

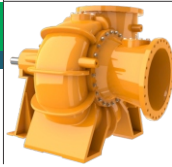
Line

NCI

IRRIGATION



 **IMBIL**®
Pumping Solutions



APPLICATIONS



IRRIGATION AND LARGE SCALE FLOODING

CHARACTERISTICS



The **NCI** line of centrifugal pumps for irrigation have a single, mixed flow stage with closed rotors designed for severe services.

Developed to obtain high efficiency at large operation levels, they enable a reduction in the power of drives as well as lower energy costs over time. The design of the housing enables the same pump to operate in two different rotation directions.



The NCI line pumps can be mounted vertically.

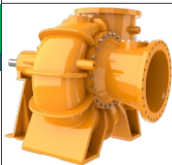
NCI pumps present characteristics that enable the removal of the rotor and inspection of the internal parts without the need to remove the suction and discharge pipes.

To obtain greater durability and lower operational cost, they operate at low speed, and can be made from highly resistant noble materials.

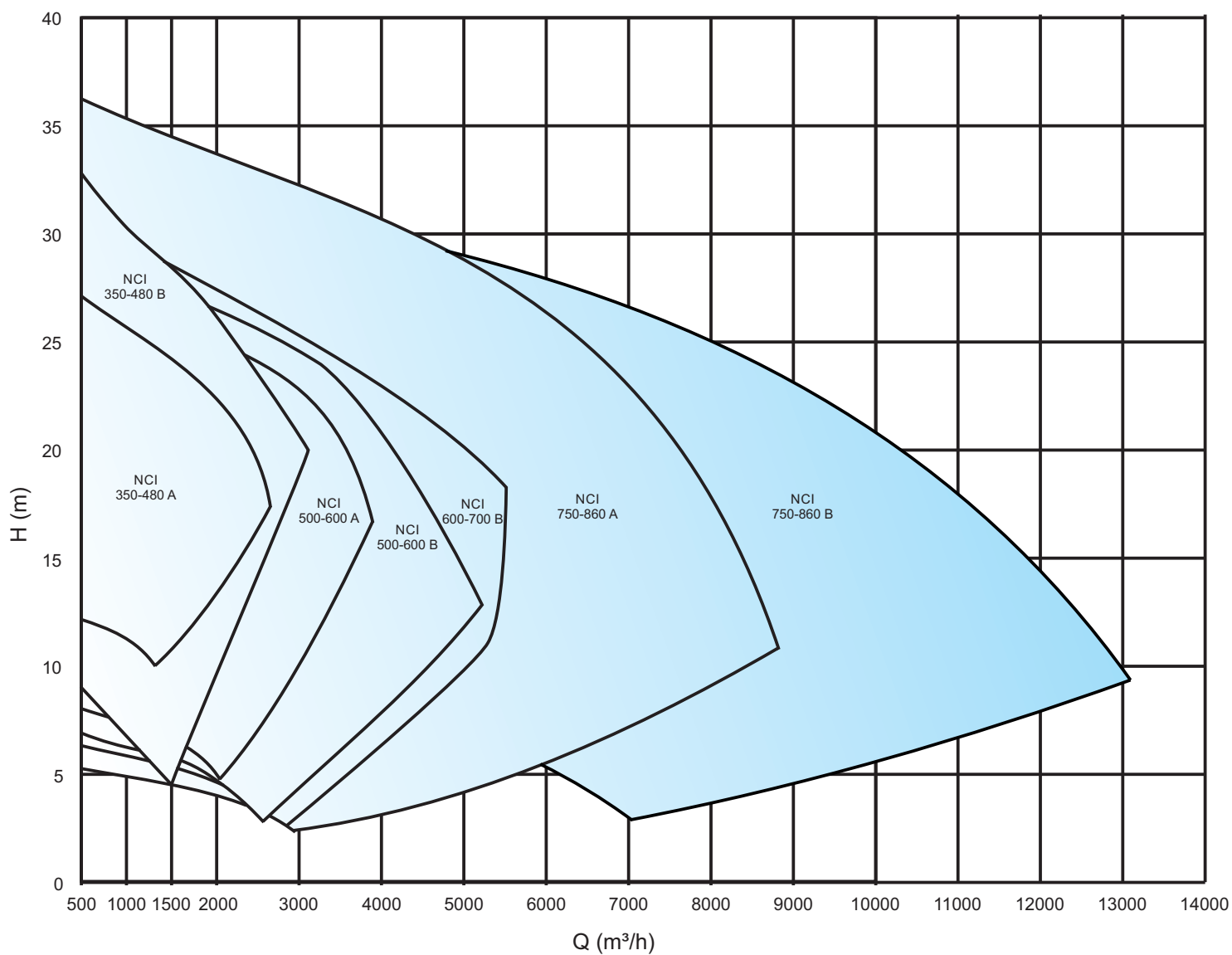


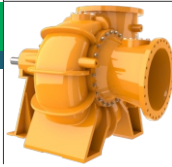
NOTES

We reserve the right to make modifications to our products whenever necessary, without this incurring any kind of obligation. The illustrations contained in this catalog are indicative – if in doubt please contact IMBIL.



