



# FIRST FORTUNE

INTERNATIONAL CO., LTD.

## *Catalog*

*Rebar Trading, Cut & Bend Service*  
*Rebar Fabrication and Coupler*

# Company Overview



## **Business Type**

- **Trading**
- **Cut & Bend**
- **Fabrication of Column Cage**
- **Distributor of Coupler**

## **Total of Staff**

- **60 (April 2019)**

**First Fortune International** establish in **19 February 2019**. Joint-Venture between Singapore and Myanmar. We offer a **“one-stop” end-to-end solution** for our customers, ranging from distribution services to **downstream and value-added activities**. Equipped with strong sourcing capability from an extensive network of suppliers from countries such as China, Japan, Korea, Turkey, Russia, Ukraine, and other Eastern European countries, we carry various type of steel, dimensions and for a wide range of industries and applications.



# *First Fortune-Factory Layout*

**4.57 ACRES**

**Production &  
Warehouse Area**

**US \$12M**

**Total Phase A  
Investment**

**Phase 2  
(Future)**

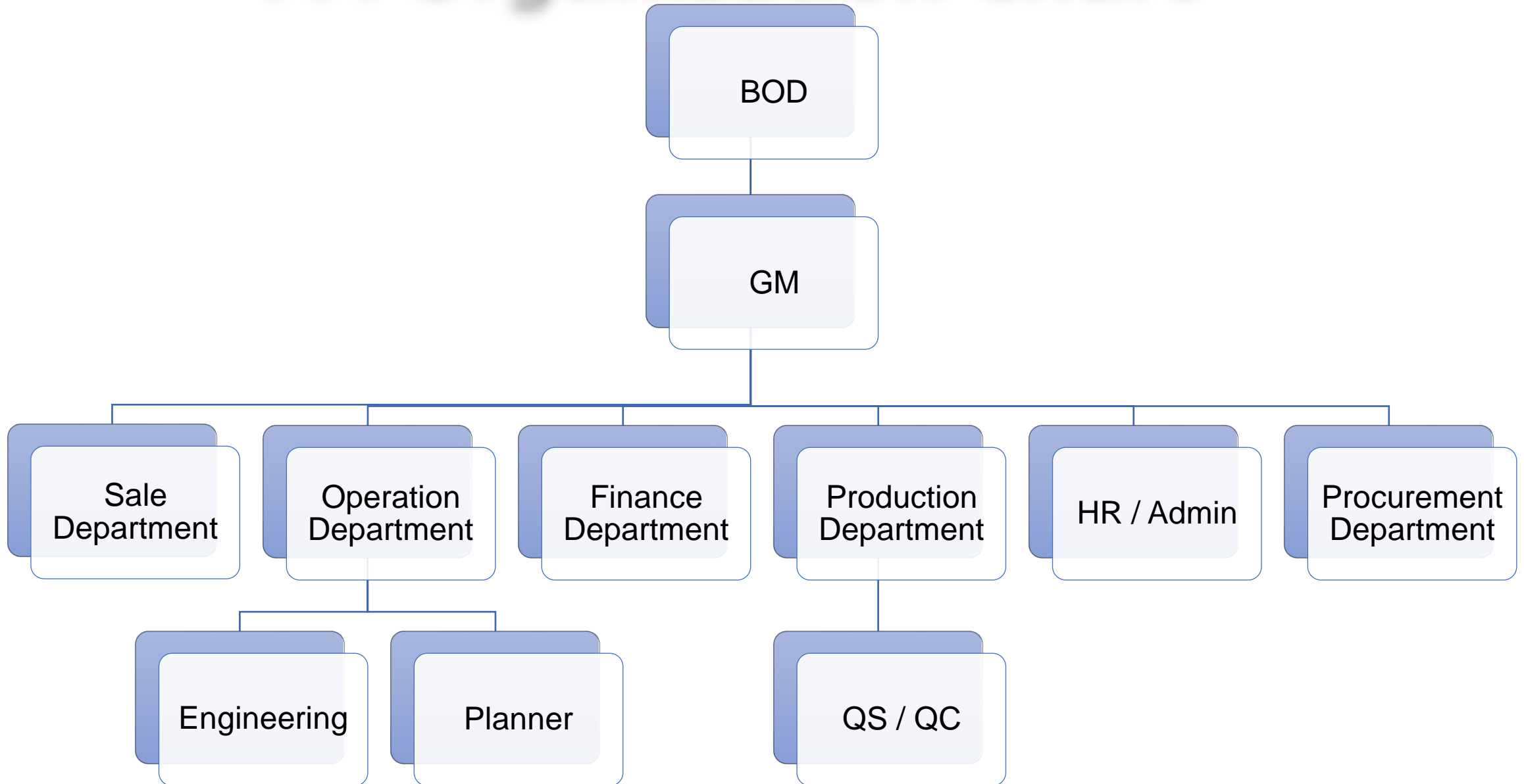
**2.8 Acres Land**

**50,000 MT**

**Annual Processing  
Capacity**

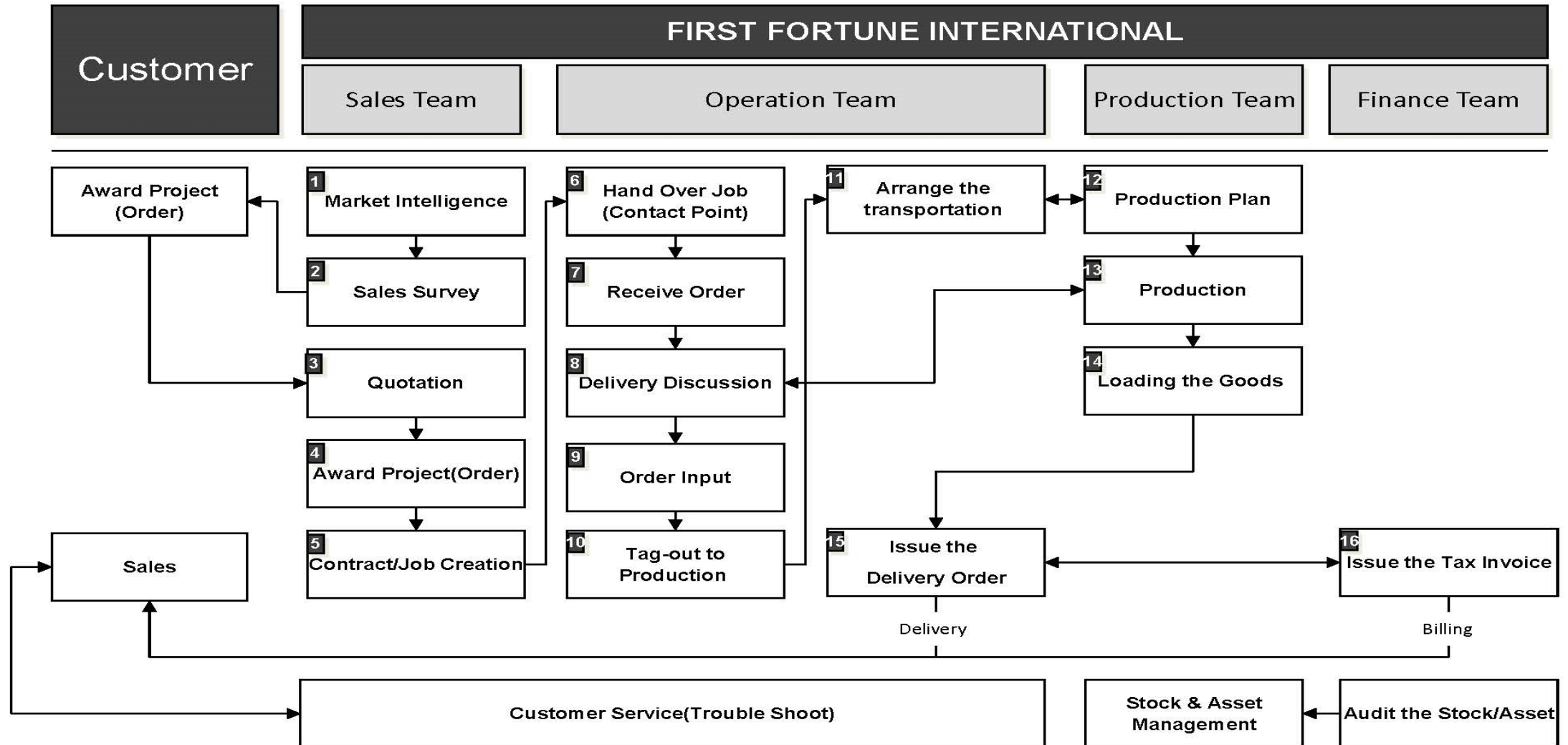


# FFI Organization Chart



# FIRST FORTUNE INTERNATIONAL

## FFI Work Process / R&R





# Core Business Strength

## ➤ *Trading of Deformed Bar*



### Deform Bar and Coil Size

- Ø 10mm, Ø 12mm, Ø 14mm Ø 16mm Ø 18mm,  
Ø 20mm Ø 22mm, Ø 25mm, Ø 32mm, Ø 40mm
- Coil : Ø 6.5mm, Ø 8mm, Ø 10mm

### Deform Bar Specification

B500B , ASTM 615, HRB 500/400

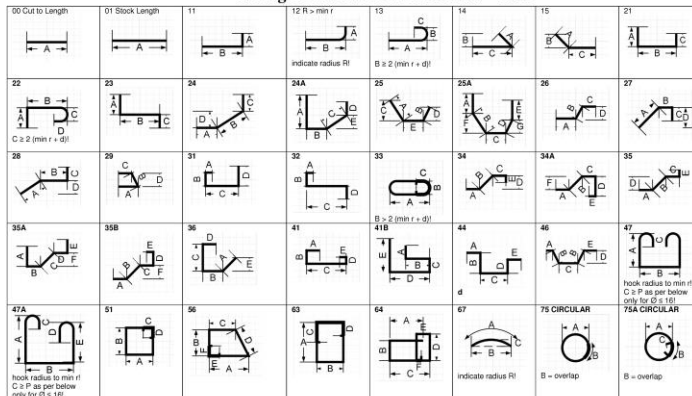


# Core Business Strength

## ➤ Cut&Bend Service



First Fortune International Co., Ltd Shape  
Coding in accordance with BS 8666 – 2005



## Benefit of Cut and Bend

- Improved production Speed
- Improved accuracy
- Improved quality
- Reduced labour cost
- Reduced monitoring cost
- Reduced waste materials
- Greatly improved peace of mind



# Core Business Strength

## ➤ ***Fabrication of Column Cage***



***We fabricate...***

- **Column Cage**
- **Diaphragm Wall**
- **Bored Pile Cage**
- **Micro Pile**



*Our processes ensures minimum wastage, quick turnaround times with quality products*



# Core Business Strength

➤ ***We provide ...***

[illegible]

### Bored Pile

- Piles of variable lengths can be extended through soft, compressible, or swelling soils into suitable bearing material.
- Piles can be extended to depths below frost penetration and seasonal moisture variation.
- Large excavations and subsequent backfill are minimized.
- Less disruption to adjacent soil occurs.
- Vibration is relatively low, reducing disturbance of adjacent piles or structures.
- High-capacity caissons can be constructed by expanding the base of the pile shaft up to three times the shaft diameter, thus eliminating the need for caps over groups of multiple piles.
- For many design situations, bored piles offer higher capacities with potentially better economics than driven piles.

