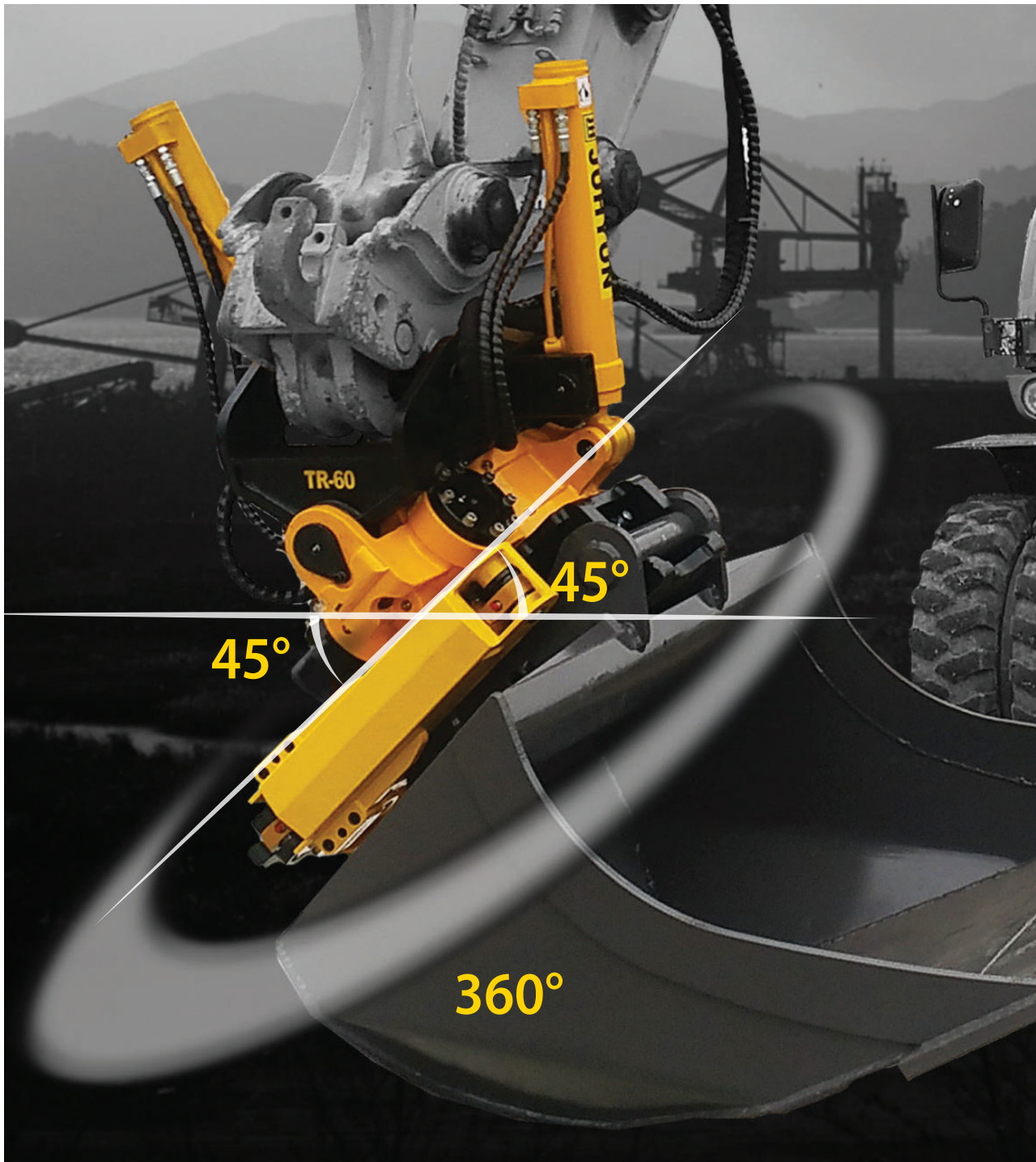


TILT ROTATOR



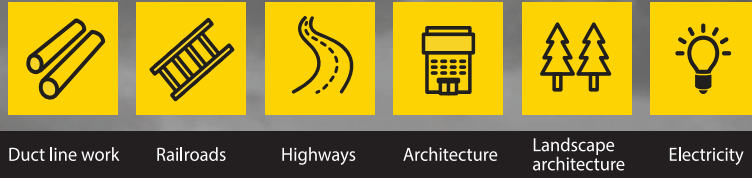
**MORE MOVEMENT THAN
YOUR IMAGINATION**

JK INNOVATION



What is a tilt rotator?

