



抗撞击钢筋连接套筒(CJ系列)

Anti Impact Rebar Coupling System (CJ series)



Hebei Yida Reinforcing Bar Connecting Technology Co., Ltd.
河北易达钢筋连接技术有限公司



Hebei Yida Reinforcing Bar Connecting Technology Co., Ltd. was founded in 1992, Yida company dedicated to research, production, sales and service of reinforced bar connection technology. (Mechanical rebar coupler, Anti impact coupler, Anchorage terminator coupler, rebar connecting technology equipment and accessories)

Hebei Yida company is industry-leader of steel bar connecting technology in China and has created lots of outstanding achievements. Hebei Yida company were supplied for thousands of national important projects, the products were widely used in construction of nuclear power plant, hydro-power Station, subway, high-speed rail and bridges, Cross-sea Bridges.

Hebei Yida company had entered the international market Since 2006, the products were exported to Russia, Kazakhstan, Armenia, Mexico, Argentina, Colombia, United Arab Emirates, Kuwait, Qatar, Bahrain, India, Pakistan, Iran, Vietnam, Malaysia, Indonesia, Singapore, Thailand, South Korea, Guinea, Cote Divoire and other countries.

河北易达钢筋连接技术有限公司创建于1992年，专门致力于建筑工程用钢筋连接技术（钢筋连接套筒、抗撞击套筒、钢筋锚固板、钢筋连接加工设备及配件）的研发、生产、销售及服

务。河北易达钢筋连接技术有限公司一直是国内钢筋连接技术研究、钢筋连接套筒和钢筋螺纹加工设备生产及销售的领先企业，先后承揽了包括核电在内的上千项国家和地方的重点工程，产品广泛用于核电、水电站、地铁、高铁及公路桥梁、跨海大桥等国家重点建设的大型项目。

在满足国内重点工程的同时，公司按照国际化战略，2006年开始进军国际市场，产品远销俄罗斯、哈萨克斯坦、亚美尼亚、墨西哥、阿根廷、哥伦比亚、阿联酋、科威特、卡塔尔、巴林、印度、巴基斯坦、伊朗、越南、马来西亚、印度尼西亚、新加坡、泰国、韩国、几内亚、科特迪瓦等国家。

COMPANY PROFILE

公司简介







河北易达钢筋连接技术有限公司
Hebei Yida Reinforcing Bar Connecting Technology Co., Ltd.

PRODUCT INTRODUCTION 产品简介

Hebei Yida Anti Impact Rebar Coupling system is divided into the following types:

ACJ Standard Coupler 2.1

BCJ Transition Coupler 2.2

FCJ Positive and negative
Thread Coupler 2.3

KCJ Adjustable Coupler 2.4

MCJ Anchorage Terminator Coupler 2.5

易达抗撞击套筒系列
分为以下几种类型:

ACJ标准型套筒2.1

BCJ变径套筒2.2

FCJ正反丝套筒2.3

KCJ可调套筒2.4

MCJ锚固板套筒2.5



PRODUCT INTRODUCTION

产品简介

Hebei Yida Anti Impact Rebar Coupling system is a mechanical rebar splicing system, be made of high quality alloy steel. It has already passed the High Speed Tensile test of Anti instant impact by Germany Berlin BAM Laboratory. It has been widely applied at the sites where required high level of resistance to impact. The coupler sleeve will be perfect connected with rebar by cold swaged deformation in the application, and dual couplers will be connected by a high strength bolt.

易达抗撞击套筒系列是一种钢筋机械连接系统，采用优质合金钢制造。已通过德国柏林BAM实验室进行的抗瞬间冲击试验。在有高等级抗撞击要求的工地上有广泛应用。实际使用中套管通过冷挤压变形和钢筋实现无缝隙连接，配对的套管间再通过一个高强度对丝相互连接。

