

Doosan Puma 800L

SPECIFICATIONS

CAPACITY:

Swing over bed		(1030mm) 40.5"
Swing over carriage		(800mm) 31.5"
Maximum turning diameter		(900mm) 35.4"
Distance between centers	-800	(1950mm) 76.8"
	- 800L	(3600mm) 141.7"
Maximum turning length	- Puma 800	(1600mm) 63.0"
	- Puma 800L	(3200mm) 126.0"

SPINDLE:

Spindle speed

Spindle nose		A1-20
Draw tube ID		none
Spindle bore diameter		(320mm) 12.6"
Recommended chuck sizes		Self contained type
Gear ranges		2
A.C. Spindle Motor (30 min. rating)		(45kw) 60 HP
Maximum spindle torque (30 min. rating)		(6605 Nm) 4,873 ft-lbs

800L

3 – 750 RPM

BED, SADDLE, & CROSS SLIDE:

X axis travel		(470mm) 18.5"
Z axis travel	800	(1650mm) 65.0"
	800L	(3235mm) 127.3"
Slant bed angle		45 degrees
X axis guideway span		(430mm) 16.9"
Z axis guideway span		(600mm) 23.6"
Tailstock guideway span		(390mm) 15.3"
X axis rapid traverse rate		(12 m/min) 472 IPM
Z axis rapid traverse rate	- Puma 800	(16 m/min) 630 IPM
	- Puma 800L	(10 m/min) 394 IPM
X axis ball screw diameter		(50mm) 2.0"
Z axis ball screw diameter		(70mm) 2.5"
X axis feed thrust (continuous/intermittent)		(15551/24881 N) 3,496 / 5,593 lbs
Z axis feed thrust (continuous/intermittent)		(29971/47953 N) 6,738 / 10,780 lbs
X axis repeatability		(±.002) ± 0.00008"
Z axis repeatability		(±.003) ± 0.00012"

TURRET:

Number of tools	12
Turning tool shank size	(metric turret 32mm) 1.25"
Boring bar diameter	(metric turret 80mm) 3.0"
Turret index time (next station swivel time)	0.25 sec.
Tool selection	Bi-directional
Curvic coupling diameter	(400mm) 15.8"
Turret clamping force	(177kN) 39,800 lbs
Turret index accuracy	± .0005 deg.

TAILSTOCK:

Tailstock quill diameter	(160mm) 6.3"
Tailstock quill stroke (programmable)	(150mm) 5.9"
Maximum tailstock quill thrust / maximum hydraulic pressure	(32kN / 4mpa) 7,150 lbs. / 580 PSI
Prog. tailstock body stroke - Puma 800	(155mm) 61.0"
- Puma 800L	(315mm) 124.0"
Tailstock spindle taper (built-in type)	MT #6

COOLANT SYSTEM:

Coolant pump pressure	(4.5 bar) 65 PSI
Coolant pump motor	(.9 kW) 1.2 HP
Coolant tank capacity - Puma 800	(410L) 110 gal.
- Pum800L	(560L) 150 gal.

HYDRAULIC / LUBRICATION:

Hydraulic tank capacity	(66L) 17 gal.
Hydraulic oil required	Mobil DTE 24 or Shell Tellus 32 *
Way lubrication tank capacity	(4L) 1.1 gal.
Way Lubrication oil required	Mobil Vactra #2 or Shell Tonna T68 *

* Cross reference these numbers for other brands

GENERAL:

Floor space (Length X Width – Puma 800)	(5760x3145mm) 227" x 124"
Floor space (Length X Width – Puma 800L)	(7360x2766mm) 290" x 109"
Floor space – Length with hinge belt chip conveyor	
- Puma 800	(6790mm) 268"
- Puma 800L	(8470mm) 334"
Net weight - Puma 800	(16,300kg) 36,000 lbs
- Puma 800L	(21,800kg) 48,060 lbs
Voltage required	205-230 Volt / 3 phase
Power requirement	65 kVA (170 Amps at 220 Volt)