Tire Gauge EX

Name in Japan : **Gauge Botaru**

Ultimate advanced design

Product brochure



New Model

Asahi Industry CO., LTD

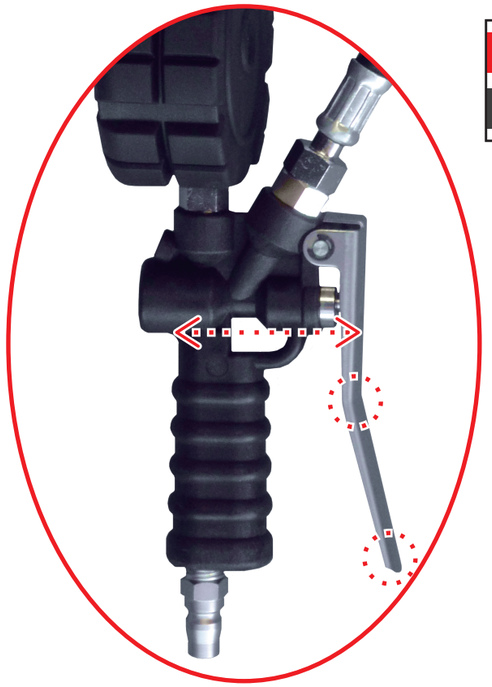
■Follow instruction manual --------
■Coloring may differ from catalog --------
■Spec may revise without notice --------

Comprehensive manufacturer of tire gauges
Asahi Industry CO., LTD
Website https://www.air-asahi.com

Catalog number : AS-AGE-E-2210

01 Curved and Extended Thumb Trigger

Grip force Reduced half !







Advantages 1

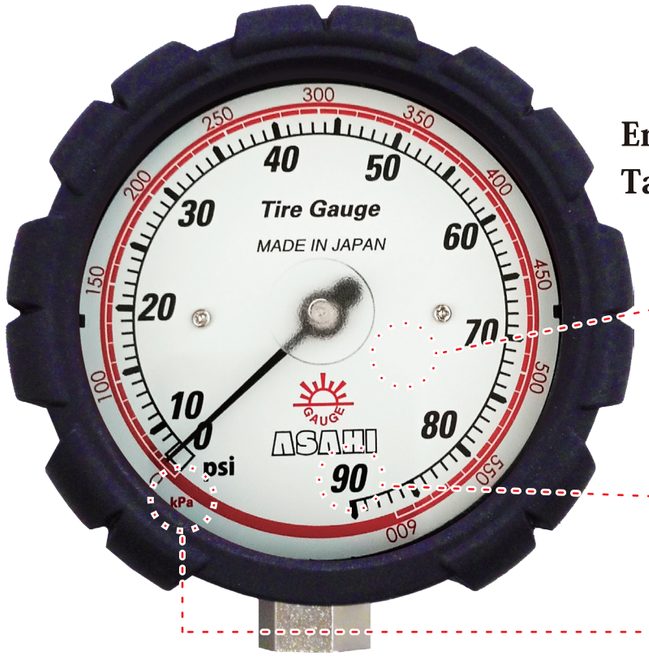
Trigger lever is 20mm extended and curved so it can be held more firmly.
Improved internal mechanics reduces half the grip force to prevent fatigue with continued grasp.

Advantages 2

Reduced stroke between grip and lever to grab easily for smaller hand as female

02 Easy-to-read Dial

SUPERIOR Visibility



Ergonomics based new design
Tailored Font size and Scale marks

Advantages 1



Superior visibility on Luminescent dial with white-ground (from light-green)
Luminescent dial is Asahi original !

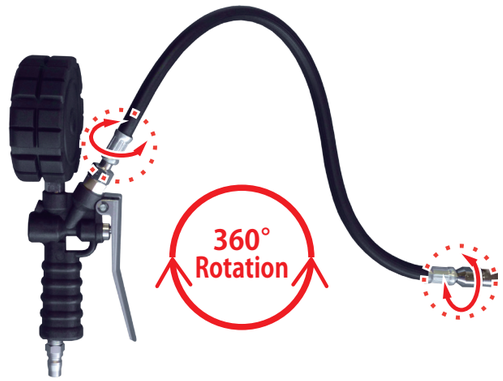
Advantages 2

Each 10psi supports more easier reading

Advantages 3

Displays Kpa in addition to psi

03 Twist eliminated hose



Advantages 1

Easier operation by 100mm extended hose with wider operating range

Advantages 2

Two revolute joints eliminate hose twist and much improved chucking realized

04 Groovy Rubber protector



Advantages 1

Novel design mocks tire



Advantages 2

Rubber bumps protects dial surface at dropping off

Tire Gauge EX

High Precision
High reliability



* Illustrated internal image

Accuracy within 1 scale
Base point stability increased
Improved revolute joints design
100% pre-shipment inspection
MADE IN JAPAN

All 3 features integrated
Measure ~ Inflate ~ Deflate



Right inflation pressure achieved by easy grip handle action

Measure : Attach chuck on tire valve.
*No grip the handle

Inflate : Attach chuck on tire valve and full lever pull to inflate

Deflate : Attach chuck on tire valve and half lever pull to deflate

Chucks to fit
Vehicle types



We prepare variety of chucks suitable for Passenger car, Truck, Bus, motorcycle, etc.
We also prepare special chucks for ISO compliant wheel, or hands-free operative chucks which will reduce operator workload.