CAGE NO. & TYPE

1ST CAGE

CAGE NO.

1ST CAGE

NUMBER	MAIN BAR	BAR DIA (mm)	UNIT WEIGHT (kg/m)	LENGTH (m)	A	B	C	D	E	F	TOTAL LENGTH (m)	UNIT WEIGHT (kg)	REMARK
MAIN BAR	14	12	28	20	1000	225	1680	64			3.000	6.313	0.739
EXTERNAL LINK	34	1020	18	59	240	610	200	630			4.100	2.466	0.182
	44	1112	26	22	140	850	100	120			1.000	0.888	0.037
REST/SPACER BAR	74	1032	4	0							1.800	6.313	0.045
STIFFENER BAR	84	1025	2	26	300	1000	300	770			1.600	3.654	0.012
COUPLER	124	1032	11	810	300						1.110	6.313	0.026
COUPLER	126	1032	50	11	730	280					1.110	6.313	0.010
SUB. TOTAL											1.142		

1. PLEASE REPORT INACCURACY TO ENGINEERING DEPARTMENT IF HAVE ANY DISCREPANCY.

2. PLEASE FOLLOW EVERY DIMENSION AND QUANTITY.

3. THIS TABLE TONNAGE IS FOR THIS ONE CASE ONLY.

1ST CAGE=3000



### DIAPHRAGM WALL PANELS

Diaphragm wall panels are often constructed as a solution for difficult projects: They are suited for deep basements, underground car parks and rail stations, tunnel approaches, underpasses, deep shafts for tunnel ventilation, pumping stations, and so on.

- Retaining walls for excavations in underground construction areas , even when in the vicinity of existing buildings;
- Construction of underground galleries and subways;
- Polygonal shape for the construction of underground reservoirs and shafts;
- Functioning as a deep foundations element;
- Containment structures to prevent landslides;

## DIAPHRAGM WALL

MEMBER	BAR MARK	BAR SIZE	LENGTH (mm)	AREA (mm <sup>2</sup> )	WGT (kg)	NO. OF COUPLES	UNIT WEIGHT (kg/m)	TOTAL WGT (kg)	REMARK
MAIN BAR	14	R32	29	20	3000	180	6	1000	6.313 0.739
EXTERNAL LINK	34	R20	15	59	240	610	200	530	4.246 0.182
INTERNAL LINK	44	R12	26	12	142	830	150	120	1.008 0.037
RESTRAINER BAR	74	R32	4	0	0	0000	0000	0000	6.313 0.045
STIFFENER BAR	84	R25	2	26	300	1000	300	770	1.804 0.012
COUPLER	124	R32	18	11	110	300	110	610	6.313 0.028
COUPLER	124	R32	18	11	170	000	000	110	6.313 0.010
SUB TOTAL									1.143

1. PLEASE REFER BACKLOGGED TO ENGINEERING DEPARTMENT IF HAVE ANY DISCREPANCY.  
2. PLEASE FILL FORTH DESIGN AND QUANTITY.  
3. UNIT: MILLI METER (mm) FOR BAR SIZE AND LENGTH, KILOGRAM (kg) FOR WEIGHT.

1ST CAGE=3000

2400-2800(A) EXTERNAL LINK = 1400  
2400-2800(B) INT. LINK = 1400

2400-2800(C) RE BAR = 2000

2400-2800(D) RE BAR = 2000

2400-2800(E) RE BAR = 2000

2400-2800(F) RE BAR = 2000

2400-2800(G) RE BAR = 2000

2400-2800(H) RE BAR = 2000

2400-2800(I) RE BAR = 2000

2400-2800(J) RE BAR = 2000

2400-2800(K) RE BAR = 2000

2400-2800(L) RE BAR = 2000

2400-2800(M) RE BAR = 2000

2400-2800(N) RE BAR = 2000

2400-2800(O) RE BAR = 2000

2400-2800(P) RE BAR = 2000

2400-2800(Q) RE BAR = 2000

2400-2800(R) RE BAR = 2000

2400-2800(S) RE BAR = 2000

2400-2800(T) RE BAR = 2000

2400-2800(U) RE BAR = 2000

2400-2800(V) RE BAR = 2000

2400-2800(W) RE BAR = 2000

2400-2800(X) RE BAR = 2000

2400-2800(Y) RE BAR = 2000

2400-2800(Z) RE BAR = 2000

2400-2800(AA) RE BAR = 2000

2400-2800(AB) RE BAR = 2000

2400-2800(AC) RE BAR = 2000

2400-2800(AD) RE BAR = 2000

2400-2800(AE) RE BAR = 2000

2400-2800(AF) RE BAR = 2000

2400-2800(AG) RE BAR = 2000

2400-2800(AH) RE BAR = 2000

2400-2800(AI) RE BAR = 2000

2400-2800(AJ) RE BAR = 2000

2400-2800(AK) RE BAR = 2000

2400-2800(AL) RE BAR = 2000

2400-2800(AM) RE BAR = 2000

2400-2800(AN) RE BAR = 2000

2400-2800(AO) RE BAR = 2000

2400-2800(AP) RE BAR = 2000

2400-2800(AQ) RE BAR = 2000

2400-2800(AR) RE BAR = 2000

2400-2800(AS) RE BAR = 2000

2400-2800(AT) RE BAR = 2000

2400-2800(AU) RE BAR = 2000

2400-2800(AV) RE BAR = 2000

2400-2800(AW) RE BAR = 2000

2400-2800(AX) RE BAR = 2000

2400-2800(AY) RE BAR = 2000

2400-2800(AZ) RE BAR = 2000

2400-2800(BA) RE BAR = 2000

2400-2800(BB) RE BAR = 2000

2400-2800(BC) RE BAR = 2000

2400-2800(BD) RE BAR = 2000

2400-2800(BE) RE BAR = 2000

2400-2800(BF) RE BAR = 2000

2400-2800(BG) RE BAR = 2000

2400-2800(BH) RE BAR = 2000

2400-2800(BI) RE BAR = 2000

2400-2800(BJ) RE BAR = 2000

2400-2800(BK) RE BAR = 2000

2400-2800(BL) RE BAR = 2000

2400-2800(BM) RE BAR = 2000

2400-2800(BN) RE BAR = 2000

2400-2800(BO) RE BAR = 2000

2400-2800(BP) RE BAR = 2000

2400-2800(BQ) RE BAR = 2000

2400-2800(BR) RE BAR = 2000

2400-2800(BS) RE BAR = 2000

2400-2800(BT) RE BAR = 2000

2400-2800(BU) RE BAR = 2000

2400-2800(BV) RE BAR = 2000

2400-2800(BW) RE BAR = 2000

2400-2800(BX) RE BAR = 2000

2400-2800(BY) RE BAR = 2000

2400-2800(BZ) RE BAR = 2000

2400-2800(CA) RE BAR = 2000

2400-2800(CB) RE BAR = 2000

2400-2800(CC) RE BAR = 2000

2400-2800(CD) RE BAR = 2000

2400-2800(CE) RE BAR = 2000

2400-2800(CF) RE BAR = 2000

2400-2800(CG) RE BAR = 2000

2400-2800(CH) RE BAR = 2000

2400-2800(CI) RE BAR = 2000

2400-2800(CJ) RE BAR = 2000

2400-2800(CK) RE BAR = 2000

2400-2800(CL) RE BAR = 2000

2400-2800(CM) RE BAR = 2000

2400-2800(CN) RE BAR = 2000

2400-2800(CO) RE BAR = 2000

2400-2800(CP) RE BAR = 2000

2400-2800(CQ) RE BAR = 2000

2400-2800(CR) RE BAR = 2000

2400-2800(CS) RE BAR = 2000

2400-2800(CT) RE BAR = 2000

2400-2800(CU) RE BAR = 2000

2400-2800(CV) RE BAR = 2000

2400-2800(CW) RE BAR = 2000

2400-2800(CX) RE BAR = 2000

2400-2800(CY) RE BAR = 2000

2400-2800(CZ) RE BAR = 2000

2400-2800(DA) RE BAR = 2000

2400-2800(DB) RE BAR = 2000

2400-2800(DC) RE BAR = 2000

2400-2800(DD) RE BAR = 2000

2400-2800(DE) RE BAR = 2000

2400-2800(DF) RE BAR = 2000

2400-2800(DG) RE BAR = 2000

2400-2800(DH) RE BAR = 2000

2400-2800(DI) RE BAR = 2000

2400-2800(DJ) RE BAR = 2000

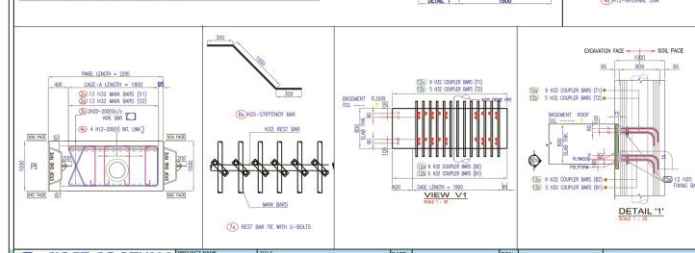
2400-2800(DK) RE BAR = 2000

2400-2800(DL) RE BAR = 2000

2400-2800(DM) RE BAR = 2000

2400-2800(DN) RE BAR = 2000

2400-2800(DO



CUSTOMER	MYANMAR	COLUMN SIZE	1000 X 1000 (MM)	CAGE MARK	C-11
		CAGE SIZE	900 X 900 (MM)	CAGE QTY.	1
BBS: NO.	COLUMN CAGE	CONCRETE COVER	50MM	FLOOR.	

