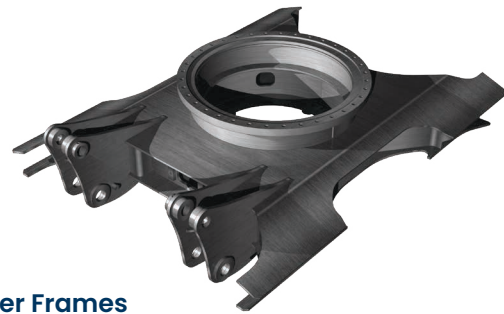


WOOKUANG
WOOKUANG Industries

WOOKUANG
Product Catalogue, August 2021

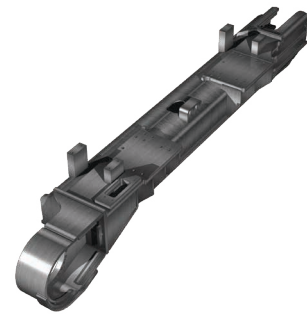
Current Products

1. EXCAVATOR COMPONENTS



Lower Center Frames

- Number of variations: 23 types
- Models: 100/ 75/ 60/ 50/ 48/ 38/ 34/ 30/ 26/ 23/ 22/ 20/ 18/ 15/ 14 tons
- Number of production: 11,101 Units per year (2020)
- Production Location: Factory 1/ 2/ 3



Side Frames

- Number of variations: 28 types
- Models: 100/ 60/ 50/ 48/ 42/ 38/ 34/ 30/ 25/ 22/ 20/ 18/ 15/ 14 tons
- Number of production: 13,862 Units per year (2020)
- Production Location: Factory 1/ 2/ 3



Outrigger Frames

- Number of variations: 4 types
- Applying Models: 21/ 19/ 14 tons
- Number of production: 1,231 Units per year (2020)
- Production Location: Factory 3



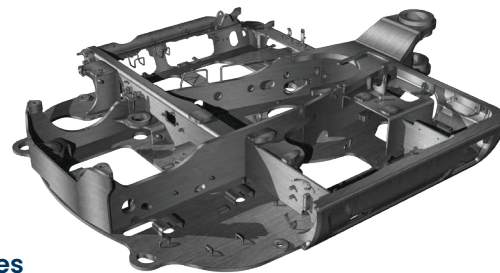
Arms

- Number of variations: 6 types
- Applying Models: 26/ 22/ 21/ 15/ 11 tons
- Number of production: 2,324 Units per year (2020)
- Production Location: KTC Factory



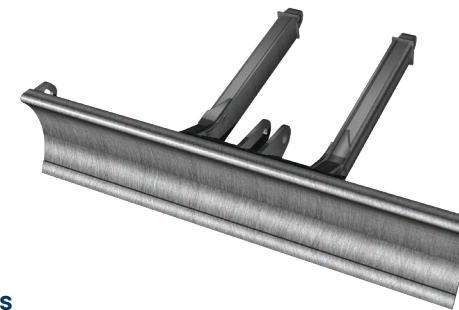
Track Frames

- Number of variations: 7 types
- Models: 50/ 38/ 7/ 6/ 3.5/ 3 tons
- Number of production: 6,576 Units per year (2020)
- Production Location: KTC Factory



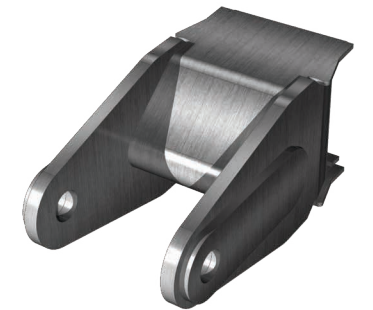
Main Frames

- Number of variations: 10 types
- Models: 13.5/ 12.5/ 7/ 6.5/ 6/ 5/ 3.5 tons
- Number of production: 5,815 Units per year (2020)
- Production Location: KTC Factory



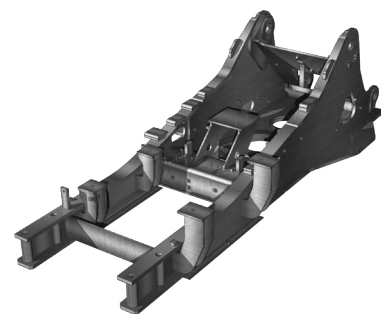
Dozer Blades

- Number of variations: 2 types
- Applying Models: 7 tons (2.3/ 2.2 m)
- Number of production: 1,324 Units per year (2020)
- Production Location: KTC Factory



Boom Top

- Number of variations: 1 type
- Applying Models: 7 tons
- Number of production: 2,000 Units per year (2020)
- Production Location: KTC Factory



Middle Frames

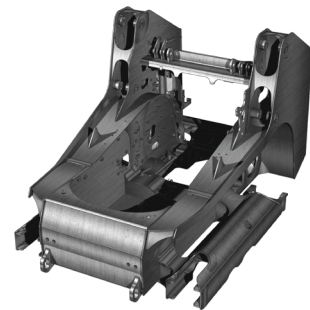
- Number of variations: 4 types
- Models: 50/ 48/ 42/ 38/ 34/ 22 tons
- Number of production: 3,314 Units per year (2020)
- Production Location: Factory 1/ 2/ 3



Chassis Frames

- Number of variations: 15 types
- Applying Models: 21/ 19/ 17/ 16/ 15/ 14/ 7/ 6 tons
- Number of production: 4,942 Units per year (2020)
- Production Location: Factory 3/ KTC

2. LOADER & DOZER COMPONENTS



Main Frames

- Number of variations: 1 type
- Applying Models: 3 ton Track loaders
- Number of production: 199 Units per year (2020)
- Production Location: KTC Factory



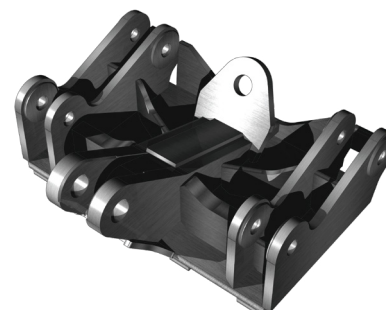
Arms

- Number of variations: 1 type
- Applying Models: 3 ton Track loaders
- Number of production: 199 Units per year (2020)
- Production Location: KTC Factory



Brackets

- Number of variations: 1 type
- Applying Models: 3 ton Track loaders
- Number of production: 199 Units per year (2020)
- Production Location: KTC Factory



Supporters

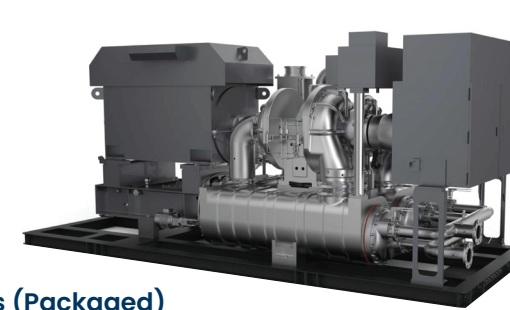
- Number of variations: 1 type
- Applying Models: D65 Bulldozers
- Number of production: 27 Units per year (2020)
- Production Location: KTC Factory



Links

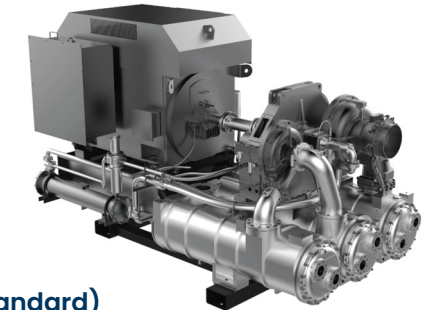
- Number of variations: 1 type
- Applying Models: D65 Bulldozers
- Number of production: 989 Units per year (2020)
- Production Location: KTC Factory

3. TURBO COMPRESSORS



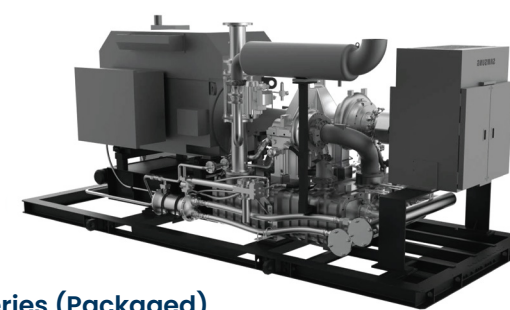
SM Series (Packaged)

- Number of variations: 1 types
- Models: 7000
- Number of production: -
- Production Location: Factory 2



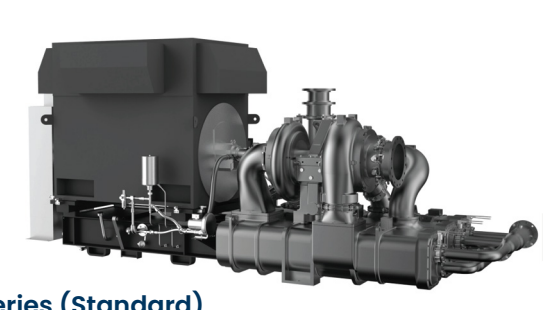
SM Series (Standard)

