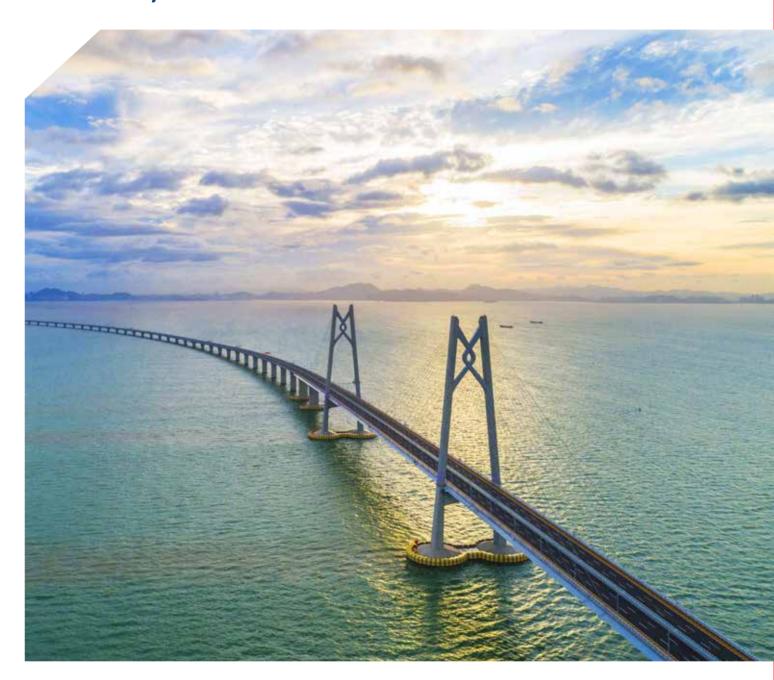


## BEARING, EXPANSION JOINTS & SEISMIC DEVICES



LIUZHOU OVM MACHINERY CO., LTD. WWW.OVM.CN

## CONTENTS

BRIEF	01
CERTIFICATIONS	02
BEARINGS	
ELASTOMERIC BEARING	03
POT BEARING GPZ	04
SPHERICAL BEARING TYPE QZ	05
EXPANSION JOINTS	
RUBBER EXPANSION JOINTS	06
STRIP SEAL EXPANSION JOINTS	07
MODULAR EXPANSION JOINTS	07
FINGER EXPANSION JOINTS	08
SEISMIC DEVICES	
ISOLATION RUBBER BEARINGS	09
VISCOUS FLUID DAMPER	- 10
BUCKLING-RESTRAINED BRACE	- 10
PERMANENT MAGNET ADJUSTABLE MAGNETORHEOLOGICAL DAMPER	<b>– 11</b>
EDDY CURRENT TUNED MASS DAMPER	<b>– 11</b>
JOB REFERENCE	<b>– 12</b>
APPLICATION	<b>– 1</b> 3

## **BRIEF**

Thanks to more than 50 years of experience, OVM is now a leading product supplier and specialist contractor in China in the field of prestressing and other special construction techniques. The OVM rubber company is specializing in the R&D, production, sales and services of bridge and building bearings, expansion joints, seismic devices and other related products.

The company has an annual production capacity of 650,000 sets of rubber bearings, 200,000 sets of seismic devices, 20,000 sets of pot & spherical bearings, and 120,000 meters of expansion joints. All products can meet common AASHTO, EN, BS specifications or project customization needs.

In addition, the company has spread its marketing and service network over large and middle cities in China including Hong Kong, and set up branches at Vietnam, the Middle East and North Africa, etc.







#### **CE CERTIFICATIONS**



## SYSTEM CERTIFICATIONS



Quality, Occupational Health and Safety, Environmental Management System

#### LABORATORY CERTIFICATIONS AND THIRD-PARTY REPORTING



CNAS LABORATORY ACCREDITATION CERTIFICATE



USL CTL Laboratory



ITALY POLITECNICO DI MILANO Laboratory

# **BEARINGS ELASTOMERIC BEARING**

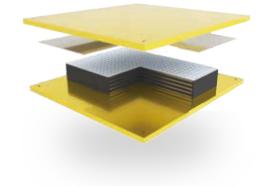


A laminated elastomeric bearing is a rubber block vulcanized elastomeric rubber with inner reinforcement steel plates. This bearing is a kind of connection between superstructure and substructure.

