

**CRRC**

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**MASS TRANSIT**



**CRRC**

**GREAT POWER  
FOR BETTER MOBILITY**

#### MASS TRANSIT PROJECTS

Until December 2016, TEC delivered IGBT-based propulsion systems for more than **10000 mass transit vehicles**.

PROJECTS	YEAR	QUANTITY	PROJECTS	YEAR	QUANTITY
Shenyang metro 10 line	2016	27*6	Kunming Metro Line 3	2014	24*6
fuzhou 2 line	2016	31*6	Hangzhou Metro Line 4 Phase 1	2014	29*6
nanjing-gaochun urban rail from daolukou airport to lishui	2016	11*4	Guangzhou Metro Line 8	2014	24*6
nanjing-gaochun urban rail from daolukou to xicheng south station	2016	12*3	Tianjin metro line 1	2013	4*6
xuzhou urban rail line 1 fist stage	2016	23*6	Shenzhen metro line 1, type A vehicle	2013	33*8
wuhan urban rail line 1	2016	25*4	Fuzhou metro line 1	2013	28*6
wuhan urban rail line 21	2016	25*4	Changsha metro line 1	2013	23*6
wuhan urban rail line 11	2016	12*4	Shenyang-Tieling intercity vehicle	2013	11*6
ningbo urban rail line 3 first stage, from ningbo to fenghua	2016	38*6	Chongqing metro line 6	2013	11*6
zhengzhou urban rail line 5	2016	39*6	Wuhan metro line 4	2013	24*6
beijing urban rail line 8 stage 4 & changing stage 2	2016	11*6	Wuhan metro line 1	2013	29*6
North of Xi'an to airport urban rail	2016	13*4	Shenyang metro line 1	2013	10*6
beijing urban rail fangshan line extending line	2016	23*6	Ningbo metro line 1 phase 2	2013	17*6
xiamen urban rail line 2	2016	51*6	Ningtian intercity vehicle	2013	26*4
beijing urban rail line 7 stage 2	2016	33*8	Guangzhou metro line 7	2013	23*6
changsha urban rail line 4 stage 1	2016	32*6	Malaysia Anbang line	2012	20*6
Changsha rail transit line 2 extended line stage 1	2015	16*6	Shenzhen metro line 1,2 and 5	2012	33*6
Qingdao Metro line 2 stage 1	2015	25*6	Beijing metro line 7	2012	35*6
Nanning rail transit line 2 (yudong—xilue) electric motor coach	2015	21*6	Wuxi metro line 2	2012	23*6
Beijing Metro yanfang line	2015	15*4	Beijing metro line 7	2012	35*6
Chongqing rail transit loop line	2015	66*6	Chongqing metro line 6	2010	72*6
Hanoi metro, Vietnam	2015	13*4	Guangzhou metro line 5	2010	12*1
Shanghai rail transit line 1	2015	11*8	Chongqing metro line 3	2010	1*1
Guiyang city rail transit line 1	2015	34*6	Kunming metro	2010	40*6
Chongqing rail transit line 5 stage 1	2015	39*6	Guangzhou metro line 1,2 and 8, type A vehicle	2010	32*8
Kunming rail transit line 3 stage 2	2015	6*6	Turkey Izmir light rail vehicles	2010	8*4
Kunming rail transit line 1 chenggong branch line	2015	6*6	Shenzhen metro line 5, type A vehicle	2009	8*6
Shanghai Metro Line 17	2015	28*6	Engineering Maintenance vehicle for Singapore Metro	2009	14*1
Guangzhou Metro Line 4 South Extension	2015	27*4	Fangshan Line of Beijing metro	2009	21*6
Zhengzhou Metro Line 2	2014	18*6	Shenyang metro line 2	2008	20*6
Tianjin Metro Line 6	2014	45*6	Shanghai metro line 1	2006	16*8
Tianjin Metro Line 3	2014	4*6	Auxiliary convertor system for Hongkong MTR corporation	2002-2010	469
Tianjin Metro Line 1	2014	24*6	Emergency inverter for Hongkong MTR corporation	2002-2010	896
Shijiazhuang Metro Line 3	2014	20*6	Auxiliary convertor system for Hongkong MTR corporation	2002-2010	118
Shenzhen Metro Line 9	2014	29*6			
Shanghai Metro Line 11	2014	10*6			
Shanghai Metro Line 13 Phase 2	2014	35*6			
Shanghai Metro Line 13 Phase 3	2014	3*6			
Nanchang Metro Line 2 Phase1	2014	22*6			