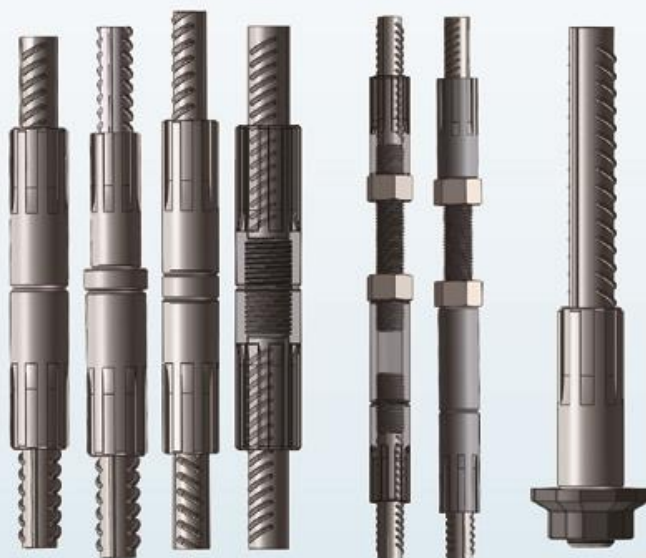
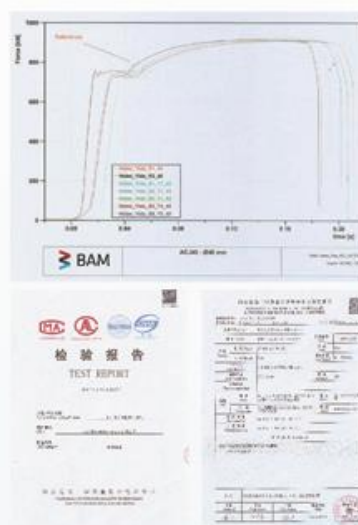


Figure 1 (图1)

>>> Special Advantages:

- (1) Each rebar is connected by cold swaged with a coupling. It was processed by large-tonnage hydraulic machine and unique split mould to ensure high quality and reliable radial deformation swage. Connection of rebar with coupler after swaged as shown in Figure 1.
- (2) Rebar sleeve bond press is done prior to site connection saving precious site time.
- (3) The two sleeves are connected through a high-strength bolt, quality ensured.
- (4) Installation on site is easy and fast, even in dense cages. No X-ray check is needed and installation can be done in any weather conditions.
- (5) No thread cutting, no need heat or pre-heat on rebar, hence the rebar retains its original characteristics after splice.
- (6) The Yida ACJ rebar coupling system stands complex or full tension as well as full compression state.

具有以下优点:

- (1) 每根钢筋通过冷挤压和一只套管紧密连接, 通过使用大吨位油压机和独特的分体模具保证了高质量和高可靠的径向变形挤压。挤压后的套管和钢筋连接如图1所示。
- (2) 钢筋套管挤压连接可以预先压制完成, 节省宝贵的现场时间。
- (3) 两个套管间通过一个特制的高强度对丝连接, 可以确保连接质量。
- (4) 现场安装简易快捷, 即使是在密集的钢筋笼内也可以快速完成。安装完成后不需要X光检验质量; 可以在任何天气条件下进行作业。
- (5) 钢筋无需进行螺纹切削、加热或预热, 因此连接后钢筋依旧保留了其原有的特性。
- (6) 易达抗撞击套筒系列可以经受复杂的拉应力和压应力状态。





2.1 ACJ

STANDARD COUPLER

2.1 ACJ标准型套筒

ACJ standard coupler is made up by two standard sleeves and one standard bolt (as shown in Figure 2), suitable for same diameter rebar connecting. The Yida ACJ is suitable for general application such as beams or walls where the rotation of the rebar is possible. Screw the bolt into one sleeve firstly, then rotate one rebar to screw the other bolt end into the other sleeve.

ACJ标准套筒由两个标准套管和一个标准对丝组成（如图2所示），适合相同直径钢筋的连接。用于常规应用，如梁柱或者墙体等钢筋可以转动的地方。先将对丝旋紧进入一个套管，然后转动钢筋旋紧到对丝的尾端进入另一个套管内。



Figure 2 (图2)

>>> Characteristic:

ACJ coupler uses standard female (sleeve) only, making rebar press more efficient as there is no need to specify different sleeves.

>>> 特点:

ACJ套筒只使用标准套管和对丝，就可以使钢筋高效率的连接而不需要各种特定的套管对丝。

>>> APPLICATION GUIDE:

Proper installation is very important to ensure the design load will be reached in the application. Yida strongly recommends that the installation and site quality check be done according to the required guidelines and dimensions.

使用指导:

正确的安装是非常重要的，以此来确保在实际应用中可以达到设计负荷力。应在各使用步骤中检查是否达到要求的尺寸标准。

>>> Rebar And sleeves swaged connection

Using hydraulic machine and unique split mould to swage sleeve deformation, formed the seamless connection with rebar and the swage length is to meet the standard swage length. Shorter swage length reduces the bond, while longer swage length may shorten the engagement length of the thread.

钢筋和套管的挤压连接

使用油压机和分体式挤压模具将套管挤压变形，形成与钢筋的无缝隙连接，挤压的长度和深度应符合标准。较短的挤压长度会减少连接的强度，而较长的挤压长度会缩短对丝和套管的结合长度。较深或较浅的挤压深度都会削弱钢筋和套管的连接强度。



>>> Site installation method

Step 1: Screw the bolt into female coupler swaged with rebar, till unable to screw continually. As shown in Figure 3.