- ❖ A device that plays the role of the human wrist
- ❖ 360° rotation : Easy detachment/attachment
- ❖ Movement : Free movement
- ❖ High Durability & Less Maintenance



INCREASE WORKING
EFFICIENCY

TILT ROTATOR

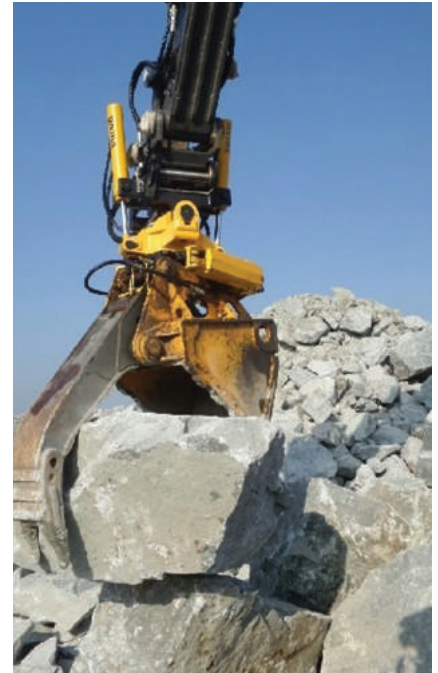
TIME-SAVING
COST-SAVING

- ✿ 30% higher cost effectiveness compared to the use of the existing equipment
- ✿ 30% saving per hour = USD\$20
- ✿ 8hours of work per day = USD\$160
- ✿ 1,800hours of work per year = USD\$36,000

