



Th. WORTELBOER B.V.

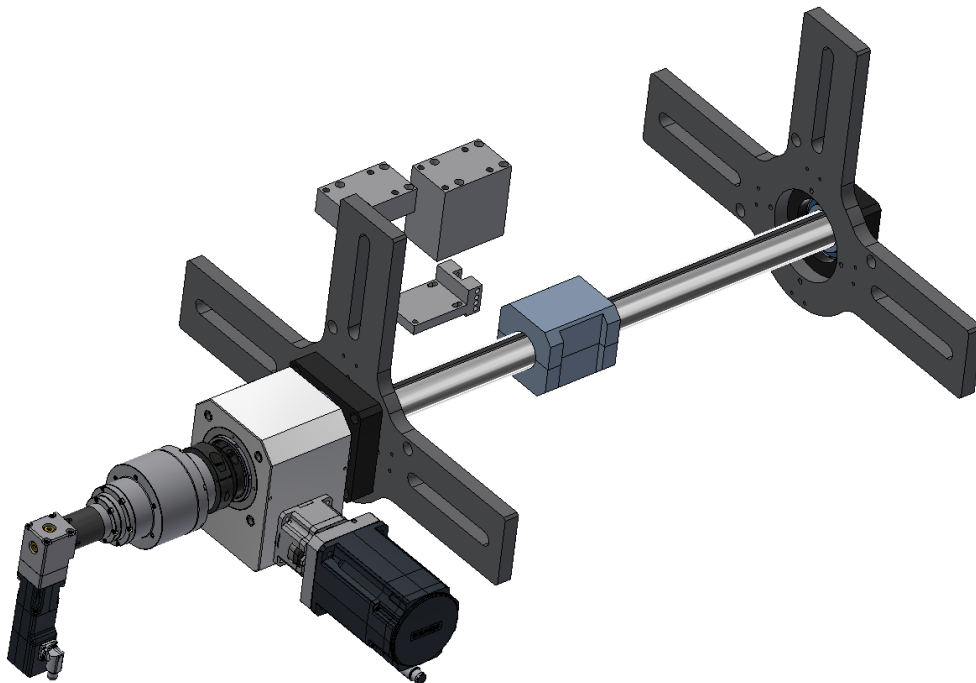
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BORING BARS for diameters 50 - 3.050 mm.

Electric / Pneumatic / Hydraulic driven machines
for machining of turning holes and chambers



With the TBM Boring Bars, damaged, oval holes can be cut to size.

To be able to turn the holes back to the original size, there is an accessory with which the holes can be welded again. After welding, the original size can be returned.

The perpendicular guide surfaces can also be turned with an accessory.

There is a choice of various drive options.

Because the axial feed is adjustable, all roughnesses of the bore or the rectangular gasket surface can be achieved because versions with radial feed are also possible.

Today, the Boring Bar is available from standard axial feed only up to complete CNC controlled versions (also depending on the diameter).

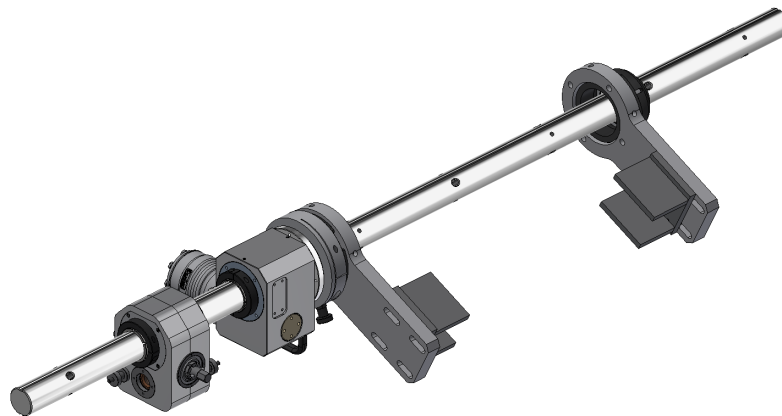
The machines are delivered in one or more box (s) containing all the necessary accessories for processing the various diameters within the range.

for

- heat exchanger manufacturing • offshore constructions
- apparatus manufacture • equipment constructions
- shipbuilding • machine construction • pipeline construction

Technical specifications TBM - BORING BARS

Model	TBM 45	TBM 57/60
Boring Bar (bar) diam.	45 mm.	57,15 mm. (2.1/4") / 60 mm.
Feeding by means of	sliding of the bar	sliding of the bar
Turning diameters	50 - 350 mm.	64 - 450 mm.
Optional turning diam. *		50 - 600 mm
Drive	E / P / H **	E / P / H **



Model	TBM 70	TBM 200
Boring Bar (bar) diam.	70 mm.	200 mm.
Feeding by means of	sliding support over the bar	sliding support over the bar
Turning diameters	180 - 650 mm.	800 - 3.050 mm.
Optional turning diam. *	180 - 850 mm.	
Drive	P / H / S-E **	P / H / S-E **

* Extra accessories are needed.

** Electric 230V / Pneumatic / Hydraulic / Servo motor Electric.

MACHINING ACCESSORIES:

- support for flange facing.
- support for cutting.

SPECIAL BORING BAR - model TBK-45 for machining of coupling-holes:

A special but still universal Boring Bar that is designed for the "small spaces" and still easy to use and simple mounting on the job and easy to operate. The machine has all in itself for mounting on "all coupling-connections".