#### Characteristic:

- Sufficient vertical rigidities to bear and transmit normal loads;
- Good flexibilities for rotation in any direction;
- Considerable shear deformation to satisfy horizontal movement;

Perfect anti-vibration to reduce the impact of dynamic load. An Elastomeric bearing can also be bonded with PTFE plate to satisfy large horizontal movement in one or two directions.





#### **POT BEARING GPZ**

Pot bearing can be divided into three types: fixed, guided sliding, and free sliding. It can satisfy the requirements of large load capacity in three directions, great horizontal displacement and big rotation.

Pot bearing can be designed and manufactured according to AASHTO, EN1337, BS5400 Standards as well as customization.



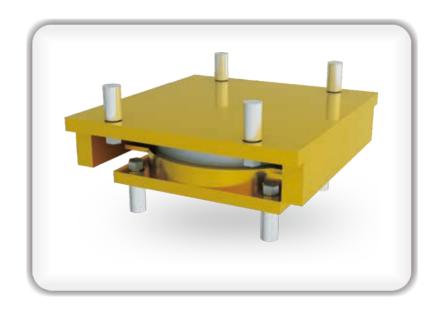


▲ CAMBODIA NCCB PROJECT

### SPHERICAL BEARING QZ

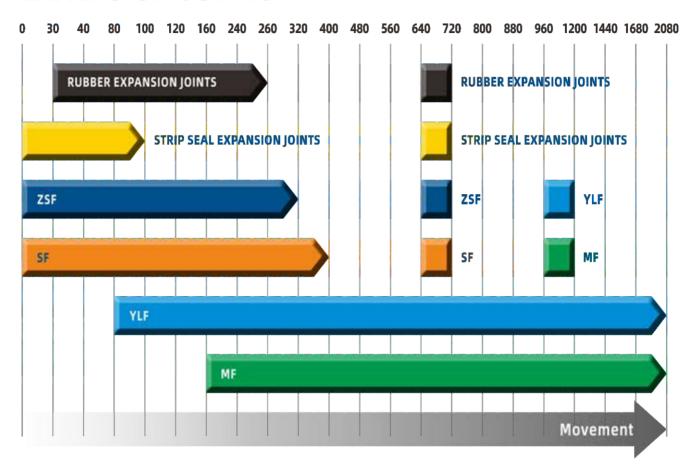
Spherical bearing can be divided into three types: fixed, guided sliding, and free sliding. The spherical bearing not only has great capacity, large displacement, but also suitable for large rotation angle of 0.05rad or more in all directions, which is suitable for wide and curved bridges.

Spherical bearing can be designed and manufactured according to AASHTO, EN1337, BS5400 Standards as well as customization.





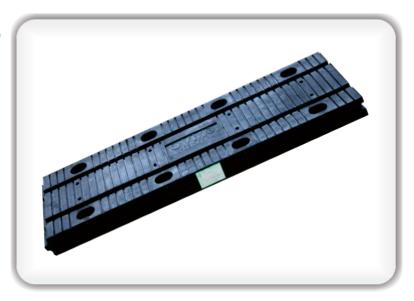
## **EXPANSION JOINTS**



#### **RUBBER EXPANSION JOINTS**

#### Features and benefits

- Convenient installation
- Smooth driving
- low noise
- Light in weight

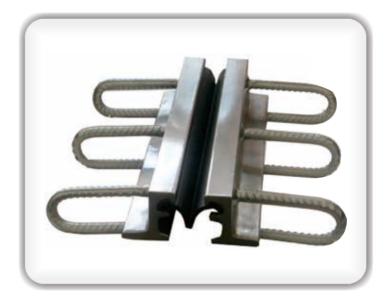


#### **STRIP SEAL EXPANSION JOINTS**

#### Features and benefits

- Simple structure
- Easy installation
- Excellent durability and reliability

The strip seal expansion joints have small height and simple structure, which is suitable for both old bridge replacement and new bridge build.