APPLICATION OF TILT ROTATOR



Placing ready-mixed concrete



Tongs



Gripping



Brushing

APPLICATION OF TILT ROTATOR



Forklift



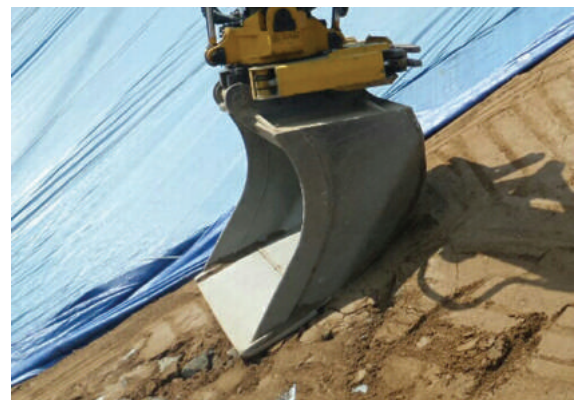
Duct line



Edge



Manhole



Face of slope

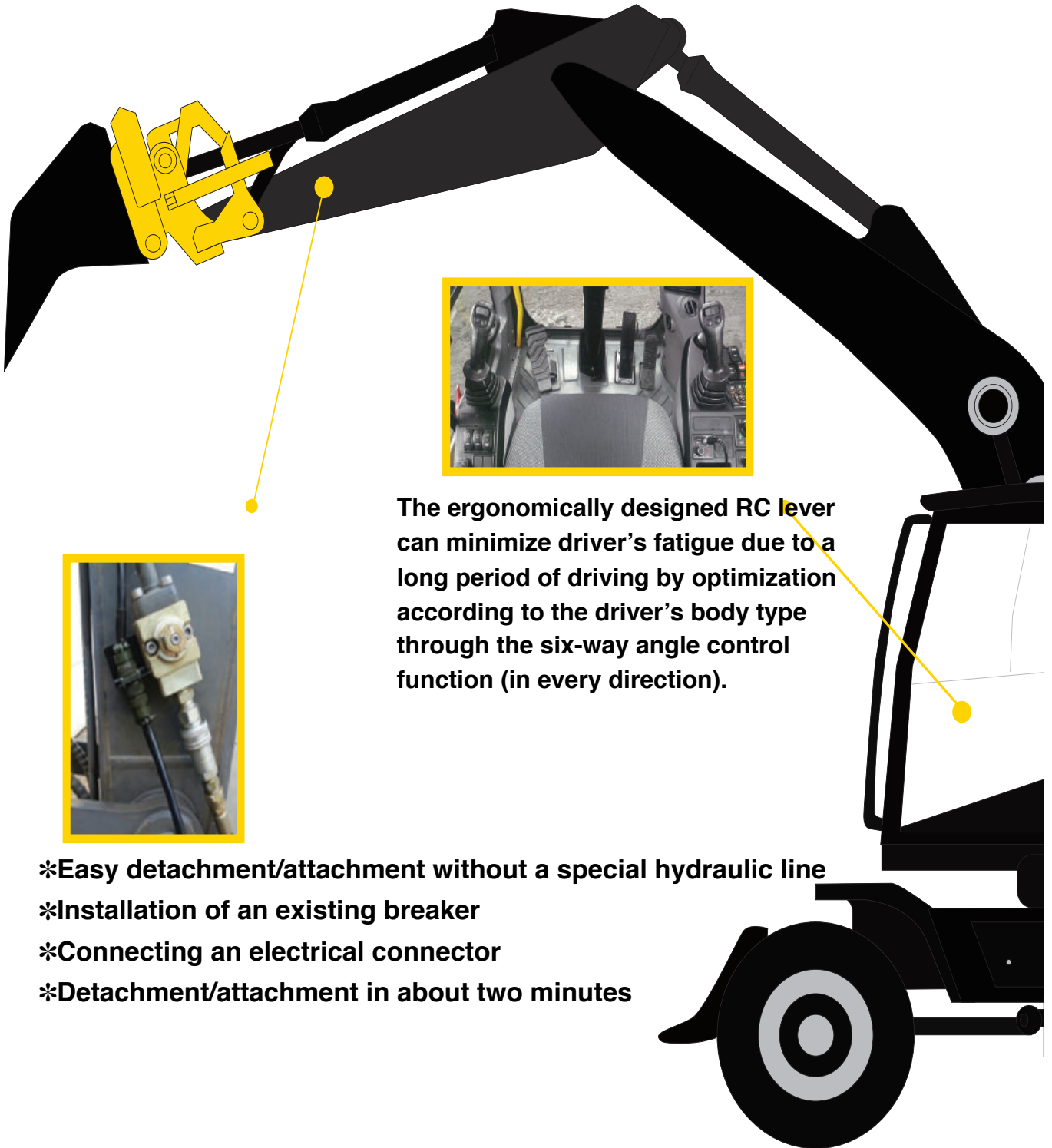


Core drilling



Electrical cord and puddle

INSTALLATION OF A TILT ROTATOR



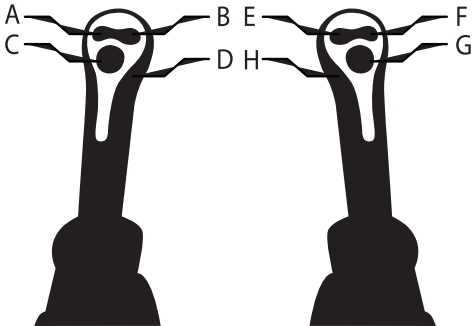
The ergonomically designed RC lever can minimize driver's fatigue due to a long period of driving by optimization according to the driver's body type through the six-way angle control function (in every direction).

- *Easy detachment/attachment without a special hydraulic line
- *Installation of an existing breaker
- *Connecting an electrical connector
- *Detachment/attachment in about two minutes