APPLICATION CHART





TECHNICAL INFORMATION

1 BEARINGS

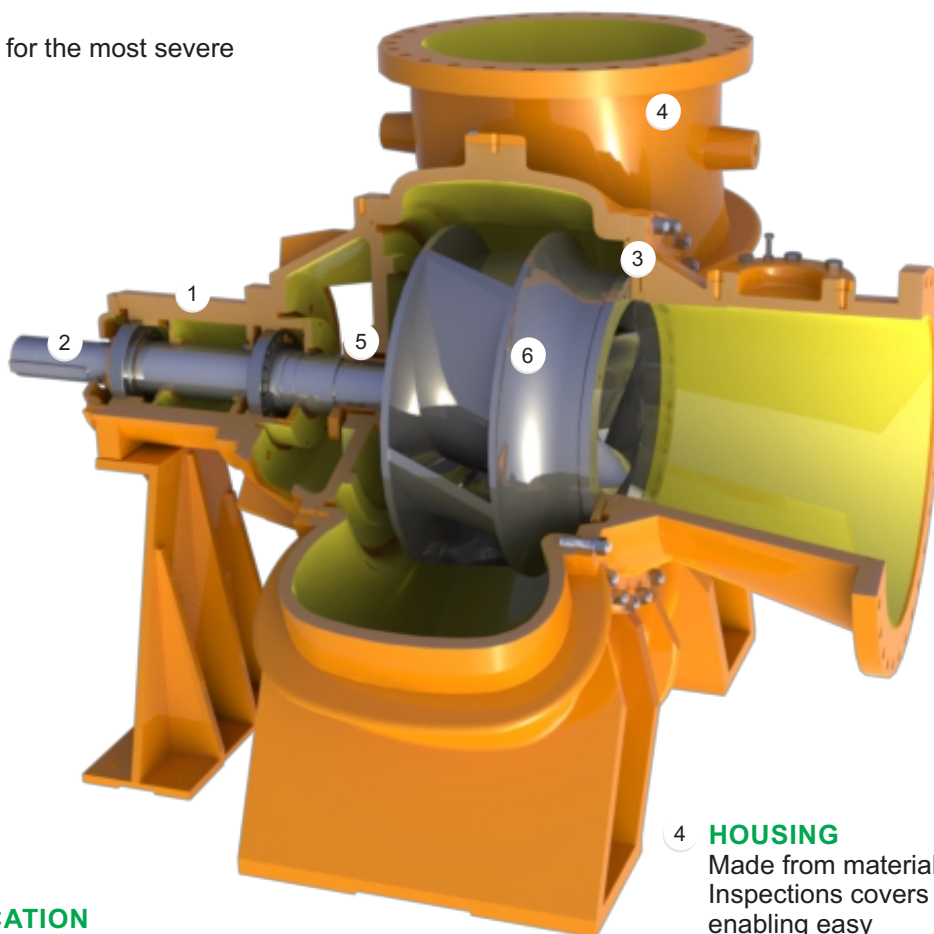
Tapered roller bearings that absorb axial and radial loads, designed for a long useful life, heavy duty bearings.

2 SHAFT

Designed for the most severe services.

3 WEAR RING

Made from material compatible with the liquid pumped, easily replaceable, avoiding wear on the noble parts, such as the housing and rotor. "Nose ring" surface which enables large radial deflections, maintaining a minimum clearance, with the possibility of axial adjustment to return to original efficiency.



LUBRICATION

Normally lubricated with grease, or optionally with oil, in the horizontal version.

5 PROTECTIVE LINER

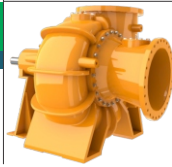
Removable, made from material compatible with the service. Protects the shaft in the sealing joint unit to avoid wear in the greasing/sealing region.

4 HOUSING

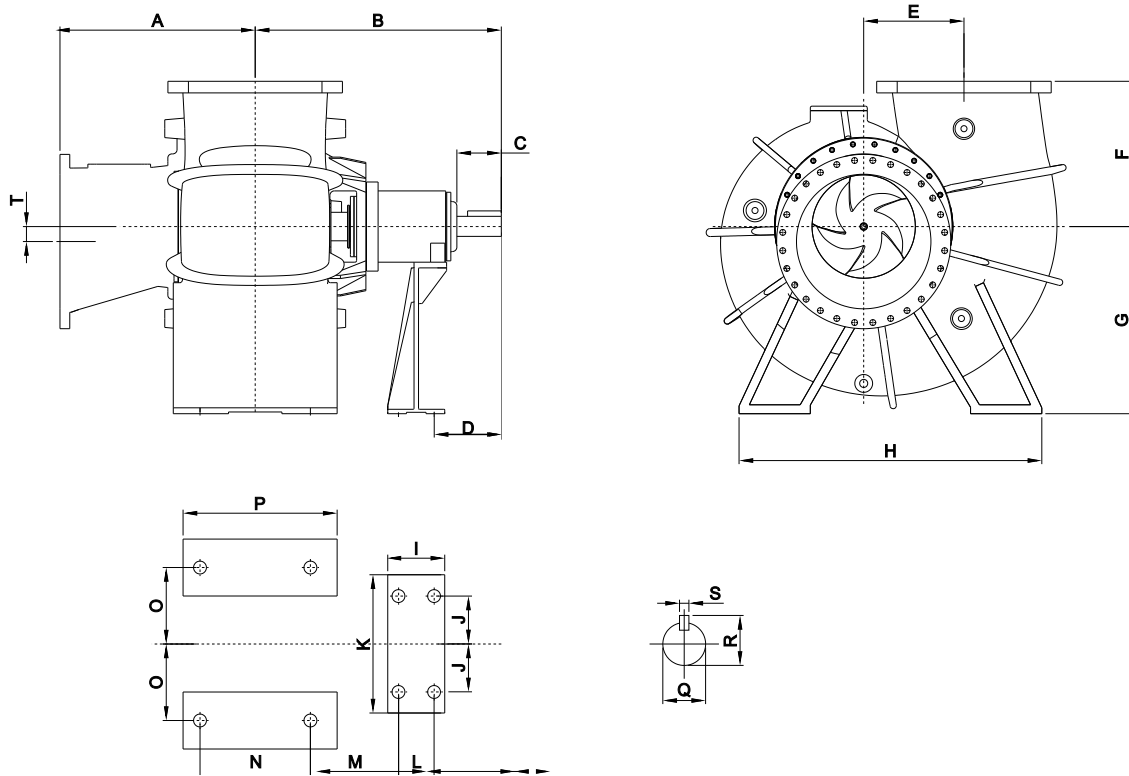
Made from material compatible with the service. Inspection covers in the suction and spiral, enabling easy access to the rotor. "Back pull out" design that enables removal of the rotor without disconnecting the housing and suction and discharge pipes, reducing maintenance time.