- Number of variations: 4 types
- Models: 3000/ 4000/ 5000/ 6000
- Number of production: 117 Units per year (2020)
- Production Location: Factory 2



SM100 Series (Packaged)

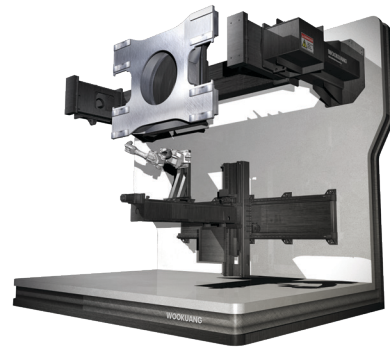
- Number of variations: 1 types
- Models: 7100
- Number of production: -
- Production Location: Factory 2



SM100 Series (Standard)

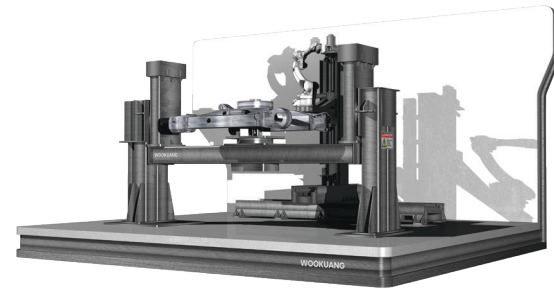
- Number of variations: 5 types
- Models: 2100/ 3100/ 4100/ 5100/ 6100
- Number of production: 34 Units per year (2020)
- Production Location: Factory 2

4. ROBOTIC EQUIPMENT



CFL Welder Type A

- Number of variations: 2 types
- Models: WR-CFW-A/ WR-CFL-B
- Number of production: Self supply
- Production Location: Factory 2



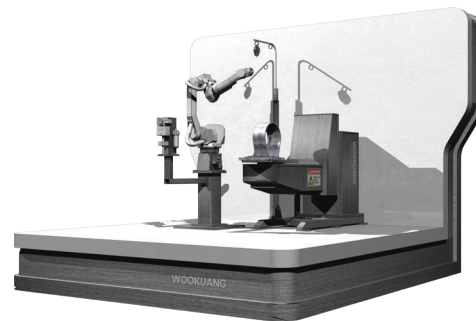
TF Welder Type B

- Number of variations: 2 types
- Models: WR-TFW-A/ WR-TFW-B
- Number of production: Self supply
- Production Location: Factory 2



SF Duo Welder

- Number of variations: 1 type
- Models: WR-SFW
- Number of production: Self supply
- Production Location: Factory 2



SP Welder Type A

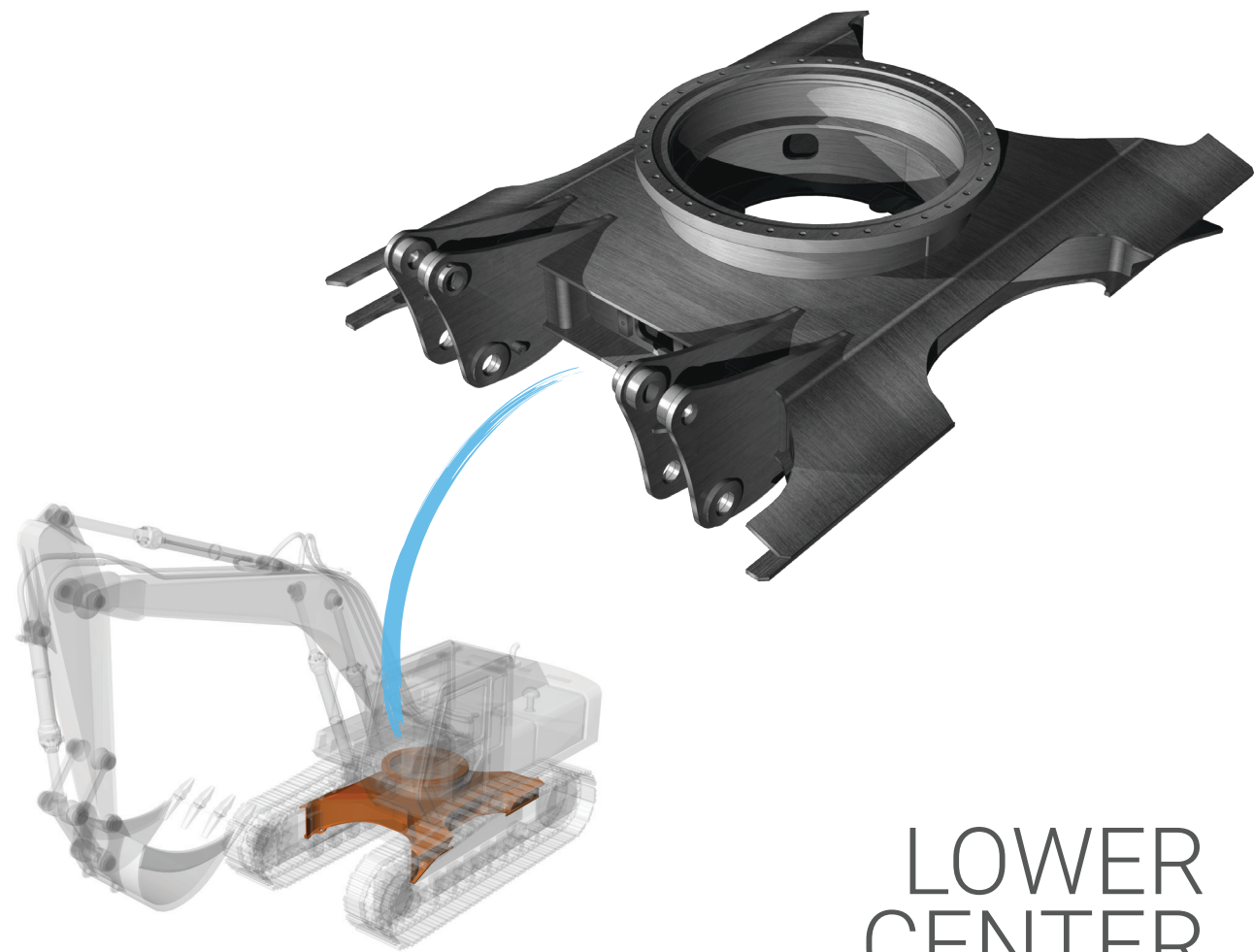
- Number of variations: 2 types
- Models: WR-SPW-A/ WR-SPW-B
- Number of production: Self supply
- Production Location: Factory 2

Previous Products

Products	Country	Company	Items	Period
Cable Tunnel	Singapore	SPPA (Singapore Power Assets)	Repetitive curved steel structure frames supporting the body of tunnel	2016-2018
Industrial Boilers	China	Yantai Hyundai Heavy Industries	Fabricated steel pipes for industrial boiler machines	2013-2016
Shipbuilding	Korea	DSME (Daewoo Shipbuilding & Marine Engineering)	T-bars for commercial vessels	2007-2012
Coal Mining	Australia	Ludowichi	Steel frame parts for industrial coal crushers	2007-2012
Oil Platform	China	Qingdao Tianshi Petroleum Machinery	Base, pump cover & body, gearbox assemblies for offshore oil platform	2007-2012
Train Bolsters	United Kingdom	EWS (England Wales & Scottish Railway)	Beams and frame assemblies for train bolsters	2007

Appendix: Current Products

Excavator Components



LOWER CENTER FRAMES

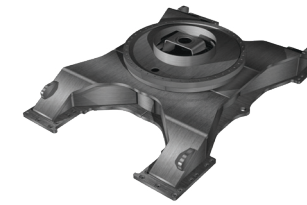
The Lower Center Frame forms the main body framework of track-type excavators and is installed at the bottom of the excavator's body. It is combined with a pair of Side Frames welded on both sides and supports the parts for driving functions and the parts for body-rotary functions. A technique that prevents deformation caused by welding is critical when manufacturing the frames to maximize the dimensional precision on locations where Side Frames and other mechanical parts are attached.