How to operate the joystick



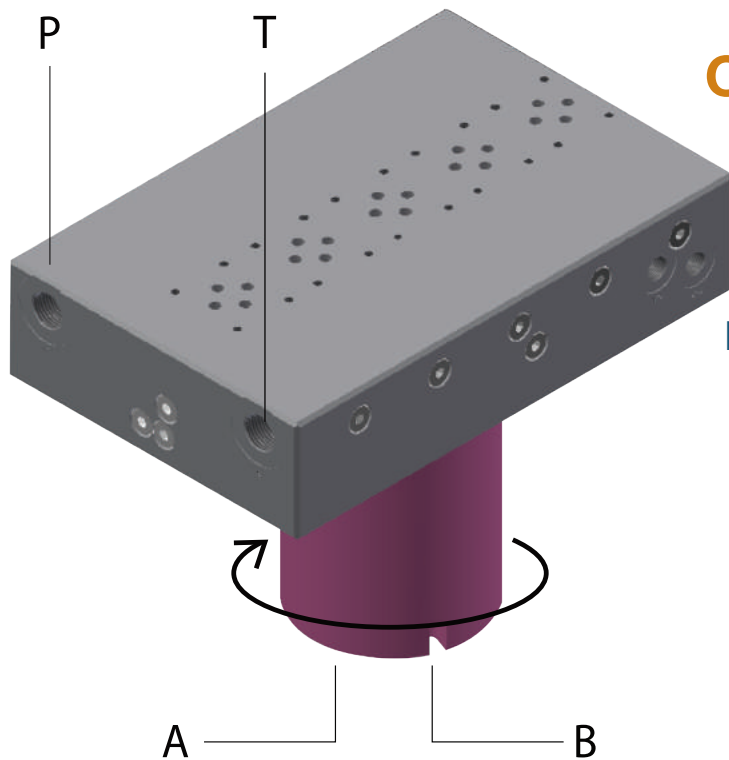
Tilt rotator control system (24 V, 12 V)



- A  Left turn
- B  Right turn
- C  Klaxon (optional)
- D  Grip becoming loose
- E  45° left
- F  45° right
- G  Quick clamp (optional)
- H  Tightening grip



TILT ROTATOR HYDRAULIC SYSTEM



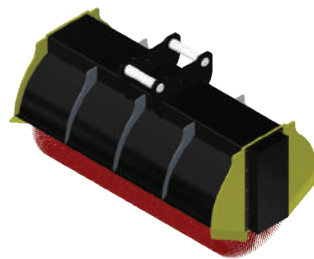
**Central hydraulic
block system
of the rotator**

**Reserved line separate
volume of water, 45L**

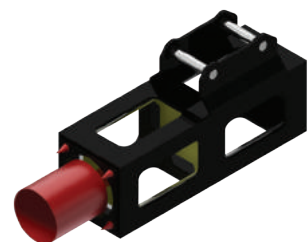
**A separate hydraulic
device can be used.**



Tongs

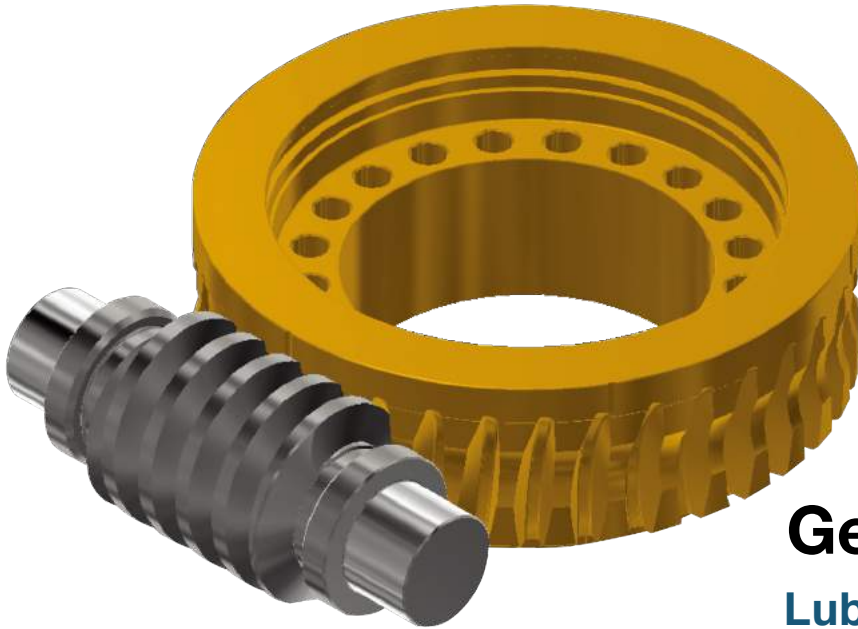


Brush



Core

TILT ROTATOR GEAR SYSTEM



Gear System

Lubricating grease

Use of high tensile brass carbon alloy steel

Great durability and life extension

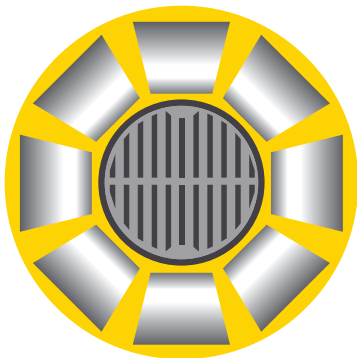
The worm gear is a device that transfers power through contact with less noise and vibration compared to other devices.