6 ROTOR

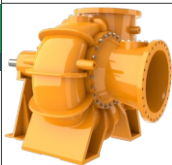
Simple suction and closed construction, with non-clog technology, enabling the passage of solids with a large diameter normally found when pumping wastewater. Statically and dynamically balanced, it maintains high efficiency even in the most severe services and assemblies.



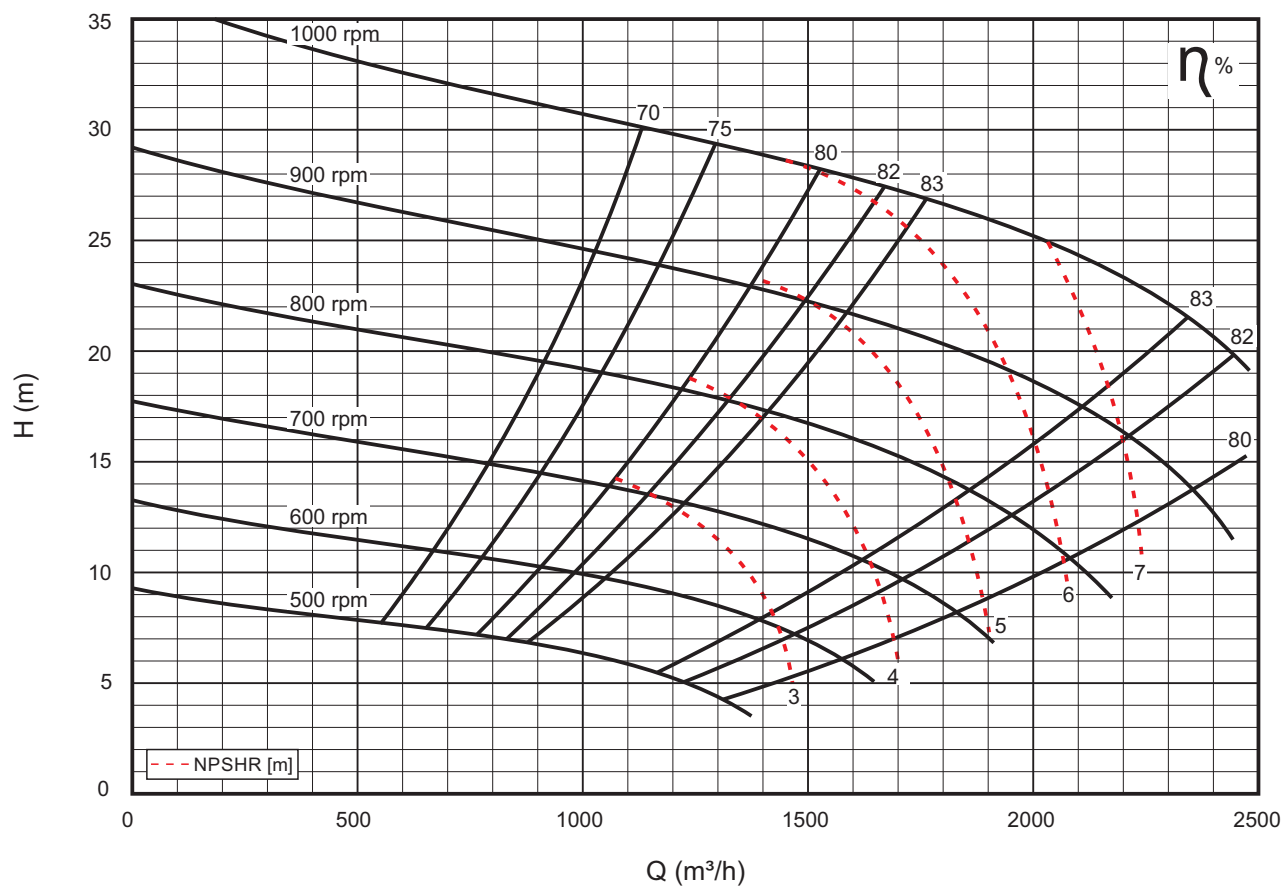
DIMENSIONAL DESIGN

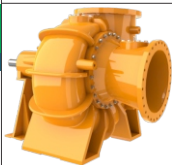


NCI Dimensions				
DIMENSION [mm]	350-480	500-600	600-700	750-860