TYPICAL SECTION  
1000MM X 1000MM COLUMN CAGE

MEMBER	BBS MARK	START NO. (mm)	END SHAPE (mm)	BBS SHAPE	A	B	C	D	E	TOTAL	UNIT	AMOUNT	REMARK
MAIN BBS	VB-1	100	10	10	2000					2000	3.834	1.85	
EXTERNAL LINK	LA-1	100	10	10	200	200	200	200	200	200	0.617	0.223	3000x7
INTERNAL LINK	LA-2	100	10	10	200	200	200	200	200	200	0.617	0.223	3000x7
SPACER BBS	SP-1	100	10	10	200	200	200	200	200	200	0.617	0.223	
STIRRUP BBS	ST-1	100	10	10	200	200	200	200	200	200	0.617	0.223	
SUB TOTAL												0.278	

1. PLEASE REPORT IMMEDIATELY TO ENGINEERING DEPARTMENT IF HAVE ANY DISCREPANCY.  
2. PLEASE FOLLOW THE DESIGN AND CONSTRUCTION REQUIREMENTS.  
3. THIS TABLE IS ONLY ONE.



### Prefabricated Column

- . Shorter construction time - less than half of conventional cast in-situ construction
- . Independent of adverse weather conditions during construction
- . Continuing erection in Winter time until -20 °C
- . Quality surveillance system
- . Factory made products
- . Opportunities for good architecture
- . Healthy buildings
- . Environmentally friendly way of building with optimum use of materials, recycling of waste products, less noise and dust etc
- . Cost effective solutions
- . Reduce construction waste

➤ Shop Drawing Service

➤ Engineering Support

*"All our Engineers are trained by Singapore Standard"*

# Core Business Strength

## ➤ *Distributor of Coupler*



We supply

- Ø16mm
- Ø20mm
- Ø25mm
- Ø32mm
- Ø40mm
- Threading Service



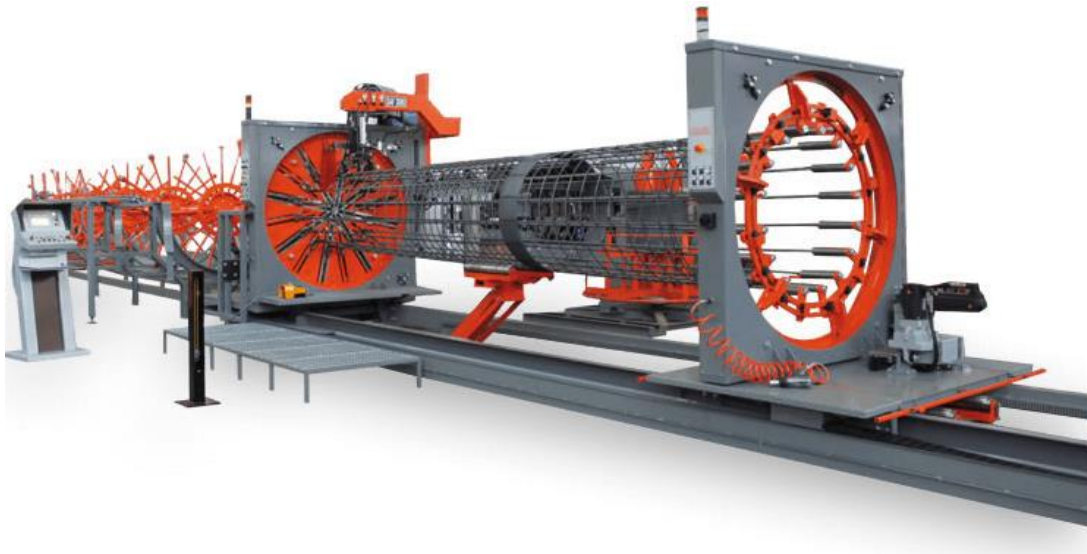
# Machineries



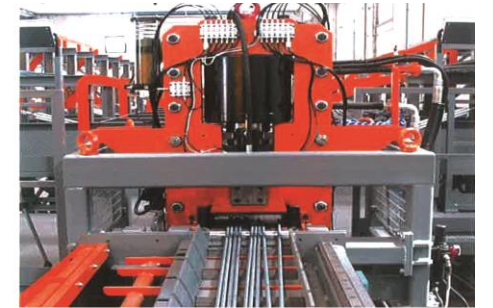
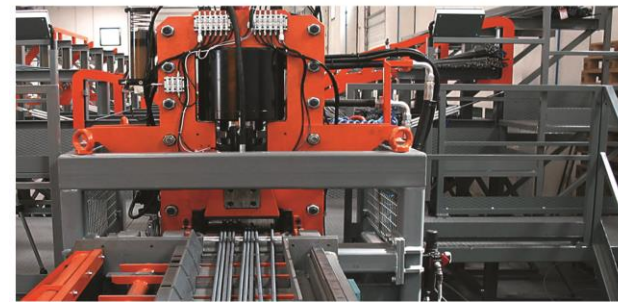
**Robomaster-2**



**Robomaster-1**



**Bored Pile Cage Machine**



**Share Line**



# Facilities

## ➤ *Production Area*



- *Control and Planning Area*
- *Inventory*
- *Machining*
- *Loading Area*
- *Implementing*



# Inventory

## ➤ **Trading Rebar Storage**



## ➤ **Cut& Bend Rebar Storage**



## **Our sources from...**

*China, Malaysia, Thailand, Japan, Korea,  
Turkey, Russia, Ukraine and Eastern European and  
etc*





Sys. **A**

# Parallel Thread Upsetting System

• *Most popular and wide-accepted technology for overseas market*

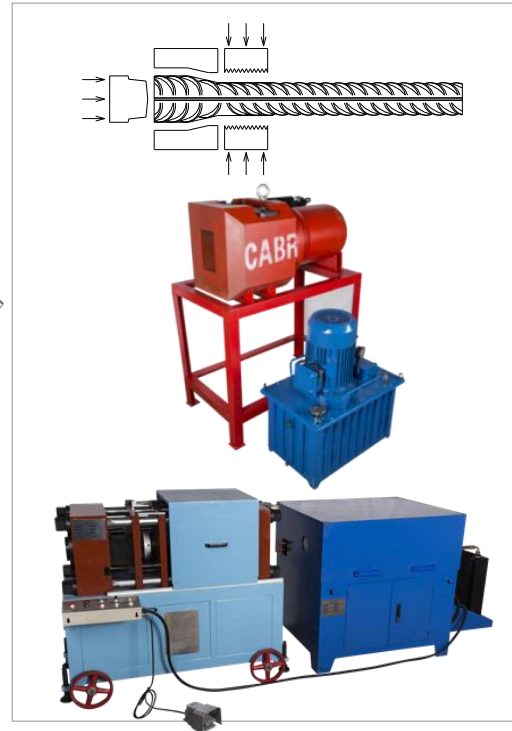


# Sys. A Parallel Thread Upsetting System

## 1. Cutting



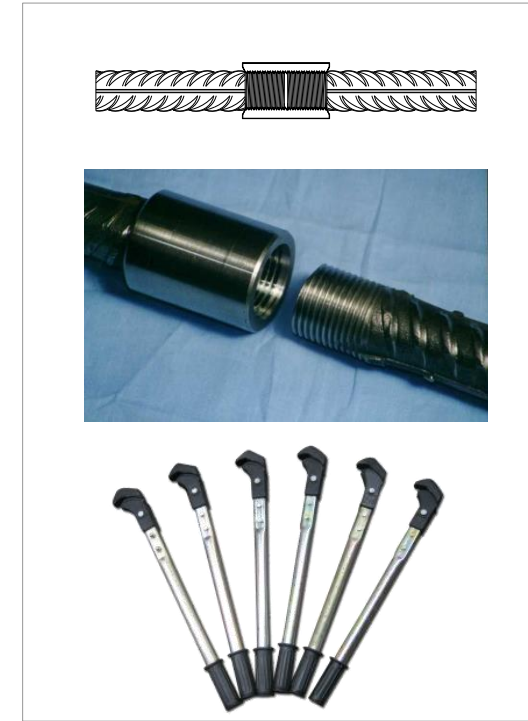
## 2. Upsetting



## 3. Threading





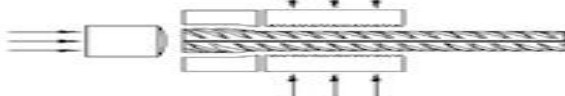


## 4. Splicing



# Sys. A

## Parallel Thread Rebar Splice with Upsetting End

### 1. Process

1	Rebar Cutting		
2	Rebar End Forging		
3	Rebar End Threading		
4	Rebar Coupler Connecting		

### 2. Product Advantages

#### Safe & Reliable

High strength coupler; Achieve 100% ultimate tensile and yield strength of rebar; Comply with the requirements of Chinese JGJ107, American standard ACI318 ACI349, British standard BS8110, French standard NF35-20-1, German standard DIN1045, ISO 15835 and other relevant standards.

#### Simple & Efficient

Easy to operate and maintain; High efficient production; Fast installation; Take less than 1 minute to forge and thread one rebar end on-site.

#### Widely Applicable

Different types of couplers; Suitable for different construction situations such as the rebar cage and the bending rebar.

#### Widely Adaptable

Adaptable for different weather conditions.