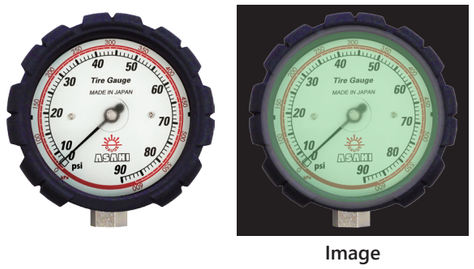
Calibration

(paid service)

Tire Gauge EX is a measuring instrument.
*** We recommend annual calibration**

We first overhaul the unit.
Fix abrasion and replace expendable if necessary.
Then carry out calibration to refresh.
* Calibration is fix/tune the readout within 1 scale from reference over measurement range.

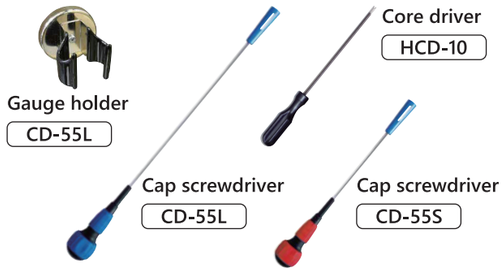
Luminous dial glows in the dark



Image

Luminescent dial helps accurate measurement at less light environment
Only Asahi original design !

Accessories



We have several convenient accessories as Gauge holder, and valve cap screw-drivers, which helps organizing or avoid missing the valve caps

Component supply



Various chuck assemblies



Hose assembly

We offer parts sales

* Except for rubber parts (rib top or seal rubber) without other parts for handling safety

Document issuance

(paid service)

Inspection report



Calibration certificate



Traceability system diagram



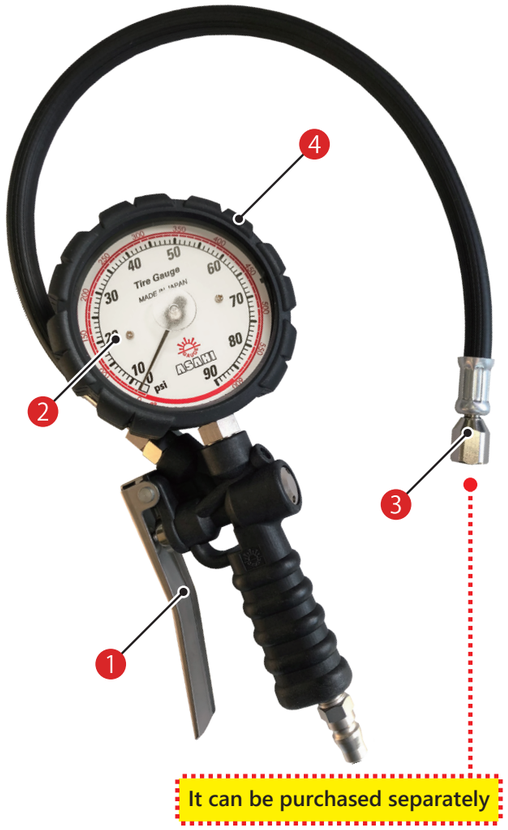
Inspection report Calibration certificate
Traceability system diagram

We can prepare necessary documents for ISO review

Tire Gauge EX ~ Main unit

Superior Visibility and Usability

For Passenger Car : 90psi max



AGE-90

Tire Gauge EX90 Body

Pressure Range	10～90psi
Accuracy	±1psi
Resolution	1psi
Hose length	500mm
Size W × H × L	102×93×685mm
Weight	575g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

* Chuck is not included. Please refer option chuck catalog

4 evolving features

Registered design

01 **Curved Long Thumb Trigger**

02 **Easy-to-read Dial**

03 **Twist eliminated hose**

04 **Groovy rubber protective Boot**

Multi-use with optional chucks

High Quality and Reliability

For Mid-Large Vehicle : 180psi max



AGE-180

Tire Gauge EX180 Body

Pressure Range	20～180psi
Accuracy	±2psi
Resolution	2psi
Hose length	500mm
Size W × H × L	102×93×685mm
Weight	575g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

* Chuck is not included. Please refer option chuck catalog

Highly reliable "Made-in-Japan" product

EX High Quality High Precision + All-in-one Read-Inflate-Deflate + Various optional chucks + Extensive Customer support

AGE-90-452

Tire Gauge EX90 with
Small-Straight-chuck (C-452)

Car / Van

Single tire



Pressure Range	10～90psi
Accuracy	±1psi
Resolution	1psi
Hose length	500mm
Size W × H × L	102×93×750mm
Weight	655g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

Chuck C-452 is best fit to Aluminum wheels with small size tip.
Easy to use Recommend for passenger cars

AGE-180-870

Tire Gauge EX180 with
Small-Double-chuck (C-870)



Mid-size truck

Single tire

Dual tire

Dual head chuck

Pressure Range	20～180psi
Accuracy	±2psi
Resolution	2psi
Hose length	500mm
Size W × H × L	102×93×850mm
Weight	670g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

Chuck C-870 also fits to dual tire for small to mid-size car.
Small size tip can fit Aluminum wheels

AGE-90-F48

Tire Gauge EX90 with
Narrow-Socket-chuck (C-F48)

Car / Van

Single tire

Hans Free OK !