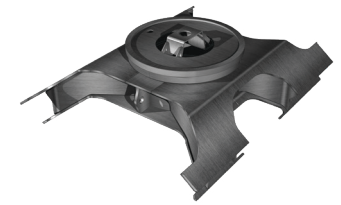
Product #: CFL-F3-160617-1484
Models: 75 ton



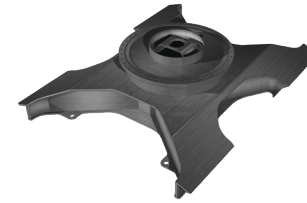
Product #: CFL-F2-160619-1313
Models: 48/ 50 ton



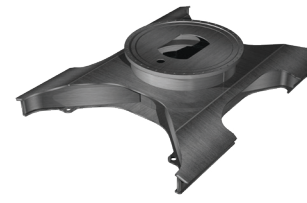
Product #: CFL-F3-160617-1010
Models: 48 ton



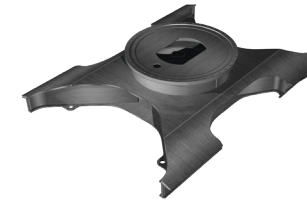
Product #: CFL-F3-160619-1212
Models: 38 ton



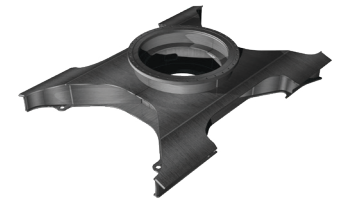
Product #: CFL-F2-160617-1314
Models: 38 ton



Product #: CFL-F3-160619-1088
Models: 34 ton



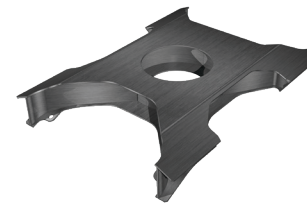
Product #: CFL-F3-160619-1083
Models: 34 ton



Product #: CFL-F1-160619-1380
Models: 30 ton



Product #: CFL-F2-160619-1089
Models: 26 ton



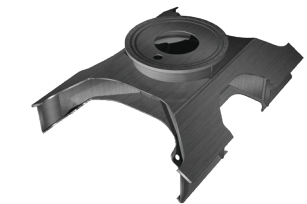
Product #: CFL-F2-160619-1215
Models: 23/ 22 ton



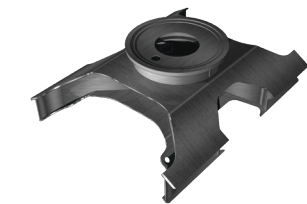
Product #: CFL-F1-160619-1187
Models: 22 ton



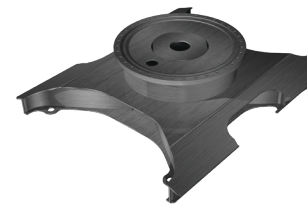
Product #: CFL-F2-160619-1380
Models: 20 ton



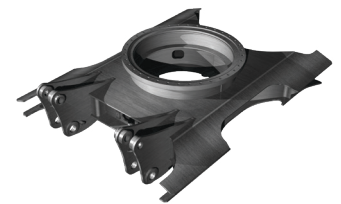
Product #: CFL-F2-160619-1207
Models: 18 ton



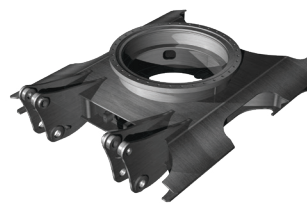
Product #: CFL-F1-160619-1418
Models: 18 ton



Product #: CFL-F2-160619-1367
Models: 14/ 15 tons



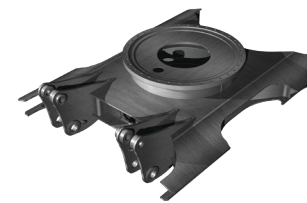
Product #: CFL-F1-160619-1452
Models: 14 ton



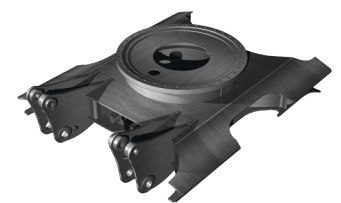
Product #: CFL-F1-160619-1051
Models: 14 ton