## PRODUCTS PORTFOLIO

We have experience in three system core technologies: traction systems, signal systems and braking systems. We are at the frontier of technology with innovations in on-ground power supply, rail transit door systems and more.



## PAST PROJECTS

### 2 TURKEY IZMIR METRO 3RD RAIL DC750V

**Light Rail Parameters**  
Power:DC750V  
Formation of EMU:4M  
Maximum speed:80 km/h

### 3 CHANGSHA MAGLEV LINE MEDIUM LOW SPEED MAGLEV

**Maglev Train Parameters**  
Power: DC1500V (Pantograph)  
Formation of EMU: 3M  
Experimental speed: 100 km/h



### 1 MALAYSIA LIGHT RAIL MALAYSIA LIGHT RAIL

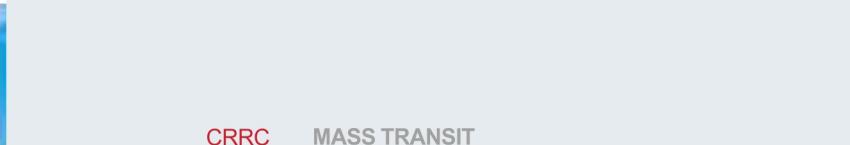
**Technical Features**  
MDCU traction platform, Auxiliary inverter system adopt grid power supply which is more reliable  
Bogie control, high adhesion utilization  
Articulated bogie  
Turning radius: 40 m

**EMU Parameters**  
Power: DC750V  
Formation of EMU: D-M-D  
Maximum speed: 700 km/h

### 4 SHANGHAI METRO LINE 11 TYPE A DC1500V

**Technical Features**  
AC propulsion system constituted by VVVVF inverter and asynchronous traction motor  
VVVF inverter adopt IGBT power component, forced air cooling method  
Main circuit of Traction system adopt two-level voltage type DC - AC inverter circuit

**Metro Parameters**  
Power:DC1500V (Pantograph)  
Formation of EMU:4M2T  
Maximum speed:100 km/h



### 5 KUNMING METRO LINE 3 TYPE A DC750V

**Technical Features**  
AC propulsion system constituted by VVVF inverter and asynchronous traction motor  
Train control  
Main circuit of Traction system adopt two-level voltage type DC - AC inverter circuit

**EMU Parameters**  
Power:DC750V  
Formation of EMU:4M2T  
Maximum speed:100 km/h

### 7 CHENGDU SHUANGLIU HANGING AIR TRAIN

**Technical features:**  
Integration and light weight  
Integrated forced air cooling traction inverter  
Compact control platform

**Hanging air train parameters:**  
Power: DC 750V  
Formation of EMU: 2M  
Maximum speed: 60km/h



### 6 LOW-FLOOR TRAM FOR NANJING HEXI LINE NON-OVERHEAD TRAM

**Technical Features**  
Onboard energy storage bidirectional DC/DC Charge  
Forced air cooling  
Permanent magnet traction motor: 120kW(totally enclosed water cooling)  
High frequency AuCT

**Light Rail Parameters**  
Traditional wheel set

### 8 LOW-FLOOR TRAM FOR FUSHAN GAOMIN LINE

**EMU features:**  
Hinge joint  
Power truck hub direct drive  
Hydrogen energy source hybrid energy storage

**Technical features of traction system:**  
Permanent magnet hub direct drive  
Miniaturization traction converter module  
HF Auct with three-level BUCK circuit and LLC syonty full-bridge