Pressure Range	10～90psi
Accuracy	±1psi
Resolution	1psi
Hose length	500mm
Size W × H × L	102×93×735mm
Weight	660g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

Chuck C-F48 is Hands Free socket chuck, no broke loose once pushed on valve.
Tip size 16.5mm (narrowest in our products) is achieved.
Only pulling back the knob to remove.
Also, best fit for Car wheels with narrow valve space

AGE-180-F48

Tire Gauge EX180 with
Narrow-Socket-chuck (C-F48)



Truck / Bus

Single tire

Hans Free OK !

Pressure Range	20～180psi
Accuracy	±2psi
Resolution	2psi
Hose length	500mm
Size W × H × L	102×93×735mm
Weight	660g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

Chuck C-F48 is Hands Free socket chuck, no broke loose once pushed on valve.
Tip size 16.5mm (narrowest in our products) is achieved.
Only pulling back the knob to remove.
Also, best fit for Truck/Bus wheels with narrow valve space

Value Kit (Standard)

Great deal with Chuck !

AGE-180-ISO

Tire Gauge EX180
ISO set

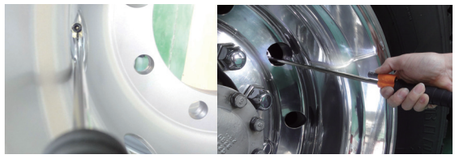


Pressure Range	20～180psi
Accuracy	±2psi
Resolution	2psi
Hose length	500mm
Size W × H × L	102×93×1140mm
Weight	805g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

Truck / Bus

Single tire　Dual tire　Patented in Japan　Dual head chuck

Chuck C-A28 is long dual head chuck best fits for ISO Aluminum wheels of Large vehicle. The small size tip can easy access to inner tire through small Hand hole of ISO Aluminum wheels.



ISO wheel has Larger PCD and Smaller Hand Hole

Aluminum ISO wheel has more Small Hand Hole

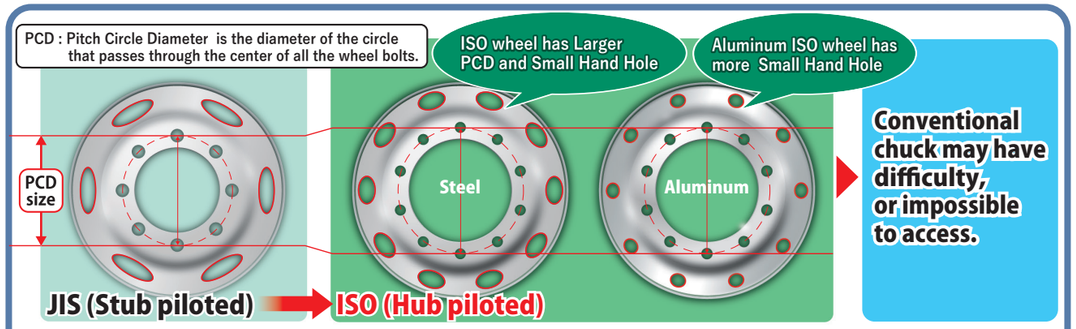
for Large Truck / Bus

Comply with "New ISO" wheel

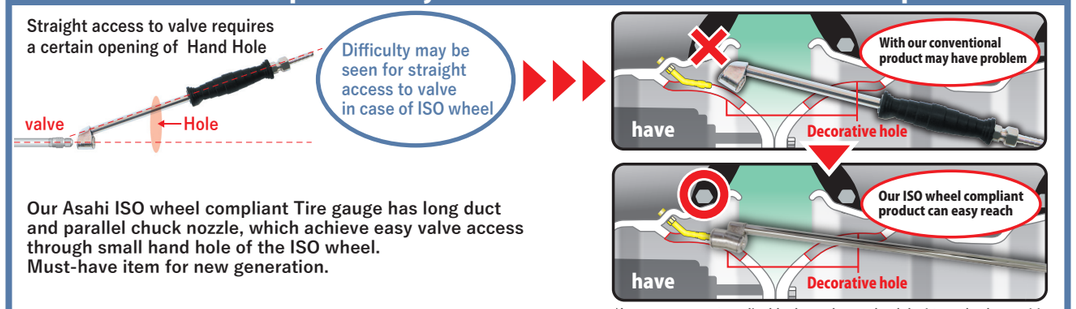
(Hub Piloted Wheel)

The ISO wheels are equipped as standard for "post new long-term regulation" compliant vehicle
*which new registered since October 2009.

* All vehicle of total weight 12t or more and, 19.5 or 22.5 inches wheels installed will be fully adopted.



Concern on inner tire pressure adjust of dual wheel with our conventional product



Our Asahi ISO wheel compliant Tire gauge has long duct and parallel chuck nozzle, which achieve easy valve access through small hand hole of the ISO wheel.
Must-have item for new generation.