#### Energy-Saving

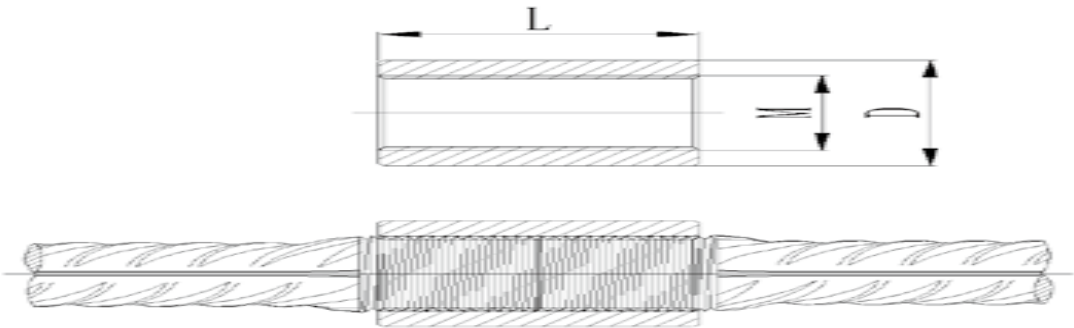
Environmentally-friendly; Cost-saving; Economic.



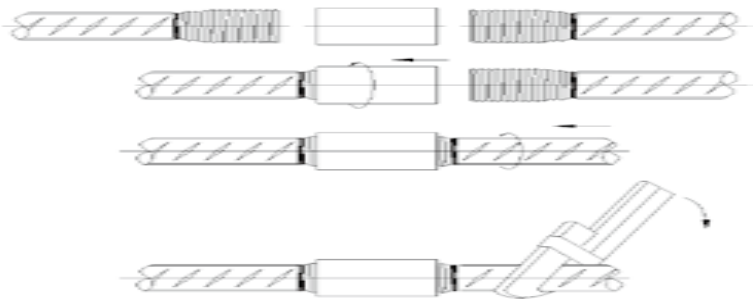
### 3. Specifications

#### 1.Standard Splice

Suitable for condition where rebar can move and rotate freely, and can move axially.



#### Installation Process



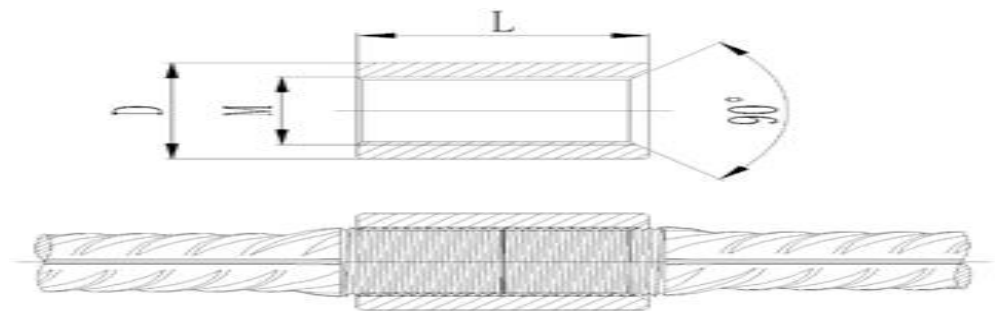
- 1. Thread two standard rebar thread ends.
- 2. Connect coupler with one rebar thread end.
- 3. Connect coupler with antoher rebar thread end.
- 4. Screw tightly by wrech. The torque should comply with JGJ107.

#### Coupler Specifiations ( Suitable for 500MPa Rebar )

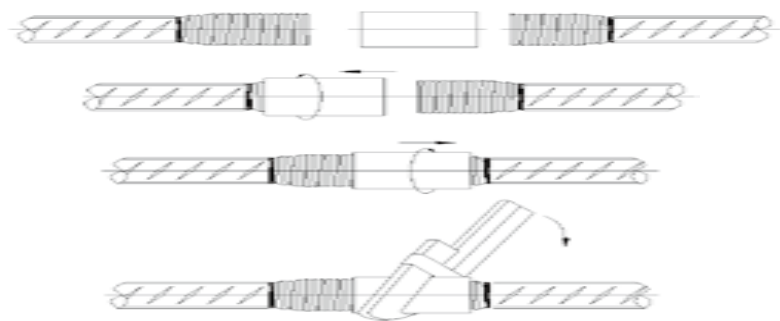
Rebar Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weigth (kg)
16	M18×2.0	26.5	32	0.08
18	M22×2.5	30	36	0.11
20	M24×2.5	33	40	0.15
22	M25×2.5	36	44	0.20
25	M29×3.0	41	50	0.30
28	M32×3.0	45.5	56	0.40
32	M36×3.0	51.5	64	0.59
36	M40.3×3.5	57.5	72	0.83
40	M45.3×3.5	64	80	1.11

## 2.Splice With One Slope End

Suitable for condition where rebar is difficult to connect, such as rebar cage connecting.



### Installation Process



- 1. Thread one standard thread end and one lengthened thread end.
- 2. Connect coupler with one lengthened thread end rebar.
- 3. Connect coupler with one standard thread end rebar by reversely rotating the coupler.
- 4. Screw tightly by wrench. The torque should comply with JGJ107.

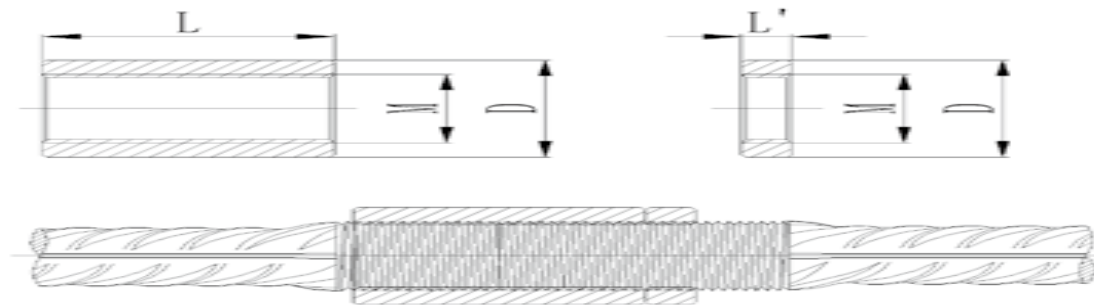
### Coupler Specifications ( Suitable for 500MPa Rebar )

Rebar Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weigth (kg)
16	M18×2.0	26.5	36	0.09
18	M22×2.5	30	41	0.12
20	M24×2.5	33	45	0.16
22	M25×2.5	36	49	0.22
25	M29×3.0	41	56	0.32
28	M32×3.0	45.5	62	0.44
32	M36×3.0	51.5	70	0.63
36	M40.3×3.5	57.5	79	0.88
40	M45.3×3.5	64	87	1.18

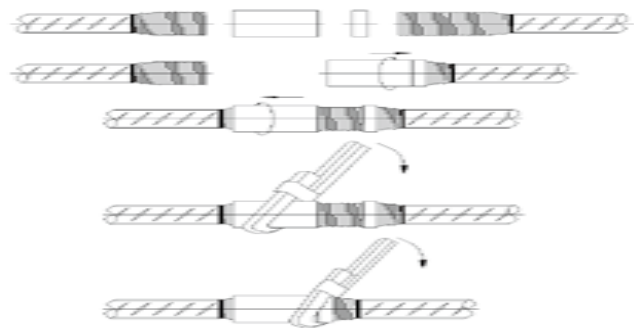


### 3.Splice with Lock Nut

Suitable for condition where rebar is difficult to rotate but can move axially. Coupler is locked by lock nut.



#### Installation Process



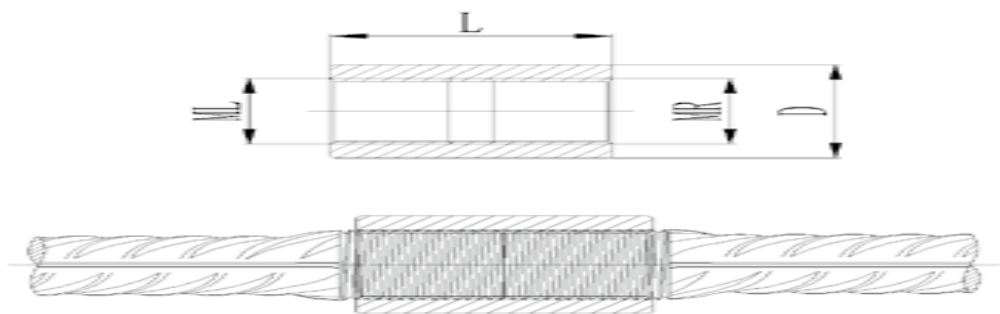
1. Thread one standard thread end and one lengthened thread end.
2. Connect coupler with one lengthened thread end rebar, lock nut is on the inner side.
3. Connect coupler with one standard thread end rebar by reversely rotating the coupler.
4. Screw tightly by wrech. The torque should comply with JGJ107.
5. Screw tightly the lock nut with the coupler. The torque should comply with JGJ107.

#### Coupler Specifiations ( Suitable for 500MPa Rebar )

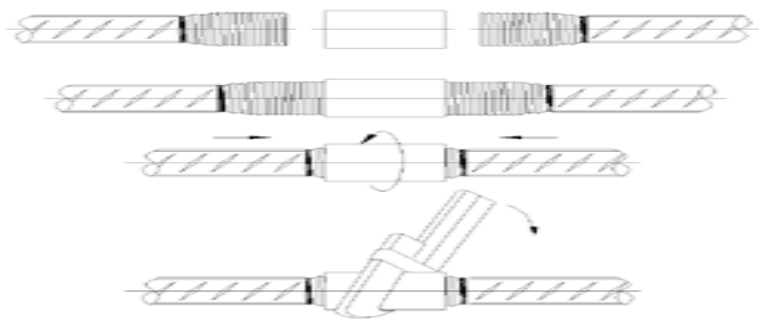
Rebar Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weight (kg)	Nut O.D. (mm)	Nut Length (mm)/L	Nut Weight (kg)
16	M18×2.0	26.5	36	0.09	26.5	8	0.02
18	M22×2.5	30	41	0.12	30	10	0.03
20	M24×2.5	33	45	0.16	33	10	0.04
22	M25×2.5	36	49	0.22	36	10	0.05
25	M29×3.0	41	56	0.32	41	12	0.07
28	M32×3.0	45.5	62	0.44	45.5	12	0.09
32	M36×3.0	51.5	70	0.64	51.5	12	0.11
36	M40.3×3.5	57.5	79	0.90	57.5	14	0.16
40	M45.3×3.5	64	87	1.20	64	14	0.19

## 4.Splice with Left & Right Hand Thread

Suitable for condition where rebar is difficult to rotate but can move axially.



