

泵前后压差从200bar提升至250bar,
压差承载更高,连续生产更稳定。

250 bar

减少脉动90%,输出更平稳,波动更小。

90%

热剪切降低45%,减少热损伤,保护熔体品质。

45%

能耗降低10%,兼顾精度与效率,运行更节能。

10%

以恒久稳定的熔体输送,消除生产波动,
为高强度连续作业提供更加稳定、更加可靠的解决方案。

With consistently stable melt delivery, it minimizes production fluctuations
and provides a more stable and reliable solution for high-intensity continuous operation.

精准计量

高效可靠

稳定挤出

面向热塑性塑料加工工况,实现熔体的稳定输送、增压与精确计量,提升产品尺寸精度与外观质量,适用于薄膜、片材、板材等生产工艺。

Designed for thermoplastic processing conditions, it enables stable melt conveying, pressurization,
and precise metering, improving dimensional accuracy and surface quality of the final product. It is
suitable for the production of films, sheets, plates, and related extrusion applications.

5TH-GEN. MELT PUMP LP SERIES



JCTIMES 精诚

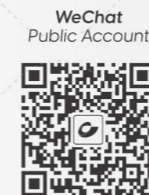
Nexus-LP 精诚第五代熔体齿轮泵,
是精诚时代针对热塑性塑料连续生产场景而研发的精密设备,
重新定义了连续生产的稳定标准,为全天候作业提供品质保障。

NEXUS-LP, the fifth-generation melt gear pump from JCTIMES, is a precision device developed for continuous thermoplastic production. It redefines the benchmark for stability in continuous operation and ensures reliable quality assurance for around-the-clock manufacturing.

适用原料

广泛适配各类聚合物体系,包括 PP、PE、PET、PO、PA、PC、PS、ABS、EPS、FP、TPE 等,
为连续生产提供稳定输送与精确计量支持。

Widely compatible with various polymer systems, including PP, PE, PET, PO, PA, PC, PS, ABS, EPS, FP, and TPE, providing
stable melt delivery and precise metering support for continuous production.



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JCTIMES 精诚
NEXUS - LP

新五代
熔体齿轮泵LP系列

具体型号	排量 (ccm)	极限产能(kg/h)	极限转速 (r/min)	对应第四代泵
NEX-25 LP	122	165	320	GD-E28
NEX-32 LP	24.6	290	270	GD-E36
NEX-40 LP	48	480	230	GD-E45
NEX-50 LP	96	850	203	GD-E56
NEX-63 LP	194	1480	175	GD-E70
NEX-80 LP	385	2500	150	GD-E90
NEX-100 LP	764	4310	130	GD-E110
NEX-125 LP	1550	7420	110	GD-E140
NEX-160 LP	3080	12750	95	GD-E180

精诚第五代熔体齿轮泵 Nexus-LP系列

泵体、盖板及轴封采用合金钢，齿轮轴与轴承采用工具钢，
兼顾结构强度、耐磨性能与长期运行稳定性。

The pump body, cover plate, and shaft seal are made of alloy steel, while the gear shafts and bearings are made of tool steel, ensuring structural strength, wear resistance, and long-term operating stability.

适用于高温、高压工况下的熔体稳定输送与精确计量，
可满足粘度最高30,000Pa.s、温度最高 350°C、进料端压力最高 120bar、出料端压力最高 370bar的应用需求，
并支持电加热或流体热媒加热。

30000 Pa.s
粘度最大值

350 °C
温度最高值

120 bar
进料端压力

370 bar
出料端压力

定制与选配

可按工艺需求定制，包括不同间隙、热媒加热、冷却通道、特殊密封及电压频率配置。同时支持传动系统、传感器、基座、控制系统等选配，灵活适配不同生产需求。

Customization is available to meet process requirements, including different gap configurations, thermal-fluid heating, cooling passages, special sealing solutions, and voltage/frequency settings. Optional drive systems, sensors, bases, and control systems are also available for flexible adaptation to different production needs.

外排泵

外排结构将
内部自润滑熔体排出

The external discharge structure expels the internally self-lubricating melt.

冷却液进口

冷却液出口

内冷式熔体泵

双向旋转接头装置用于熔体泵内部冷却，通过从动齿轮轴导入循环水，有效解决剪切热引起的泵体升温问题，实现原料过泵全过程温度可控，满足挤出生产需求。

The bidirectional rotary joint is used for internal cooling of the melt pump. By introducing circulating water through the driven gear shaft, it effectively addresses pump temperature rise caused by shear heat, enabling full-process temperature control of the material as it passes through the pump and meeting extrusion production requirements.

传动系统

熔体泵传动系统用于将电机动力稳定传递至泵体，实现高温高粘度熔体的精确增压、计量与稳定输送。

The melt pump drive system is used to stably transmit motor power to the pump body, enabling precise pressurization, metering, and stable delivery of high-temperature, high-viscosity melts.