*In some case not applicable depends on wheel design and valve position

AGE-180-SHF

Tire Gauge EX180
TB chuck set



Pressure Range	20～180psi
Accuracy	±2psi
Resolution	2psi
Hose length	1500mm
Size W × H × L	102×93×2080mm
Weight	1165g
Chuck screw	internal thread G1/4
Air Inlet	Coupler socket

Truck / Bus

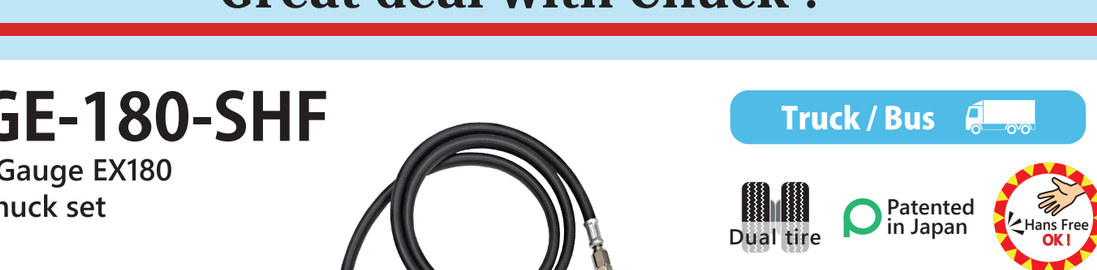
Dual tire　Patented in Japan　Hans Free OK !

■Chuck C-E76 (for inner dual tire)
■Chuck C-E77 (for outer dual tire)

Above two chucks included the kit. These socket chucks firmly grab the valve so that hands-free operation possible. 1.5m long hose (other option available) helps distance from tire for safety. The coupler connection to hose also helps easy exchange these inner/outer chucks. Best fir for ISO Aluminum wheel with small hand hole.

1 | Easy chuck exchange by included conversion adapter

Attach or Detach　**No glue, No wrench needed !**



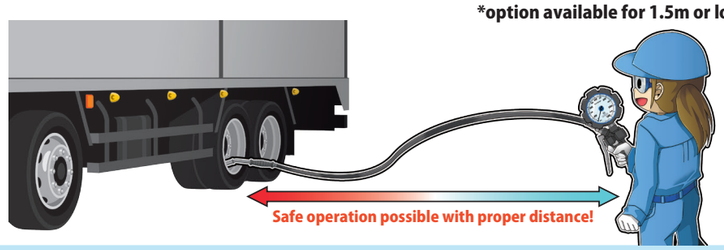
2 | Dedicated two chucks for inner / outer tire with socket chuck enables hands-free operation on Aluminum wheels

*In some case not applicable depends on wheel design



3 | 1.5m long hose secures distance from large vehicle for safety

*option available for 1.5m or longer hose



* Avoid standing in front of the tire during inflating. There is a risk to be injured.

Small-bore socket chuck C-F48

Air chuck for Tire Gauge EX

Made in JAPAN

Small-bore !! Compatible with various car models !

Tip size 16.5mm

(more than 20% smaller)
(compared to our existing products)



Totally Hands-Free

Chuck C-F48 is socket chuck,
securely holds the valve once pushed on.
It catch the valve firmly during inflation to enable hands-free operation.
Just pulling back the knob to remove.
For small / large tires

C-F48

Small-bore socket chuck

Length	95mm
Diameter	Φ16.5mm
Weight	85g
Connect screw	G 1/4
Advantages	Open type, Hands-Free, Best fit for Passenger car

Reliably grab the valve than Crip chuck, easy detachable !

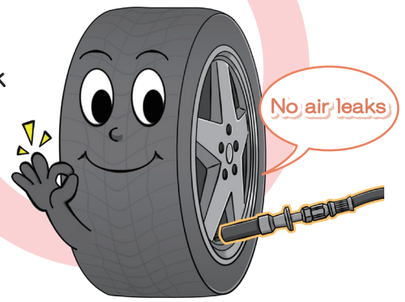
C-F48



Connection locked by both claw.
One touch straight contact and
no broke loose

Both Claw Lock

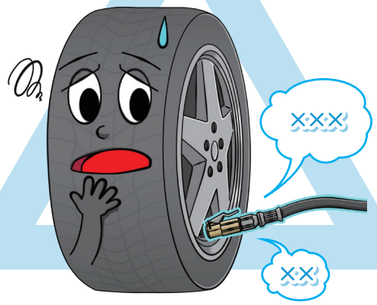




Crip chuck



Single claw may cause leaky
connection due to angled contact



OR tire socket chuck C-G14

(12V1 valve only / open type)

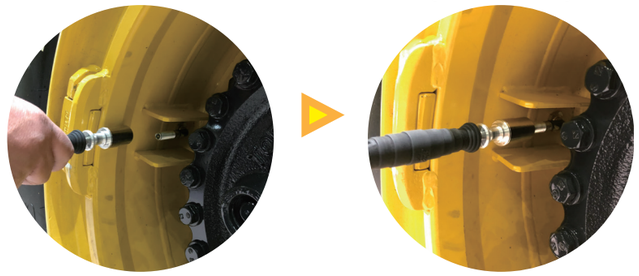
Made in JAPAN

Easy connection by Push-lock
Contacts more secure than clip chuck

- Reduce operator workload
- Increase productivity

Before connected

Locked (connected)



Both Claw Lock





Utilize with Gauge



Hans Free OK !