### Installation Process



1. Thread one left hand thread and one right hand thread end.
2. Position the coupler with two rebars together.
3. Rotate coupler to connect two rebars together.
4. Screw tightly by wrench. The torque should comply with JGJ107.

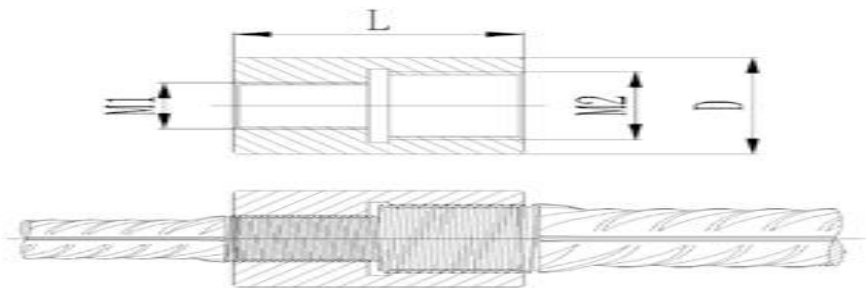
### Coupler Specifiations ( Suitable for 500MPa Rebar )

Rebar Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weight (kg)
16	M18×2.0	26.5	32	0.08
18	M22×2.5	30	36	0.11
20	M24×2.5	33	40	0.15
22	M25×2.5	36	44	0.20
25	M29×3.0	41	50	0.29
28	M32×3.0	45.5	56	0.40
32	M36×3.0	51.5	64	0.59
36	M40.3×3.5	57.5	72	0.83
40	M45.3×3.5	64	80	1.11

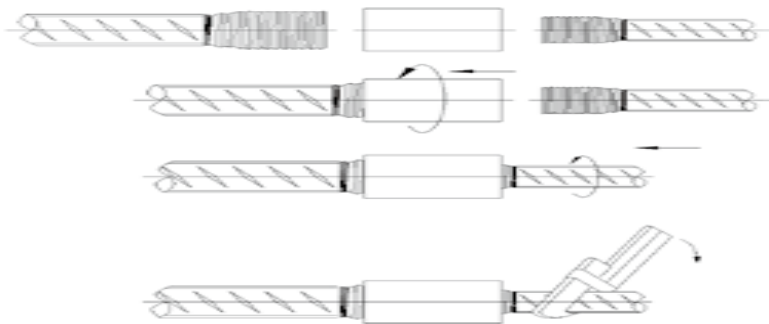


## 5.Splice with Different Bar Diameter

Suitable for connecting two different diameter rebars.



### Installation Process



- 1. Thread two standard thread ends.
- 2. Connect coupler with one standard thread end rebar with larger size.
- 3. Connect coupler with another standard thread end rebar with smaller size.
- 4. Screw tightly by wrech. The torque should comply with JGJ107.

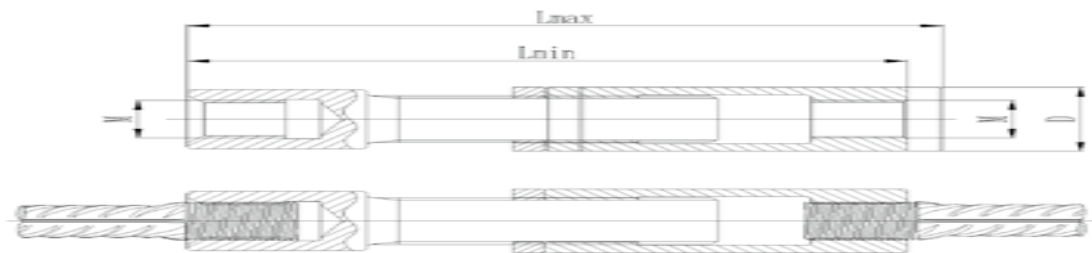
### Coupler Specifiations ( Suitable for 500MPa Rebar )

Rebar Diameter (mm)	Threads (mm) M1/M2	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weight (kg)
16/18	M18×2.0/M22×2.5	28.9	34	0.10
18/20	M22×2.5/M24×2.5	32.5	38	0.14
20/22	M24×2.5/M25×2.5	34.5	42	0.17
22/25	M25×2.5/M29×3.0	38.7	47	0.25
25/28	M29×3.0/M32×3.0	43.5	53	0.35
28/32	M32×3.0/M36×3.0	48.5	60	0.49
32/36	M36×3.0/M40.3×3.5	58.5	68	0.89
36/40	M40.3×3.5/M45.3×3.5	63.5	76	1.11

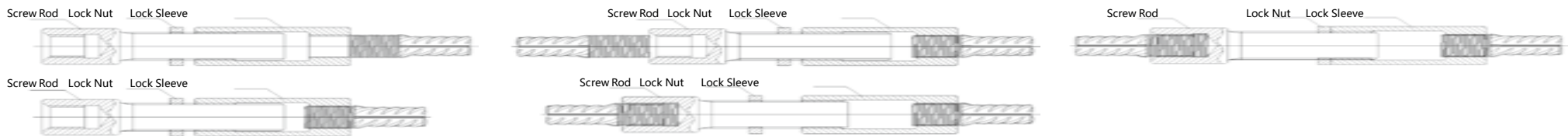
Remarks: Check design data for other size of coupler

## 6.Adjustable Coupler

Suitable for condition where rebar is difficult to rotate but can move axially, and there is space between two rebar ends.



### Installation Process



1. Thread two standard thread ends.
2. Connect lock sleeve with one standard thread end rebar. The torque should comply with JGJ107.
3. Connect another standard thread end rebar by reversely rotating the Screw Rod. The torque should comply with JGJ107.
4. Screw tightly by wrench. The torque should comply with JGJ107.

### Coupler Specifications ( Suitable for 500MPa Rebar )

Rebar Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Total Length (mm)/L	Adjustable Length (mm)	Coupler Weight (kg)
16	M18×2.0	32	132~137	5	0.56
18	M22×2.5	35	140~145	5	0.70
20	M24×2.5	39	153~158	5	0.93
22	M25×2.5	43	168~173	5	1.29
25	M29×3.0	48.5	187~192	5	1.72
28	M32×3.0	54	206~211	5	2.45
32	M36×3.0	62	233~238	5	3.57
36	M40.3×3.5	68.5	258~263	5	4.94
40	M45.3×3.5	78.5	281~286	5	7.02





Sys. **B**

# Parallel Thread Rolling System

• *Most popular and wide-accepted technology in China*

# Sys. B Parallel Thread Rolling System

## Machine of Rolling SYS B



Rolling after Stripping Rib Machine








Why Rolling System B can achieve bar break?



# Sys. B

## Parallel Thread Rebar Splice with Rolling End

### 1. Process

1	Rebar Cutting		
2	Rebar Rib Stripping		
3	Rebar End Rolling		
4	Rebar Coupler Connecting		

### 2. Product Advantages

#### Safe & Reliable

High strength coupler; Achieve 100% ultimate tensile and yield strength of rebar; Comply with the requirements of Chinese JGJ107, American standard ACI318 ACI349, British standard BS8110, French standard NF35-20-1, German standard DIN1045, ISO 15835 and other relevant standards.

#### Simple & Efficient

Easy to operate and maintain; High efficient production and fast installation; Produce 300-500 thread ends per batch of production.

#### Widely Applicable

Different types of couplers for different construction situations.

#### Widely Adaptable

Adaptable for different weather conditions

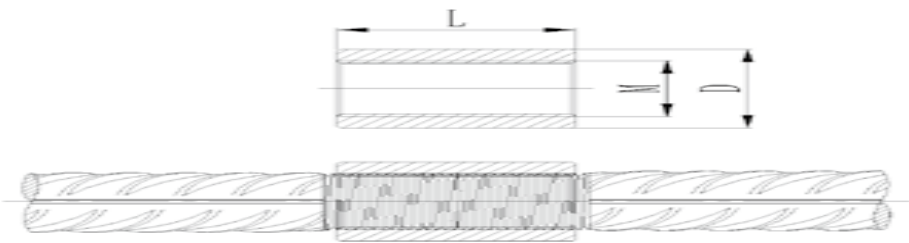
#### Energy-Saving

Environmentally-friendly, Cost-saving, Economic.

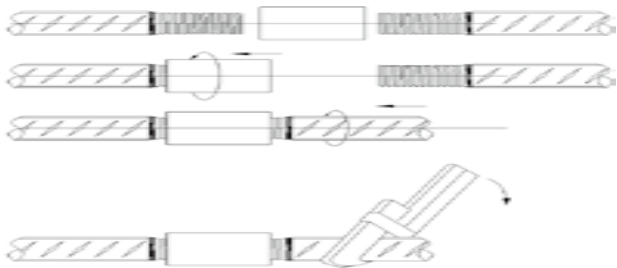
### 3. Specifications

#### 1.Standard Coupler

Suitable for condition where rebar can rotate freely, and can move axially.



#### Installation Process



- 1. Thread two standard rebar Thread ends.
- 2. Connect coupler with one rebar thread end.
- 3. Connect coupler with antoher rebar thread end.
- 4. Screw tightly by wrech. The torque should comply with JGJ107.