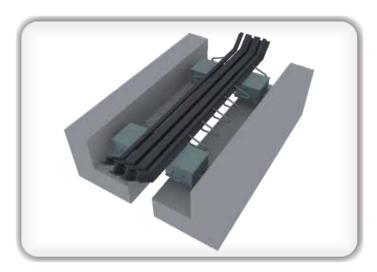


#### **MODULAR EXPANSION JOINTS**

#### Features and benefits

- Long service life
- Convenient installation and maintenance
- Smooth and stable for driving
- Excellent waterproof

The maximum displacement application for OVM modular expansion joints reaches 1840mm.





#### **FINGER EXPANSION JOINTS**

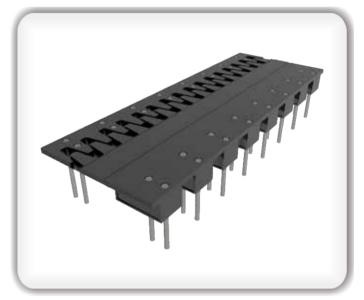
#### Features and benefits

- Long service life
- Convenient installation
- low noise
- Excellent waterproof

OVM prestressed multi-directional displacement finger expansion joints can meet the requirements of large displacement, multidirectional displacement, especially suitable for long-span cable-stayed bridges. The maximum displacement application for OVM finger expansion joints reaches 1600mm.







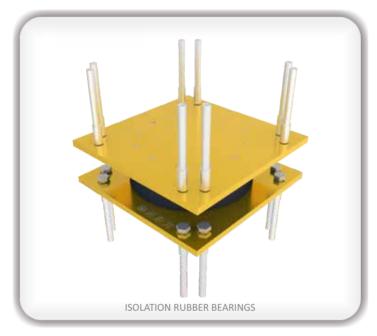


CHINA YANGSIGANG YANGTZE RIVER BRIDGE

# SEISMIC DEVICES ISOLATION RUBBER BEARINGS

Isolation rubber bearings are divided into lead rubber bearing and high damping rubber bearing, which is composed of compounded rubber layer, reinforcement steel plate or lead bar.

Isolation rubber bearings combines the characteristics of good vertical load capacity, excellent energy-dissipating capacity and great durability. Which is suitable for seismic isolation of bridges, buildings or other big structures.







#### **VISCOUS FLUID DAMPER**

Viscous fluid damper is a kind of hydraulic device, which have no initial stiffness and no additional internal force to the structure, so it will not affect the structure's period, vibration mode, etc. But for rapid deformation cause by earthquake, it can rapidly consume energy and reduce the acceleration and displacement of the structures.

Viscous fluid damper has the advantages of smaller size, convenient installation and maintenance, great durability, and insensitive to temperature.

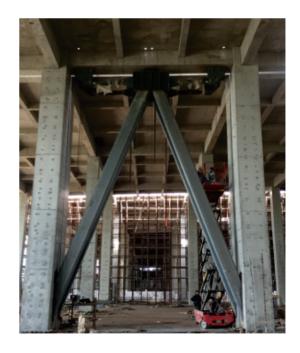




#### **BUCKLING-RESTRAINED BRACE**

The buckling-restrained brace is composed of core element, constraint element and sliding mechanism element. It has the characteristics of high bearing capacity, good ductility and hysteretic performance, and it's yield capacity is definitely. It can used to protect the main structure from yielding or serious damage under the earthquakes, especially for bridges and buildings whose seismic intensity is 7 degree and above.





## PERMANENT MAGNET ADJUSTABLE MAGNETORHEOLOGICAL DAMPER

Permanent magnet adjustable magnetorheological damper is an assembled vibration damper that use magnetorheological fluids to provide damping forces and use permanent magnets for regulation.

It is stable and reliable between the temperature of -45°C  $^{\sim}$  150°C, and is very suitable for vibration structure with high frequency and small displacement, such as bridge cable's vibration control.