现场安装方法

第一步：旋入对丝到一个已经和钢筋压接完的套管内，至无法继续旋入为止。如图3所示。



Figure 3 (图3)

Step 2: Screw another side of bolt into the other sleeve after swaged with rebar, till unable to screw continually. As shown in Figure 4.

第二步：将另一个和钢筋压接完成的套管旋入到对丝上，至无法继续旋入为止。如图4所示。



Figure 4 (图4)

2.2 BCJ TRANSITION COUPLER 2.2 BCJ变径套筒

BCJ Transition coupler is made up by two different dimension standard sleeve and one transition bolt(as shown in Figure 5),used for the connection between two pieces of different diameter rebar.BCJ transition coupler is suitable for general application such as beams or walls where the rotation of the rebar is possible. Screw the bolt into one sleeve first,then rotate one rebar to screw the other bolt end into the other sleeve.

BCJ变径套筒由两个不同尺寸的标准套筒和一个变径对丝组成（如图5所示），使用于连接两根不同直径的钢筋。用于常规应用，用于梁柱或者墙体等钢筋可以转动的地方。先将对丝旋紧进入一个套管，然后转动钢筋旋紧到对丝的尾端直至进入另一个套管内。



Figure 5 (图5)



>>> Characteristic:

BCJ Transition coupler uses of different dimension standard sleeves and transition bolt, making different diameter rebar connection more efficient.

>>> 特点:

BCJ套筒使用不同尺寸的标准套管和变径对丝，可以使不同直径的钢筋高效率的连接。

>>> APPLICATION GUIDE :

Proper installation is very important to ensure the design load will be reached in the application. Yida strongly recommends that the installation and site quality check be done according to the required guidelines and dimensions.

使用指导:

恰当的安装是非常重要的，以此来确保在实际应用中可以达到设计负荷力。应在各使用步骤中检查是否达到要求的尺寸。

>>> Rebar And sleeves swaged connection

Using hydraulic machine and unique split mould to swage sleeve deformation, formed the seamless connection with rebar and the swage length is to meet the standard swage length. Shorter swage length reduces the bond, while longer swage length may shorten the engagement length of the thread.

钢筋和套管的挤压连接

使用油压机和分体式挤压模具将套管挤压变形，形成与钢筋的无缝隙连接，挤压的长度和深度应符合标准。较短的挤压长度会减少连接的强度，而较长的挤压长度会缩短对丝和套管的结合长度。较深或较浅的挤压深度都会削弱钢筋和套管的连接强度。

>>> Site Installation Method

Step 1: Screw the transition bolt into female coupler swaged with rebar, till unable to screw continually. As shown in Figure 6.

现场安装方法

第一步：旋入变径对丝到一个已经和钢筋压接完的套管内，至无法继续旋入为止。如图6所示。



Figure 6 (图6)

Step 2: Screw another side of bolt into the other diameter sleeve after swaged with rebar, till unable to screw continually. As shown in Figure 7.

第二步：将另一个不同尺寸与钢筋压接完成的套管旋入到对丝上，至无法继续旋入为止。如图7所示。



Figure 7 (图7)

Step 3: With help of two pipe wrench, tighten the connection by turning both rebar / couplers in opposite direction at the same time.

第三步：使用两个管钳对向拧紧两个套管。

2.3 FCJ

POSITIVE AND NEGATIVE THREAD COUPLER

2.3 FCJ正反丝套筒

FCJ Positive and Negative thread coupler is made up by one standard sleeve, one negative thread sleeve and one transition bolt(as shown in Figure 8),used for connection between two pieces of different diameter rebar. It is suitable for long rebar connections, or bended rebars where the rotation of the rebar is difficult or even impossible as well as Only one of the rebars must be movable on its axis. Through turning the bolt, two pieces of rebar can be loosen or tighten at same time.

FCJ正反丝套筒由一个标准套管、一个反丝套筒和一个正反丝对丝组成（如图8所示），使用于连接两根同直径的钢筋。适用于钢筋转动困难或几乎不能转动的弯曲钢筋的连接、很长的钢筋连接和只有一根钢筋可以轴向活动的连接。通过旋转对丝，能同时松开或拧紧两根钢筋。



Figure 8 (图8)



>>> Characteristic:

FCJ Coupler can make two different diameter rebar connecting more efficient even the rotation of the rebar is difficult or even impossible.