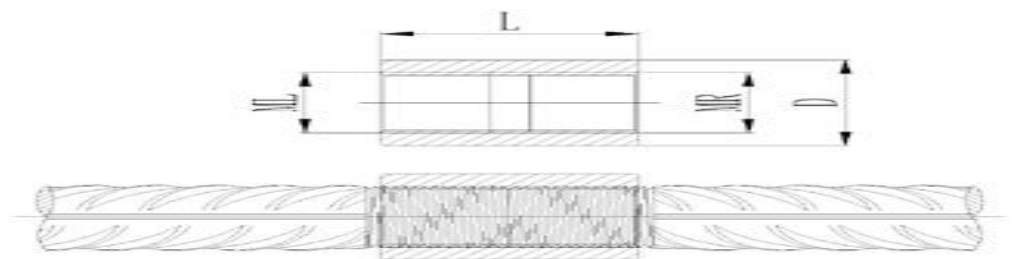
#### Coupler Specficiations ( Suitable for 500MPa Rebar )

Coupler Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weight (kg)
14	M14.55×2.0	22.5	36	0.07
16	M16.55×2.0	25.5	40	0.10
18	M18.60×2.5	28.5	46	0.15
20	M20.60×2.5	31.5	50	0.20
22	M22.60×2.5	34.5	54	0.25
25	M25.65×3.0	39.5	62	0.38
28	M28.65×3.0	44.0	68	0.51
32	M32.65×3.0	50.5	76	0.75
36	M36.65×3.0	56.5	84	1.03
40	M40.65×3.0	62.5	92	1.37
50	M50.65×3.0	78.0	112	2.56

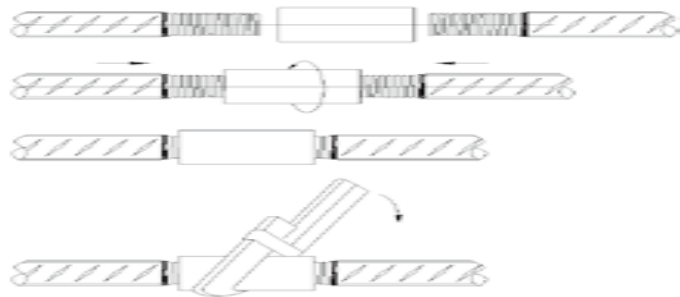


## 2.Splice with Left & Right Hand Thread

Suitable for condition where rebar is difficult to rotate but can move axially.



### Installation Process



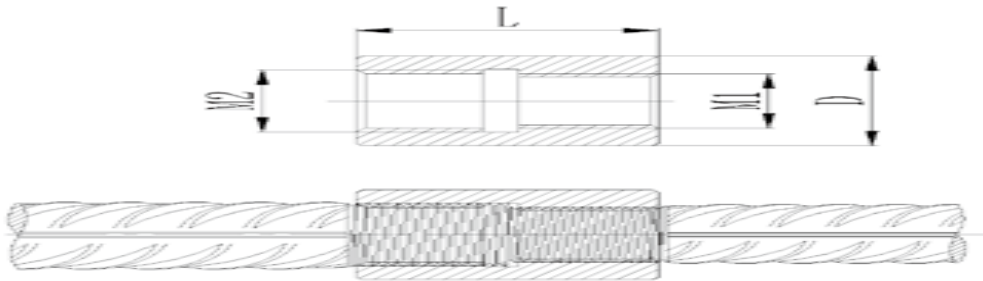
1. Thread one left hand thread and one right hand thread end.
2. Position the coupler with two rebars together.
3. Rotate coupler to connect two rebars together.
4. Screw tightly by wrench. The torque should comply with JGJ107.

### Coupler Specficiations ( Suitable for 500MPa Rebar )

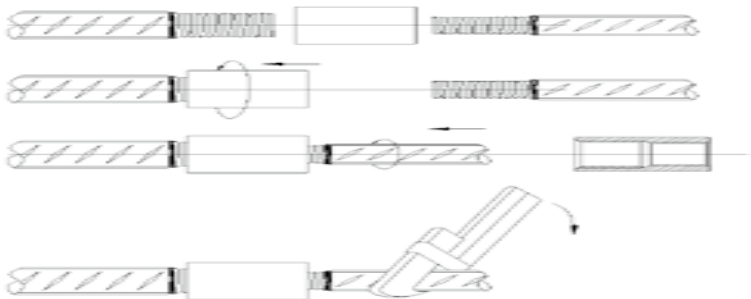
Coupler Diameter (mm)	Threads (mm)/M	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weight (kg)
14	M14.55×2.0	22.5	36	0.07
16	M16.55×2.0	25.5	40	0.10
18	M18.60×2.5	28.5	46	0.15
20	M20.60×2.5	31.5	50	0.20
22	M22.60×2.5	34.5	54	0.25
25	M25.65×3.0	39.5	62	0.39
28	M28.65×3.0	44.0	68	0.51
32	M32.65×3.0	50.5	76	0.75
36	M36.65×3.0	56.5	84	1.03
40	M40.65×3.0	62.5	92	1.37
50	M50.65×3.0	78.0	112	2.56

### 3.Splice with Different Bar Diameter

Suitable for connecting two different diameter rebars.



#### Installation Process



- 1. Thread two standard thread ends.
- 2. Connect coupler with one standard thread end of larger size.
- 3. Connect coupler with another standard thread end of smaller size.
- 4. Screw tightly by wrech. The torque should comply with JGJ107.

#### Coupler Specficiations ( Suitable for 500MPa Rebar )

Rebar Diameter (mm)	Threads (mm) M1/M2	O.D. (mm)/D	Coupler Length (mm)/L	Coupler Weight (kg)
16/18	M16.55×2.0/M18.60×2.5	26.5	43	0.12
18/20	M18.60×2.5/M20.60×2.5	30.5	48	0.18
20/22	M20.60×2.5/M22.60×2.5	32.5	52	0.21
22/25	M22.60×2.5/M25.65×3.0	36.5	58	0.30
25/28	M25.65×3.0/M28.65×3.0	40.6	65	0.40
28/32	M28.65×3.0/M32.65×3.0	46.5	72	0.59
32/36	M32.65×3.0/M36.65×3.0	53.5	80	0.88
36/40	M36.65×3.0/M40.65×3.0	58.5	88	1.12

Remarks: Check design data for other coupler size

# Patents and Certificates



- Business License
- ISO 9001 (Quality Management System)
- 22 National Patents (2013)



# CABR Coupler Test Result & Certificates

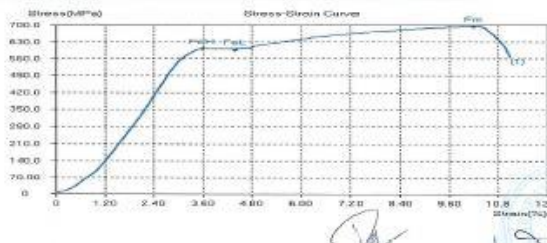


Report No.: R/MEC/RBC1903/00275

Date: 08 Mar 2019  
page 2 of 2

Sample Reference	Coupler Bar
	T25
Client's Reference	-
Nominal size (mm)	T 25
Nominal cross-section area, $S_n$ (mm <sup>2</sup> )	462
Ultimate load, P (kN)	321.2
Tensile Strength of the coupled bar (N/mm <sup>2</sup> )	695
Position of fracture	Rebar slipped from the coupler

Criteria	Tensile Strength of the couple bar (N/mm <sup>2</sup> )
Grade 250	BS 8110: Part 1: 1997
Grade 500A	Should exceed 287.5
Grade 500B	Should exceed 525
Grade 500C	Should exceed 540



Witnessed by \_\_\_\_\_

Witnessed by \_\_\_\_\_

Kaung Htet Paing  
Tested by

Sok Sreytouch  
Checked by

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No. 39, Kan Street, (10) Ward, Hlaing Township, Yangon, Myanmar.  
T: (95) 242 466 1965, (95) 976 102 4139 | Email: cast.yangon@castlab.com.mm | www.castlab.com.sg/tnm/ | VAT No. ANAka / 1374  
Head Office: CAST Laboratories Pte Ltd (Singapore)  
17 Tuen Ave 8, Singapore 630202 T: (65) 6801 6004 | Email: castlab.com.sg | www.castlab.com.sg | Co. Reg. No. 198100652N

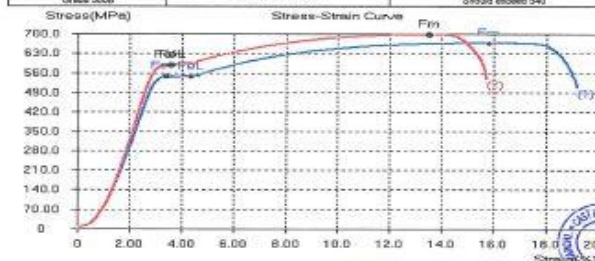


Report No.: R/MEC/RBC1906/00668

Date: 19 Jun 2019  
page 2 of 2

Sample Reference	Coupler Bar	
	T25	T25
Client's Reference	AS	AS
Nominal size (mm)	T 25	T 25
Nominal cross-section area, $S_n$ (mm <sup>2</sup> )	462.00	462.00
Yield Point Load (kN)	285.00	299.35
Yield Strength (N/mm <sup>2</sup> )	540	589
Ultimate load, P (kN)	328.8	342.8
Tensile Strength of the coupled bar (N/mm <sup>2</sup> )	668	698
Position of fracture	Fractured on the bar	Fractured on the bar

Criteria	Tensile Strength of the couple bar (N/mm <sup>2</sup> )
Grade 250	BS 8110: Part 1: 1997
Grade 500A	Should exceed 287.5
Grade 500B	Should exceed 525
Grade 500C	Should exceed 540



Witnessed by \_\_\_\_\_

Yin Wei Mon  
Witnessed by

Yin Liat  
Tested by

Sok Sreytouch  
Checked by

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No. 39, Kan Street, (10) Ward, Hlaing Township, Yangon, Myanmar.  
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**ATOM COMPANY LIMITED.**  
Strength of Materials Engineering Laboratory Service

Company Name : First Fortune International Co., Ltd  
Project : ( For Office )  
Method of Test : (ISO-6892) J.I.S Z-2241.  
Specimen Type : Coupler Thread Joint  
Nominal Diameter : 32 mm

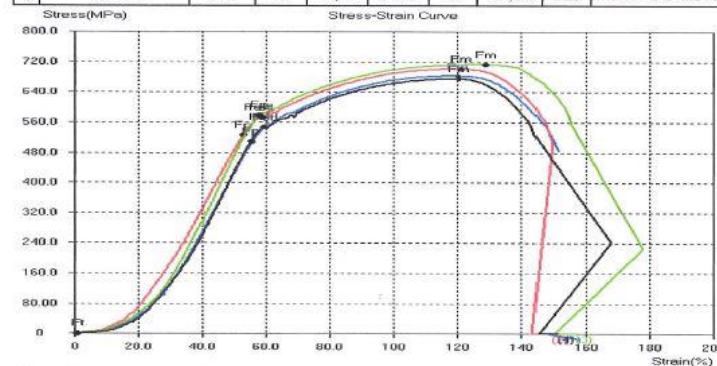
Sample Received No  
Sample Received Date  
Result Issue Date  
Steel Bars Detail



: 08-Jun-19  
: 08-Jun-19  
: ( JINDAL )

## " TENSILE TEST CERTIFICATE "

Sr No	Accuracy Diameter (mm)	Yield Load (kN)	Yield Strength (MPa)	Tensile Load (kN)	Tensile Strength (MPa)	Ratio Rm/Re	Remark
1	31.6 mm	436.0	556	536.5	684	1.23	Broken Deformed Bar
2	31.6 mm	449.4	573	551	703	1.23	Broken Deformed Bar
3	31.6 mm	445.5	568	560	714	1.26	Broken Deformed Bar
4	31.6 mm	429.4	548	530.5	676	1.23	Broken Deformed Bar



( Remarks : This certificate is issued only for the receipt of the tests sample. )

Tested Performed By

Lab Consultant By

Approved By

Kyaw Soe Naing  
Assistant Lab Technician  
ATOM Company Limited.