A	619	742	742	1033,5
B	1170,8	1036	1359	1381
C	253,5	246,3	247,7	248,8
D	403,5	351,6	339,5	376,5
E	350	530	550	563
F	515	454	714	815
G	550	669	1028	1050
H	700	900	1200	1700
I	300	320	243	320
J	240	325	325	350
K	600	765	765	820
L	180	180	145	200
M	353,8	439,4	601,3	494,5
N	450	140	300	620
O	250	390	350	735
P	525	305	440	920
Q	90	90	115	110
R	97	95	125	117
S	25	25	31,75	32
T	28,6	50	50	84

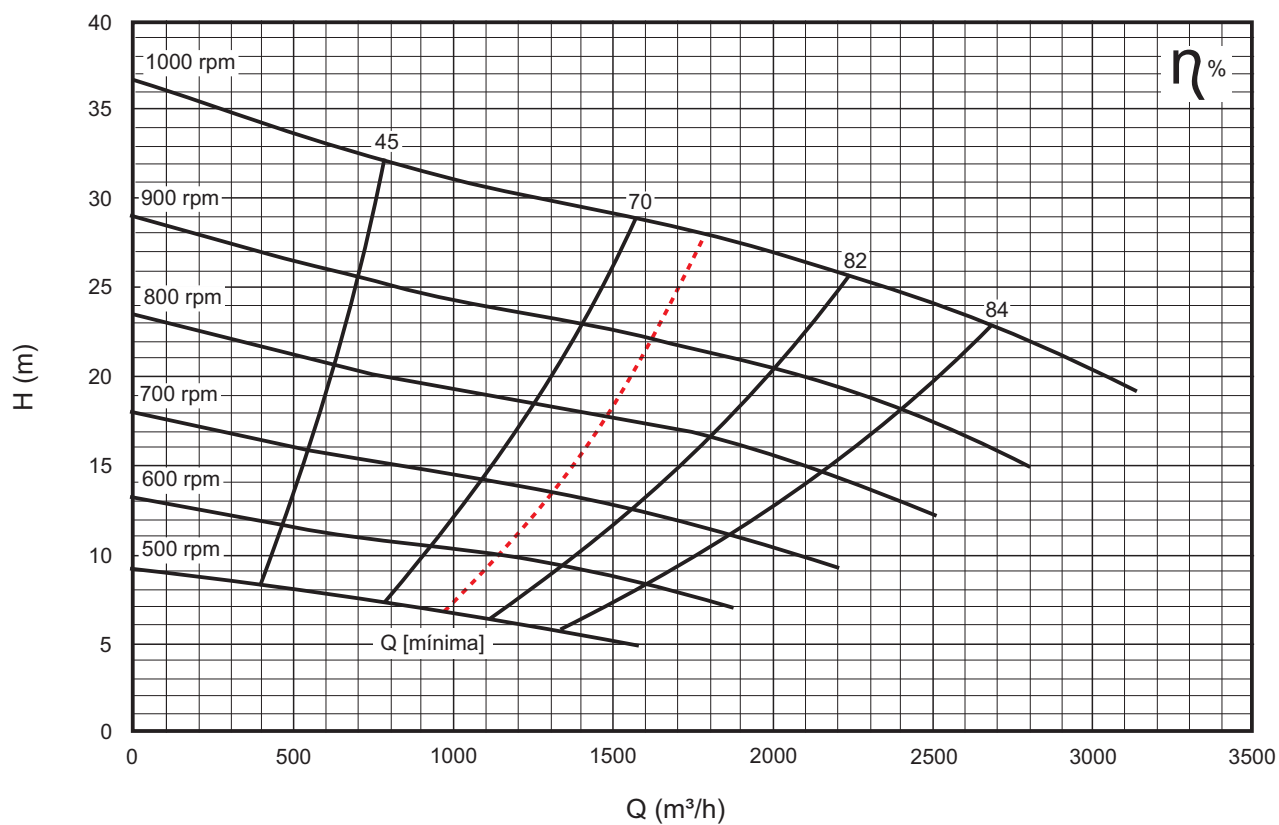


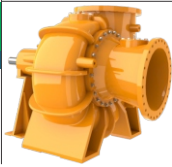
PERFORMANCE CURVE: NCI 350-480 "A"



