

Nidec

Power

Drilling Motors



Higher Horsepower.
More Torque.
Same Footprint.

KATO ENGINEERING[™]



**Higher Horsepower.
More Torque.
Same Footprint.**



Cooler Operating Motors Last Longer

Discover How Our Unique Rotor Design Enhances Motor Lifespan

Overview of our product advantages

By utilizing applied physics and state-of-the-art numerical analysis software, each motor features:

- Identical frame sizes and weights of standard, lower horsepower motors
- Proprietary intra-slot cooling technologies
- Fully optimized copper-to-steel ratios
- Improved coil slot & bar geometrics
- Systematic electrical stress testing pre-delivery

The superior solution

With reliable, durable motors on over 600 rigs worldwide, Nidec Power customers are now able to:

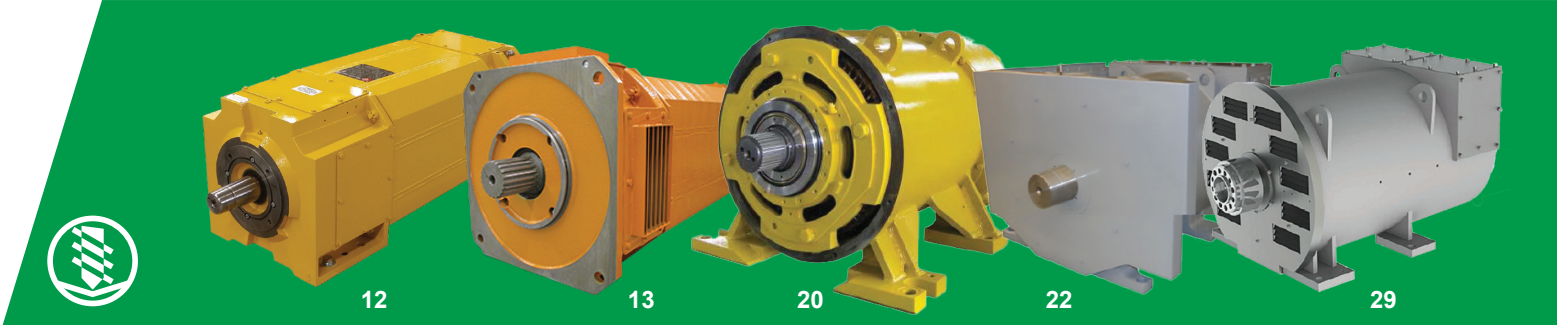
- Drill deeper, faster & more effectively
- Make longer horizontal runs
- Increase pump pressure
- Punch the drill string harder
- Improve portability of assets from site to site
- Reduce overall transportation & road weights fees
- Lower total motor lifecycles costs
- Easily retrofit existing applications without changing equipment designs

Standard Features

- Form wound stator windings
- Certified Class H insulation
 - Robotically taped Mica-Kapton
 - Glass sleeving on bolted wire connections
 - Fully vacuum impregnated
- Designed for Variable Frequency Drive operation
- Heater
- Constructed with nodular cast iron
- IP 23 motor enclosure

Optional Features

- Encoder
- Bearing RTD
- Blower assembly
- Air pressure switch
- IP 56 junction box
- IP 54 motor enclosure
- Double shaft extension (tapered, splined or keyed)
- Configurable blowers and junction box positions
- ATEX, IECEX, CSA, ABS, DNV certifications available upon request



Model	HAW12	HAW13	HAW20	HAW22	HAW29
HP	600	800	1150	1350	2000
Voltage (AC)	575 ± 10%	592 ± 10%	575 ± 10%	575 ± 10%	575 ± 10%
Rated Speed (RPM)	1172	1181	795	795	795
Torque (lb ft)	2690	3560	7610	7680	9500
Current (Amps)	540	686	1120	1120	1590
Max. permissible speed (RPM)	2340	2400	2300	3000	3000
Rated Frequency (Hz)	40	40	40	40	40
Ambient Temp (°C) <small>Many are -40 per certification</small>	-40 to 55	-40 to 55	-40 to 50	-40 to 50	-40 to 40
Temp Rise (°C)	90	100	100	100	88
Mounting	Vertical / Horizontal	Vertical / Horizontal	Vertical	Horizontal	Horizontal

Top Drive

- HAW12 / 400 - 600 HP
- HAW13 / 600 - 800 HP
- HAW20 / 1150 HP AC

Drawworks

- HAW22 / 1150 - 1350 HP
- HAW29 / 1500 - 2000 HP

Mud Pump

- HAW22 / 1150 - 1350 HP
- HAW29 / 1500 - 2000 HP

[NidecPower.com](https://www.NidecPower.com)

Connect with us:



[@NidecPower](https://www.linkedin.com/company/nidec-power)



[@NidecPower-Houma&Houston](https://www.facebook.com/NidecPower-Houma&Houston)