U Thet Naing  
(Consultant)  
PE (Construction) ACPE  
Strength of Materials Engineering Laboratory  
ATOM Co., Ltd.

U Ye Htay (Retd Y.T.U)  
Engineering Chief Technician  
Strength of Materials Engineering Laboratory  
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No-71, 4th Floor (A), MarLar Myaing (6) street, 16 Quarter, Hlaing Township, Yangon.

Tel - +959 931291133, +959 73220896, +959 975800293.

E-mail - atom.lab1414@gmail.com

# Mill Certificate Coupler

**建研科技股份有限公司**  
CABR TECHNOLOGY CO., LTD.  
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TEL: 8610-84187492  
www.hbr-cabr.com

ISO9001  
Approved  
Company  
POSTAL CODE: 100013  
FAX: 8610-84187468  
E-mail: info@hbr-cabr.com

## Inspection Report for Rebar Coupler

No. of Report: IRCB-19-033						Report Date: 2019-03-11					
Name of Product		Coupler for Rebar Splice with Rolled Thread End				No. of Batch		19103			
Type	Standard	Spec.	25mm	Quantity for Inspection	4000 pieces	Inspection Date					
Inspection Basis: Drawing of Coupler, ISO 9001 Files of CABR Technology Co., Ltd.											
Item		Unit	Pass Standard	Checking Result	Conclusion	Remark					
Appearance	Rust on Surface	-	No	No	Pass	10% Random Sampling					
	Retrospective Mark	-	Clear	Clear	Pass	10% Random Sampling					
Size	Outer Dia. of Coupler	mm	38.5±0.5	38.8±0.8	Pass	10% Random Sampling					
	Length of Coupler	mm	56.0±0.5	56.8±0.8	Pass	10% Random Sampling					
	Minimum Dia. of Thread	mm	22.60±0.20	22.69±0.28	Pass	10% Random Sampling					
	Middle Dia. of Thread	mm	23.70±0.27	23.78±0.27	Pass	10% Random Sampling					

Inspector:   
CABR TECHNOLOGY CO., LTD.

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E-mail: info@hbr-cabr.com

## Inspection Report for Rebar Coupler


No. of Report: IRCB-19-034						Report Date: 2019-03-11					
Name of Product		Coupler for Rebar Splice with Rolled Thread End				No. of Batch		19102			
Type	Standard	Spec.	32mm	Quantity for Inspection	5000 pieces	Inspection Date					
Inspection Basis: Drawing of Coupler, ISO 9001 Files of CABR Technology Co., Ltd.											
Item		Unit	Pass Standard	Checking Result	Conclusion	Remark					
Appearance	Rust on Surface	-	No	No	Pass	10% Random Sampling					
	Retrospective Mark	-	Clear	Clear	Pass	10% Random Sampling					
Size	Outer Dia. of Coupler	mm	48.5±0.5	48.6±0.8	Pass	10% Random Sampling					
	Length of Coupler	mm	70.0±0.5	70.8±0.8	Pass	10% Random Sampling					
	Minimum Dia. of Thread	mm	28.60±0.20	28.69±0.30	Pass	10% Random Sampling					
	Middle Dia. of Thread	mm	30.70±0.27	30.78±0.27	Pass	10% Random Sampling					

Inspector:   
CABR TECHNOLOGY CO., LTD.


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## Coupler of CABR Parallel Thread Certificate

Product Name		Coupler for Rebar Splice with Rolled Thread End									
Specification and Type of Product		Standard Type For 25 mm Rebar Dia.				No. of Batch					
Quantity		4000 Pieces				19103					
Date of Producing		2019-03-11				Inspector					
											
Mechanics Performance and Chemical Ingredient											
Mechanic Performance:				Chemical Ingredient							
Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	C	Si	Mn	P	S	Cr	Ni	Cu		
685	21.5	0.46	0.21	0.35	0.017	0.010	0.04	0.02	0.02		
NOTE: 1. Data comes from material quality list of steel company (DIO: JH19032706685); 2. The couplers of CABR parallel threaded rebar splice with Rolled Thread end are designed and manufactured in accordance with quality management system of ISO9001.											

## Coupler of CABR Parallel Thread Certificate


Product Name		Coupler for Rebar Splice with Rolled Thread End							
Specification and Type of Product		Standard Type For 32 mm Rebar Dia.				No. of Batch			
Quantity		5000 Pieces				19102			
Date of Producing		2019-03-11				Inspector: 			

Mechanics Performance and Chemical Ingredient											
Mechanic Performance:				Chemical Ingredient							
Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	C	Si	Mn	P	S	Cr	Ni	Cu		
690	22	0.44	0.21	0.34	0.013	0.006	0.04	0.03	0.02		
NOTE: 1. Data comes from material quality list of steel company (DIO: JH19030501194); 2. The couplers of CABR parallel threaded rebar splice with Rolled Thread end are designed and manufactured in accordance with quality management system of ISO9001.											

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Approved  
Company  
POSTAL CODE: 100013  
FAX: 8610-84187468  
E-mail: info@hbr-cabr.com

## Coupler of CABR Parallel Thread Certificate

Product Name		Coupler for Rebar Splice with Rolled Thread End									
Specification and Type of Product		Standard Type For 28 mm Rebar Dia.				No. of Batch					
Quantity		1600 Pieces				19109					
Date of Producing		2018-04-03				Inspector 					
Mechanics Performance and Chemical Ingredient											
Mechanics Performance				Chemical Ingredient							
Tensile Strength (N/mm <sup>2</sup> )	Elongation (%)	C	Si	Mn	P	S	Cr	Ni	Cu		
694	17	0.44	0.24	0.56	0.016	0.008	-	-	-		
NOTE: 1. Data comes from material quality list of steel company (NO. 000000563); 2. The coupler of CABR parallel threaded rebar splice with Rolled Thread end are designed and manufactured in accordance with quality management system of ISO9001.											

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ISO9001  
Approved  
Company  
POSTAL CODE: 100013  
FAX: 8610-84187468  
E-mail: info@hbr-cabr.com

## Inspection Report for Rebar Coupler

No. of Report: IRCB-18-021						Report Date: 2018-04-03					
Name of Product		Coupler for Rebar Splice with Welding End				No. of Batch		18105			
Type	Standard	Spec.	28mm	Quantity for Inspection	600 pieces	Inspection Date					
Inspection Basis: Drawing of Coupler, ISO 9001 Files of CABR Technology Co., Ltd.											
Item		Unit	Pass Standard	Checking Result	Conclusion	Remark					
Appearance	Rust on Surface	-	No	No	Pass	10% Random Sampling					
	Retrospective Mark	-	Clear	Clear	Pass	10% Random Sampling					
Size	Outer Dia. of Coupler	mm	43.0±0.5	41.0±0.8	Pass	10% Random Sampling					
	Length of Coupler	mm	55.0±0.5	56.0±0.8	Pass	10% Random Sampling					
	Minimum Dia. of Thread	mm	25.60±0.30	25.69±0.30	Pass	10% Random Sampling					
	Middle Dia. of Thread	mm	26.70±0.27	26.78±0.27	Pass	10% Random Sampling					

Inspector:   
CABR TECHNOLOGY CO., LTD.