Product #: CFL-F1-160619-1318
Models: 14 ton

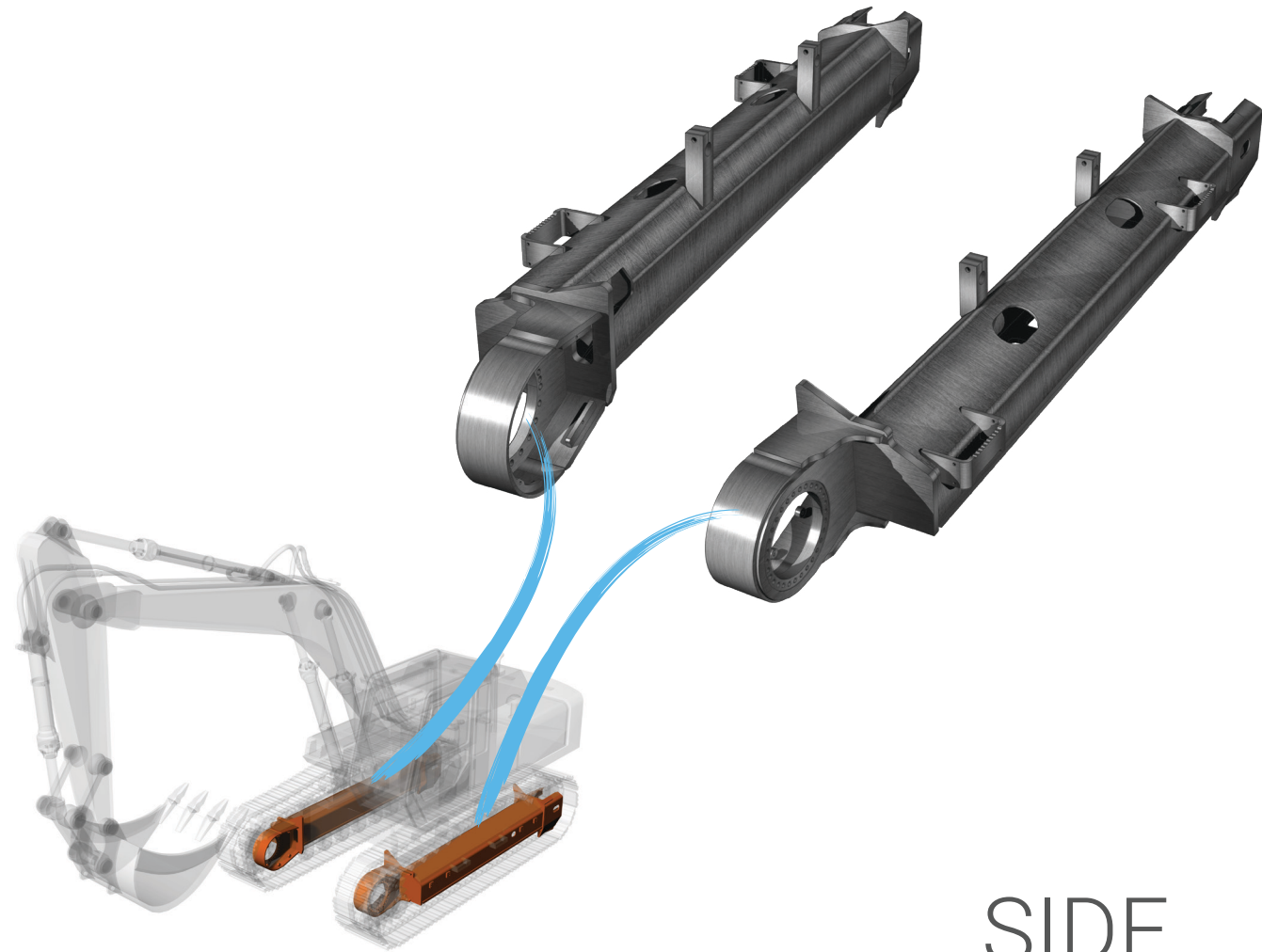


Product #: CFL-F1-9160619-1151
Models: 14 ton



Product #: CFL-F1-160619-1114
Models: 14 ton

Excavator Components

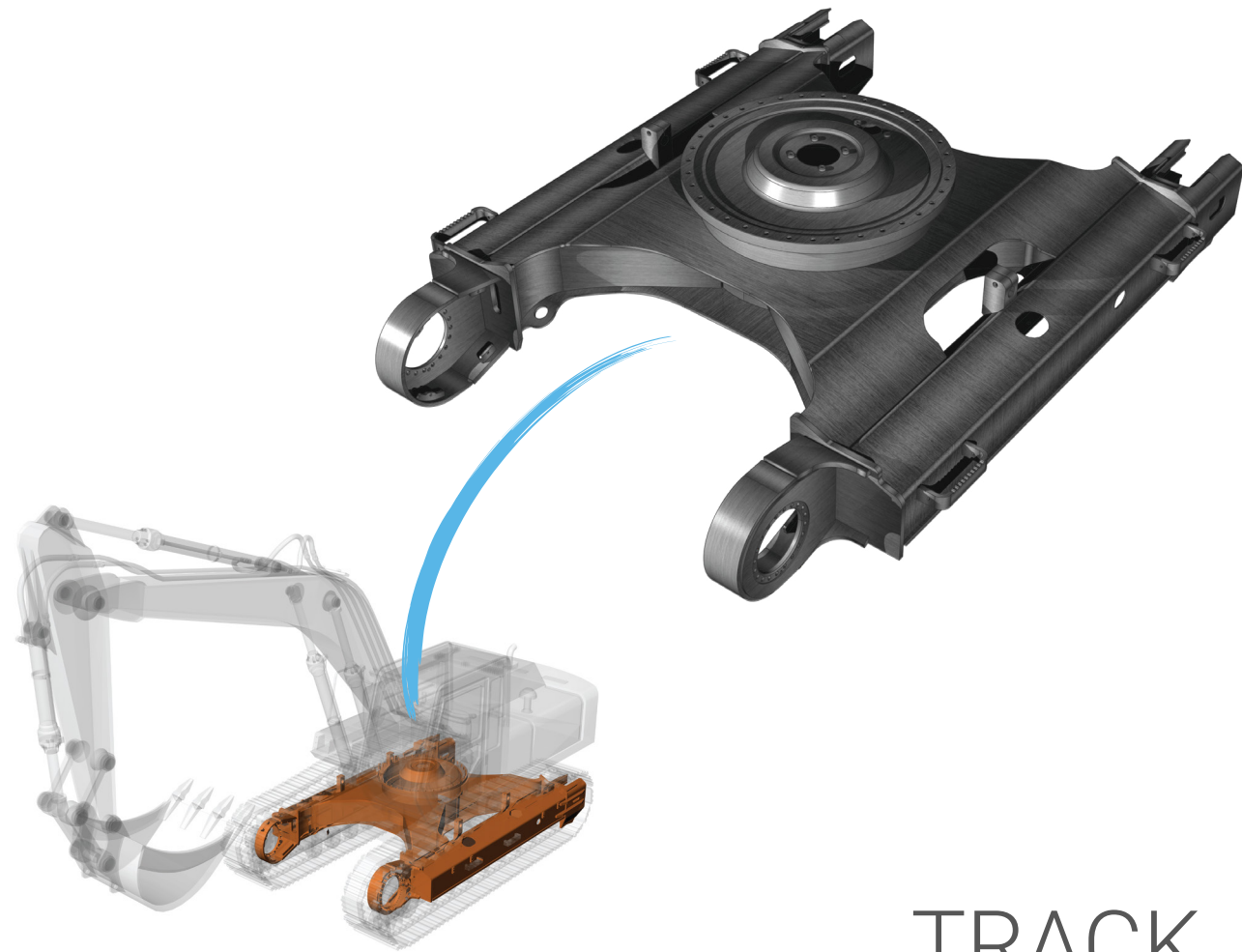


SIDE FRAMES

A pair of Side Frames are welded on each side of a Lower Center Frame to function as structures holding both tracks on the left and right sides. Pre-strain techniques are required upon precise analysis on the amount of deformation by welding when manufacturing these frames.

- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> Product #: SDF-F2-160622-1622 Models: 38 ton | <ul style="list-style-type: none"> Product #: SDF-F3-160622-1628 Models: 34 ton | <ul style="list-style-type: none"> Product #: SDF-F3-160622-1703 Models: 34 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1774 Models: 34 ton |
| <ul style="list-style-type: none"> Product #: SDF-F2-160622-1610 Models: 30 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1737 Models: 30 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1506 Models: 30 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1952 Models: 30 ton |
| <ul style="list-style-type: none"> Product #: SDF-F1-160622-1717 Models: 30 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1780 Models: 25 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1643 Models: 25 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1805 Models: 22 ton |
| <ul style="list-style-type: none"> Product #: SDF-F1-160622-1518 Models: 22 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1954 Models: 22 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1684 Models: 20 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1649 Models: 18 ton |
| <ul style="list-style-type: none"> Product #: SDF-F1-160622-1624 Models: 18 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1990 Models: 18 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1733 Models: 15 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1657 Models: 14 ton |
| <ul style="list-style-type: none"> Product #: SDF-F1-160622-1744 Models: 14 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1812 Models: 14 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1892 Models: 14 ton | <ul style="list-style-type: none"> Product #: SDF-F1-160622-1528 Models: 14 ton |
| <ul style="list-style-type: none"> Product #: SDF-F2-160622-1691 Models: 50 ton | <ul style="list-style-type: none"> Product #: SDF-F3-160622-1666 Models: 42 ton | <ul style="list-style-type: none"> Product #: SDF-F3-160622-1618 Models: 42 ton | <ul style="list-style-type: none"> Product #: SDF-F2-160622-1855 Models: 42 ton |

Excavator Components



TRACK FRAMES

The Track Frame is the result of a Center Frame and Side Frames combined together and it serves as the primary framework of excavator body contributing to driving and rotating functions. Highly precise manufacturing and inspection techniques are required because Track Frames affect to the body balance and driving stability of excavators.



▪ Product #: TRF-FK-05610-2295
▪ Models: 7 ton



▪ Product #: TRF-FK-2496
▪ Models: 7 ton



▪ Product #: TRF-FK-2342
▪ Models: 7 ton



▪ Product #: TRF-FK-05510-2337
▪ Models: 6 ton



▪ Product #: TRF-FK-2028
▪ Models: 6 ton

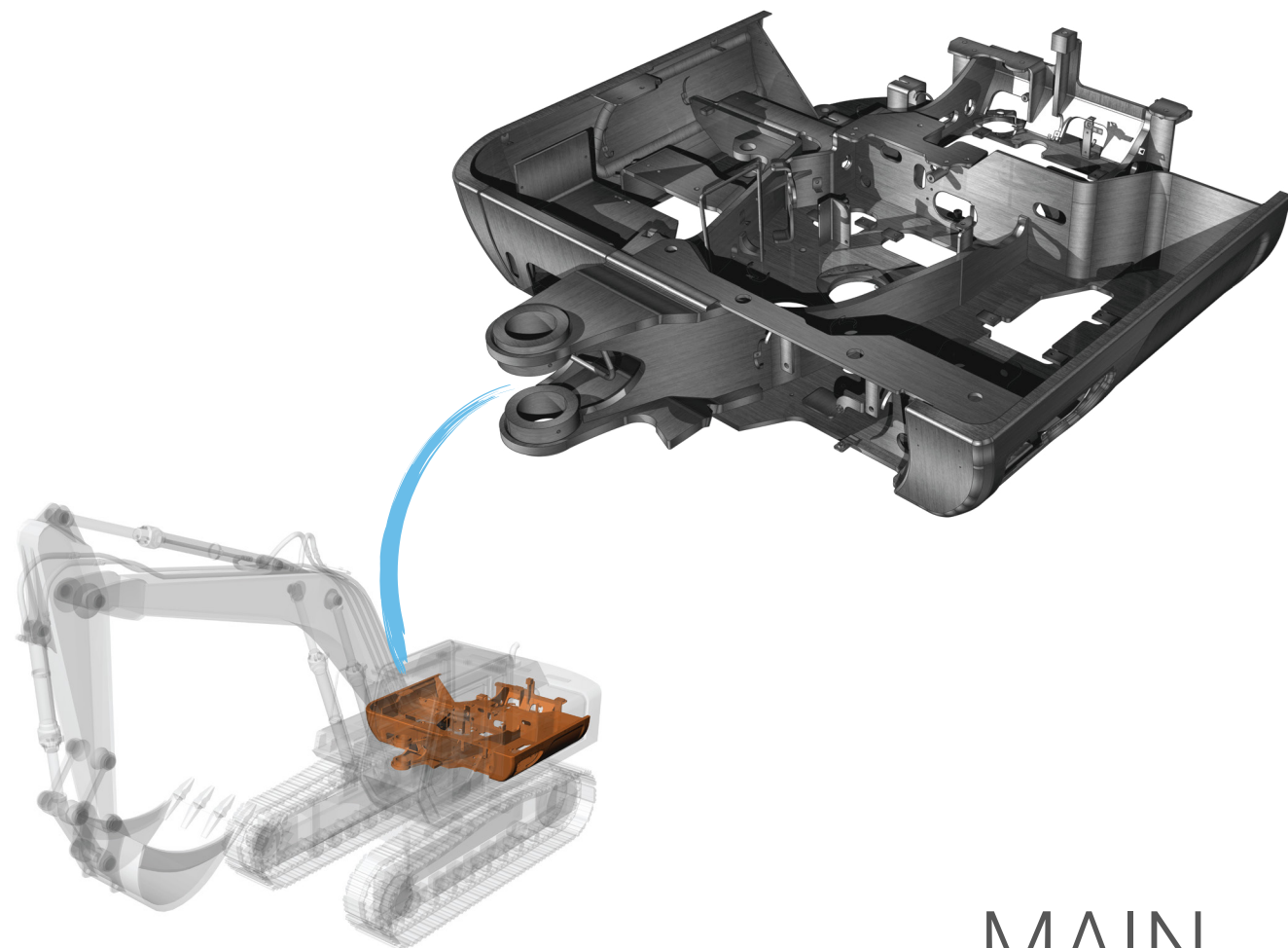


▪ Product #: TRF-FK-2389
▪ Models: 3 ton





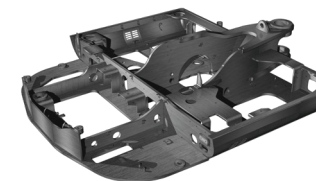

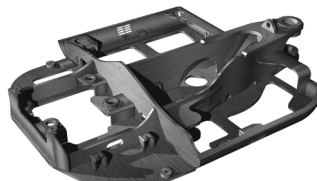

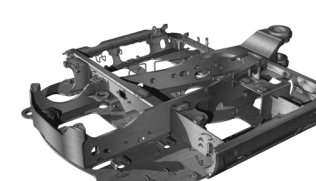
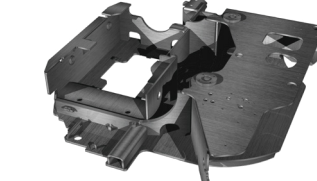
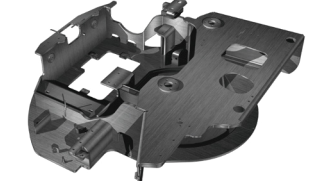
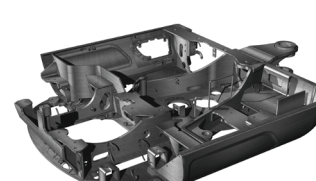
▪ Product #: TRF-FK-03710-2087
▪ Models: 3.5 ton