>>> 特点:

FCJ套筒使用可以使两根钢筋在不能转动的情况下还能高效率的连接。

>>> APPLICATION GUIDE:

Proper installation is very important to ensure the design load will be reached in the application. Yida strongly recommends that the installation and site quality check be done according to the required guidelines and dimensions.

使用指导:

恰当的安装是非常重要的，以此来确保在实际应用中可以达到设计负荷力。应在各使用步骤中检查是否达到要求的尺寸。

>>> Rebar And sleeves swaged connection

Using hydraulic machine and unique split mould to swage sleeve deformation, formed the seamless connection with rebar and the swage length is to meet the standard swage length. Shorter swage length reduces the bond, while longer swage length may shorten the engagement length of the thread.

钢筋和套管的挤压连接

使用油压机和分体式挤压模具将套管挤压变形，形成与钢筋的无缝隙连接，挤压的长度和深度应符合标准。较短的挤压长度会减少连接的强度，而较长的挤压长度会缩短对丝和套管的结合长度。较深或较浅的挤压深度都会削弱钢筋和套管的连接强度。



>>> Site Installation Method

Step 1: Make one sleeve swaged with rebar, another sleeve swaged with rebar, touch to the positive & negative bolt, As shown in Figure 9.

现场安装方法

第一步：将一个压接完标准套管的钢筋和另一个压接完反丝套管的钢筋与正反丝对丝接触。如图9所示。



Figure 9 (图9)

Step 2: When screw the bolt, make the two sides sleeve keep touch with bolt, can turn both two sides sleeve into the bolt, till the sleeves touch into the bolt convex plate. As shown in Figure 10.

第二步：拧动对丝的同时，让两侧的套管与对丝保持接触，即可使两侧套管同时旋入对丝中，至套管与对丝凸台接触为止。如图10所示。



Figure 10 (图10)

Step 3: With help of two pipe wrench, tighten the connection by turning both two sides sleeve in opposite direction at the same time.

第三步：使用两个管钳对向拧紧两个套管。

2.4 KCJ

ADJUSTABLE COUPLER

2.4 KCJ可调套筒

KCJ Adjustable coupler is made up by two standard sleeves, one full thread sleeve, one standard bolt, one lengthened bolt and two fastening nuts(as shown in Figure 11),used for connecting between two pieces of different diameter rebar. It is suitable for nonconventional applications, at the reinforcing cage or both two pieces of rebars where the rotation of the rebar is impossible.

KCJ可调套筒由两个标准套筒、一个全螺纹套筒、一个标准对丝、一个加长对丝和两个紧固螺母组成（如图11所示），用于连接两根同直径的钢筋。用于非常规应用，在钢筋笼或两根钢筋完全无法移动的情况下进行钢筋机械连接时使用。



Figure 11 (图11)



>>> **Characteristic:**

KCJ Adjustable coupler use the standard sleeves, full thread sleeve, standard bolt, lengthened bolt and fastening nut, it can make the two pieces of rebars where the rotation of the rebar is impossible to be connected via adding the fastening nut.

>>> **特点:**

KCJ套筒通过使用标准套管、全螺纹套筒、标准对丝、加长对丝和紧固螺母，由于增加了紧固螺母，可以使两个完全无法移动的钢筋实现牢固连接。

>>> **APPLICATION GUIDE :**

Proper installation is very important to ensure the design load will be reached in the application. Yida strongly recommends that the installation and site quality check be done according to the required guidelines and dimensions.

使用指导:

恰当的安装是非常重要的，以此来确保在实际应用中可以达到设计负荷力。应在各使用步骤中检查是否达到要求的尺寸。

>>> **Rebar And sleeves swaged connection**

Using hydraulic machine and unique split mould to swage sleeve deformation, formed the seamless connection with rebar and the swage length is to meet the standard swage length. Shorter swage length reduces the bond, while longer swage length may shorten the engagement length of the thread.

钢筋和套管的挤压连接

使用油压机和分体式挤压模具将套管挤压变形，形成与钢筋的无缝隙连接，挤压的长度和深度应符合标准。较短的挤压长度会减少连接的强度，而较长的挤压长度会缩短对丝和套管的结合长度。较深或较浅的挤压深度都会削弱钢筋和套管的连接强度。

>>> **Site Installation Method**

Step 1: Screw the standard bolt into female coupler swaged with rebar, till unable to screw continually. As shown in Figure 12.

现场安装方法

第一步：旋入标准对丝到一个已经和钢筋压接完的标准套管内，至无法继续旋入为止。如图12所示。



Figure 12 (图12)

Step 2: Screw the full thread sleeve into lengthened bolt, till one end flush and abreast. Make the two fastening nuts keep touch with lengthened bolt and full thread sleeve. As shown in Figure 13.