#### **EDDY CURRENT TUNED MASS DAMPER**

Eddy current tuned mass damper is a vibration system composed of mass block, elastic element and damping element that can dissipates the vibration energy of the structure.

It is usually supported or suspended on the structure. When the structure vibrates under external excitation, the mass block will vibrate dissimilar to the main structure, and then producing opposing forces back to the structure to reduce the vibration response.

The OVM Eddy current tuned mass damper has using the eddy current damping technology instead of the traditional fluid viscous damping, which has the characteristics of ideal linear viscous damping, definite damping coefficient, no additional stiffness and no abrasion.





MOROCCO PHOTOVOLTAIC POWER PLANT

### **JOB REFERENCE**

VEAR   COUNTRY   PROJECT NAME   PRODUCTS	PROJECT APPLICATION (PARTIAL)				
SRI LANKA  CENTRAL EXPRESSWAY PROJECT  TANZANIA  MAGUFULI BRIDGE  JOUATION RUBBER BEARING POT BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  SRI LANKA  COLOMBO URBAN SOLID WASTE PROJECT  JOUATION RUBBER BEARING EXPANSION JOINTS  SRI LANKA  COLOMBO URBAN SOLID WASTE PROJECT  JOUATION RUBBER BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING POT BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING POT BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING POT BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING POT BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING POT BEARING EXPANSION JOINTS  KENIA  KNBA PROJECT  JOUATION RUBBER BEARING EXPANSION JOINTS  BALAN TOL JUUNG PANDANG SEKSI SIJALAN LAVANG TOL AP PETTARANIJAPO  JOUATION RUBBER BEARING EXPANSION JOINTS  BOLIVIA  BOLIVIA  JOUATION PUBBER BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  WIETNAM  TRAN QUANG KHAL-BAC GIANG ELASTOMERIC BEARING INDONESIA  JAJEKH ILLEVATED JOUATION RUBBER BEARING  ALGERIA  ALGERIA JULIANIA  ALGERIA JULIANIA  ALGERIA JULIANIA  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  SRI LANKA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  SRI LANKA  OUTER CIRCULAR HIGHWAY  EXPANSION JOINTS  FILATOMERIC BEARING EXPANSIO	YEAR	COUNTRY	PROJECT NAME	PRODUCTS	
TANZANIA MAGUFULI BRIDGE ISOLATION RUBBER BEARING POT BEARING EXPANSION JOINTS  GEORGIA E-60 HIGHWAY LOTI F1 ELASTOMERIC BEARING EXPANSION JOINTS  GEORGIA E-60 HIGHWAY LOTI F2 ISOLATION RUBBER BEARING EXPANSION JOINTS  SRI LANKA COLOMBO URBAN SOLID WASTE PROJECT ISOLATION RUBBER BEARING EXPANSION JOINTS  KENIA KN88 PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  KENIA KN88 PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  INDONESIA JALAN TOL UJUNG PANDANG SEXIS JUALAN LAVANG TOL AP PETITARANI)497 ISOLATION RUBBER BEARING EXPANSION JOINTS  CAMBODIA PHNOM PENH CHROY CHANGVAR BRIDGE POT BEARING  GHANA POKUASE OVERPASS PROJECT ELASTOMERIC BEARING  GHANA POKUASE OVERPASS PROJECT ELASTOMERIC BEARING  EXPANSION JOINTS  BOLIVIA ESPION HIGHWAY PROJECT ELASTOMERIC BEARING  EXPANSION JOINTS  ALGERIA ALGERIA PUR-MATERIAL-SJAKM-281 ISOLATION RUBBER BEARING  ALGERIA ALGERIA PUR-MATERIAL-SJAKM-281 ISOLATION RUBBER BEARING  EXPANSION JOINTS  SRI LANKA COLOMBO PORT CITY