Excavator Components

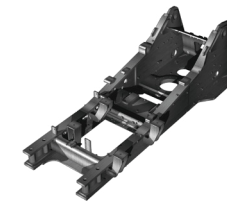


MAIN FRAMES

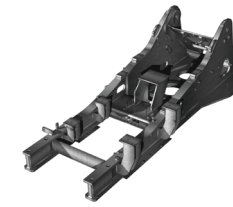
A various types of components are attached to the Main Frame such as a cabin where users of excavators sit and control, an engine which provides power, a boom which performs as a cantilever arm, balance weights that provide stability, etc. Since many critical components are installed on the Main Frame, very precise manufacturing techniques are required to minimize the dimensional tolerances and heat deformations.

- | | | | |
|---|---|--|--|
| 
▪ Product #: MNF-FK-05730-2523
▪ Models: 13.5 ton | 
▪ Product #: MNF-FK-05730-2898
▪ Models: 12.5 ton | 
▪ Product #: MNF-FK-05630-2751
▪ Models: 7 ton | 
▪ Product #: MNF-FK-05630-2897
▪ Models: 7 ton |
| 
▪ Product #: MNF-FK-05630-2635
▪ Models: 7 ton | 
▪ Product #: MNF-FK-160620-2849
▪ Models: 6 ton | 
▪ Product #: MNF-FK-05530-2775
▪ Models: 6.5 ton | 
▪ Product #: MNF-FK-03930-2620
▪ Models: 5 ton |
| 
▪ Product #: MNF-FK-03730-2713
▪ Models: 3.5 ton | 
▪ Product #: MNF-FK-03730-2677
▪ Models: 3.5 ton | | |

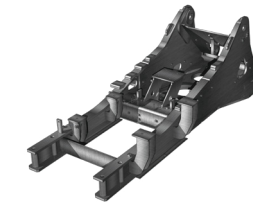
Excavator Components



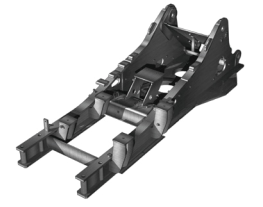
▪ Product #: MDF-F3-160621-3347
▪ Models: 34 ton



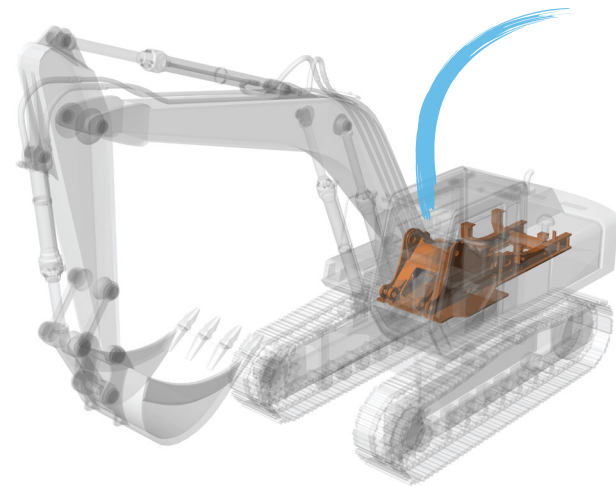
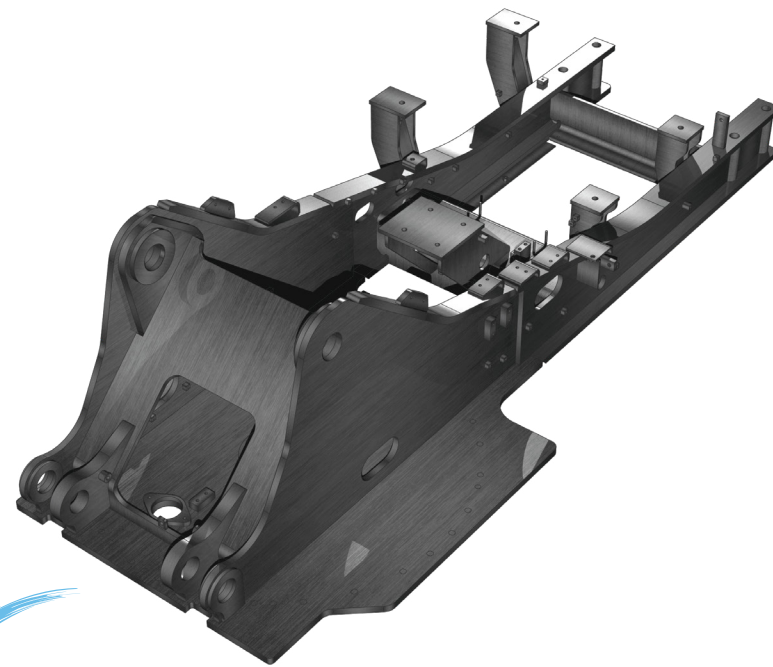
▪ Product #: MDF-F1-160621-3247
▪ Models: 22 ton



▪ Product #: MDF-F1-160621-3152
▪ Models: 22 ton



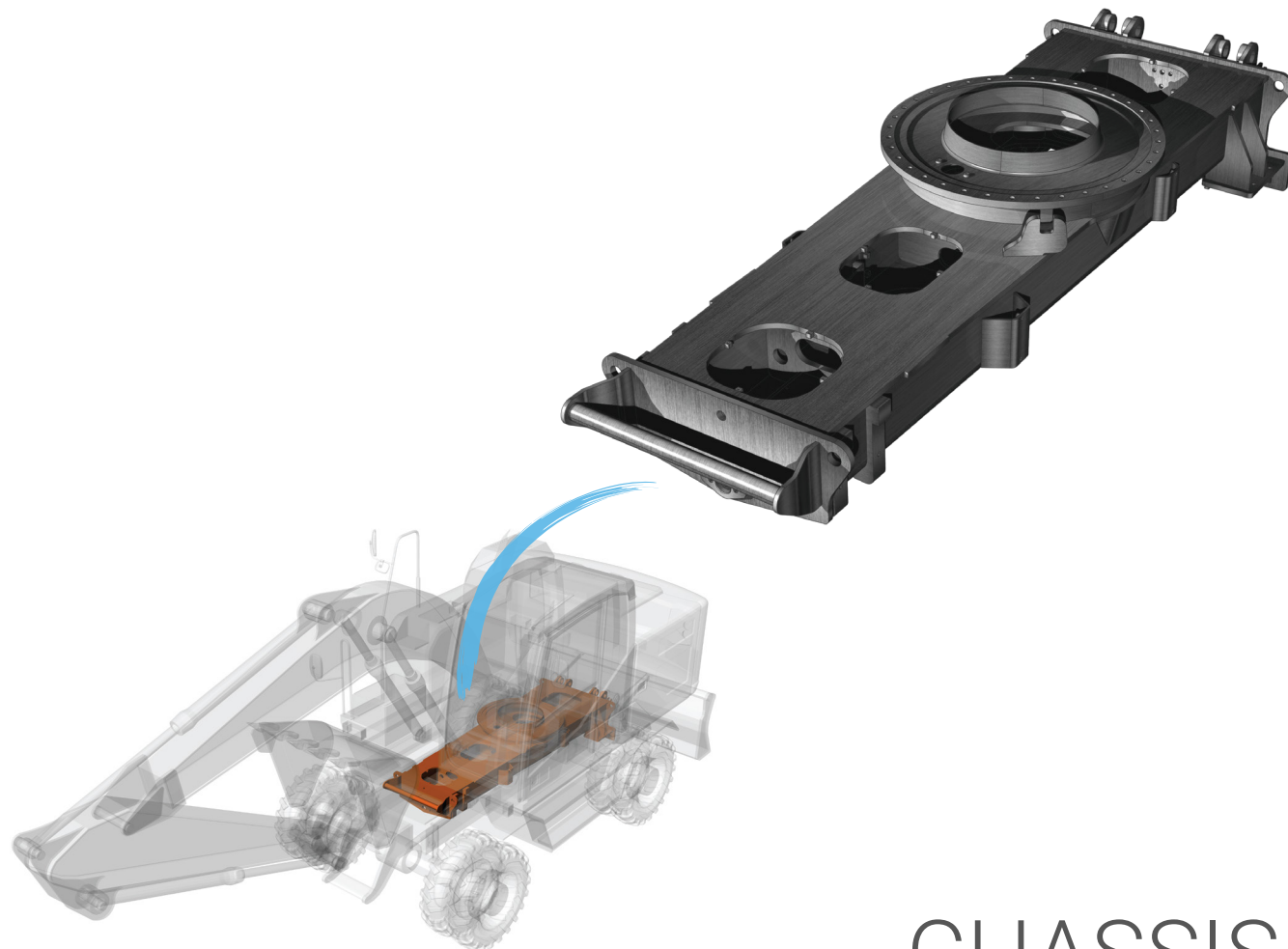
▪ Product #: MDF-F1-160621-3019
▪ Models: 22 ton



MIDDLE FRAMES

The Middle Frame is connected to a Center Frame or Chassis Frame with being attached with many types of components such as a cabin, an engine, balance weights and varied electronics. Since many critical components are installed on the Middle Frame, very precise manufacturing techniques are required to minimize the dimensional tolerances and heat deformations. Also, an extra quality maintenance is mandatory for the front side is being exposed to the outside.