第二步：将全螺纹套管全部旋入加长对丝，至一端平齐。把两个紧固螺母旋入加长对丝和全螺纹套管接触。如图13所示。



Figure 13 (图13)

Step 3: Turn the full thread sleeve into the standard bolt in opposite direction (shown in Figure 12), till the full thread sleeve touch with the standard sleeve. With help of two pipe wrench, tighten the connection by turning both two sleeves in opposite direction at the same time. As shown in Figure 14.

第三步：反向旋转全螺纹套管到图12所示的标准对丝上，至全螺纹套管和标准套管接触，用管钳对向紧固两个套管。如图14所示。

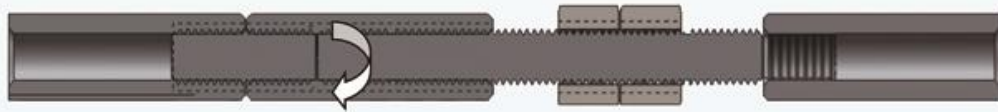


Figure 14 (图14)

Step 4: Turn the lengthened bolt into the other side standard bolt till the marked section in opposite direction, rotate the fastening nuts on both sides and firm lock the nuts. As shown in Figure 15.

第四步：反向旋转加长对丝进入另一侧的标准套管内至标志区为止，分别向两侧旋转紧固螺母并紧固锁紧。如图15所示。

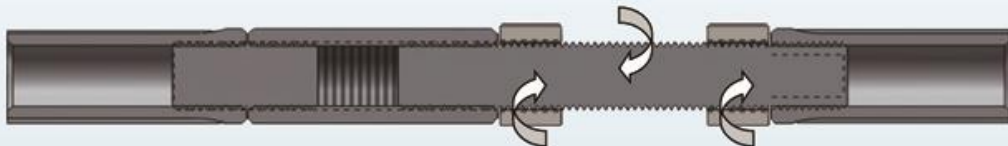


Figure 15 (图15)



2.5 MCJ ANCHORAGE TERMINATOR COUPLER

2.5 MCJ锚固板套筒

MCJ Anchorage Terminator Coupler is made up by one standard sleeve, one standard bolt, and one standard anchorage terminator coupler (as shown in Figure 16), used for the connection between rebar and anchorage terminator coupler. It can be used when need using anchorage terminator coupler to connect with rebar.

MCJ锚固板套筒由一个标准套管、一个标准对丝和一个标准锚固板组成（如图16所示），用于连接钢筋和锚固板。当钢筋需要使用锚固板锚固时使用。



Figure 16 (图片16)

>>> Characteristic:

MCJ Coupler is using standard sleeve, standard bolt to make the rebar connected with anchorage terminator coupler so that can satisfy the anti impact requirement.

>>> 特点:

MCJ套筒通过使用标准套管、标准对丝，可以使钢筋与锚固板的连接达到抗撞击的要求。

>>> APPLICATION GUIDE :

Proper installation is very important to ensure the design load will be reached in the application. Yida strongly recommends that the installation and site quality check be done according to the required guidelines and dimensions.

使用指导:

恰当的安装是非常重要的，以此来确保在实际应用中可以达到设计负荷力。应在各使用步骤中检查是否达到要求的尺寸。

>>> Rebar And sleeves swaged connection

Using hydraulic machine and unique split mould to swage sleeve deformation, formed the seamless connection with rebar and the swage length is to meet the standard swage length. Shorter swage length reduces the bond, while longer swage length may shorten the engagement length of the thread.

钢筋和套管的挤压连接

使用液压机和分体式挤压模具将套管挤压变形，形成与钢筋的无缝隙连接，挤压的长度和深度应符合标准。较短的挤压长度会减少连接的强度，而较长的挤压长度会缩短对丝和套管的结合长度。较深或较浅的挤压深度都会削弱钢筋和套管的连接强度。



>>> Site Installation Method

Step 1: Screw the standard bolt into female coupler swaged with rebar, till unable to screw continually. As shown in Figure 17.

现场安装方法

第一步：旋入标准对丝到一个已经和钢筋压接完的标准套管内，至无法继续旋入为止。如图17所示。



Figure 17 (图片17)

Step 2: Screw the anchorage terminator coupler into standard bolt, make the anchorage terminator coupler keep touch with female coupler. As shown in Figure 18.

第二步：将锚固板全部旋入到对丝上，至锚固板和套筒接触。如图18所示。



Figure 18 (图片18)

Step 3: With help of two pipe wrench, tighten the connection by turning both two sleeves in opposite direction at the same time.

第三步：使用两个管钳对向拧紧两个套管。



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