

14 years of experience in Japan

Construction method also usable in public architecture

Ecology

W
eco

Economy

Eco-Friendly Method with No Welding Required

CK FLARE-MACHINE

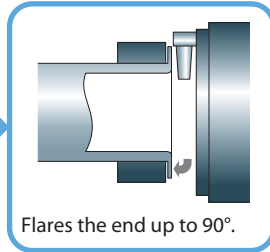
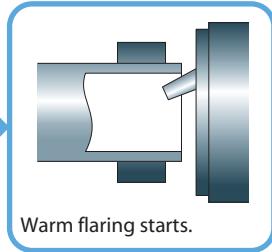
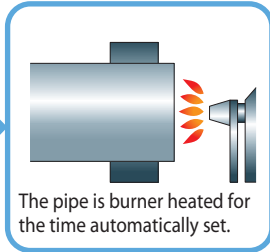
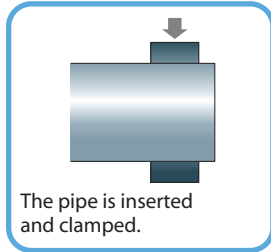
[Model 200]

[Model 400]



Internal roller

Flaring process



Example of flare piping



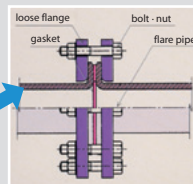
Main features of FLARE-MACHINE III

- 1 Model 200 for 40 to 200A SGP pipes*1 and 50 to 200Su stainless steel pipes
Model 400 for 65 to 400A pipes
- 2 Lighter than our previous models by almost 50% and available for on-site flaring
- 3 The world's lightest flaring machine
- 4 No buckling of stainless steel pipes
- 5 Stable flaring quality with the warming unit incorporated into the machine
- 6 Flaring time: Approx. 50 s (SGP)
- 7 Flanging compliant with WSP*2 and SAS*3
- 8 Minimum pipe length: 200 mm (SGP 100A)

*1 Carbon steel pipes

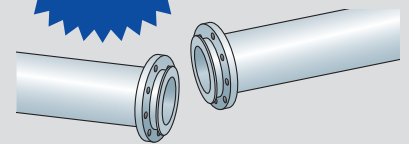
*2 Japan Water Steel Pipe Association WSP071-2009 "Steel pipe flanged fittings: Joint standard"

*3 Stainless Steel Association Standards SAS363:2005 "Stainless steel flange fittings" (in Japan)



Thickness
Steel pipe: 8 mm;
Stainless steel
pipe: 5 mm
Size 40 to 400A

Approx. 50 s
(per position)
90° flanging



Easy bolting enabled by joining
loose flanges!



The flaring method is... An innovative method that does not require welding

1 High quality

Flaring by machine ensures high accuracy regardless of the operator's skill level.
Support for 90° flaring means pipes stay aligned.
No risk of poor welds due to weldless connections.
Warm working reduces peeling of plating.
Stainless steel reduces residual stress.



[Single flare type]



[Double flare type]

3 Safety

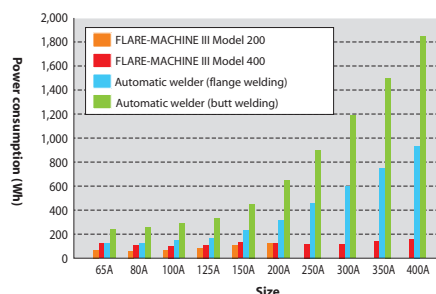
Connections do not require welding, which eliminates the risk of fire.
No welding fumes help to preserve a clean environment.



2 Eco-friendly

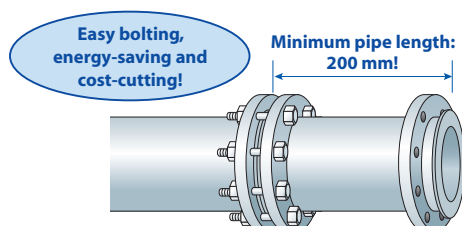
50 to 90% less power consumption than conventional welding methods

Comparison of power consumption: FLARE-MACHINE vs. automatic welder



4 Low cost

Improved workability with loose flange connection.
20% cost reduction due to shorter flaring time and reduced power consumption.



FLARE-MACHINE specifications

Model 200 specifications

Flaring range	40 – 200A
Supported pipe type	SGP, SUS10S, Su, STPG Sch40
Dimensions	1500W × 845D × 1410H
Weight	1300kg
Power	3 phase 200V 20A
Utilities	Hydraulic unit: 3.7kW; Main spindle motor: 2.2kW
Flaring time	Approx. 50 s

Model 400 specifications

Flaring range	65 – 400A
Supported pipe type	SGP, SUS10S, Su, STPG Sch40
Dimensions	1780W × 1130D × 1710H
Weight	3000kg
Power	3 phase 200V 50A
Utilities	Hydraulic unit: 3.7kW; Main spindle motor: 3.7kW
Flaring time	Approx. 60 s

Contacts

CK CK METALS Co., Ltd.

Tokyo Branch

Tokyo Bldg, 4Floor, 2-17-2 Iwamoto-cho, Chiyoda, Tokyo 101-0032
Phone +81-3-3861-8036, Facsimile +81-3-3866-8467