

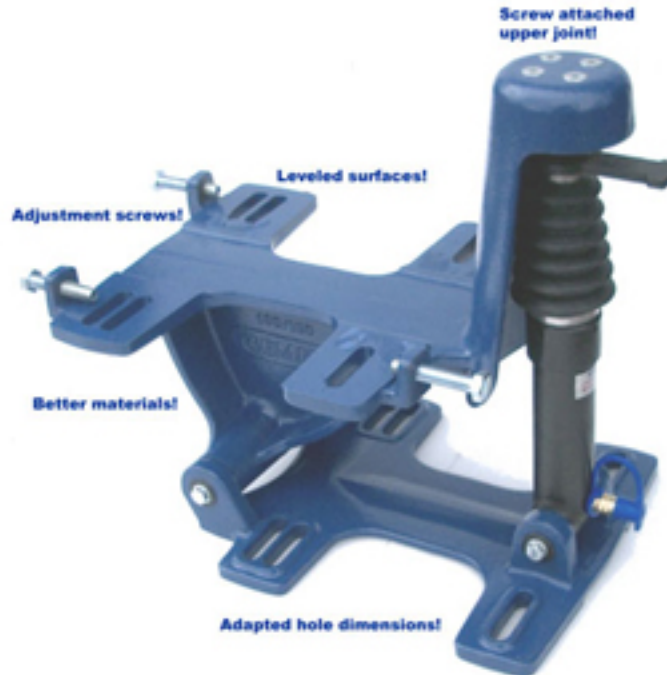
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## **IEC 160-180 H**

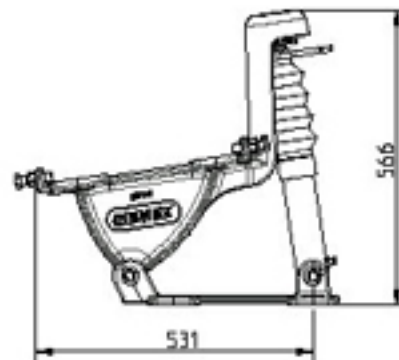
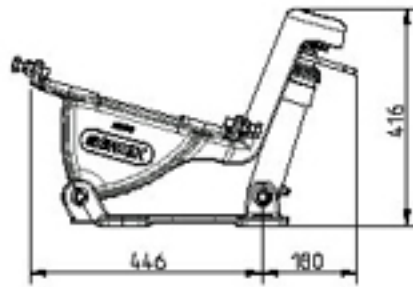
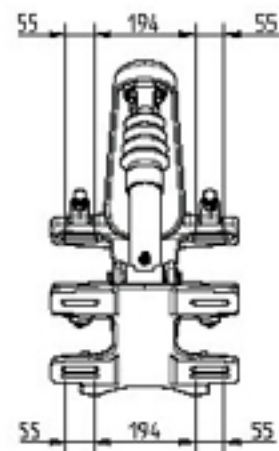
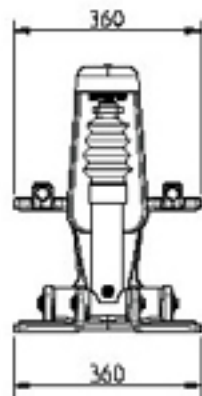
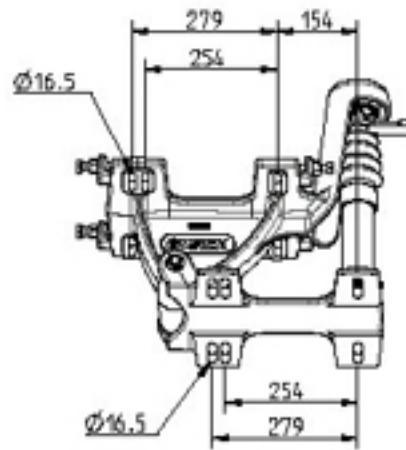
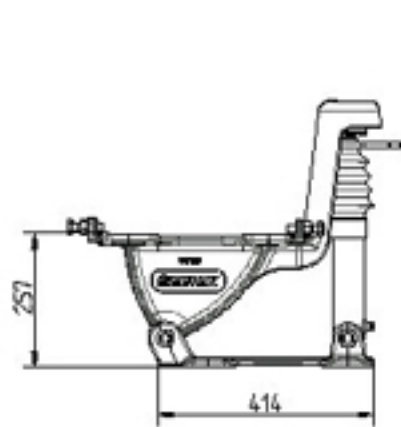
# **Industrial Productivity Tools**



**A better Gemex system, for small belt transmissions (approx. 3 – 30 kW)  
New Gemex 160-180H for motor sizes IEC 160 and IEC 180. With a simple adapter it  
also fits motors with build size IEC 112 and IEC 132.**

**Easy installation, adapted hole pattern, machine levelled surfaces and adjustment  
screws all around.**

- 160-180H has adjustment screws at all four corners. This makes fine tuning of motor alignment at installation easier.
- Machine levelled surfaces against motor feet also make alignment easier, and reduces the need for shims at the installation.
- The holes of the bottom part are adapted motor feet dimensions - there is usually no need for new attachments. These surfaces have also been levelled for perfect contact with the bed.
- The upper cylinder joint is attached to the shelf with screws instead of welding. This makes dismounting easier if the cylinder needs service or changing. You don't have to disassemble the ball joint but can simply remove the whole cylinder package!
- The biggest change is that 160-180H is now being casted in ductile iron, same as is already being used on the models 200-400H. Ductile iron suits the operating condition of a Gemex system. It has good resistance to corrosion and lacks inner tensions.



Horizontal stroke for adjustment: 150 mm

WEIGHT 50 kg

## **How to install Gemex system Horizontal. Step by step!**

In order to take full advantage of your Gemex system, it is important that the installation is properly executed. The following is a work procedure including the most important steps.

In order to take full advantage of your Gemex system, it is important that the installation is properly executed. The following is a work procedure including the most important steps.

1. Dismount the motor from existing supports.
2. Put the Gemex system on the foundation. (Alternatively the system can be mounted directly on existing slide rails, if they are in good shape – mount the Gemex system loosely.)
3. Mount the motor loosely.
4. Adjust the system to correct position. Search for a position, with the cylinder lowered, where the belts easily can be mounted (pic. 1).
5. Adjust for shaft parallelity. Please use a laser alignment tool.
6. Vertical shaft parallelity is adjusted with shims, mainly between the Gemex system lower part and the foundation.
7. Parallel alignment is adjusted by shoving the motor sideways by hand.
8. Mark the holes and drill for supports.
9. Dismount the belts.
10. Fasten the Gemex system against the foundation or slide rails.
11. Fasten the motor against the Gemex system. During the entire fastening / tightening phase, make sure that pulleys are aligned (pic. 2). Please use a laser alignment tool.
12. Mount the belts and pump up to the correct belt tension.
13. Release the cylinder to lower position so that belt tension is relaxed.





14. Check for parallelity and alignment again, adjust if necessary (pic. 3).

15. After tighten all screws.

16. Adjust for correct belt tension by pumping up pressure in the cylinder.

17. Rotate the pulleys in order to distribute the tension equally over the belts.

18. Check belt tension. Please use a tensiometer.

19. Read the manometer pressure corresponding to correct belt tension, impress it on the machine plate for future use.

20. For operational use of the system, please see instruction "adjustment".

Please [contact](#) us for further information.

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