Enable hands-free once connected



C-G14

OR tire socket chuck

Length	206mm
Diameter	Φ26mm (for 12V1 valve)
Connect screw	G 1/4
Advantages	OR tire, Hands-Free

Air Chucks for Tire Gauge EX

Extensive Chucks available ! You can find suitable chuck for cars and applications

Vehicle type
- Passenger Car
- Truck / Bus
- Motorcycle
- Mid-size Truck
- For safety fences
- Industrial vehicle
- Nitrogen inflate
- Forklift

Tire type
- Single tire
- Dual tire

Feature
- Hands-Free
- Dual chuck (Dual head chuck)

Body(range)
- 90psi
- 180psi

Passenger Car — Single tire

Feature : Small bore chuck
Aluminum wheel Best fit
Length : 70mm



C-452
Small bore straight chuck

Mid-size Truck — Dual tire

Feature : Dual chuck
Aluminum wheel Best fit
Length : 165mm



Dual head chuck

C-870
Small bore dual chuck

Mid-size Truck — Single tire

Feature : Small bore chuck with comfort hand grip Also Best fit for passenger car
Length : 163mm



C-B71
Short chuck straight

Mid-size Truck — Dual tire

Feature : Dual chuck with comfort hand grip
Length : 195mm



Dual head chuck

C-B72
Short chuck dual

Passenger Car — Single tire

Feature : Simplified (CLIP) Hands-Free chuck
Length : 50mm



C-876
CLIP chuck

Passenger Car — Single tire

Feature : Special plastic coated. Significantly reduce body damaging risk
Length : 118mm



C-B60
Soft chuck

Passenger Car — Single tire

Feature : Easy Push to connect Firmly holds the valve and inflate securely
Length : 42mm



Registered design in Japan
C-B62
Socket chuck

Passenger Car — Single tire

Feature : Easy Push to connect Firmly holds the valve and inflate securely
Length : 95mm



C-F48
Small-bore Socket chuck

Motorcycle — Single tire

Feature : Standard chuck for Motorcycle
Length : 35mm



C-645
Motorcycle chuck

Motorcycle — Single tire

Feature : "L" shaped hands-free swivel chuck
Length : 40mm



Registered design in Japan
C-A27
"L" shaped clip chuck

For safety fences — Single tire

Feature : L-shaped and small, ideal for inflate in safety fences
Length : 93mm



C-F48L
Small-bore Socket chuck

Nitrogen inflate — Single tire

Feature : Small bore threaded type secure connection chuck. For Nitrogen inflate (hands-free)
Length : 70mm



C-536
Threaded chuck

Extensive Air Chucks suitable for applications

Truck / Bus — Dual tire — Inner tire

Feature : One touch connect Hands-Free chuck.
Supports Aluminum wheel with small hand hole.
Easy detach with Long sleeve.
Bent bar can avoid hitting.
Length : 330mm



C-E76
Socket chuck BM

Truck / Bus — Dual tire — Outer tire

Feature : One touch connect Hands-Free chuck.
Supports Aluminum wheel with small hand hole.
Urethane covered bar can avoid hitting.
Length : 275mm

Patented in Japan



C-E77
Socket chuck PM

Truck / Bus — Single tire

Feature : One touch connect Hands-Free chuck.
With comfort hand grip
Length : 205mm



C-C84
Socket chuck SS

Truck / Bus — Dual tire — Single tire

Feature : Supports Both Inner / Outer tires of Large vehicle
Lock firmly with aluminum slide sleeve
Length : 410mm



Patented in Japan

C-B43
Truck Chuck
Dual head chuck

Truck / Bus — Dual tire — Single tire

Feature : Outstanding access to inner tires of dual wheel !
Small tip long bar dual ISO chuck. Best fir
for small hand hole ISO Aluminum wheels
Length : 460mm



ISO wheel
Patented in Japan

C-A28
Ultra chuck L
Dual head chuck

Truck / Bus — Dual tire — Single tire

Feature : ISO wheel support dual chuck
Length : 280mm



ISO wheel
Patented in Japan

C-A29
Ultra chuck S
Dual head chuck

Industrial vehicle — Single tire

Feature : Large size tire valve (12V1) dedicated chuck.
Length : 285mm



C-A20
OR straight chuck

Industrial vehicle — Single tire

Feature : Large size tire valve (12V1) dedicated Hands-Free chuck.
Push-lock easy connection.
Hands-Free operation OK
Length : 206mm



C-G14
OR socket chuck

Forklift

Feature : Best fir for Forklift
Small bore tip with comfort hand grip
Length : 285mm



C-B86
Fork chuck L

Forklift

Feature : Best fir for Forklift
Small bore tip with comfort hand grip
Length : 180mm



C-B87
Fork chuck S

Replacement parts

* Also applicable for Legacy Tire Gauge products

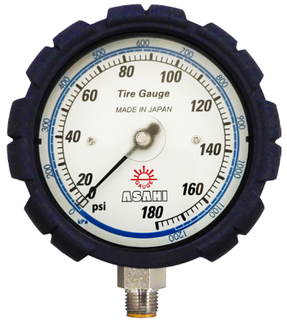
Indicator

M-F54
For AGE-90



Pressure Range	10～90psi
Accuracy	±1psi
Resolution	1psi
Indicator size	ϕ80mm
Adapted for	AGE-90-xxx AD-206xx AD-306xx