Prevention of backlash where worm wheels cannot rotate the worm is available.

Moreover, it is a highly useful gear when automatic control or backlash is unnecessary.

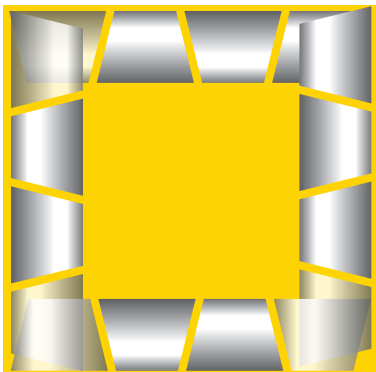
COMPARISON OF WORK BY A TILT ROTATOR

When using tilt rotator



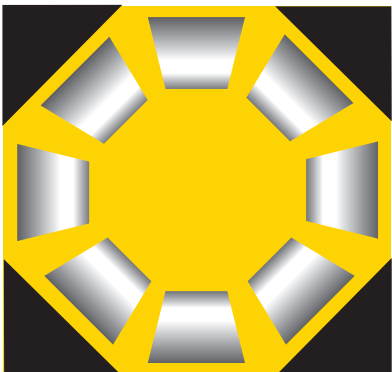
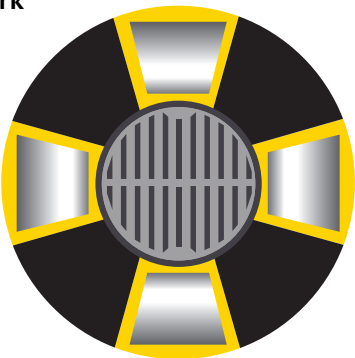
Available work
Not available work

