



**GLASS
INDUSTRY**

Proven solutions
for hot glass handling



MERSEN

CERBERITE®

HOT GLASS HANDLING HARDWARE & CONSUMABLES

Mersen graphites, composites and metallic systems are being used extensively throughout the glass handling industry. Its leading brand for materials and systems in the container glass handling is CERBERITE®.

Our technologically advanced materials provide superb performance in the hostile environment of extreme heat and possible oil contamination. Innovative improvements of our grades and proven solutions make us a full basket supplier of high quality materials and metallic supports.

CERBERITE® hardware is custom designed to specific hot handling requirements from the beginning to the end of a process line.

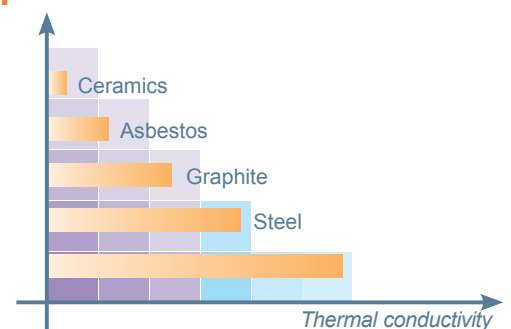
Thanks to its long experience in hot glass handling CERBERITE® provides complete proven solutions combining metallic hardware and carbon contact consumables. We offer an assurance of the same quality worldwide. This is achieved through local service everywhere, including machining in accordance with your unique specifications.

Characteristics Unit / Grade	Porosity %	Flexural strength MPa	Compressive strength MPa	Conductivity W/m°C
C1	3	65	121	1
C3	3	340	600	3
C5	11	48	110	5
C8	13	41	91	8
C15	13	41	91	81
C25	10	45	98	90
C50*	8	52	114	104
C55	7	65	143	78
C70*	4	98	216	19
CM20	12	100	160	20
C40	11	50	80	40
CM80	10	120	200	12

CM20, C40 and CM80 : measured in // direction
* anti-oxidation treatment

Carbon materials have proved themselves to be a more user-friendly alternative to other handling materials.

- Non damaging to hot glass
- Environmentally safe
- Good wear resistance
- Allow design flexibility
- Good resistance to thermal shock
- Strong
- Lubricant
- Low thermal conductivity



CERBERITE®-metallic hardware offers competitive advantages that reduce maintenance and downtime, and allows increased flexibility.

- Quick-change inserts and insulators,
- Adjustable blocks on stacker bars
- Easy set up
- Easy access
- Strong and light weight, crash resistant
- Designed with the main OEMs
- Reduced bending at high temperature

Our materials are in conformity with the RoHS-Directive (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment).

Besides Mersen guarantees the application of the European Community REACH-Regulation (Registration, Evaluation, Authorisation and Restriction of Chemical substances) to all its plants located in Europe.

Top plate + inserts
C50

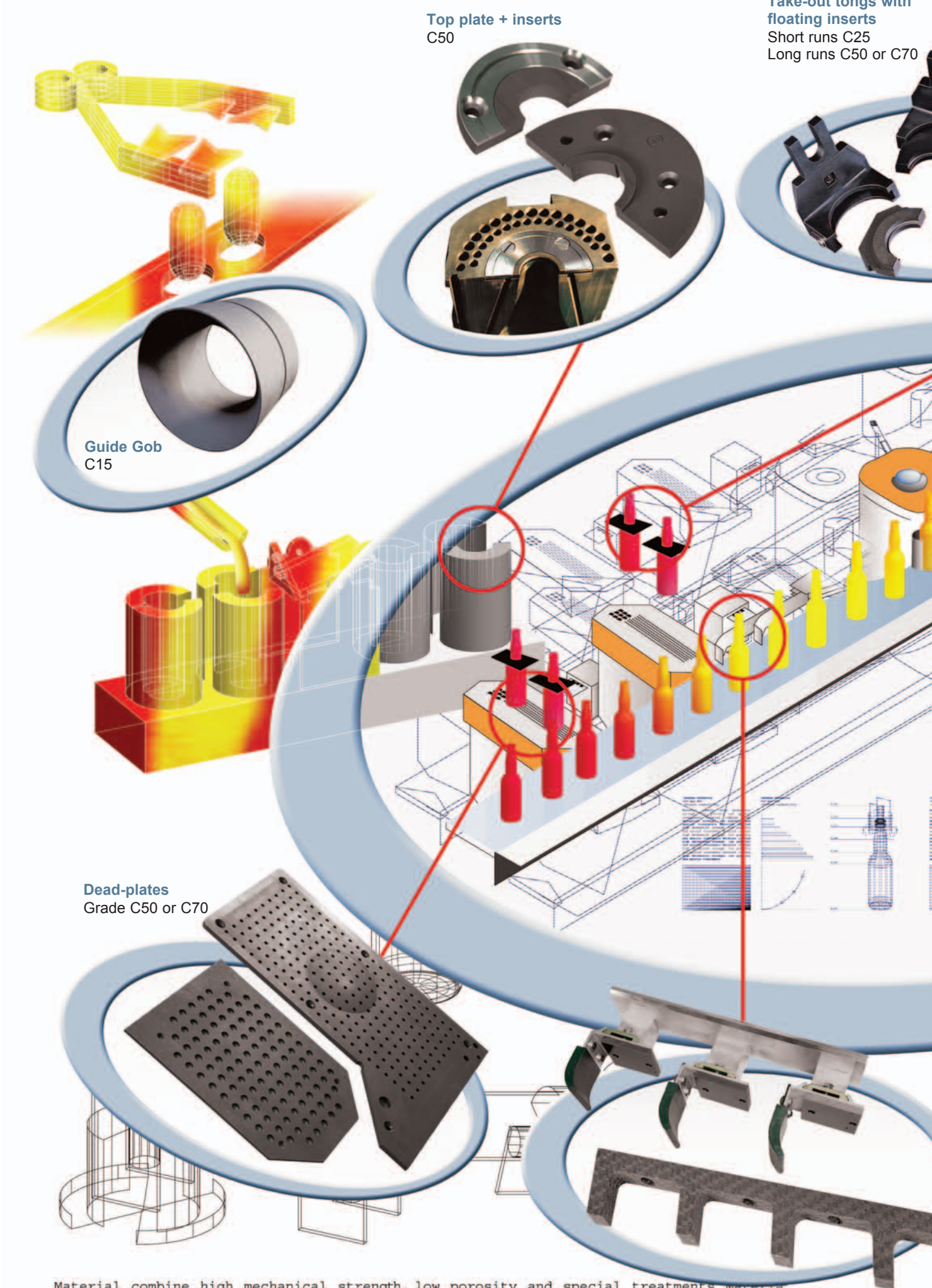
Take-out tongs with
floating inserts
Short runs C25
Long runs C50 or C70