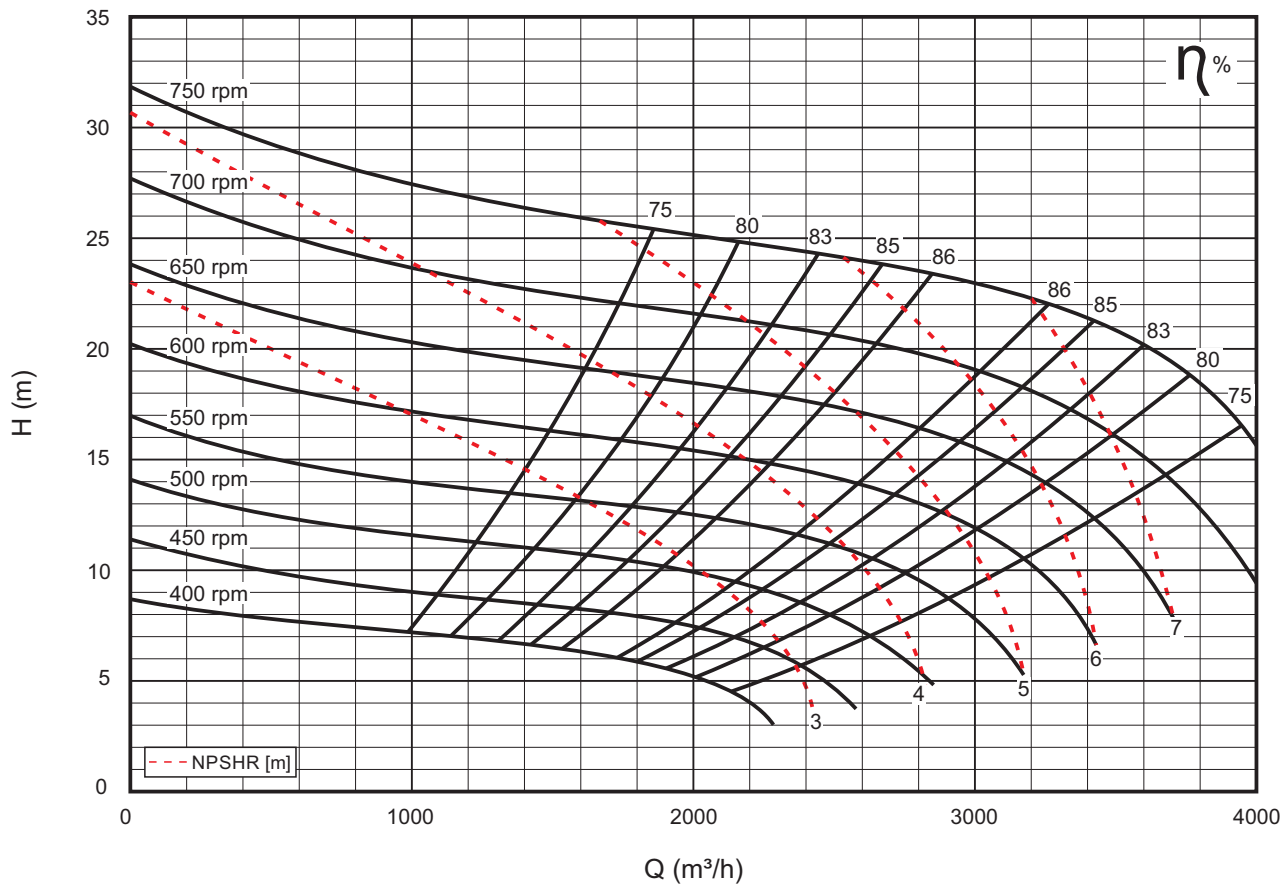


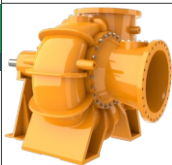
PERFORMANCE CURVE: NCI 350-480 “B”