M-F55
For AGE-180



Pressure Range	20～180psi
Accuracy	±2psi
Resolution	2psi
Indicator size	ϕ80mm
Adapted for	AGE-180xxx AGE-180-SHF AGE-180-ISO AD-212 AD-312xx

Inflator body

B-F57
For AGE



Adapted for	Common for all AGE series products

Hose

H-F51
For AGE standard



Length	500mm
Feature	Swivel couplers attached on both ends which absorb twisting

Hose

H-F52
For AGE



Length	1000mm
Feature	(Mid-length) Swivel couplers attached on both ends which absorb twisting

H-F53
For AGE-180-SHF



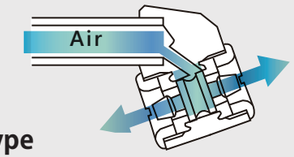
Length	1500mm
Feature	(Long-size) Swivel couplers attached on both ends which absorb twisting

Air Chuck Handling Tips

Chuck types : Difference of Open type and Close type

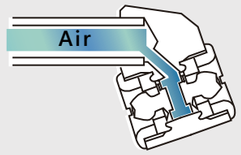
The tip of open-type chuck is black

Open-type (Normally Open)



Chuck valve structured open regardless the tire valve.
Tire Gauge EX(AGE) utilize this type.
Tire Gauge control the valve on inflator body

Close-type (Normally Closed)

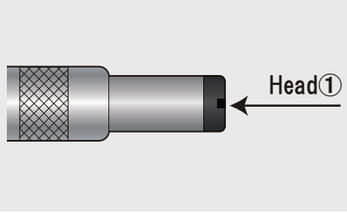


Chuck valve is opened by valve core contact.
Utilized at air line from compressor.
If open-type used here air will be start blowing immediately.

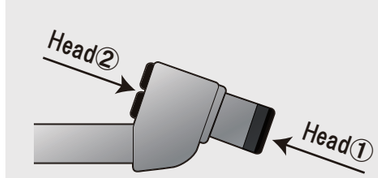
Single Chuck and Dual Chuck

Air chuck which has one (single) valve contact or two (dual) contacts.

Single chuck



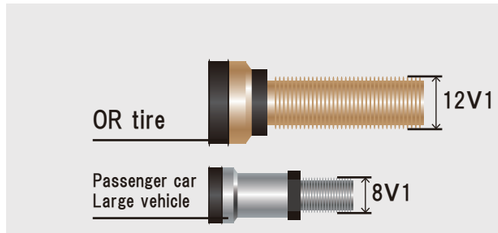
Dual chuck



Dual chuck integrates two contact mechanism as [Push] and [Pull] to access tire valve.
The dual wheel has opposed two tires and the valve placed in reverse, which requires two (push chucking and pull chucking) actions.

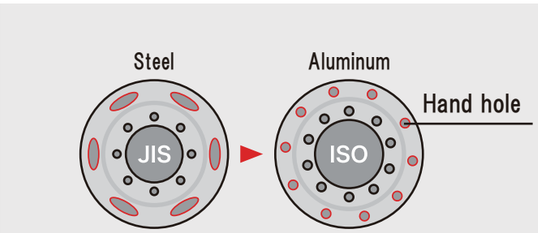
Special tire and Aluminum wheel

Tire valve



Construction machinery's Off-the-Road tire (OR tire) which the large tire has large bore size valve requires special chuck.

Tire wheel



Aluminum wheel may have small hand hole which the conventional chuck can not access.Please use dedicated chuck

CD-55L(long shaft)

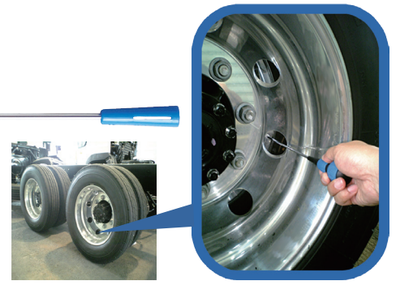
Patented in Japan

Plastic grip/tip cap screwdriver
"CAPTO-RU-KUN(L)"



length	390mm
Weight	90g

Suitable for mid-size to large size vehicle



CD-55S(short shaft)

Patented in Japan

Plastic grip/tip cap screwdriver
"CAPTO-RU-KUN(S)"



length	275mm
Weight	70g

Suitable for passenger car



Have you troubled with releasing valve cap ?
Our Thin cap screwdriver "CAPTO-RU-KUN"
will solve ! It also supports round / hex type caps.

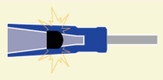


Support all kinds of caps !
Best fit for ISO wheel !

* No support for dress-up cap

◆Holding force and Easy removal◆

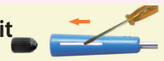
Tapered structure and stretchable plastic realize excellent holding.