Guide Gob
C15

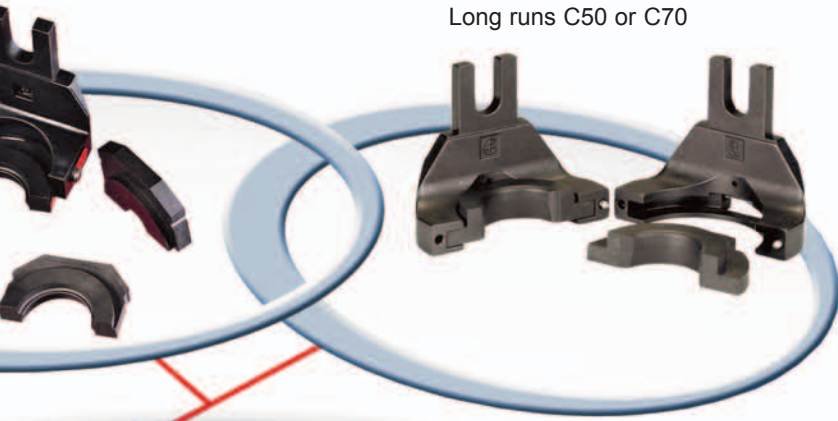
Dead-plates
Grade C50 or C70

Material combine high mechanical strength, low porosity and special treatments Material combine high mechanical strength, low porosity and special treatments Material combine high mechanical strength, low porosity and special treatments Material combin

Sweep-out fingers
Grade C1, CM20 or C40



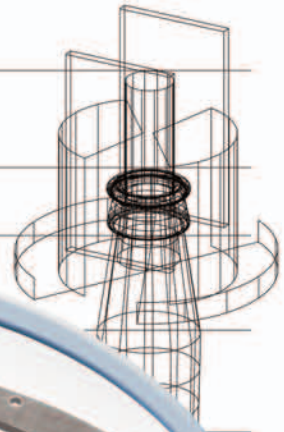
**Round style take-out
tongs with inserts**
Grade short runs C25
Long runs C50 or C70