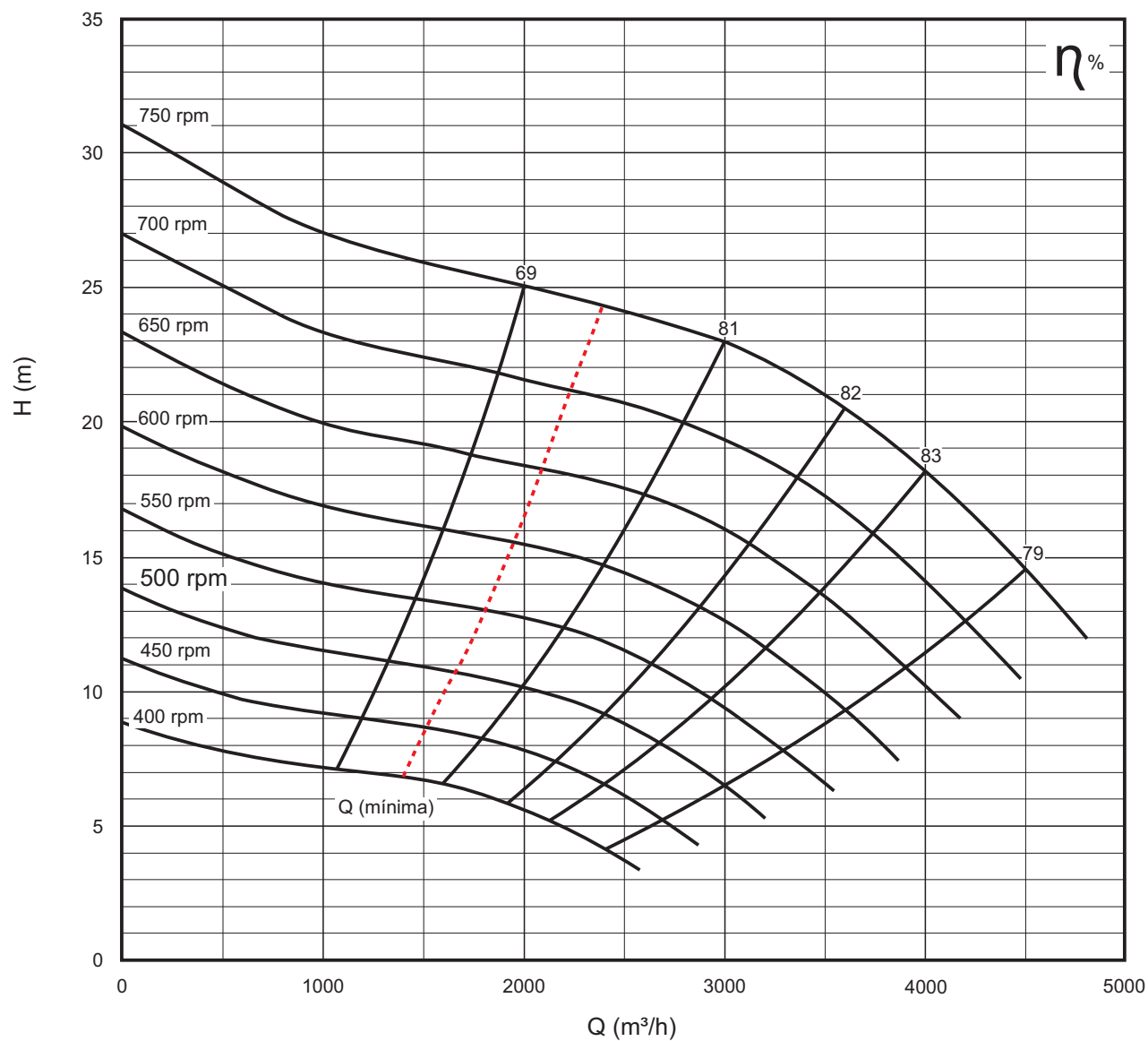


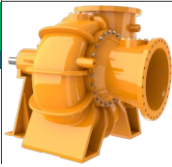
PERFORMANCE CURVE: NCI 500-600 “A”



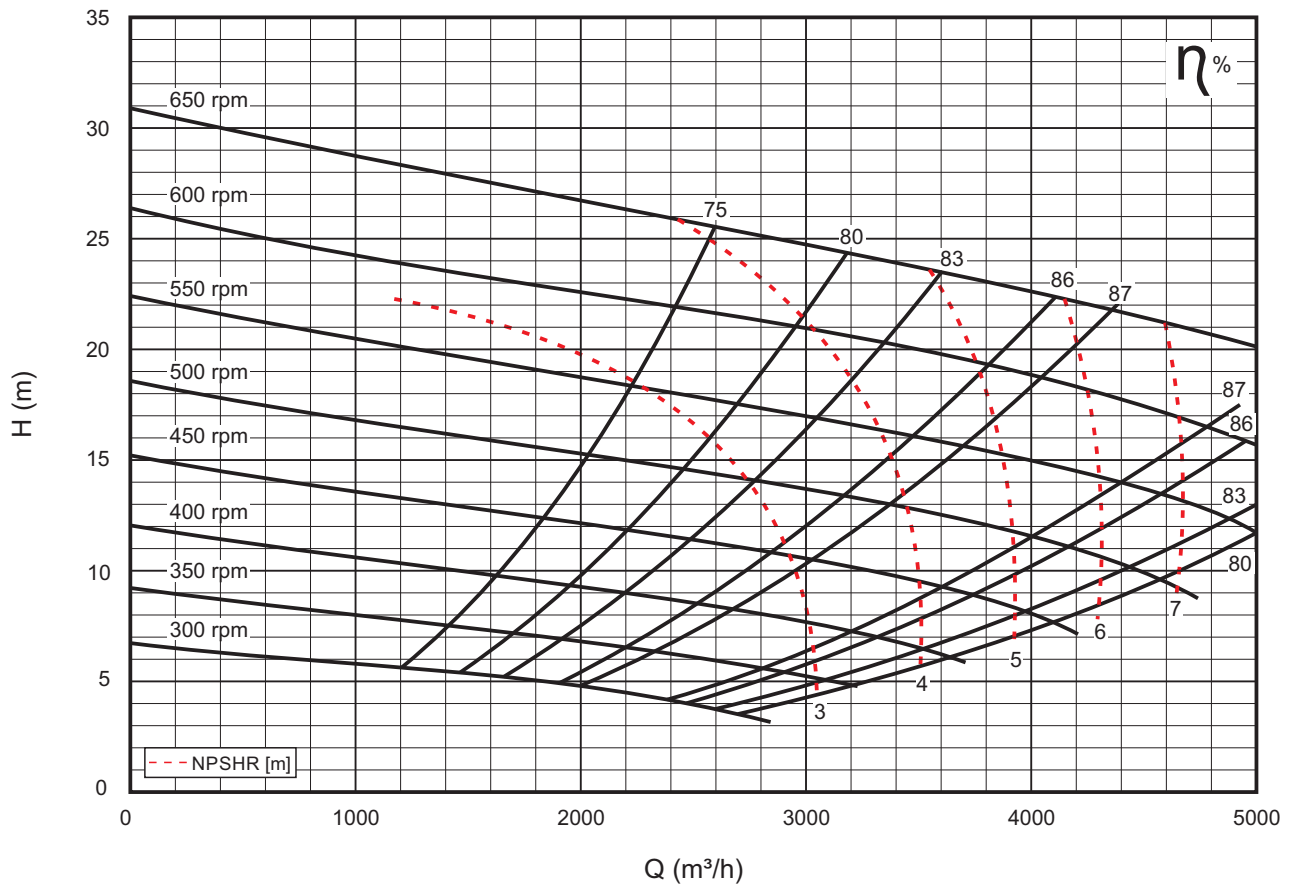


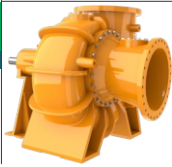
PERFORMANCE CURVE: NCI 500-600 “B”