Excavation for
manholes



Excavation for
buildings

General excavator



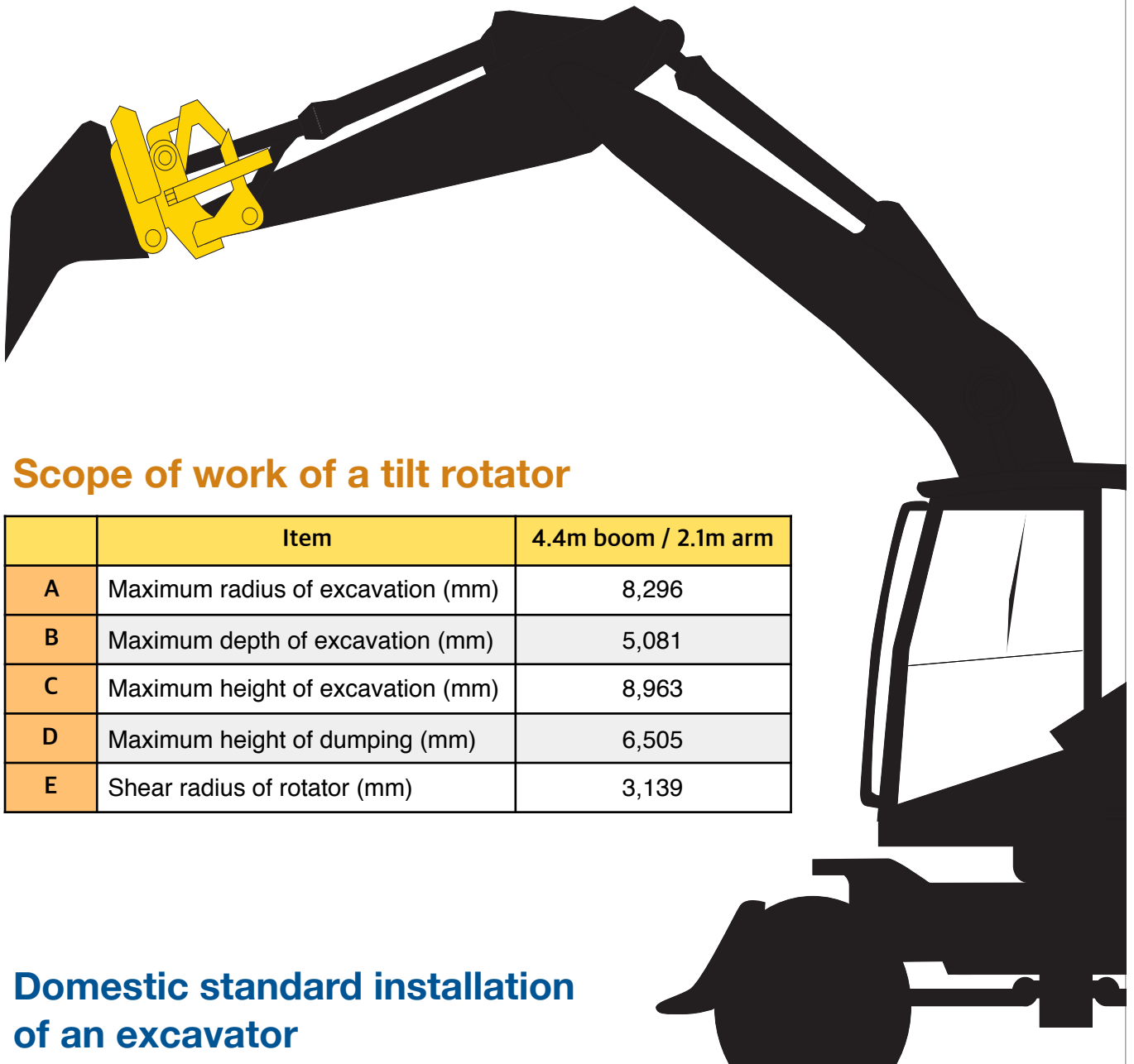
A) Advantages of Tilt Rotator

- a) You can work in any 360 degrees of work direction, regardless of what you do.
It is possible to completely solve the part that cannot be worked on a regular excavator.
- b) You can work 360 degrees in one place without moving excavators for complex urban construction projects (subway construction, water and sewage construction, urban GAS construction, building construction).
These can improve work productivity by 30% and reduce labor costs by 30% compared to regular excavators.

B) Application part of Tilt Rotator

It is possible to do placing work using ready-mixed concrete in areas where the Concrete Pump Car cannot enter.

The reason is that excavators with Tilt Rotator can be rotated 360 degrees and move left and right at 45 degrees from left to right.



Scope of work of a tilt rotator

	Item	4.4m boom / 2.1m arm
A	Maximum radius of excavation (mm)	8,296
B	Maximum depth of excavation (mm)	5,081
C	Maximum height of excavation (mm)	8,963
D	Maximum height of dumping (mm)	6,505
E	Shear radius of rotator (mm)	3,139

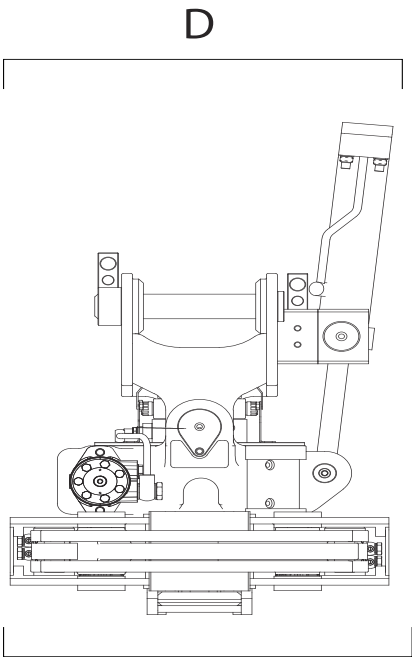
Domestic standard installation of an excavator

	TR-30 (5t)		TR-60 (13t)	
Classification	Using tires	Caterpillar	Using tires	Caterpillar
DOOSAN	DX55W	DX55	DX140W	DX140LC
HYUNDAI	R55W	R55W-9	R140W-9	R140LC-9
VOLVO	EC60CW	EC55C	EW-145B	DX55W
CAT	DX55W	DX55W	DX55W	DX55W