Excavator Components



- | | | | |
|---|---|---|---|
| <ul style="list-style-type: none"> Product #: CHF-F1-160611-3680 Models: 21 ton | <ul style="list-style-type: none"> Product #: CHF-F1-160611-3930 Models: 21 ton | <ul style="list-style-type: none"> Product #: CHF-F1-160611-3866 Models: 19 ton | <ul style="list-style-type: none"> Product #: CHF-F2-160611-3795 Models: 17 ton |
| <ul style="list-style-type: none"> Product #: CHF-F1-160611-3923 Models: 16 ton | <ul style="list-style-type: none"> Product #: CHF-F1-160611-3969 Models: 16 ton | <ul style="list-style-type: none"> Product #: CHF-FK-160611-3527 Models: 15 ton | <ul style="list-style-type: none"> Product #: CHF-F1-160611-3665 Models: 14 ton |
| <ul style="list-style-type: none"> Product #: CHF-F1-160611-3920 Models: 14 ton | <ul style="list-style-type: none"> Product #: CHF-F1-160611-3830 Models: 14 ton | <ul style="list-style-type: none"> Product #: CFL-F1-160611-3902 Models: 14 ton | <ul style="list-style-type: none"> Product #: CHF-F1-160611-3677 Models: 14 ton |
| <ul style="list-style-type: none"> Product #: CHF-F1-160611-3932 Models: 14 ton | <ul style="list-style-type: none"> Product #: CHF-FK-05610-3619 Models: 7 ton | <ul style="list-style-type: none"> Product #: CHF-FK-160611-3967 Models: 6 ton | |

CHASSIS FRAMES

The Chassis Frames are similar to Center Frames on track type excavator but installed on wheel types with a Middle Frame attached on top to form the framework of the lower body. When manufacturing, managing the balance and horizontality are very important because drive axles and tires are attached to this component. Also, high quality welding and delicate fabrications are required for many other options could be installed on.

Excavator Components



▪ Product #: ORF-F1-160624-4041
▪ Models: 21 ton



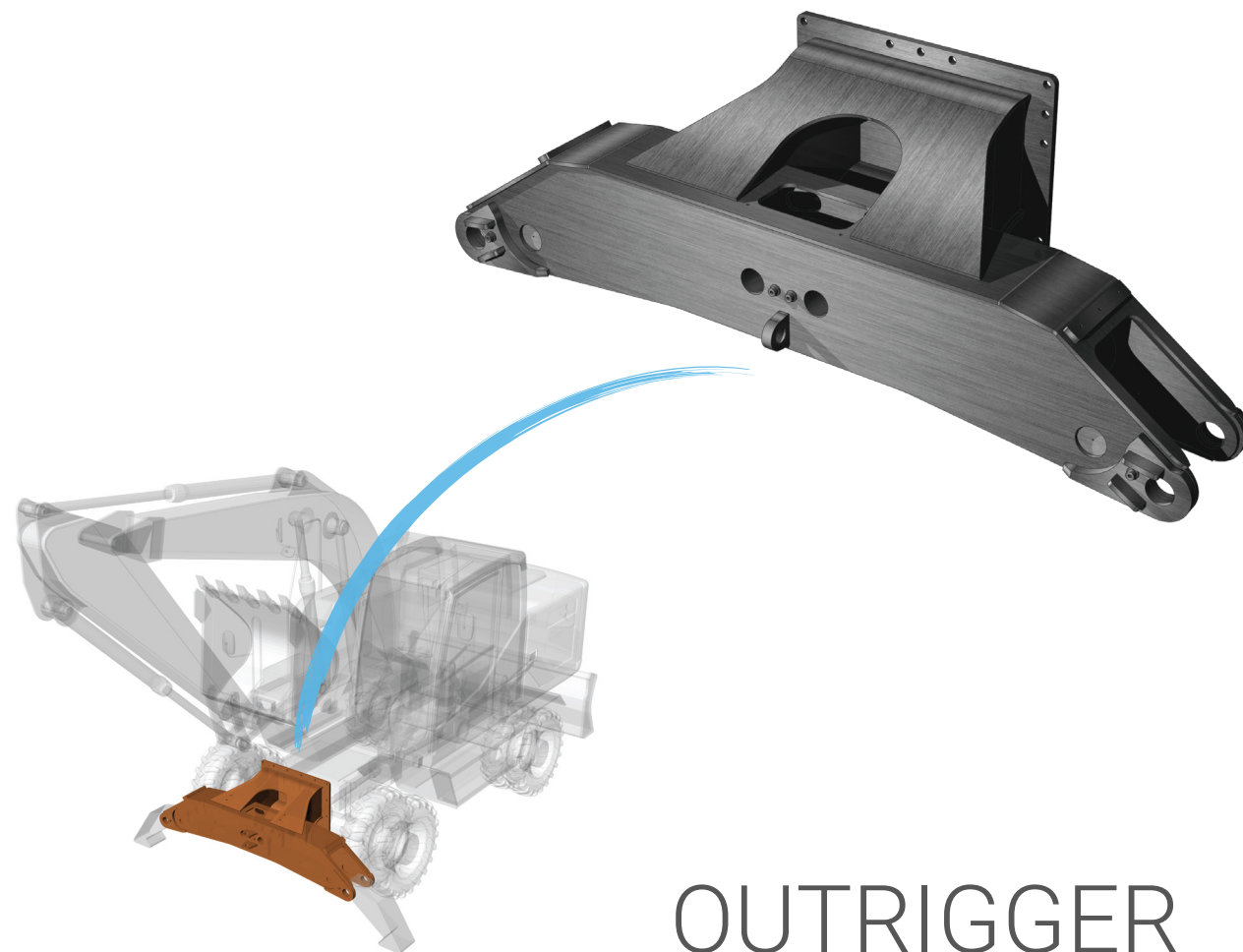
▪ Product #: ORF-F1-160624-4387
▪ Models: 21 ton