DEVELOPMENT PROJECT ELASTOMERIC BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  EXPANSION JOINTS  SAUDI ARABIAN MAG RODGE OVER THE URAL RIVER POT BEARING  ENPANSION JOINTS  SAUDI ARABIAN BLOODED BRIDGE OVER THE URAL RIVER POT BEARING  SAUDI ARABIAN MAG RONG TUYEN DUONG BAO BIEN NUI BAI THO POT BEARING  FIATOMERIC BEARING  SAUDI ARABIAN TUNNEL AT INTERSECTION OF KING FAHO WITH KING ABDULLAH ROAD EXPANSION JOINTS  FIATOMERIC BEARING  FIATOMERIC BEARING  FIATOMERIC BEARI	2021	GHANA	TAKORADI INTERCHANGE	PENDULUM BEARING	
TANZANIA		SRI LANKA	CENTRAL EXPRESSWAY PROJECT	ELASTOMERIC BEARING	
GEORGIA  GEORGIA  GEORGIA  E-60 HIGHWAY LOTI F2  GEORGIA  B-60 HIGHWAY LOTI F2  GEORGIA  COLOMBO URBAN SOLID WASTE PROJECT  SRI LANKA  COLOMBO URBAN SOLID WASTE PROJECT  SISOLATION RUBBER BEARING POT BEARING EXPANSION JOINTS  KENIA  KN88 PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  KENIA  KAROT HYDROPOWER PROJECT  CAMBODIA  PAKISTAN  KAROT HYDROPOWER PROJECT  CAMBODIA  PHNOM PENH CHROY CHANGVAR BRIDGE  POT BEARING  GHANA  POKUASE OVERPASS PROJECT  ELASTOMERIC BEARING  EXPANSION JOINTS  WIETNAM  TRAN QUANG KHAI-BAC GIANG  ALGERIA  ALGERIA  ALGERIA  ALGERIA-PUR-MATERIAL-53KM-281  SOLATION RUBBER BEARING  GHANA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO S IN HULHUMALE  EXPANSION JOINTS  SRI LANKA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  EXPANSION JOINTS  BRIDGE TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMER		TANZANIA	MAGUFULI BRIDGE		
SRI LANKA  COLOMBO URBAN SOLID WASTE PROJECT  SRI LANKA  COLOMBO URBAN SOLID WASTE PROJECT  KENIA  KNBB PROJECT  KENIA  KNBB PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  KENIA  KNBB PROJECT  INDONESIA  JALAN TOL UJUNG PANDANG SEKSI 3(JALAN LAYANG TOL AP PETTARAN)1497  JISOLATION RUBBER BEARING EXPANSION JOINTS  PAKISTAN  KAROT HYDROPOWER PROJECT  ELASTOMERIC BEARING  GHANA  POKUASE OVERPASS PROJECT  ELASTOMERIC BEARING  EXPANSION JOINTS  SOLIVIA  ESPION HIGHWAY PROJECT  ELASTOMERIC BEARING  EXPANSION JOINTS  VIETNAM  TRAN QUANG KHAL-BAC GIANG  ELASTOMERIC BEARING  EXPANSION JOINTS  VIETNAM  TRAN QUANG KHAL-BAC GIANG  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  EXPANSION JOINTS  BRIDGE 1 TO S IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO SIN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  SHERICAL BEARING  SHERICAL BEARING  SHERICAL BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  EXPANSION JOINTS  ELASTOMERIC BEARING  ELASTOMERIC BEARING  EL		GEORGIA	E-60 HIGHWAY LOTI F1		
SRI LANKA  KENIA  KENIA	2020	GEORGIA	E-60 HIGHWAY LOTI F2		
EXPANSION JOINTS		SRI LANKA	COLOMBO URBAN SOLID WASTE PROJECT		
PAKISTAN KAROT HYDROPOWER PROJECT ELASTOMERIC BEARING CAMBODIA PHNOM PENH CHROY CHANGVAR BRIDGE POT BEARING GHANA POKUASE OVERPASS PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  BOLIVIA ESPION HIGHWAY PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  VIETNAM TRAN QUANG KHAI-BAC GIANG ELASTOMERIC BEARING INDONESIA JAPEK II ELEVATED ISOLATION RUBBER BEARING ALGERIA ALGERIA-PUR-MATERIAL-53KM-281 ISOLATION RUBBER BEARING MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING GHANA KUMASI ROADS AND DRAINAGE