Cap capturing seen by side slit



Easy Cap removal through side slit by thin screwdriver



HCD-10

Holding Core Screwdriver
"Bug Hunt Master"

length	230mm
Weight	50g

Catch "Bug" (core) tightly, "Bug Hunt Master"
Pushing in and catch the core tightly. No drop off during pulling out



Pushing in.
Tightly catch the core



No core drop off during pulling out

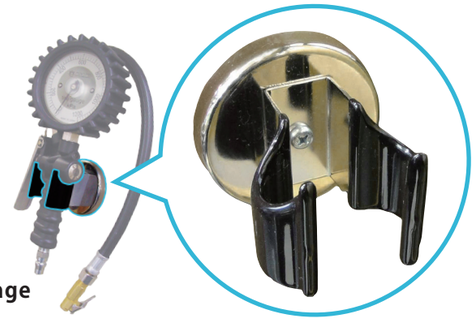


AG-HLD

Gauge-Botaru holder

Size W×H×L	66×66×65mm
Weight	210g

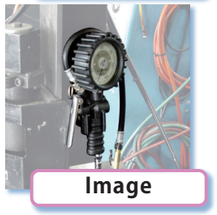
Keep tire gauge at convenient place.
Increase productivity, prevent accidental drop off. Firmly fixed by strong magnet on tire changer, steel rack, wagon, etc.



Image



Image



Image

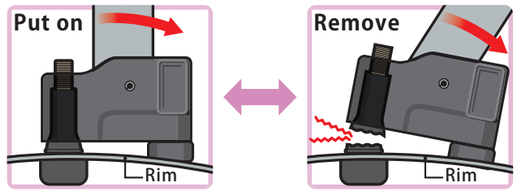
TVT

Tire Valve Insert/remove Tool



length	270mm
Weight	225g

Excellent operability as two roles (inserter/remover) in one body. Insert or Removal in a single shot !





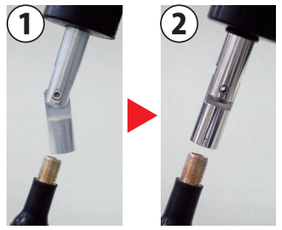
TVT-3 ("Bravo")

Tire Valve Insert Tool



length	265mm
Weight	215g

Latest style valve inserter. Further operability.
The flex head and lock mechanism at straight position supports easy-to-use.





① Our conventional model
(Flex head without lock mechanism)

② New model TVT-3
(Flex head with lock mechanism)

Air gauge accuracy checker SC-70

Dedicated protective case included

MADE IN JAPAN

Organic EL display makes clear view ! Allows precise calibration !



Evolving Features

Controls all on top panel
Compact design

Two ways power supply
Battery / AC adapter

Operable within case
Connection by attachments

Air gauge accuracy checker SC-70

Range	0～970kPa
Accuracy	±5kPa
Resolution	1kPa
Max inlet pressure	1.3MPa
Body Size	165×110×110mm
Case Size	330×280×120mm
Weight	3.2kg(include case)
Connection	20PF equivalent
Test input	Valve stem 8V1

Power supply	Battery : 2x AA AC adapter 3.3VDC
Items included	AA battery x 2 AC adapter 3.3VDC User manual Inspection report



Asahi-Sangyo aims
Zero defective air-gauge used on-site

Case colored in black, or dark green

Certificate issuance available (calibration certificate, traceability system diagram, etc.) Suitable for accuracy control equipment

DEM-90

Compressor NOT required

Battery-powered

Digital easy master gauge

Range	0～970kPa
Accuracy	±5kPa
Body Size W×H×L	141×52×81mm
Weight	600g
Power	2x AA battery
Measurement hose	φ6 urethane 800mm length
Chuck (Measure)	Straight chuck + adapter
Chuck (Accuracy check)	Threaded type chuck
Items included	AA battery x 2 User manual Inspection report



Improve air pressure measurement accuracy at car maintenance shop

Both precision tire air pressure measurement, and tire gauge accuracy check can be performed

3 functions

① **Precision digital measurement**

② **Check other gauge accuracy**

③ **Operable as Master gauge**

Measure



① Measure tire air pressure precisely (0~970kPa)

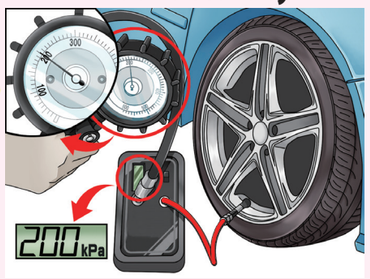
Simple to use

Pass range is +/- 1 digit

(Example : For 200kPa,
Pass Range is 190kPa ~ 210kPa)
Replacement will be recommended if exceeding the pass range

We Asahi-sangyo offers
Calibration and Repair
(paid service)

Check accuracy



② Utilize TEST STEM and check other tire gauge accuracy

How To keep accuracy ?