▪ Product #: CFL-F1-160624-4254
▪ Models: 19 ton



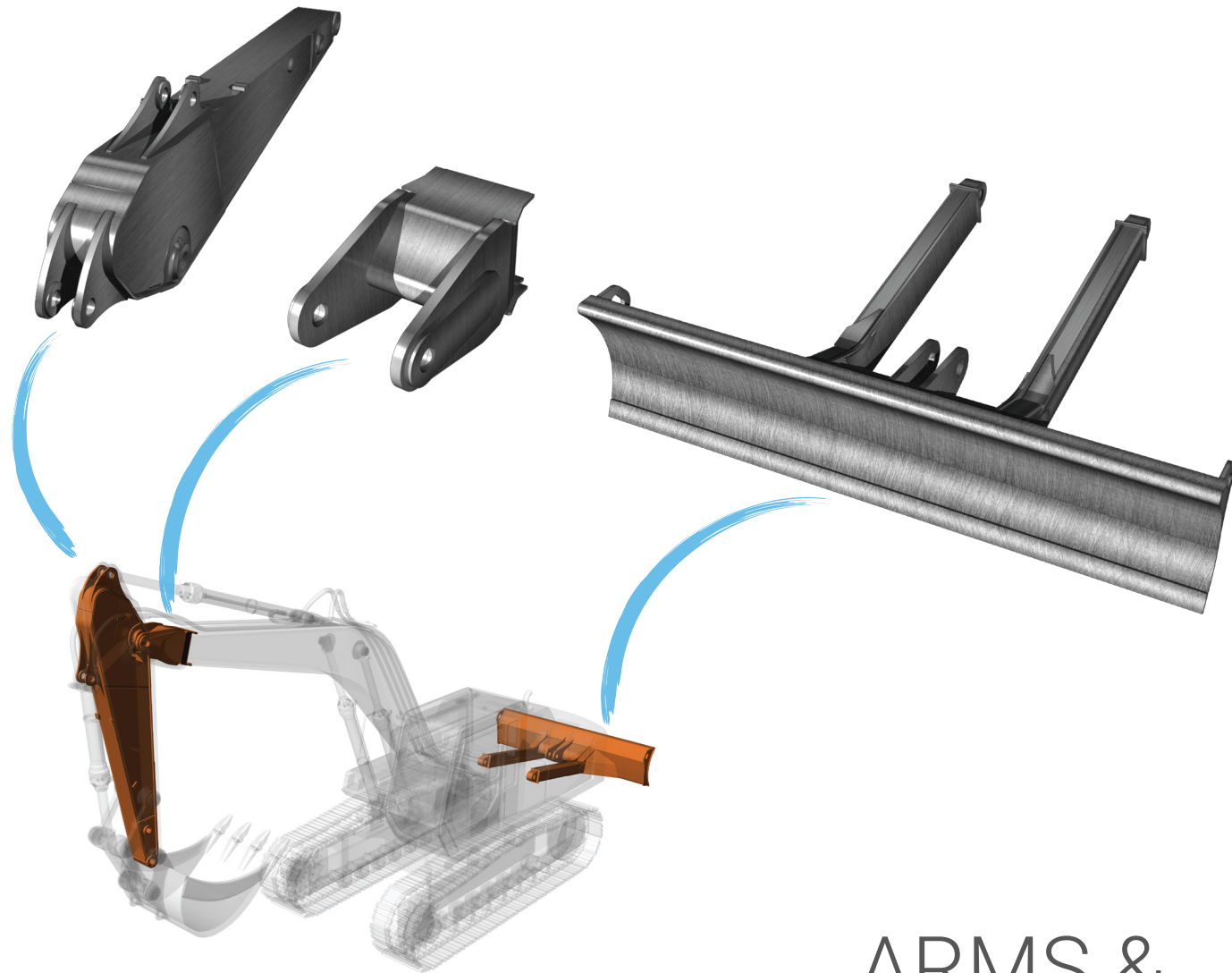
▪ Product #: ORF-F1-160624-4362
▪ Models: 14 ton



OUTRIGGER FRAMES

The Outrigger Frame is an anchoring device that is attached to either the front or back side of a Chassis Frame on wheel type excavators. It promotes the stability while at work by reducing torsions and pulsating loads and requires zero defect welding performance when manufactured.

Excavator Components



ARMS & OTHERS

The Arm is a component attached between the Boom and the Bucket with providing the digging movement. Because the component is exposed to fatigue accumulation in proportion to the amount of work done, high structural strength should be delivered. Also, very high dimensional precision is required when manufacturing because the accuracy of alignment from the Boom to the Bucket is critical.

- 

▪ **Product #:** ARM-FK-230204-4711
▪ **Models:** 26 ton
- 

▪ **Product #:** CFL-FK-230204-4570
▪ **Models:** 22 ton
- 

▪ **Product #:** ARM-FK-230204-4764
▪ **Models:** 21 ton
- 

▪ **Product #:** ARM-FK-230204-4556
▪ **Models:** 15 ton
- 

▪ **Product #:** ARM-FK-230204-4985
▪ **Models:** 15 ton
- 

▪ **Product #:** ARM-FK-230204-4798
▪ **Models:** 11 ton
- 

1
▪ **Product #:** DOZ-FK-05663-4691
▪ **Models:** 7 ton
- 

2
▪ **Product #:** BMT-FK-5008223-4599
▪ **Models:** 7 ton

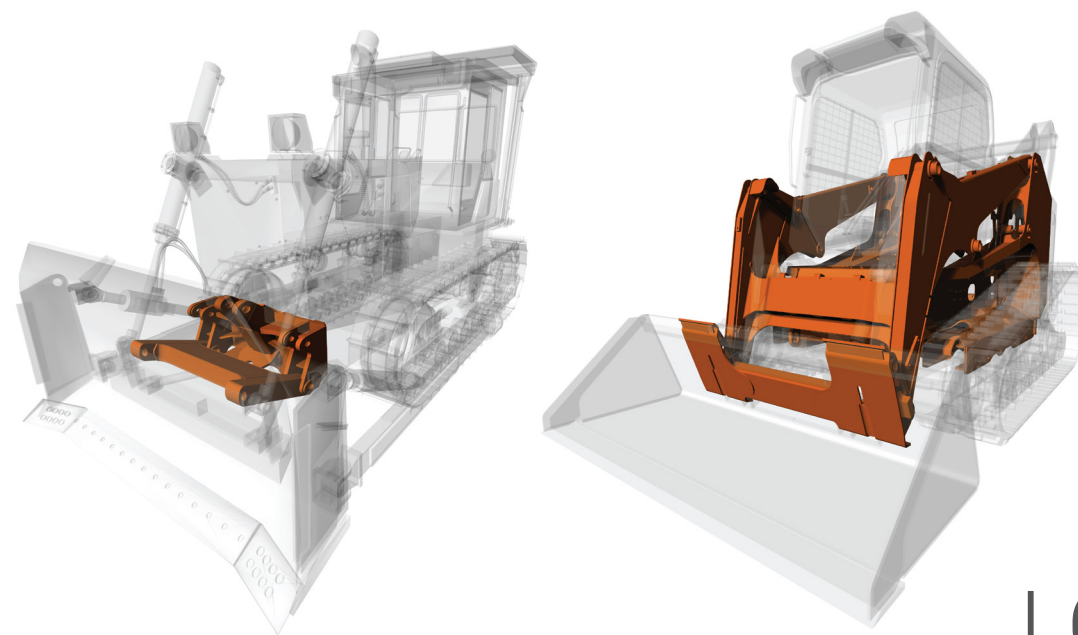
1 DOZER BLADES

The Dozer Blade, attached to the back of an excavator, is a component that excavates and grades earth and other materials from the ground. Manufacturing techniques that prevents heat distortion and load distortion are required because the horizontal balance of the blade intensively affects the performance of work. Also, delivering the durability and structural strength of the component are mandatory.

2 BOOM TOPS

The Boom Top is a structural linkage connecting the Arm to the Boom. Because the component is exposed to fatigue accumulation in proportion to the amount of work done, high structural strength should be delivered. Also, very high dimensional precision is required when manufacturing because the alignment of assembly is important for the movement of the Arm.

Loader & Dozer Components



LOADER & DOZER FRAMES

Currently we are making Main Frames, Arms & Brackets for track loaders and Supporters & Links for Bulldozers.

1



▪ **Product #:** TRK_ARM-FK-06560-5434
 ▪ **Models:** 3 ton Track loaders

2



▪ **Product #:** TRK-BRK-FK-06561-5141
 ▪ **Models:** 3 ton Track loaders

3



▪ **Product #:** TRK-MNF-FK-06530-5013
 ▪ **Models:** 3 ton Track loaders

4



▪ **Product #:** BDZ-SPT-FK-14X-78-5143
 ▪ **Models:** D65 Bulldozers

5



▪ **Product #:** BDZ-LNK-FK-14X-78-5351
 ▪ **Models:** D65 Bulldozers

1 LOADER ARMS

The wide bucket of track loader is put to work by being attached to the Arm component. Since accurate alignment and high durability of this component are fundamental matters for the quality of the final product, very precise manufacturing techniques and high structural strengths are required.

2 LOADER BRACKETS

The Bracket is a linkage component which allows users to attach buckets or forks to the Arm of the loader. It must be manufactured to secure and maintain the lateral balance for optimal work performance and, also, high structural strengths should be guaranteed for a good durability.

3 LOADER MAIN FRAMES

The Main Frame is the main body of a track loader and all functions and options are set up on this component. Delivering good strength and stability is very important because it affects to the balanced drivability while carrying all the parts and components of the loader. When manufactured, quality management on the precision of dimensional tolerances and prevention of deformations is required.

4 DOZER SUPPORTERS

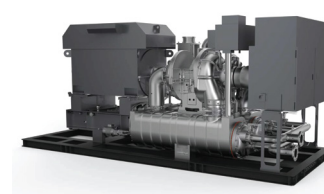
The Supporter is attached to the front or back of a bulldozer to connect the Link component to the main body. This component literally supports the movements of blade or fork attachments and it should be manufactured to deliver the high structural strengths for a good durability.

5 DOZER LINKS

The Link is a linkage component attached to the front or back of a bulldozer. It allows users to attach blades or forks to the Supporter component. It must be manufactured to secure and maintain the lateral balance for optimal work performance and, also, high structural strengths should be guaranteed for a good durability.