EXTENSION PROJECT ELASTOMERIC BEARING EGORGIA E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI ISOLATION RUBBER BEARING EGYPT EL-FERDAN BRIDGE SPHERICAL BEARING EGYPT EL-FERDAN BRIDGE SPHERICAL BEARING KAZAKHSTAN FLOODED BRIDGE OVER THE URAL RIVER POT BEARING SRI LANKA OUTER CIRCULAR HIGHWAY SPHERICAL BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  POT BEARING EXPANSION JOINTS  FLASTOMERIC BEARING EXPANSION JOINTS  ELASTOMERIC BEARING EXPANSION JOINTS  FLASTOMERIC BEARING EXPANSION JOINTS  FLASTOMERIC BEARING EXPANSION JOINTS		KENIA	KN88 PROJECT		
CAMBODIA PHNOM PENH CHROY CHANGVAR BRIDGE POT BEARING GHANA POKUASE OVERPASS PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  BOLIVIA ESPION HIGHWAY PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  VIETNAM TRAN QUANG KHAI-BAC GIANG ELASTOMERIC BEARING INDONESIA JAPEK II ELEVATED ISOLATION RUBBER BEARING ALGERIA ALGERIA-PUR-MATERIAL-53KM-281 ISOLATION RUBBER BEARING EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING EXPANSION JOINTS  GEORGIA E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI ISOLATION RUBBER BEARING EXPANSION JOINTS  KAZAKHSTAN FLOODED BRIDGE OVER THE URAL RIVER POT BEARING  KAZAKHSTAN FLOODED BRIDGE OVER THE URAL RIVER POT BEARING  SRI LANKA OUTER CIRCULAR HIGHWAY SPERICAL BEARING  SPHERICAL BEARING  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING  SPHERICAL BEARING  EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  EXPANSION JOINTS  FLASTOMERIC BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS		INDONESIA	JALAN TOL UJUNG PANDANG SEKSI 3(JALAN LAYANG TOL AP PETTARANI)497	ISOLATION RUBBER BEARING	
BOLIVIA  BOLIVA  BOLIVA  BOLIVA  BOLIVA  BOLIVA  BOLIVA  BOLIVA  BOLIVA  BO		PAKISTAN	KAROT HYDROPOWER PROJECT	ELASTOMERIC BEARING	
BOLIVIA  TRAN QUANG KHAI-BAC GIANG  BLASTOMERIC BEARING  ISOLATION RUBBER BEARING  ISOLATION RUBBER BEARING  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  EXPANSION JOINTS  GEORGIA  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  SPHERICAL BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  EXPANSION JOINTS  BRIDGE 1 TO 5 IN HULHUMALE  BLASTOMERIC BEARING  BRIDGE 1 TO 5 IN HULHUMALE  B		CAMBODIA	PHNOM PENH CHROY CHANGVAR BRIDGE	POT BEARING	
VIETNAM TRAN QUANG KHAI-BAC GIANG ELASTOMERIC BEARING INDONESIA JAPEK II ELEVATED ISOLATION RUBBER BEARING ALGERIA ALGERIA-PUR-MATERIAL-53KM-281 ISOLATION RUBBER BEARING MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING GHANA KUMASI ROADS AND DRAINAGE EXTENSION PROJECT ELASTOMERIC BEARING EGPPT EL-FERDAN BRIDGE SPHERICAL BEARING EGYPT EL-FERDAN BRIDGE SPHERICAL BEARING  KAZAKHSTAN FLOODED BRIDGE OVER THE URAL RIVER POT BEARING SRI LANKA OUTER CIRCULAR HIGHWAY ELASTOMERIC BEARING  SPHERICAL BEARING SPHERICAL BEARING SPHERICAL BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING SPHERICAL BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING SAUDI ARABIAN TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD EXPANSION JOINTS  FLASTOMERIC BEARING FLASTOMERIC BEARING FLASTOMERIC BEARING FLASTOMERIC BEARING FLASTOMERIC BEARING FLASTOMERIC REARING		GHANA	POKUASE OVERPASS PROJECT		
