750 rpm)	1 = 1 Phase 230V, 60 Hz 3 = 3 Phase 230V/380/460V, 60 Hz	

RANGES AND HYDRAULICS

HYDRAULIC SELECTION

Discharge:

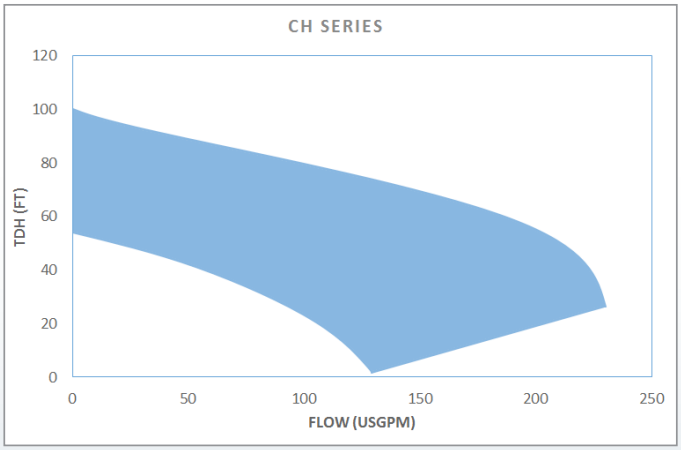
- BSP 2" M
- BSP 2½" M
- BSP 3" M
- 3" (DN 80)

IMPELLER

Different impeller designs are available to provide optimum performance and reliability with various liquids and operating conditions.

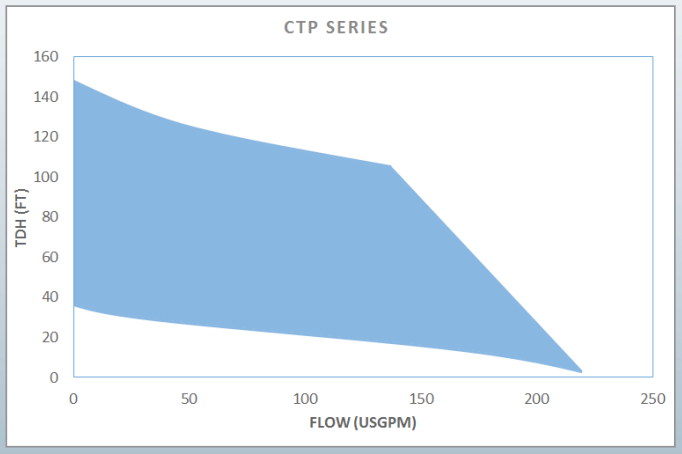
IMPELLER SPHERICAL CLEARANCE:

The pumps are available with impeller spherical clearances from 3/8" (10 mm) to 2" (50 mm) according to pump range.



CH OPEN MULTICHANNEL IMPELLER

For liquids containing smaller impurities like sand or sludge.



CTP ENCLOSED SINGLE CHANNEL IMPELLER

For liquids containing impurities and sludge with solid particles

PUMP TYPE CODE: CAV(X) - CAMX(S)

Range	Impeller	Discharge	Spherical clearance	Speed	Motor power	Motor frame size	Monitoring devices	Explosion proof	
Pump					Motor				
C	**AMX**	**4**	**4**	**4**	**5,5**	**T**	**(C) + (S)**	**(FM)**	
C = stainless steel	AMX = enclosed single channel AV(X) = Vortex AK = enclosed multi channel	3 = 3" (DN 80) 4 = 4" (DN 100) 6 = 6" (DN150)	3 = 3" (80 mm) 4 = 4" (100 mm)	2-pole= 3450 rpm 4-pole= 1750 rpm 6-pole= 1160 rpm	P2 (hp)	C,D,T,P	C = Oil chamber seal condition monitoring probe S= moisture sensor in stator chamber	available for C,D,T,P motor	

RANGES AND HYDRAULICS

HYDRAULIC SELECTION

Discharge and suction flange:

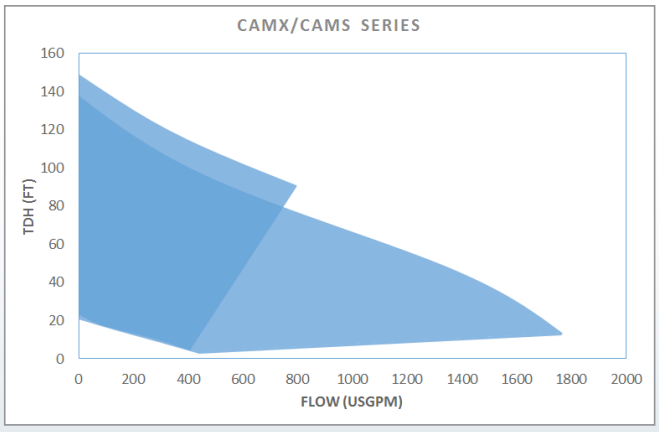
- 3" (DN 80)
- 4" (DN 100)
- 6" (DN 150)

IMPELLER

A range of different impeller designs are available to provide optimum performance and reliability with various liquids and operating conditions.