Available installation for both 5ton and 13ton excavator

TYPES OF TILT ROTATOR

Third-grade (5ton excavator)

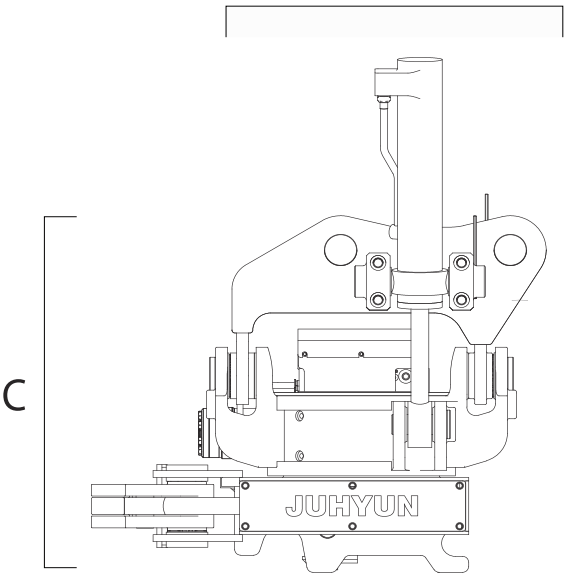


A

B

Size of and information about the technology

A) Width (mm)	(450)
B) (mm)	(600)
C) Total height (mm)	(480)
D) Cylinder width	(480)
Weight (Kg)	(230)
REcommended machine weight (ton)	5t
Maximum slope angle	45°
Lubricating grease for gears	

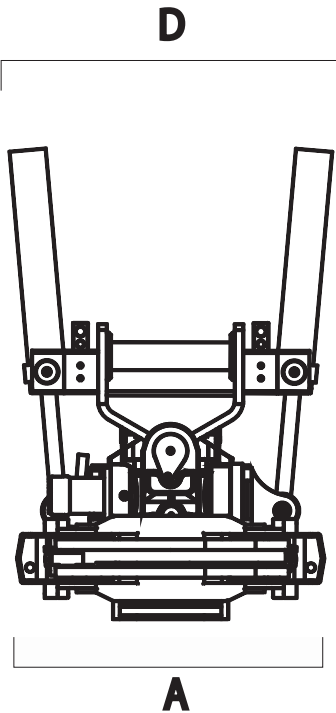
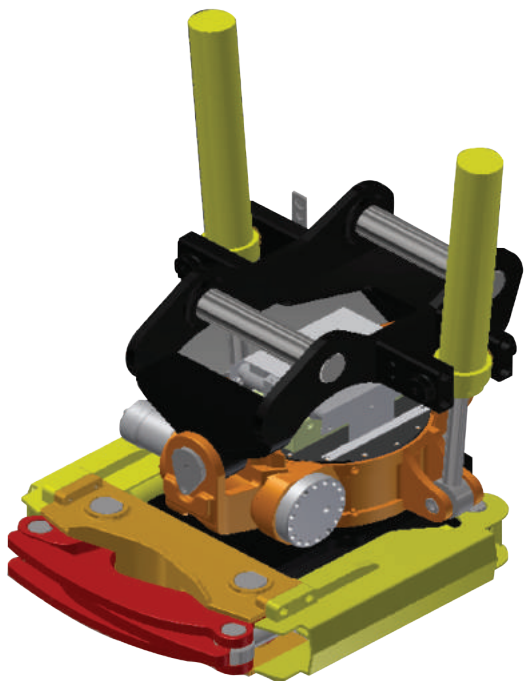


Available installation of an existing bucket

Available installation after removing the existing link

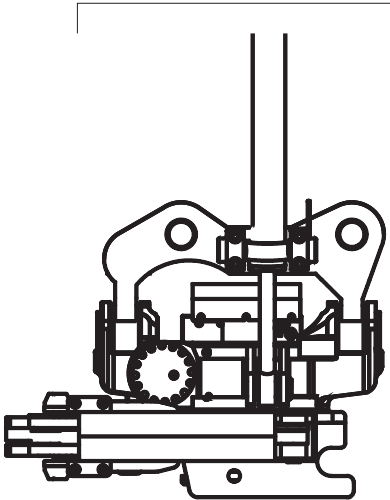
TYPES OF TILT ROTATOR

Sixth-grade (13ton excavator)