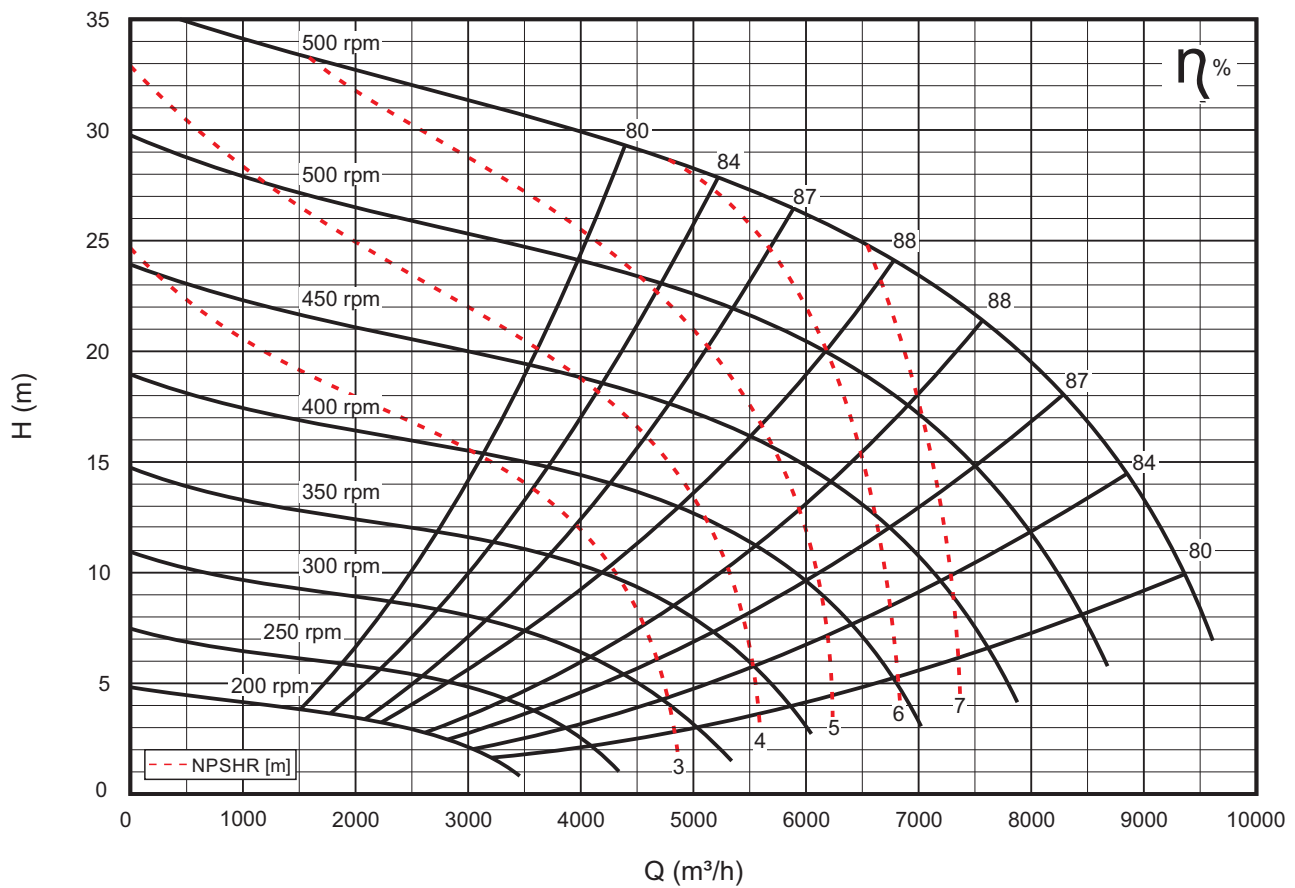


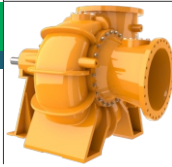
PERFORMANCE CURVE: NCI 600-700 “B”