INDONESIA  ALGERIA  ALGERIA  ALGERIA-PUR-MATERIAL-53KM-281  ISOLATION RUBBER BEARING  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  SRI LANKA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING EXPANSION JOINTS  GEORGIA  E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI  EGYPT  EL-FERDAN BRIDGE  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SRI LANKA  OUTER CIRCULAR HIGHWAY  SPHERICAL BEARING EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  FLASTOMERIC BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS		BOLIVIA	ESPION HIGHWAY PROJECT		
ALGERIA ALGERIA-PUR-MATERIAL-53KM-281 ISOLATION RUBBER BEARING  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING EXPANSION JOINTS  SRI LANKA COLOMBO PORT CITY DEVELOPMENT PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3) POT BEARING  GHANA KUMASI ROADS AND DRAINAGE EXTENSION PROJECT ELASTOMERIC BEARING EXPANSION JOINTS  GEORGIA E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI ISOLATION RUBBER BEARING  EGYPT EL-FERDAN BRIDGE SPHERICAL BEARING  KAZAKHSTAN FLOODED BRIDGE OVER THE URAL RIVER POT BEARING  SRI LANKA OUTER CIRCULAR HIGHWAY SPHERICAL BEARING EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING  VIETNAM MO RONG TUYEN DUONG BAO BIEN NUI BAI THO POT BEARING  SAUDI ARABIAN TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD EXPANSION JOINTS		VIETNAM	TRAN QUANG KHAI-BAC GIANG	ELASTOMERIC BEARING	
MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING EXPANSION JOINTS  SRI LANKA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  GHANA  KUMASI ROADS AND DRAINAGE EXTENSION PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  GEORGIA  E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI  EGYPT  EL-FERDAN BRIDGE  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SRI LANKA  OUTER CIRCULAR HIGHWAY  SPHERICAL BEARING  EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS		INDONESIA	JAPEK II ELEVATED	ISOLATION RUBBER BEARING	
2019  SRI LANKA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  GHANA  KUMASI ROADS AND DRAINAGE EXTENSION PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  GEORGIA  E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI  EGYPT  EL-FERDAN BRIDGE  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SRI LANKA  OUTER CIRCULAR HIGHWAY  SPHERICAL BEARING  EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING		ALGERIA	ALGERIA-PUR-MATERIAL-53KM-281	ISOLATION RUBBER BEARING	
SRI LANKA  COLOMBO PORT CITY DEVELOPMENT PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  SAUDI ARABIAN  LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)  POT BEARING  GHANA  KUMASI ROADS AND DRAINAGE EXTENSION PROJECT  GEORGIA  E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI  EGYPT  EL-FERDAN BRIDGE  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SRI LANKA  OUTER CIRCULAR HIGHWAY  SPHERICAL BEARING  EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING	2019	MALDIVES	BRIDGE 1 TO 5 IN HULHUMALE		