A

B



C

Size of and information about the technology

A) Width (mm)	(726)
B) (mm)	(800)
C) Total height (mm)	(535)
D) Cylinder width	(750)
Weight (Kg)	(520)
REcommended machine weight (ton)	15t
Maximum slope angle	45°
Lubricating grease for gears	

Available installation after removing the existing link

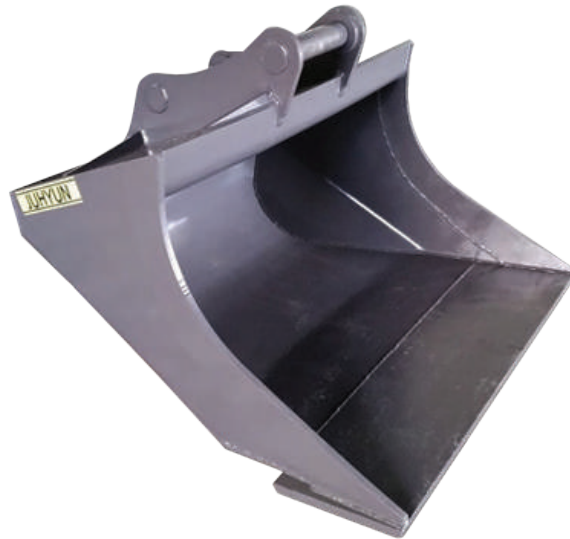
Options for a tilt rotator



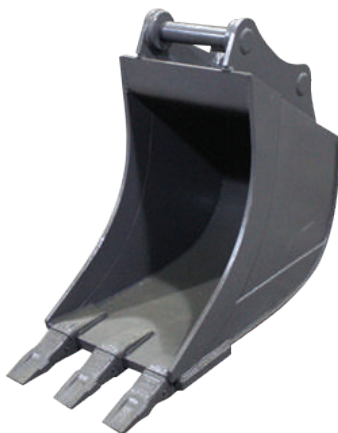
Standard bucket



Standard tooth bucket



Exclusive bucket

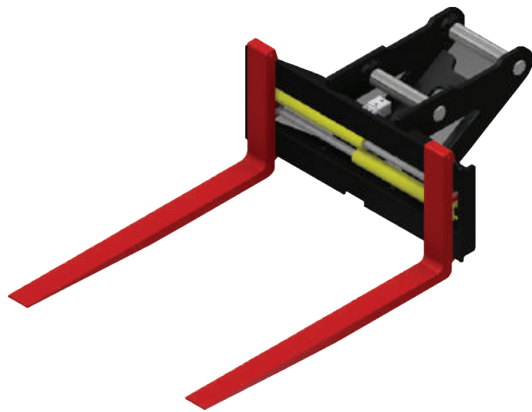


Narrow tooth bucket

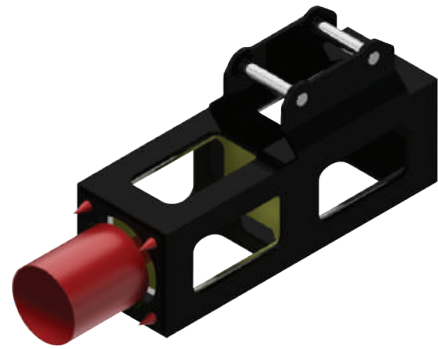


Narrow bucket

Options for a tilt rotator



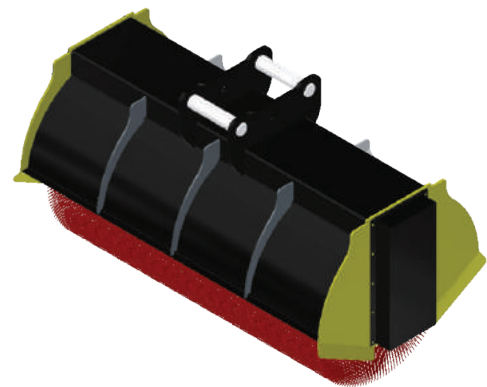
Hydraulic forklift



Core



Asphalt ripper cutter



Brush

As there are various options available for the tilt rotator, work in the job site becomes more efficient.

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