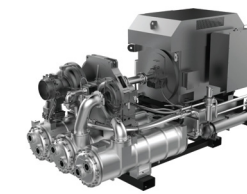
Turbo Compressors

1



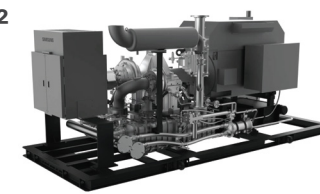
▪ Product #: SM Series (Packaged)
▪ Models: 3000/ 4000/ 5000/ 6000

1



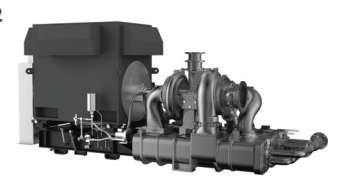
▪ Product #: SM Series (Standard)
▪ Models: 3000/ 4000/ 5000/ 6000

2

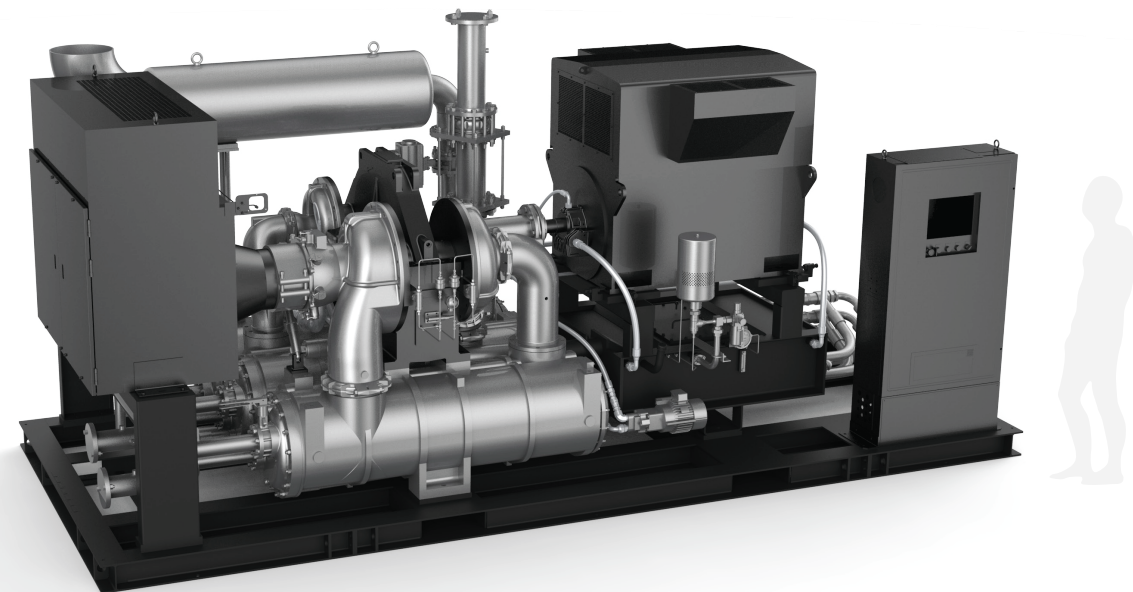


▪ Product #: SM100 Series (Packaged)
▪ Models: 3100/ 4100/ 5100/ 6100

2



▪ Product #: SM100 Series (Standard)
▪ Models: 3100/ 4100/ 5100/ 6100/ 7100



TURBO COMPRESSORS

Turbo Compressor is an industrial machinery equipment which produces an energy source for plants by compressing and conserving the air from the atmosphere. We manufacture complete products of these complex machines as an Original Equipment Manufacturer.

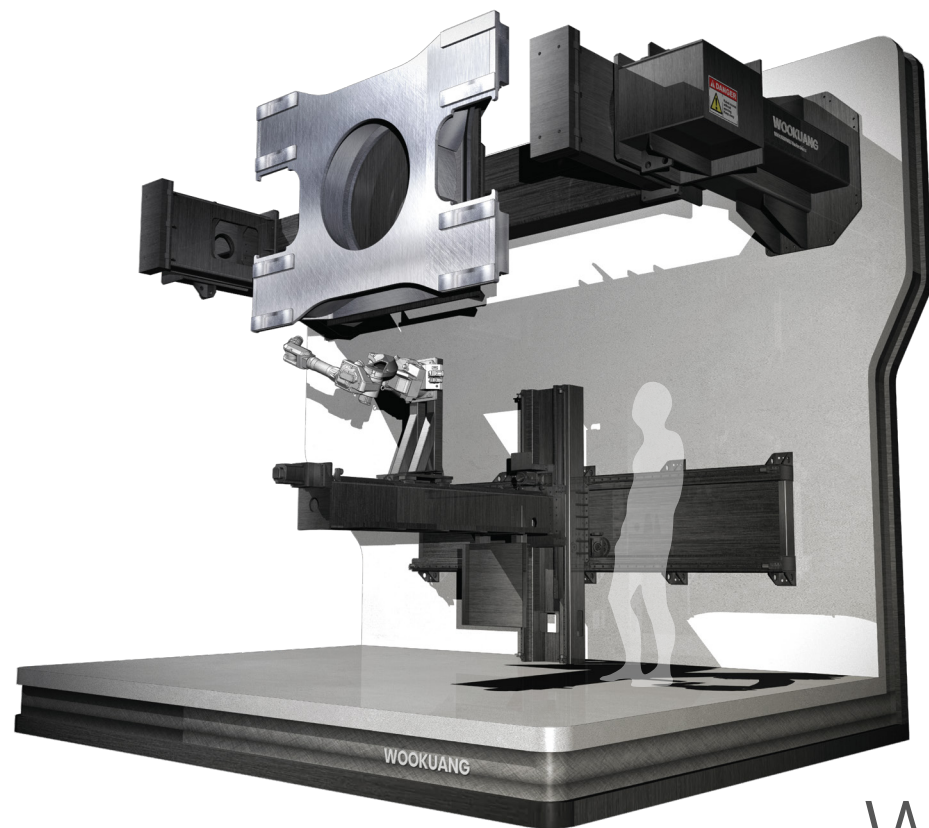
¹ SM Series (Packaged & Standard)

	SM3000	SM4000	SM5000	SM6000
Flow Rate (CFM)	1,950~3,100	3,100~4,950	4,950~8,850	8,850~12,400
POWER (HP)	282~913	410~1,350	660~1,800	1,050~3,150

² SM100 Series (Packaged & Standard)

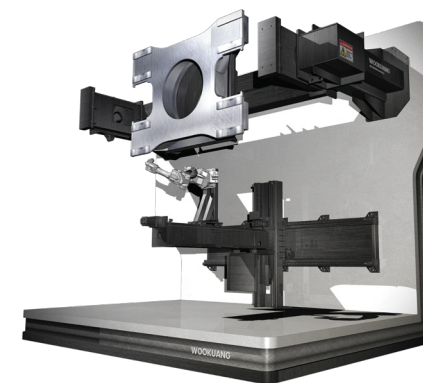
	SM3100	SM4100	SM5100	SM6100	SM7100
Flow Rate (CFM)	1,950~3,100	3,100~4,950	4,950~8,850	8,850~12,400	14,400~18,800
POWER (HP)	282~913	410~1,350	660~1,800	1,050~3,150	1,340~4,155

Robotic Equipment

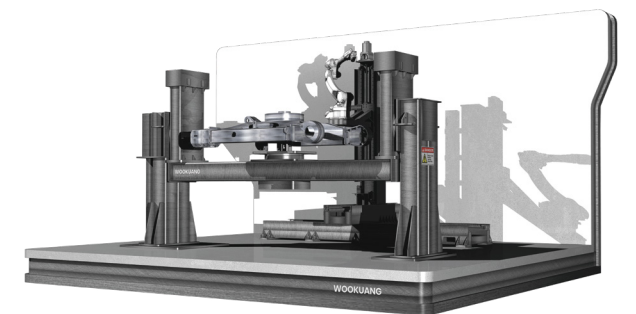


WELDING ROBOT EQUIPMENT

Turbo WOOKUANG is independently making robotic equipment that executes automatic welding tasks on heavy steel components. Our products are precise, efficient, durable and completely customizable by client demands. Users can expect endless production of their products with a consistent quality and cost efficiency. We perform entire process of the equipment production from design & manufacturing to installations & services.



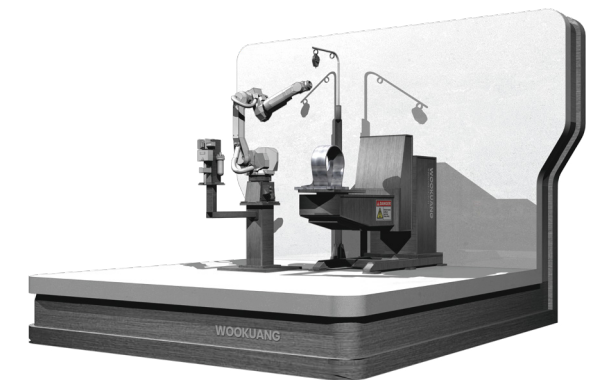
- **Purpose:** Welding Center Frames
- **Models:** 2 Prototype Modules



- **Purpose:** Welding Track Frames
- **Models:** 2 Prototype Modules



- **Purpose:** Welding Side Frames
- **Models:** 1 Prototype Module



- **Purpose:** Welding small parts
- **Models:** 2 Prototype Modules

* More information is available upon request.