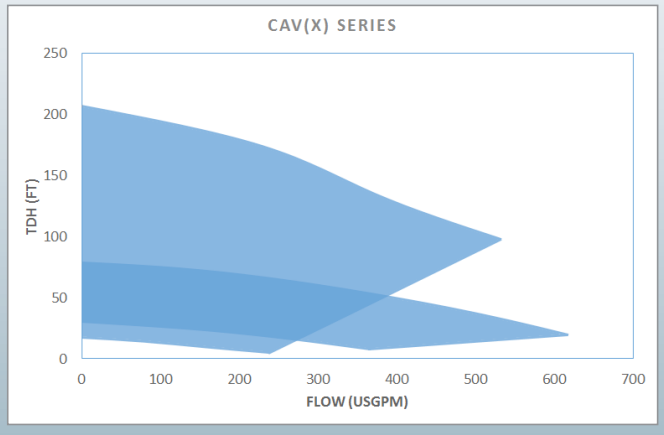
IMPELLER SPHERICAL CLEARANCE:

The pumps are available with impeller spherical clearances from 3" (80mm) to 4" (100mm) according to pump range.



CAMX(S) ENCLOSED SINGLE CHANNEL IMPELLER

For liquids containing impurities and sludge with solid particles or long fibers.



CAV(X) VORTEX IMPELLER

For liquids containing a high level of impurities or fibrous matter and containing gas.

THE RIGHT INSTALLATION FOR EVERY PUMP

PERMANENT WET WELL INSTALLATION

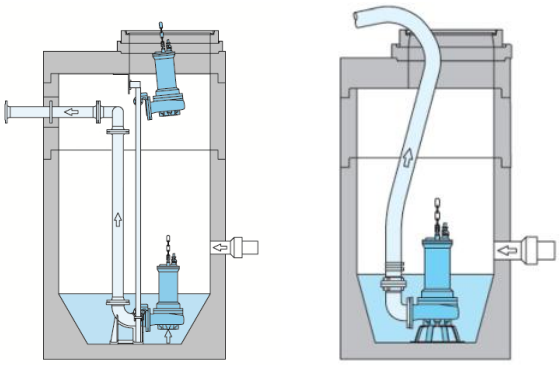
Submerged autocoupling guide rail system for automatic connection and disconnection of the pump from the pipework without entering the sump.

All maintenance or repair work can be done outside the sump. Back in operating position, the weight of the pump ensures leak-proof discharge connection.

TRANSPORTABLE WET WELL INSTALLATION

Submerged pump mounted on a ring base stand for temporary service or emergency operation. Discharge connection with pipe or hose.

AUTO-COUPLING SYSTEM



Permanent wet well installation

Transportable wet well installation

OPTIONS AND ACCESSORIES

Every problem has a unique solution. In order to fit the specific needs of your installation, HOMA offers a wide variety of options and accessories for your pump, as well as additional products, such as mixers.

STAINLESS STEEL WEAR RING SETS

Hardened 410 stainless steel wear ring system provides long lasting wear ring configuration resistant to both erosion and corrosion maintaining pump efficiency.

IMPELLER & VOLUTE COATINGS/ TREATMENTS

Belzona, Teflon, Plasma Ion and various ceramic coatings are offered to protect impeller & volute from wear or corrosion. Smooth finish serves to prevent ragging while wear resistant impeller surfaces maintain efficiency.

STAINLESS STEEL SUMP FLUSH VALVES

Sump Flush Valves keep rags and sedimentation to a minimum preventing build-up of large entwined solids and floating debris. Keeps pumps operating at their peak efficiencies and avoids costly pump clogs.

STAINLESS STEEL MIXERS

The HOMA CHRS Series of mixers brings the proven and durable design of our stainless pump series to our line of submersible mixers.

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PUMP TECHNOLOGY

STAINLESS STEEL MIXERS CHRS

HOMA CHRS-Series stainless steel mixers have application in municipal and industrial wastewater treatment, industrial processing, agriculture, and many others. The robust design of the mixers assure trouble-free operation even under the most demanding conditions.

The hydraulically optimized design of the propeller and motor unit results in outstanding efficiency and excellent mixing performance with minimal flow losses.

HOMA PRODUCT RANGE

- Propeller pumps
- Submersible sewage pumps
- Wastewater disposal units
- Mixers and flow generators
- Submersible wastewater pumps
- Injector systems for tank cleaning
- Submersible grinder pumps with cutter system

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WORLDWIDE PRESENCE

HOMA pumps are installed in more than 60 countries around the world – in countless applications.

Our products comply with international safety and quality standards and are certified by many institutions and organizations responsible for national wastewater treatment standards.

FM APPROVED

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