GHANA  KUMASI ROADS AND DRAINAGE EXTENSION PROJECT  ELASTOMERIC BEARING EXPANSION JOINTS  GEORGIA  E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI  EGYPT  EL-FERDAN BRIDGE  SPHERICAL BEARING  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SRI LANKA  OUTER CIRCULAR HIGHWAY  SPHERICAL BEARING EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING		SRI LANKA	COLOMBO PORT CITY DEVELOPMENT PROJECT		
GHANA  KUMASI ROADS AND DRAINAGE EXTENSION PROJECT  EXPANSION JOINTS  GEORGIA  E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI  ISOLATION RUBBER BEARING  EGYPT  EL-FERDAN BRIDGE  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING		SAUDI ARABIAN	LINK TAMA BY PASS VIA KING SALMAN ST. (PHASE 3)	POT BEARING	
EGYPT  EL-FERDAN BRIDGE  KAZAKHSTAN  FLOODED BRIDGE OVER THE URAL RIVER  POT BEARING  SPHERICAL BEARING  SPHERICAL BEARING  SPHERICAL BEARING  EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING		GHANA	KUMASI ROADS AND DRAINAGE EXTENSION PROJECT		
KAZAKHSTAN FLOODED BRIDGE OVER THE URAL RIVER POT BEARING  SRI LANKA  OUTER CIRCULAR HIGHWAY  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING		GEORGIA	E-60 HIGHWAY SECTION FROM ZEMO OSIAURI TO CHUMATELETI LOTI	ISOLATION RUBBER BEARING	
SPHERICAL BEARING EXPANSION JOINTS  MALDIVES  BRIDGE 1 TO 5 IN HULHUMALE  ELASTOMERIC BEARING  VIETNAM  MO RONG TUYEN DUONG BAO BIEN NUI BAI THO  POT BEARING  SAUDI ARABIAN  TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD  EXPANSION JOINTS  FLASTOMERIC BEARING		EGYPT	EL-FERDAN BRIDGE	SPHERICAL BEARING	
SRI LANKA OUTER CIRCULAR HIGHWAY EXPANSION JOINTS  MALDIVES BRIDGE 1 TO 5 IN HULHUMALE ELASTOMERIC BEARING  VIETNAM MO RONG TUYEN DUONG BAO BIEN NUI BAI THO POT BEARING  SAUDI ARABIAN TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD EXPANSION JOINTS FLASTOMERIC BEARING	2018	KAZAKHSTAN	FLOODED BRIDGE OVER THE URAL RIVER	POT BEARING	
2018 VIETNAM MO RONG TUYEN DUONG BAO BIEN NUI BAI THO POT BEARING SAUDI ARABIAN TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD EXPANSION JOINTS FLASTOMERIC BEARING		SRI LANKA	OUTER CIRCULAR HIGHWAY		
SAUDI ARABIAN TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD EXPANSION JOINTS  FLASTOMERIC BEARING		MALDIVES	BRIDGE 1 TO 5 IN HULHUMALE	ELASTOMERIC BEARING	
FLASTOMERIC BEARING		VIETNAM	MO RONG TUYEN DUONG BAO BIEN NUI BAI THO	POT BEARING	
ELASTOMERIC BEARING		SAUDI ARABIAN	TUNNEL AT INTERSECTION OF KING FAHD WITH KING ABDULLAH ROAD	EXPANSION JOINTS	
SRI LANKA NORTH SOUTH HIGHWAY EXPANSION JOINTS		SRI LANKA	NORTH SOUTH HIGHWAY		
ALGERIA MASCARA HIGHWAY ELASTOMERIC BEARING		ALGERIA	MASCARA HIGHWAY	ELASTOMERIC BEARING	

<sup>\*</sup>Job reference are not limited to the columns in the table.

### **APPLICATION**



SRI LANKA COLOMBO PORT CITY



ALGERIA REALISATION DE LA SECTION AUTOROUTIERE ENTRE LA CHIFFA ET BERROUAGHIA SUR 53KM



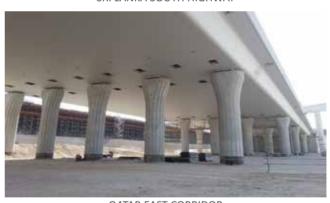
INDONESIA JAKARTA-CIKAMPEK II ELEVATED TOLL ROADS



SRI LANKA SOUTH HIGHWAY



KUWAIT JAHRA ROAD RA/166



QATAR EAST CORRIDOR



SAUDI ARABIA VIADUCT MINA-MUZDALIFA



GEORGIA E-60 HIGHWAY



#### LIUZHOU OVM MACHINERY CO., LTD.

No.1, Yanghui Road, Yanghe New Industrial Area, Liuzhou, Guangxi 545005, P.R. China Tel: +86 772 3116402 Fax: +86 772 3118665

http://www.ovm.cn http://www.ovmchina.com

Contents in this brochure are subject to review and amendment without further notice.