We recommend annual vender calibration and timely replacement



Annually

vender calibration
We fix abrasion and replaceexpendable if necessary. Carry out calibration and send back to you as good as new. * Paid service

About 5~7 years

Replacement
If heavy accuracy degradation observed during calibration



Tire gauges

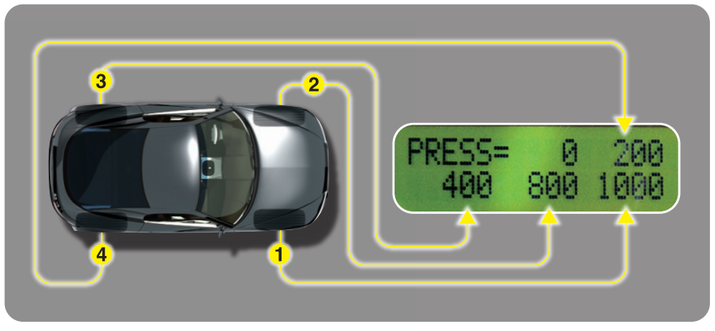
Precision digital tire gauge (Measurement only)



dPG-50

Range	0 ～ 1000kPa	Battery	2 x AA
Accuracy	±3kPa	Operating temp	-10 ~ +50℃
Resolution	1kPa	Coil Tube length	max 600mm
Size W×H×L	81×141×42.5mm	Display	LCD 16x2 characters
Weight	390g		

4 wheels data can be saved



Nuki(deflation)-botaru (Measurement and deflation)



AD-206

Range	60 ～ 600kPa
Accuracy	±10kPa
Resolution	10kPa
Body Size W×H×L	102×40×660mm
Weight	450g



AD-206MC

Range	60 ～ 600kPa
Accuracy	±10kPa
Resolution	10kPa
Body Size W×H×L	102×40×625mm
Weight	425g



AD-212

Range	120 ～ 1200kPa
Accuracy	±20kPa
Resolution	20kPa
Body Size W×H×L	102×40×755mm
Weight	470g

Master tire gauge (Measurement only)



MTS-5

Range	0 ～ 500kPa
Accuracy	±3kPa (50~450kPa) ±4.5kPa (all range)
Resolution	5kPa
Body Size W×H×L	128×62×975mm
Weight	1190g
Advantages	Chuck : Passenger car Case : Steel case



MTS-5MC

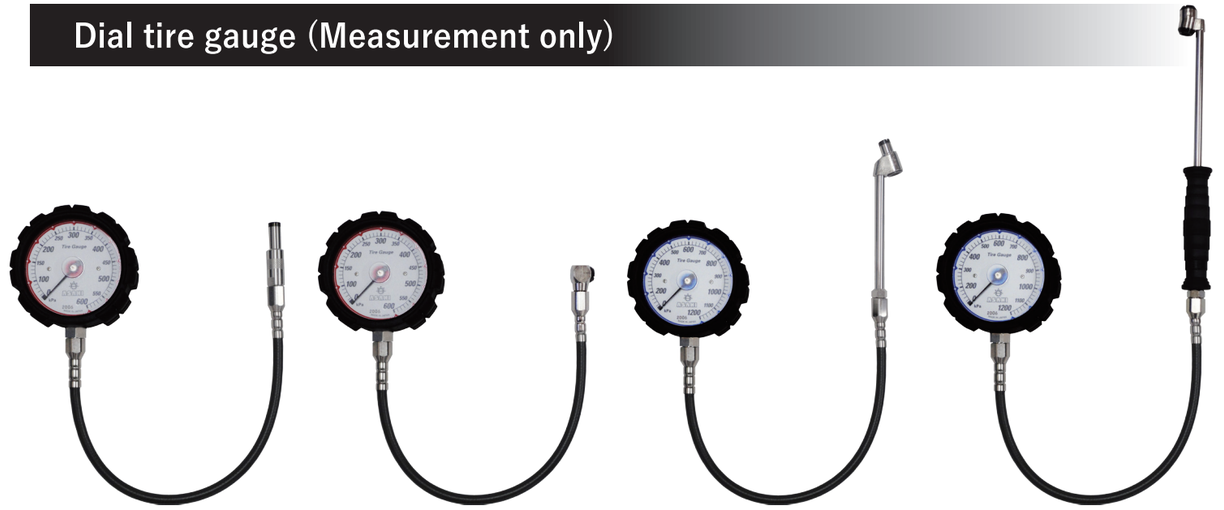
Range	0 ～ 500kPa
Accuracy	±3kPa (50~450kPa) ±4.5kPa (all range)
Resolution	5kPa
Body Size W×H×L	128×62×945mm
Weight	1170g
Advantages	Chuck : Motorcycle Case : Steel case



MTS-15

Range	0 ～ 1500kPa
Accuracy	±9kPa (150~1350kPa) ±13.5kPa (all range)
Resolution	10kPa
Body Size W×H×L	128×62×1080mm
Weight	1200g
Advantages	Chuck : Large vehicle Case : Steel case

Dial tire gauge (Measurement only)



AD-306

Range	60 ～ 600kPa
Accuracy	±10kPa
Resolution	10kPa
Body Size W×H×L	102×40×605mm
Weight	395g

AD-306MC

Range	60 ～ 600kPa
Accuracy	±10kPa
Resolution	10kPa
Body Size W×H×L	102×40×575mm
Weight	370g

AD-312

Range	120 ～ 1200kPa
Accuracy	±20kPa
Resolution	20kPa
Body Size W×H×L	102×40×705mm
Weight	415g

AD-312TB

Range	120 ～ 1200kPa
Accuracy	±20kPa
Resolution	20kPa
Body Size W×H×L	102×40×815mm
Weight	455g