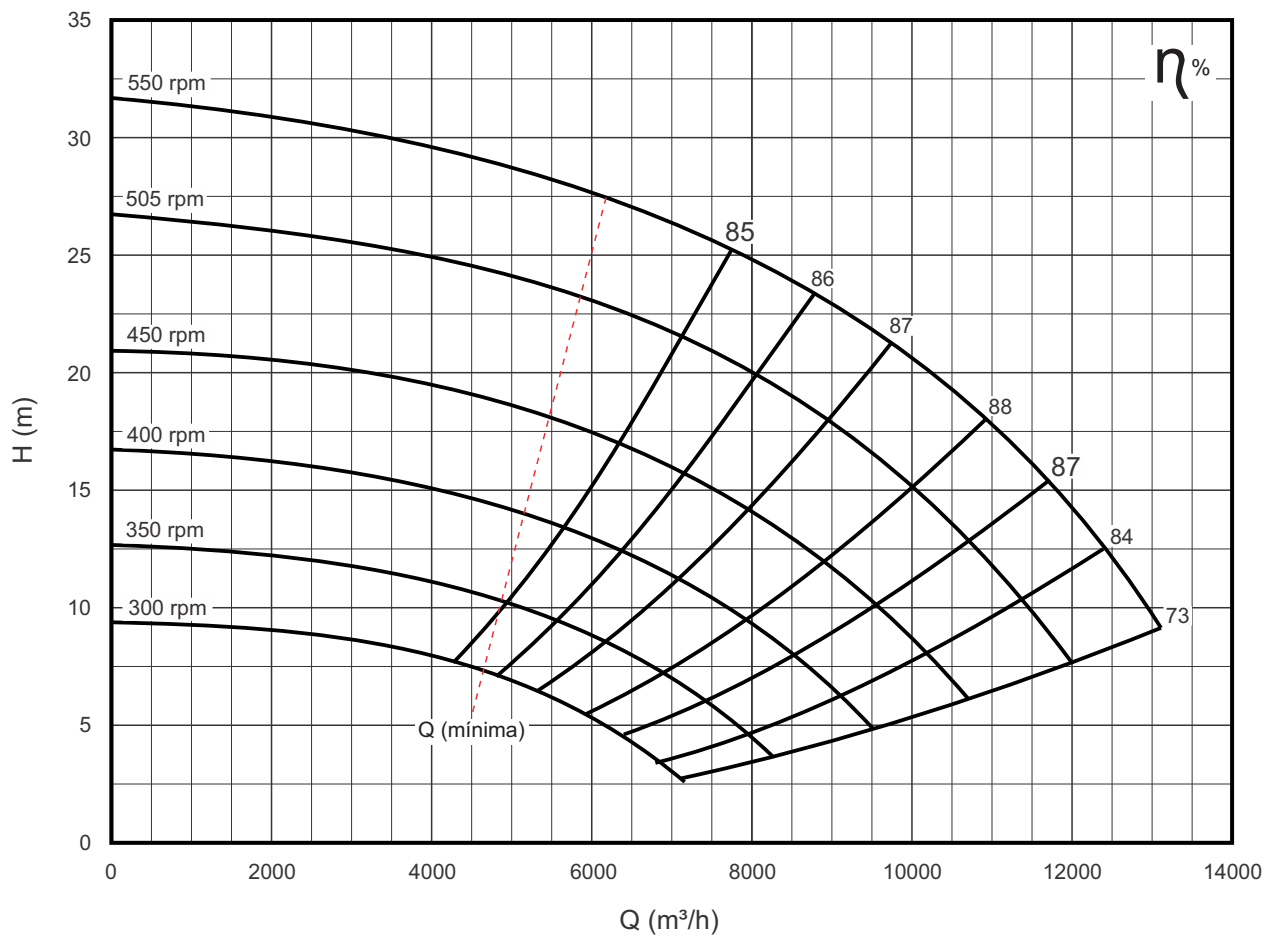


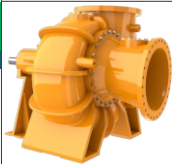
PERFORMANCE CURVE: NCI 750-860 “A”

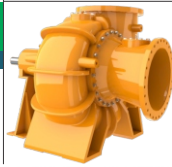




PERFORMANCE CURVE: NCI 750-860 "B"







AREA OF 120.000 SQUARE METERS

- | | | | | |
|---|---------------------------------------|---|------------------------------------|-----------------------------------|
| F1. Medium-sized pumps | F3. Center for the development | F5. Small pumps | F7. Precision casting | F10. Pumps for oil and gas |
| F2. Foundry cast iron and INOX/WCB | F4. Large pumps | F6. Contracts and maintenance services | F8. Coupling and expedition | |

IMBIL - Generating Pumping Solutions

Growing in the global pumping market, IMBIL - Industries and Maintenance of Pumps ITA Ltda., is located in the city Itapira, São Paulo on its own area of 120,000 square meters.

IMBIL disposes of advanced technical resources, practices of modern Administration and Engineering techniques, and the constant development of competencies, skills and attitudes of employees.

Our Quality Management System is certified by the international standard ISO 9001-2000 - "Bureau Veritas Certification."

Currently IMBIL has accelerated the development of its Integrated System of Social and Environmental Management.

All Commercial, Administrative and Industrial functions of IMBIL are fully interconnected by Management software in a network with more than a hundred stations that are connected by wireless fiber optic.

Supported by three privately owned Modeling Foundries, IMBIL is self-sufficient in the production of their castings, which attends the most varied materials, especially those resistant to abrasion and corrosion.

IMBIL uses Lean Manufacturing – a philosophy that aims to reduce the time between order placement and shipment of the product - which results in greater flexibility and shorter delivery times to customers.

IMBIL offers an appropriate and personalized Pre-sales service, from initial startup up to the maintenance of the equipment. IMBIL also, under Contract of Services, provides pumping installations for Sugar and Methanol, Steel, Mining, and other Industries in general.

This whole set of Human, Technological, and Financial resources are focused on IMBIL's Mission - "Provide pumping solutions and associated services to meet the needs and desires of its customers in the global market", while also respecting ethical principles that guide their relations with employees, partners, the environment and the society.

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