- Inspection Report of Rebar Coupler
- Mill Certificate of Rebar Coupler



# CABR Coupler Test Procedures



Before Test



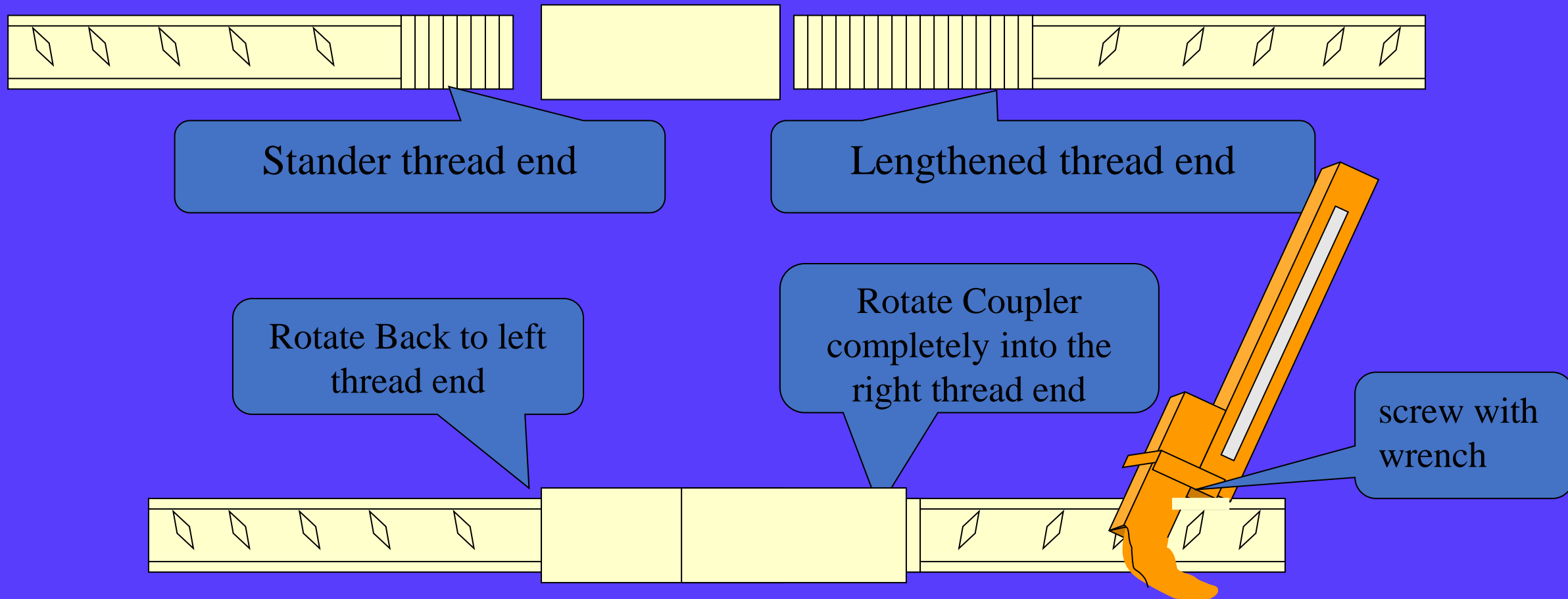
After Test





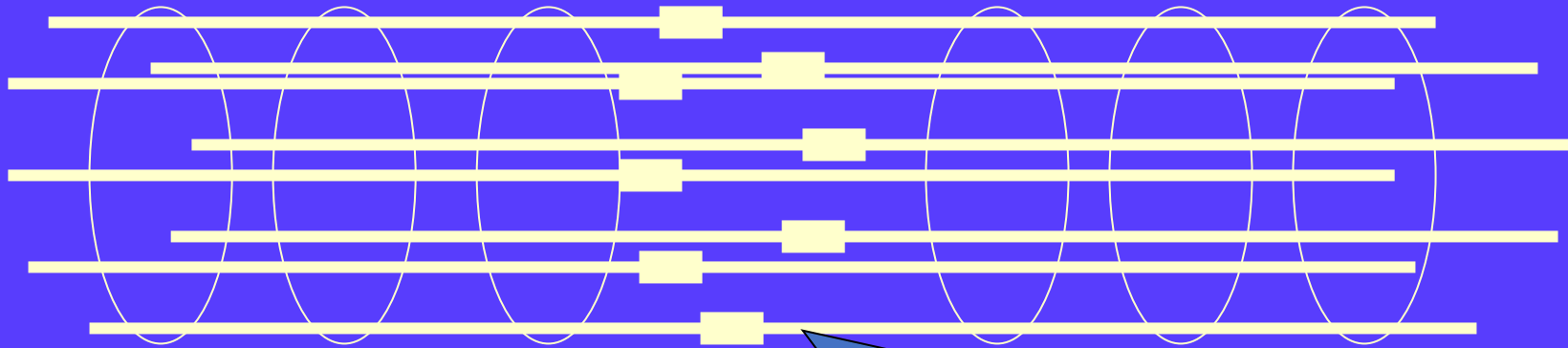
# Rebar Splice for Rebar Cage

- **Splice with Lengthened Thread End + Splice with One Slope End**



# Rebar Splice for Rebar Cage

**Step 1: Prefabricating the rebar cage and Connecting rebar cages on ground**

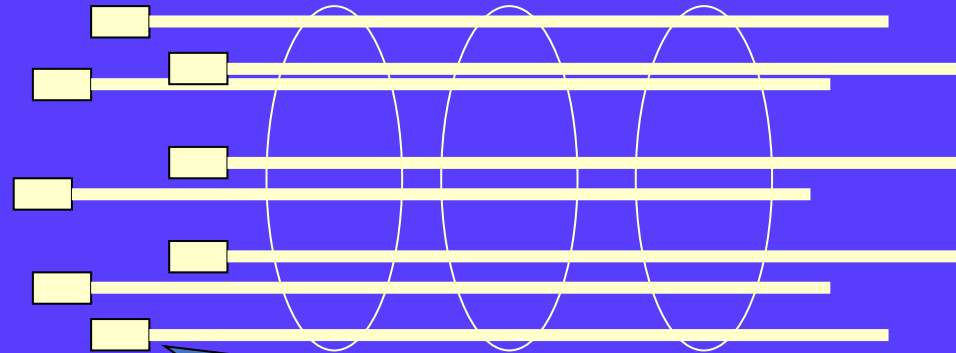
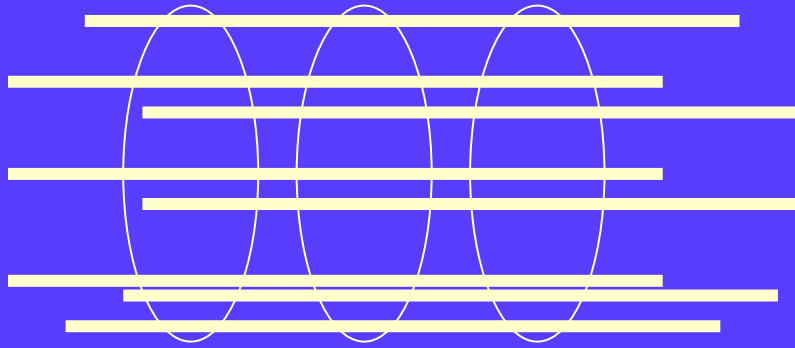


Pre-fabricated rebar Cage on ground



# Rebar Splice for Rebar Cage

## Step 2: Make the marks and Releasing the connections



Rotate Coupler completely into the right thread end, release the rebar cage





# Rebar Splice for Rebar Cage

Step 3: Lifting the rebar cage into the pile hole

Step 4: Lifting another rebar cage for connecting

Insert the Support

Lifting the second cage

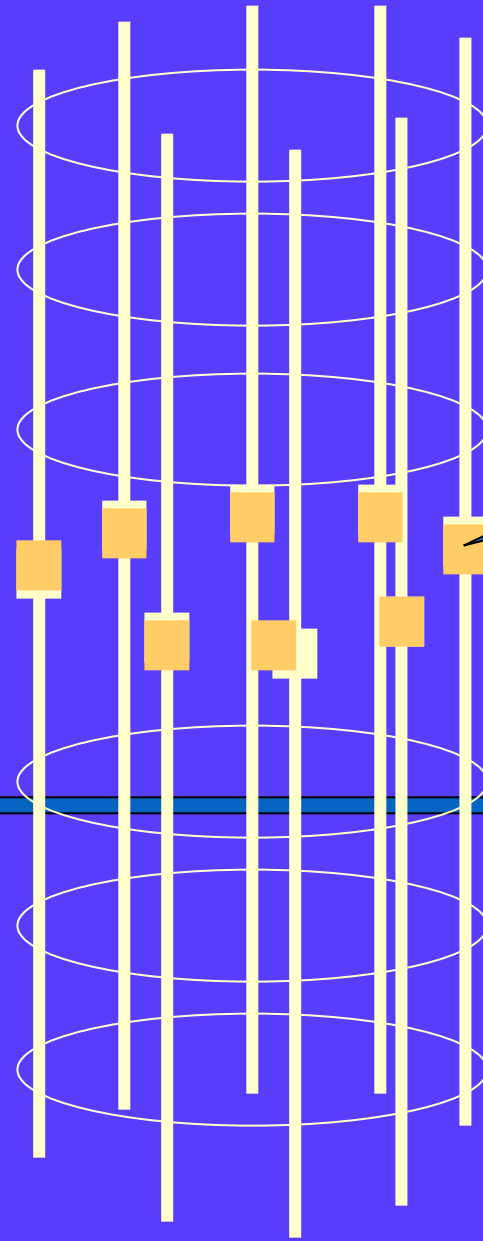
Put the first cage down

floor



# Rebar Splice for Rebar Cage

**Step 5: Rotating the coupler back to another to connecting the rebar cages**



Rotate the couplers back, the connection of rebar cage is completed





## 4.SMT - Mingalar Market Project



- ❖ Cut and bend service 1500MT
- ❖ Supply of rebar 2800MT



## 1.Inno City Project



- ❖ Supply Coupler / Threading Service (12,000pcs / 11,000pcs)
- ❖ Cut and bend service (2,500MT)
- ❖ Supply of rebar (1,000MT)

## 3.Shwe Zabu Deik – Pan Swal Taw Condominium



- ❖ Cut and bend service 1500MT
- ❖ Supply of rebar 2,130MT



## 5.KST – PTTEPI Project



- ❖ Cut and bend service (400MT)
- ❖ Coupler and Threading Service (4385pcs)
- ❖ Supply of rebar (800MT)



## **6.Soilbuild – Rose Hill Project**



❖ Supply of rebar 1200MT

## 7.Dawn Construction – Osotspa Jupiter Project

**OSOTSPA**

Area: 30.000 sq.m

Location: Thilawa, Myanmar



**BMB & A J/S Company**

Head Quarters : 148 Phan Xich Long St, Phu Nhuan Ward, HCMC, Viet Nam –  
Tel : (+84 8) 3517 2509

Operation Office : Vietnam , Thailand, – Myanmar, – Cambodia, – Philippines, – Indonesia , Middle East Agency

**BMB.**  
Best Metal Buildings  
[www.bmbsteel.com.vn](http://www.bmbsteel.com.vn)

❖ Supply of rebar 1,400MT

## 8. Myanmar Seilone Construction –Myat Wadi Residence Project



- Supply of rebar 800MT



## 9. Golden Gate (Patheingyi Parliament Project)



❖ Supply of rebar 900MT

## 2.ItalThai (Makro Hyper Market Project)



PROJECT : YANGON MAKRO

Bird Eye View 1

Exterior Perspective Present

15 Burornachonnanee Soi 2,Bangkok,Bangkok 10700  
Tel: 0-2433-0888 Fax: 0-2433-0880  
Email : processgroup@gmail.com  
www.processgroup.com

PROCESS GROUP

PROCESS ARCHITECT & PLANNER CO.,LTD.  
PROCESS INTERIOR PLANNER CO.,LTD.



PROJECT : YANGON MAKRO

Bird Eye View 2

Exterior Perspective Present

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www.processgroup.com

PROCESS GROUP

PROCESS ARCHITECT & PLANNER CO.,LTD.  
PROCESS INTERIOR PLANNER CO.,LTD.



- ❖ Cut and bend service 800MT
- ❖ Supply of rebar 1,000MT



# Factory Location