0,01

0,02

0,03



Conveyor guide
Grade C1 or CM20

0,04

0,05

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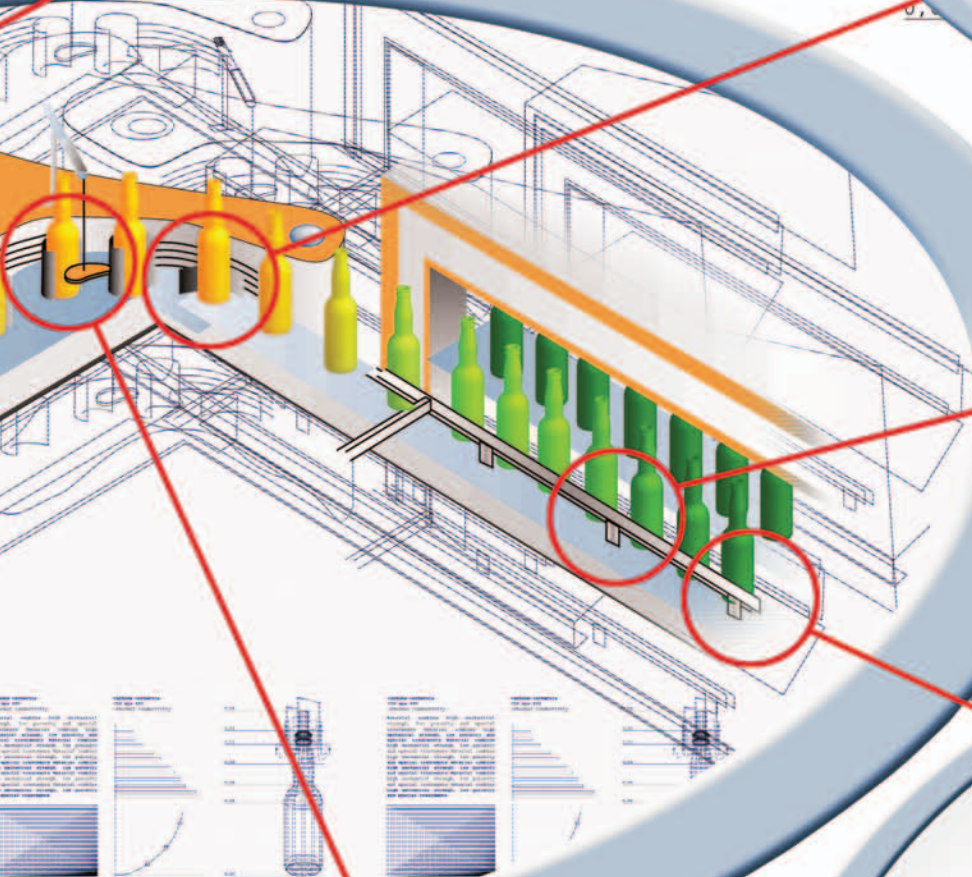
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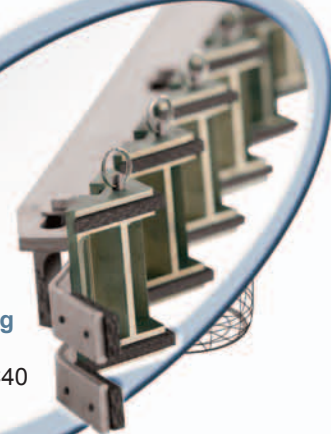
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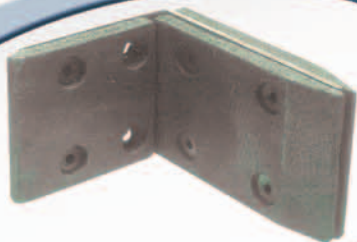
**Stacker bar block
with insulators**
Grade CM20,
C40 or CM80



**Universal fitting
stacker bar**
Grade CM20, C40
or CM80



Sweep-out arm
Grade C1, CM20 or C40



SPECIALTY GLASS

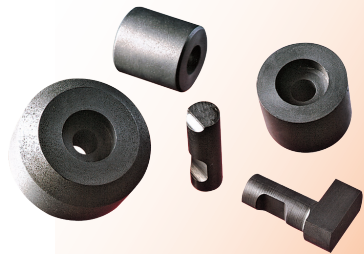
MERSEN has developed a varied range of high performance carbons and graphites that meet unique specifications of the glass industry.

Precision workshops of MERSEN network will machine locally parts according to your application requirements: Flat glass, Tableware, Laboratory, Pharmaceutical glass, TV and lighting glass, Glass fibre and Optical fibre.

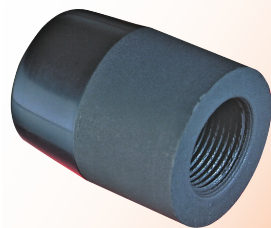
Diabolo grade C8



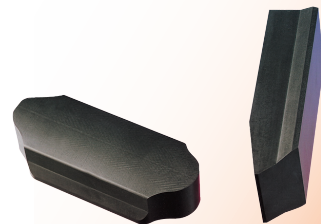
Pin holder grade C50



Shaping stabber grade C25



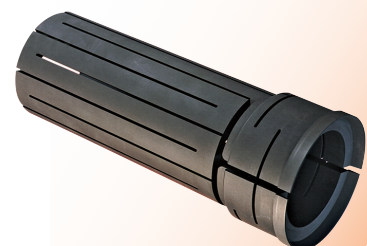
Neck holder grade C8



Guide grade C55



Resistor grade C15 or C25





address creative

MERSEN
Expertise, our source of energy

A WORLD EXPERT
in materials and solutions
for high temperature processes

A GLOBAL PLAYER

Global expert in materials and solutions for extreme environments as well as in the safety and reliability of electrical equipment Mersen designs innovative solutions to address its clients specific

needs to enable them to optimize their manufacturing process in sectors such as energy, transportation, electronics, chemical, pharmaceutical and process industries.

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